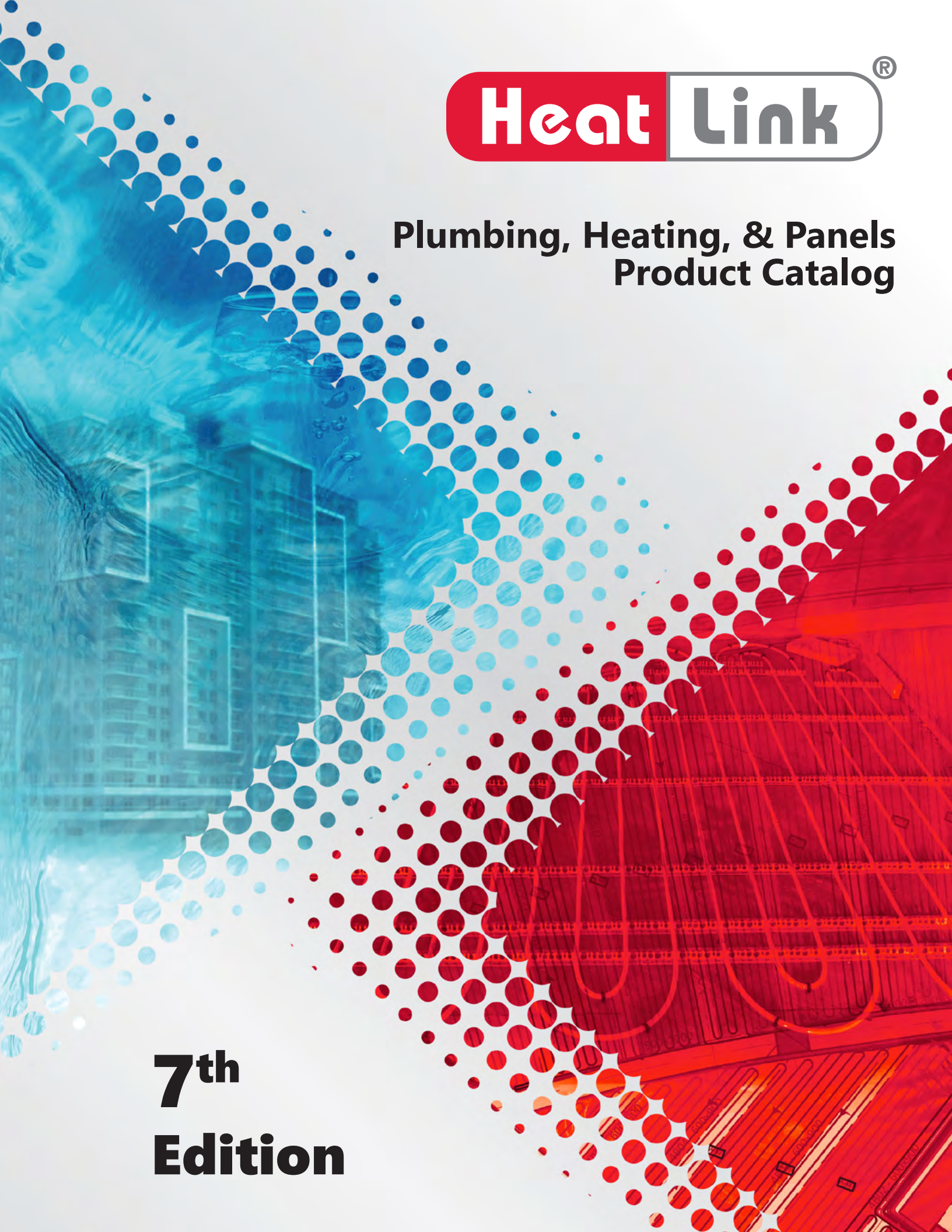
Heat Link®

Plumbing, Heating, & Panels Product Catalog



7th Edition

About Us

HeatLink Group Inc. is a multi-system supplier of potable water and radiant hydronic heating/cooling and snow melt systems. For over 25 years we have created comfortable and efficient heating, cooling and plumbing systems for residential and commercial construction.

HeatLink's radiant heating systems create a comfortable and energy efficient environment for living. Our snow melt systems create safer public and private spaces that reduce liability for property owners, reduce maintenance, and ensure accessibility. Our well engineered plumbing systems provide peace of mind for property owners through extensive warranty protection, and enable quick and efficient installations for builders and contractors.

History

HeatLink began as a family owned business developed to service a number of industries including HVAC. The company grew to meet the needs of builders, contractors, and architects and began designing and installing radiant heating systems in 1985. Since 1985 HeatLink has grown into an industry leading designer and manufacturer of radiant heating, cooling, and potable water systems.

HeatLink has developed and manufactured a long list of industry firsts such as the "TwistSeal" tool-less manifold in 1996. The company began manufacturing PEX-a tubing in 1998 and now supplies the highest quality PEX-a systems to customers throughout North America and parts of Europe and Asia.

HeatLink was acquired by Mueller Industries in 2017. Mueller is a publicly traded manufacturer headquartered in Collierville, Tennessee that began operating in 1917 and has operations across the USA, Canada, Mexico, Great Britain, South Korea, the Middle East, and China.

HeatLink works with a network of experienced and successful partner agencies to meet the design, system installation and training needs of the construction industry, designers, and architects.

Solutions

HeatLink is an industry leader in providing a broad range of potable water and radiant heating/cooling and snow melt systems for customers throughout the world. Our focus from our inception remains on creating well engineered and energy efficient solutions that are easy to install and last a lifetime.

Company Description

Our innovative plumbing and heating systems help provide a comfortable and worry free environment for people in residential and commercial work and living spaces. We continue to design quiet and energy efficient heating and potable water systems that are easy to install and last a lifetime. HeatLink was built on a strong family work ethic and a value system that remain the foundation for our continuing growth and industry leadership role.

Parent Company Description

Mueller Industries, Inc. is a leading industrial manufacturer that specializes in copper and copper alloy manufacturing while also producing goods made from aluminum, steel, and plastics. The range of these products is broad: copper tube and fittings; line sets; brass and copper alloy rod, bar, and shapes; aluminum and brass forgings; aluminum impact extrusions; PEX plastic tube; refrigeration valves and fittings; fabricated tubular products; and steel nipples. Mueller also resells brass and plastic plumbing valves, plastic fittings, malleable iron fittings, faucets and plumbing specialty products. Mueller products can be found as critical components in applications ranging from potable water distribution to automotive drive trains to household appliances to radar defense systems, and more, quietly doing their part to make life and business better.

Please check our website to ensure that you have the latest version of this catalog.

Heat Link®
www.heatlink.com

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Terms and Conditions of Sale, Delivery, and Payment

Product Catalog 7th Edition

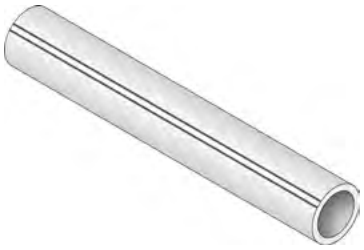
1. **General Provisions**
   (a) This agreement, performances of contract and quotations are made exclusively upon the terms and conditions set out below. Alterations or deviations from the provisions herein contained shall not be binding upon HeatLink Group Inc. unless confirmed in writing.
   (b) The Purchaser hereby accepts the terms and conditions herein contained in their entirety. Stipulations of terms and conditions contrary to the provision hereof according to the Purchaser's business or purchasing practices, invoicing, manner of payment or custom of the trade are hereby specifically agreed to be inapplicable to this agreement.
   (c) In the event that any one or more of the provisions herein contained shall become or be deemed to be invalid, illegal or unenforceable by operation of law, the validity, legality and enforceability of the remaining provisions or any part thereof shall not in any manner be affected or impaired thereby. In place and stead of any such invalid, illegal or unenforceable provisions of any part thereof, the parties hereto shall be deemed to have agreed upon terms and conditions, which, as far as permitted by law, express the intent and purpose of the within terms and conditions.
2. **Plans and Specifications**
   (a) Drawings, specifications and technical data appended to or forming part of the agreement shall at all times remain the property of HeatLink Group Inc., with all rights reserved and shall not be provided, submitted or disclosed to third parties without the express written consent of HeatLink Group Inc. Changes, alterations, deletions or additions thereto shall not be binding upon HeatLink Group Inc. unless confirmed in writing.
3. **Prices and Quotations**
   (a) HeatLink Group Inc. hereby specifically reserves the right to change, alter, amend or revoke quotations but the same shall become binding and irrevocable only upon written acceptance by both HeatLink Group Inc. and the Purchaser or upon delivery to and acceptance of goods by the Purchaser.
   (b) Prices are, save and except as otherwise agreed upon, as at HeatLink Group Inc.'s location in Calgary, Alberta, Canada, exclusive of cost of packaging, crating, freight or shipping, federal, provincial or local rates, tariffs and taxes in effect on date of delivery.
   (c) All contract prices are guaranteed for thirty (30) days from date of contract. Cost increases 30 days after contract date, including but not limited to cost increases of materials, wages, fuel, transportation or energy charges and increases in applicable federal, provincial and local rates, tariffs or taxes shall be added to the contract price and form part thereof as if originally agreed upon.
   (d) Contracts for delivery of goods or performance of services without specific agreement as to price shall be subject to the price or prices in effect on the date of delivery of goods.
4. **Terms of Payment**
   (a) Save and except as otherwise specifically agreed upon in writing, all invoices or accounts, as the case may be, shall become due and payable in full without deduction whatsoever thirty (30) days after invoice or account date.
   (b) Holdbacks or deductions of any kind whatsoever without prior written authorization from HeatLink Group Inc. are expressly prohibited.
   (c) Discounts, if any, shall be calculated on the cost of goods as per invoice, exclusive of cost of packaging, crating, freight or shipping, federal, provincial or local rates, tariffs or taxes, where applicable, or other costs or surcharges beyond control of HeatLink Group Inc.
   (d) Payment will be in a form agreed to and acceptable by HeatLink Group Inc. All costs for dishonour, presentment for payment or collection shall be at the expense of the Purchaser and Payor. All payments by cheque, whether certified or uncertified, shall be deemed as having been received on the date of acceptance for payment of the said cheque or cheques by the Purchaser's or Payor's bank, trust company or financial institution upon whose account the cheque has been issued.
   (e) Payments received shall be applied firstly to designated accounts, dishonour or collection; secondly, to outstanding interest charges on the oldest accounts; and, thirdly, the balance, if any, of any payment shall be applied to the most recent accounts, outstanding balance or balances. If an account is past due at the time of payment, then application of received funds will be in the order best interest to HeatLink Group Inc.
   (f) In the event the Purchaser defaults in payment or causes a cheque, bank draft or money order to be dishonoured or stops payment thereon, or HeatLink Group Inc. shall deem the Purchaser insecure, all accounts shall forthwith become due and payable notwithstanding any agreement as to credit or periodic payment.
   (g) Overdue accounts shall bear interest at the rate stated on the face of the invoice or (if no rate is displayed on the invoice), 2% calculated and compounded monthly.
5. **Reservation of Title and Property**
   (a) It is hereby expressly agreed that all goods shall remain the exclusive property of HeatLink Group Inc. and title shall not pass until payment in full of all invoices or accounts rendered, including cost of goods, packaging, carting, shipping or freight charges, federal, provincial or local taxes, rates and tariffs, insurance, extras to contract, interest charges, exchange or collection expenses and other sums or charges applicable has been received pursuant to the terms and conditions herein contained.
   (b) Goods delivered shall not, in any event, become part of real estate and the Purchaser shall at all times take or initiate all steps necessary to preserve HeatLink Group Inc.'s right, title and property to such goods.
   (c) The Purchaser shall not permit any goods sold or delivered by HeatLink Group Inc. to be pledged or encumbered without express written consent from HeatLink Group Inc. In the event of seizure by third parties, the Purchaser shall forthwith disclose HeatLink Group Inc.'s reservation of title, right and property to such goods and shall forthwith notify HeatLink Group Inc. of such seizure and shall assist HeatLink Group Inc. at the Purchaser's cost in the preservation and enforcement of HeatLink Group Inc.'s right, title and property to the said goods.
   (d) In the event of breach of contract by the Purchaser of the terms or conditions herein contained and, in particular, default of payment of invoices as hereinbefore provided, HeatLink Group Inc. shall be entitled, without prior notice, to demand delivery up of goods sold and delivered and to seize the same wherever the same may be located at any time of day or night or to cause its agents, workmen or bailiffs to seize the same, wherever the same may be located at any time of day or night notwithstanding the goods may be in possession of a subsequent purchaser or user.
   (e) Seizure of goods by HeatLink Group Inc. shall not be deemed to constitute termination of contract or contractual rights and obligations as between HeatLink Group Inc. and the Purchaser.
6. **Delivery of Goods**
   (a) HeatLink Group Inc. shall at all times use its best efforts to maintain the delivery dates agreed upon. The delivery date or period shall be deemed to have been maintained or complied with in all events, cases or situations where the goods to be delivered leave HeatLink Group Inc.'s premises on or before such date, before the expiry of such period or the Purchaser is notified before the applicable date that the goods are ready for shipment.
   (b) Delivery dates or periods shall be extended by reason of delays causes by labour shortages, strikes or lockouts or other circumstances beyond the reasonable control of HeatLink Group Inc. Any delay or postponement of delivery to HeatLink Group Inc. of goods and supplies by its suppliers, subcontractors or co-contractors caused by strike, lockout, labour shortage or unrest or other causes beyond the reasonable control of HeatLink Group Inc., its suppliers, subcontractors or co-contractors shall in like manner extend delivery dates and periods as if the same applied to HeatLink Group Inc.
   (c) In the event of delay in delivery of goods caused by the Purchaser for any reason whatsoever, HeatLink Group Inc. shall be entitled to charge the cost of storage calculated at the rate of one half (½%) percent per month upon the cost of goods, such calculation commencing one month after delivery of Notice of Readiness for shipment and continuing for each and every month or part thereof thereafter until the goods can be delivered to the Purchaser.
7. **Risk of Property**
   (a) Commencing on the date of delivery of goods for shipment or transport to the Purchaser, the said goods or any part thereof shall be at the risk of the Purchaser.
   (b) Any goods or part thereof delivered for shipment or transport to the Purchaser from the factory Calgary, Alberta, or elsewhere, including goods with unessential or minor defects, shall be deemed to have been accepted by the Purchaser without recourse.
   (c) Deficiencies or defects in goods or part thereof shipped or the shipment of the wrong goods, or part or part thereof, shall be endorsed upon the bill of lading and shall be communicated to HeatLink Group Inc. in writing within three (3) business days of arrival at destination. Failing such notification, the Purchaser shall be deemed to have accepted the goods without recourse.
8. **Return of Goods**
   (a) All or any goods returned without prior authorization by HeatLink Group Inc. shall not be accepted.
   (b) If returns are authorized by HeatLink Group Inc., goods will be accepted as follows:
      (i) New and unused goods upon authorization by HeatLink Group Inc., with freight to be prepaid plus 25% restocking charge.
      (ii) Outdated goods, with freight prepaid plus 25% restocking charge plus refurbishing costs.
   (c) In all cases, unless express written authorization is given, goods must be returned in condition for immediate resale. If goods and packaging are not in condition for immediate resale, HeatLink Group Inc. reserves the right to refuse to accept the returned goods, charge additionally for refurbishing goods or packaging, or any other agreed to return remedy negotiated with the customer. In all cases, HeatLink Group Inc. will have the final approval as to whether returned goods are accepted or unaccepted under any of the above remedies.
9. **Insurance**
   (a) During the period commencing with the delivery of goods for shipment or transport to the Purchaser and ending upon receipt of payment in full for the said goods pursuant to the terms and conditions hereof, the Purchaser shall insure the said goods in the joint names of HeatLink Group Inc. and the Purchaser against all risk of loss or damage howsoever caused.
10. **Applicable Law**
   (a) All disputes, claims or demands arising from or relating to warranties, guarantees, representations authorized and published by HeatLink Group Inc., and from the terms and conditions herein contained and all claims, demands, rights or liabilities arising from such warranties, guarantees, representations or terms and conditions shall be determined in accordance with the laws of the Province of Alberta, Canada.

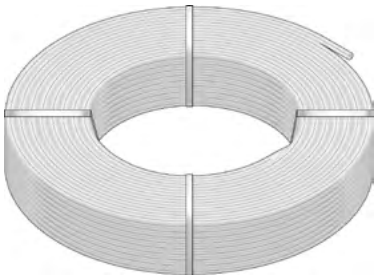
PureLink® Plus Blue Stripe PEX-a Tubing
20000 Series

High molecular crosslinked polyethylene (PEX) with minimum bending radius of 6× the diameter at 68˚F (20˚C). Maximum operating temperature 180˚F @ 100 psi (82˚C @ 7 bar). Blue printing for identification of cold water lines. The PureLink® Plus PEX-a tubing may be used with fittings that are compliant with ASTM F1807/F1960/F2080/F2098/F2159 standards.

For complete specifications, see submittal SUB20000.

Minimum bending radius @ 68˚F (20˚C) for: ½" = 3" (77 mm)
¾" = 4-½" (115 mm)
1" = 6" (153 mm)





Stk#	Description	Pkg Qty	Skid Qty	Unit
20105	½" 100ft Blue PureLink® Plus UV Stabilized PEX-a PexCube™	6	96	coil
20305	½" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	48	coil
20505	½" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	32	coil
20905	½" 1000ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	20	coil
20122	¾" 100ft Blue PureLink® Plus UV Stabilized PEX-a PexCube™	3	60	coil
20322	¾" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	21	coil
20522	¾" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	12	coil
20128	1" 100ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	28	coil
20328	1" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	11	coil

Stk#	Description	Pkg Qty	Master Bag	Unit
20205	½" 20×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
20222	¾" 10×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
20228	1" 5×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle

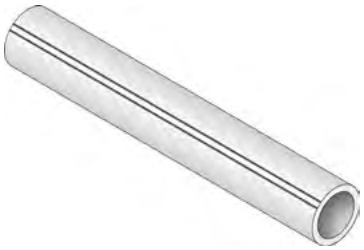
For sizes 1-¼" and larger, please see page 9.

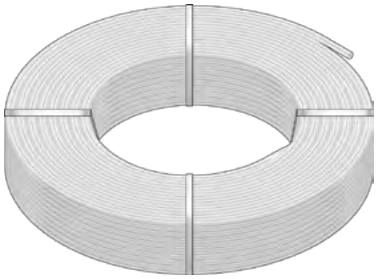
PureLink® Plus Red Stripe PEX-a Tubing
21000 Series

High molecular crosslinked polyethylene (PEX) with minimum bending radius of 6× the diameter at 68˚F (20˚C). Maximum operating temperature 180˚F @ 100 psi (82˚C @ 7 bar). Red printing for identification of hot water lines. The PureLink® Plus PEX-a tubing may also be used with fittings that are compliant with ASTM F1807/F1960/F2080/F2098/F2159 standards.

For complete specifications, see submittal SUB21000.

Minimum bending radius @ 68˚F (20˚C) for: ½" = 3" (77 mm)
¾" = 4-½" (115 mm)
1" = 6" (153 mm)





Stk#	Description	Pkg Qty	Skid Qty	Unit
21105	½" 100ft Red PureLink® Plus UV Stabilized PEX-a PexCube	6	96	coil
21305	½" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	48	coil
21505	½" 500ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	32	coil
21122	¾" 100ft Red PureLink® Plus UV Stabilized PEX-a PexCube	3	60	coil
21322	¾" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	21	coil
21128	1" 100ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	28	coil
21328	1" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	11	coil

Stk#	Description	Pkg Qty	Master Bag	Unit
21205	½" 20×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
21222	¾" 10×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
21228	1" 5×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle

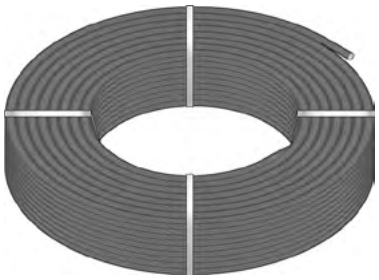
For sizes 1-¼" and larger, please see page 9.

PureLink® Plus Blue Wall PEX-a Tubing
20000BW Series

High molecular crosslinked polyethylene (PEX) with minimum bending radius of 6× the diameter at 68˚F (20˚C). Maximum operating temperature 180˚F @ 100 psi (82˚C @ 7 bar). Solid blue color for identification of cold water lines. The PureLink® Plus PEX-a tubing may also be used with fittings that are compliant with ASTM F1807/F1960/F2080/F2098/F2159 standards.

For complete specifications, see submittal SUB20000BW.

Minimum bending radius @ 68˚F (20˚C) for: ½" = 3" (77 mm)
¾" = 4-½" (115 mm)
1" = 6" (153 mm)



	Stk#	Description	Pkg Qty	Skid Qty	Unit
New!	20105BW	½" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a PexCube™	6	96	coil
New!	20305BW	½" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	48	coil
New!	20122BW	¾" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a PexCube™	3	60	coil
New!	20322BW	¾" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	21	coil
New!	20128BW	1" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	28	coil
New!	20328BW	1" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	11	coil

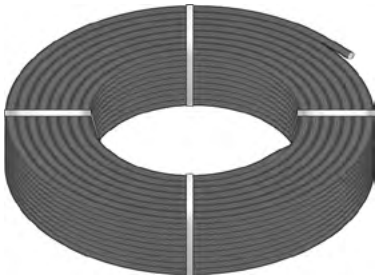
	Stk#	Description	Pkg Qty	Master Bag	Unit
New!	20205BW	½" 20×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
New!	20222BW	¾" 10×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
New!	20228BW	1" 5×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle

PureLink® Plus Red Wall PEX-a Tubing
21000RW Series

High molecular crosslinked polyethylene (PEX) with minimum bending radius of 6× the diameter at 68˚F (20˚C). Maximum operating temperature 180˚F @ 100 psi (82˚C @ 7 bar). Solid red color for identification of hot water lines. The PureLink® Plus PEX-a tubing may also be used with fittings that are compliant with ASTM F1807/F1960/F2080/F2098/F2159 standards.

For complete specifications, see submittal SUB21000RW.

Minimum bending radius @ 68˚F (20˚C) for: ½" = 3" (77 mm)
¾" = 4-½" (115 mm)
1" = 6" (153 mm)



	Stk#	Description	Pkg Qty	Skid Qty	Unit
New!	21105RW	½" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a PexCube™	6	96	coil
New!	21305RW	½" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	48	coil
New!	21122RW	¾" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a PexCube™	3	60	coil
New!	21322RW	¾" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	21	coil
New!	21128RW	1" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	28	coil
New!	21328RW	1" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	11	coil

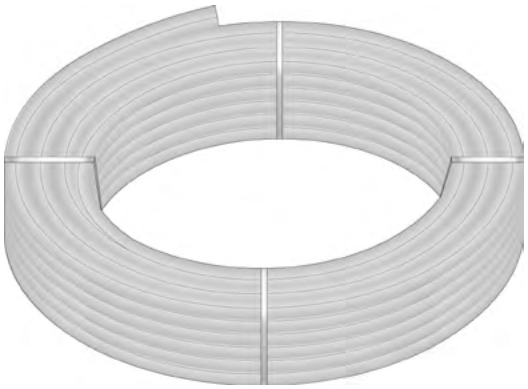
	Stk#	Description	Pkg Qty	Master Bag	Unit
New!	21205RW	½" 20×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
New!	21222RW	¾" 10×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle
New!	21228RW	1" 5×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	1	20	bundle

PureLink® Plus Large Dimension PEX-a Tubing
20000 Series

High molecular crosslinked polyethylene (PEX) with minimum bending radius of 6× the diameter at 68˚F (20˚C). Maximum operating temperature 180˚F @ 100 psi (82˚C @ 7 bar). Black printing so tubing can be used for cold or hot water lines. The PureLink® Plus PEX-a tubing may also be used with fittings that are compliant with ASTM F1807/F1960/F2080/F2098 standards.

For complete specifications, see submittal SUB20000.

Minimum bending radius @ 68˚F (20˚C) for: 1-¼" = 7-½" (191 mm)
1-½" = 9" (229 mm)
2" = 12" (305 mm)

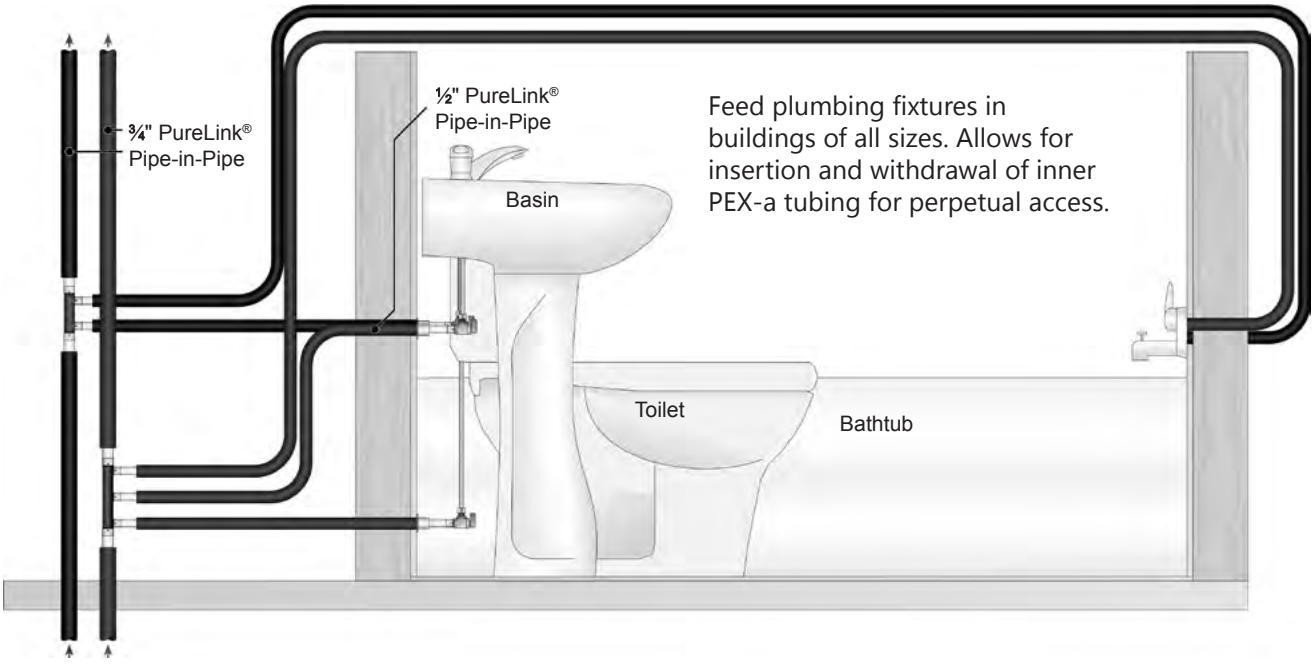


Stk#	Description	Pkg Qty	Skid Qty	Unit
20135	1-¼" 100ft PureLink® Plus UV Stabilized PEX-a Tubing	1	10	coil
20335	1-¼" 300ft PureLink® Plus UV Stabilized PEX-a Tubing	1	7	coil
20145	1-½" 100ft PureLink® Plus UV Stabilized PEX-a Tubing	1	8	coil
20345	1-½" 300ft PureLink® Plus UV Stabilized PEX-a Tubing	1	5	coil
20154	2" 100ft PureLink® Plus UV Stabilized PEX-a Tubing	1	5	coil
20354	2" 300ft PureLink® Plus UV Stabilized PEX-a Tubing	1	3	coil

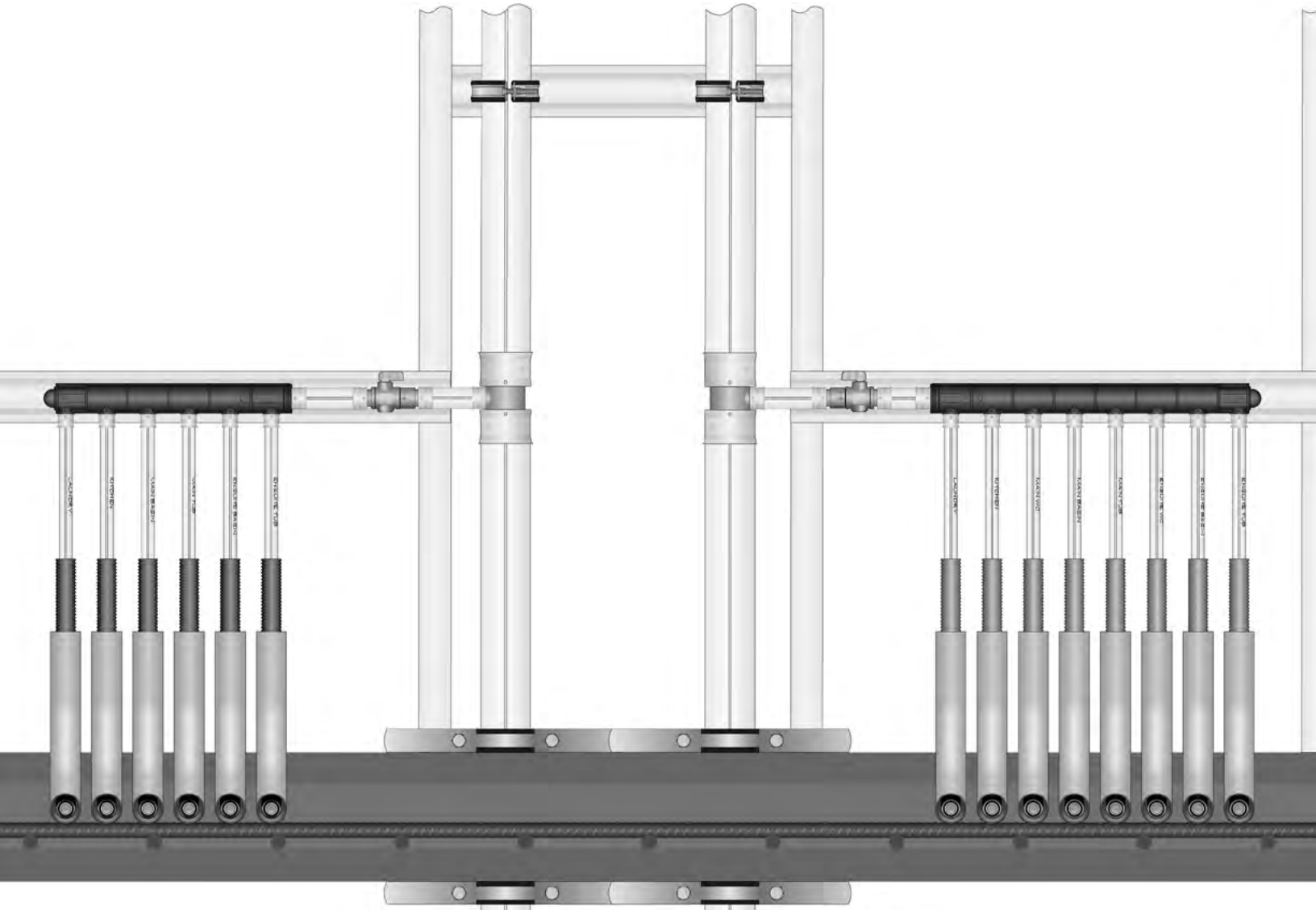
Stk#	Description	Pkg Qty	Master Bag	Unit
20235	1-¼" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing	1	15	bundle
20245	1-½" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing	1	10	bundle
20254	2" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing	1	5	bundle

PureLink® Pipe-in-Pipe

Never again deal with the hassle of trying to pull tubing through conduits. Our pliable PEX-a tubing is available in a high impact resistant sheath.



Feed plumbing fixtures in buildings of all sizes. Allows for insertion and withdrawal of inner PEX-a tubing for perpetual access.



PureLink® Plus Pipe-in-Pipe
92000 Sheathed Series

PEX-a carrier tubing specified on previous pages. The flexible, impact resistant PP sheath designed as a raceway for electrical installations provides mechanical and UV protection to the PEX-a carrier tubing. The sheath allows for easy replacement of the PEX-a carrier tubing if needed. Red and Blue colored sheaths make for easy identification of hot and cold water lines.

For complete specifications, see submittal SUB92000.

Minimum bending radius @ 68˚F (20˚C) for:
½" = 3" (77 mm)
¾" = 4-½" (115 mm)
1" = 6" (153 mm)

PP sheath is rated to UL94HB "Tests for Flammability of Plastic Materials."

Corrugated sheath outside diameter for:
½" = 0.93" (23.6 mm)
¾" = 1.33" (33.8 mm)
1" = 1.5" (38.1 mm)

Stk#	Description	Pkg Qty	Skid Qty	Unit
92305bs	½" 300ft Blue PureLink® Plus Pipe-in-Pipe	1	18	coil
92322bs	¾" 300ft Blue PureLink® Plus Pipe-in-Pipe	1	9	coil
92128bs	1" 100ft Blue PureLink® Plus Pipe-in-Pipe	1	14	coil

Stk#	Description	Pkg Qty	Skid Qty	Unit
92305rs	½" 300ft Red PureLink® Plus Pipe-in-Pipe	1	18	coil
92322rs	¾" 300ft Red PureLink® Plus Pipe-in-Pipe	1	9	coil
92128rs	1" 100ft Red PureLink® Plus Pipe-in-Pipe	1	14	coil

Corrugated Sleeves
92000cs Series

The flexible, impact resistant PP sheath designed as a raceway for electrical installations provides mechanical and UV protection to the PEX-a carrier tubing. The sheath allows for easy replacement of the PEX-a carrier tubing if needed.

For complete specifications, see submittal SUB92000cs.

PP sheath is rated to UL94HB "Tests for Flammability of Plastic Materials."

Corrugated sheath outside diameter for:
½" = 0.93" (23.6 mm)
¾" = 1.33" (33.8 mm)

Stk#	Description	Pkg Qty	Carton Qty	Unit
92305bcs	15⁄16" 300ft Blue Corrugated Sleeve for ½" PEX	1		ea.
92322bcs	1-3⁄8" 300ft Blue Corrugated Sleeve for ¾" PEX	1		ea.

Making a Lasting Impression

Press Sleeve

HeatLink Potable Water Systems now offers a start-to-finish system capped off with the unique PEX tubing watertight connection ... the stainless steel Press Sleeve.

The Press Sleeve slides over the outer part of the PEX-a tubing, before inserting the fitting. When the fitting is in place, the press tool secures the connection in one single press, evidenced by a smooth visible depression ring on the sleeve's surface.

Once the pressing is complete, everything is set for the pressure test. The room for error is reduced, as the visible impression on the sleeve indicates readiness for the pressure test.

HeatLink's Press Sleeve—an impressive connection to have in any pressing situation.

The SS Press Sleeve is tested to ASTM F877 and is NSF-pw listed.

non-pressed

pressed
(press profile may vary with tool)

Stainless Steel Press Sleeves
24200 Series

Press sleeve with view hole.

For complete specifications, see submittal SUB24200.

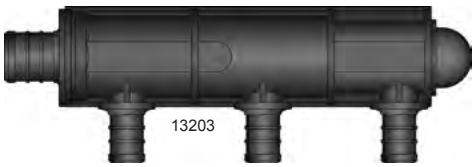
Stk#	Description	Pkg Qty	Carton Qty	Unit
24205	½" SS Press Sleeve	100	1000	ea.
24222	¾" SS Press Sleeve	50	500	ea.
24228	1" SS Press Sleeve	50	250	ea.
24235	1-¼" SS Press Sleeve	10	150	ea.
24241	1-½" SS Press Sleeve	10	100	ea.
24250	2" SS Press Sleeve	10	100	ea.

Closed End HPP Mini Multiport Tee
13000M Series

Closed one end and ¾" PEX insert on the other end. ½" branches in single row. SS press sleeves sold separately.

For complete specifications, see submittal SUB13000M.

Stk#	Description	Pkg Qty	Carton Qty	Unit
13202M	2 Port, ¾" PEX × Closed End HPP Mini Multiport Tee	5	100	ea.
13203M	3 Port, ¾" PEX × Closed End HPP Mini Multiport Tee	5	80	ea.
13204M	4 Port, ¾" PEX × Closed End HPP Mini Multiport Tee	5	60	ea.



Closed End HPP Multiport Tee
13000 Series

Closed one end and ¾" or 1" PEX insert on the other end. ½" branches in single row or opposing rows. SS press sleeves sold separately.

For complete specifications, see submittal SUB13000.

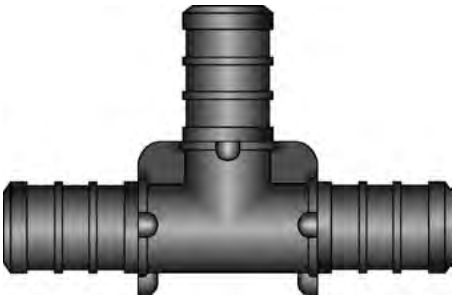
Stk#	Description	Pkg Qty	Carton Qty	Unit
13204	4 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee	5	250	ea.
13206	6 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee	5	150	ea.
13208	8 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee	5	125	ea.

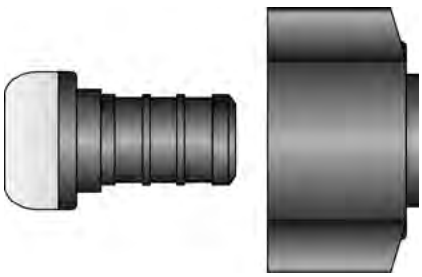
Flow Through HPP Mini Multiport Tee
14000M Series

Open on both ends with ¾" PEX insert connections. ½" branches in single row. SS press sleeves sold separately.

For complete specifications, see submittal SUB14000M.

Stk#	Description	Pkg Qty	Carton Qty	Unit
14202M	2 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee	5	100	ea.
14203M	3 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee	5	80	ea.
14204M	4 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee	5	60	ea.





Heat Link®

HPP Fitting System

The HeatLink High Performance Polymer (HPP) fitting system is produced from a specific blend of engineered high performance polyphenylsulfone (PPSU) resins. When combined, these resins offer outstanding long-term performance and chemical resistance. The sulfone family of resins began to replace brass in the plumbing industry over 20 years ago, and in the course of time have exceeded the stringent demands of the potable and heating industries.

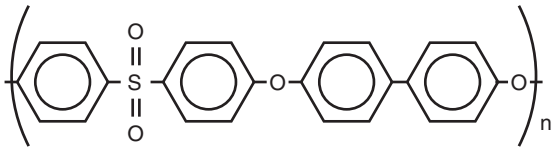
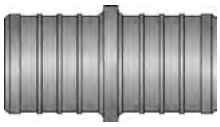


Figure #1 – General Chemical Structure of PPSU

The HeatLink HPP fittings standout in the market place due to a unique combination of characteristics designed to deliver superior performance.

- Outstanding resistance to hot chlorinated water
- Superior long-term hydrostatic strength
- Excellent thermal stability
- High resistance to mineral acids, alkali, and salt solutions
- Higher resistance to polar solvents and stress cracking than traditional polysulfone
- Robust toughness and impact strength
- Exceptional hydrolytic stability
- Improved notch resistance



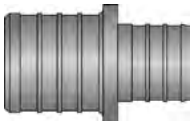
PEX Insert Couplings - *No Lead Brass*
29000NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × PEX insert couplings. SS press sleeves sold separately.

For complete specifications, see submittal SUB29000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
29005NL	½" × ½" PEX No Lead Brass Coupling	25	500	ea.
29022NL	¾" × ¾" PEX No Lead Brass Coupling	25	250	ea.
29028NL	1" × 1" PEX No Lead Brass Coupling	10	250	ea.
29035NL	1-¼" × 1-¼" PEX No Lead Brass Coupling	5	180	ea.
29041NL	1-½" × 1-½" PEX No Lead Brass Coupling	5	90	ea.
29054NL	2" × 2" PEX No Lead Brass Coupling	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*



PEX Insert Reducing Couplings - *No Lead Brass*
29200NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × PEX insert reducing couplings. SS press sleeves sold separately.

For complete specifications, see submittal SUB29000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
29225NL	¾" × ½" PEX No Lead Brass Coupling	25	500	ea.
29282NL	1" × ¾" PEX No Lead Brass Coupling	10	250	ea.
29238NL	1-¼" × 1" PEX No Lead Brass Coupling	5	200	ea.
29243NL	1-½" × 1-¼" PEX No Lead Brass Coupling	5	100	ea.
29248NL	1-½" × 1" PEX No Lead Brass Coupling	5	100	ea.
29263NL	2" × 1-¼" PEX No Lead Brass Coupling	5	25	ea.
29264NL	2" × 1-½" PEX No Lead Brass Coupling	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert Couplings - *HPP*
19000 Series

High Performance Polymer PEX insert couplings. SS press sleeves sold separately.

For complete specifications, see submittal SUB19000.

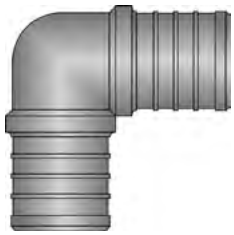
Stk#	Description	Pkg Qty	Carton Qty	Unit
19005	½" × ½" PEX HPP Coupling	25	1000	ea.
19022	¾" × ¾" PEX HPP Coupling	25	500	ea.
19028	1" × 1" PEX HPP Coupling	10	200	ea.

PEX Insert Reducing Couplings - *HPP*
19200 Series

High Performance Polymer PEX insert reducing couplings. SS press sleeves sold separately.

For complete specifications, see submittal SUB19000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
19225	¾" × ½" PEX HPP Coupling	25	600	ea.
19282	1" × ¾" PEX HPP Coupling	5	300	ea.



PEX Insert Elbows - *No Lead Brass*
28000NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × PEX insert elbows. SS press sleeves sold separately.

For complete specifications, see submittal SUB28000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
28005NL	½" × ½" PEX No Lead Brass Elbow	25	250	ea.
28022NL	¾" × ¾" PEX No Lead Brass Elbow	25	250	ea.
28028NL	1" × 1" PEX No Lead Brass Elbow	10	100	ea.
28035NL	1-¼" × 1-¼" PEX No Lead Brass Elbow	5	120	ea.
28041NL	1-½" × 1-½" PEX No Lead Brass Elbow	5	50	ea.
28054NL	2" × 2" PEX No Lead Brass Elbow	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert Elbows - *HPP*
18000 Series

High Performance Polymer PEX insert elbows. SS press sleeves sold separately.

For complete specifications, see submittal SUB18000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
18005	½" × ½" PEX HPP Elbow	25	600	ea.
18022	¾" × ¾" PEX HPP Elbow	25	300	ea.
18225	¾" × ½" PEX HPP Elbow	10	400	ea.
18028	1" × 1" PEX HPP Elbow	10	150	ea.

PEX Insert × MNPT Elbows - *No Lead Brass*
28500NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert elbows. SS press sleeves sold separately.

For complete specifications, see submittal SUB28500NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
28535NL	1-¼" PEX × 1-¼" MNPT No Lead Brass Elbow	5	50	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert × MNPT Adapters - *No Lead Brass*
27500NL Series

Solid brass no lead (C69300-EcoBrass) PEX insert × MNPT adapters. SS press sleeves sold separately.

For complete specifications, see submittal SUB27500NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
27505NL	½" PEX × ½" MNPT No Lead Brass Adapter	25	250	ea.
27552NL	½" PEX × ¾" MNPT No Lead Brass Adapter	10	250	ea.
27522NL	¾" PEX × ¾" MNPT No Lead Brass Adapter	25	250	ea.
27525NL	¾" PEX × ½" MNPT No Lead Brass Adapter	25	250	ea.
27528NL	1" PEX × 1" MNPT No Lead Brass Adapter	10	150	ea.
27582NL	1" PEX × ¾" MNPT No Lead Brass Adapter	5	200	ea.
27535NL	1-¼" PEX × 1-¼" MNPT No Lead Brass Adapter	5	100	ea.
27538NL	1-¼" PEX × 1" MNPT No Lead Brass Adapter	5	100	ea.
27541NL	1-½" PEX × 1-½" MNPT No Lead Brass Adapter	5	50	ea.
27554NL	2" PEX × 2" MNPT No Lead Brass Adapter	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert × MNPT Adapters - *HPP*
17500 Series

High Performance Polymer PEX insert × MNPT adapters. SS press sleeves sold separately.

For complete specifications, see submittal SUB17500.

Stk#	Description	Pkg Qty	Carton Qty	Unit
17505	½" PEX × ½" MNPT HPP Adapter	25	500	ea.
17552	½" PEX × ¾" MNPT HPP Adapter	25	350	ea.
17522	¾" PEX × ¾" MNPT HPP Adapter	25	300	ea.

Drop Ear Elbows - *No Lead Brass*
28300NL Series

Solid no lead brass (C69300-EcoBrass) ½" PEX insert × ½" FNPT drop ear elbow. SS press sleeves sold separately.

For complete specifications, see submittal SUB28300NL.

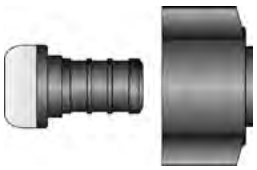
Stk#	Description	Pkg Qty	Carton Qty	Unit
28305NL	½" PEX × ½" FNPT Drop Ear No Lead Brass Elbow	10	160	ea.

PEX Insert × FNPT Adapters - *No Lead Brass*
27600NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × FNPT adapters. SS press sleeves sold separately.

For complete specifications, see submittal SUB27600NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
27605NL	½" PEX × ½" FNPT No Lead Brass Adapter	25	400	ea.
27622NL	¾" PEX × ¾" FNPT No Lead Brass Adapter	25	300	ea.
27628NL	1" PEX × 1" FNPT No Lead Brass Adapter	25	150	ea.
27635NL	1-¼" PEX × 1-¼" FNPT No Lead Brass Adapter	5	80	ea.



PEX Insert × FNPT Swivel Adapters - *HPP*
17700 Series

High Performance Polymer PEX insert × FNPT swivel adapters. SS press sleeves sold separately.

For complete specifications, see submittal SUB17700.

Stk#	Description	Pkg Qty	Carton Qty	Unit
17755	½" PEX × ½" FNPT Swivel HPP Adapter	25	500	ea.

½" PEX × ⅜" O.D. Comp. Straight Lav. Tube Adapter - *NL Brass*
Stk# 25751NL

Solid no lead brass (C69300-EcoBrass) adapter for connecting faucets. SS press sleeves sold separately.

For complete specifications, see submittal SUB25751NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
25751NL	½" PEX × ⅜" O.D. No Lead Brass Adapter	5	100	ea.

PEX Insert × Male Sweat Adapters - *No Lead Brass*
27100NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × male sweat adapters. SS press sleeves sold separately.

Not intended for use with copper press fittings.

For complete specifications, see submittal SUB27000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
27105NL	½" PEX × ½" M/Sweat No Lead Brass Adapter	25	700	ea.
27122NL	¾" PEX × ¾" M/Sweat No Lead Brass Adapter	25	400	ea.
27128NL	1" PEX × 1" M/Sweat No Lead Brass Adapter	10	200	ea.
27135NL	1-¼" PEX × 1-¼" M/Sweat No Lead Brass Adapter	5	120	ea.
27141NL	1-½" PEX × 1-½" M/Sweat No Lead Brass Adapter	5	80	ea.
27154NL	2" PEX × 2" M/Sweat No Lead Brass Adapter	5	25	ea.

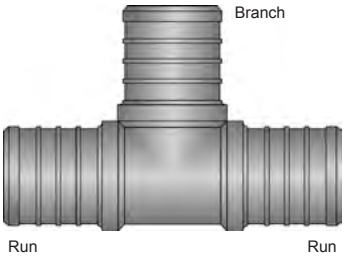
Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert × Female Sweat Adapters - *No Lead Brass*
27200NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert × female sweat adapters. SS press sleeves sold separately.

For complete specifications, see submittal SUB27000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
27205NL	½" PEX × ½" F/Sweat No Lead Brass Adapter	25	700	ea.
27222NL	¾" PEX × ¾" F/Sweat No Lead Brass Adapter	25	400	ea.
27228NL	1" PEX × 1" F/Sweat No Lead Brass Adapter	10	200	ea.
27235NL	1-¼" PEX × 1-¼" F/Sweat No Lead Brass Adapter	5	120	ea.



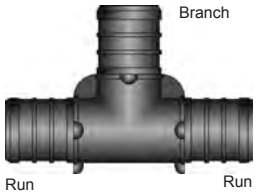
PEX Insert Tees - *No Lead Brass*
26000NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert tees. SS press sleeves sold separately.

For complete specifications, see submittal SUB26000NL.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
26555NL	½" × ½" × ½" PEX No Lead Brass Tee	25	250	ea.
26222NL	¾" × ¾" × ¾" PEX No Lead Brass Tee	25	250	ea.
26888NL	1" × 1" × 1" PEX No Lead Brass Tee	10	100	ea.
26333NL	1-¼" × 1-¼" × 1-¼" PEX No Lead Brass Tee	5	80	ea.
26444NL	1-½" × 1-½" × 1-½" PEX No Lead Brass Tee	5	30	ea.
26666NL	2" × 2" × 2" PEX No Lead Brass Tee	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

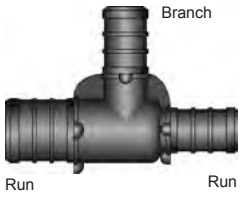


PEX Insert Tees - *HPP*
16000 Series

High Performance Polymer PEX insert tees. SS press sleeves sold separately.

For complete specifications, see submittal SUB16000.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
16555	½" × ½" × ½" PEX HPP Tee	25	400	ea.
16222	¾" × ¾" × ¾" PEX HPP Tee	25	200	ea.
16888	1" × 1" × 1" PEX HPP Tee	10	100	ea.

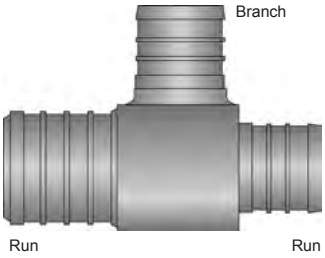


PEX Insert Reducing Tees - *HPP*
16000 Series

High Performance Polymer PEX insert reducing tees. SS press sleeves sold separately.

For complete specifications, see submittal SUB16000.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
16552	½" × ½" × ¾" PEX HPP Tee	25	300	ea.
16225	¾" × ¾" × ½" PEX HPP Tee	25	250	ea.
16228	¾" × ¾" × 1" PEX HPP Tee	5	300	ea.
16255	¾" × ½" × ½" PEX HPP Tee	25	300	ea.
16252	¾" × ½" × ¾" PEX HPP Tee	25	250	ea.
16885	1" × 1" × ½" PEX HPP Tee	10	360	ea.
16882	1" × 1" × ¾" PEX HPP Tee	5	100	ea.
16822	1" × ¾" × ¾" PEX HPP Tee	5	320	ea.
16828	1" × ¾" × 1" PEX HPP Tee	5	300	ea.



PEX Insert Reducing Tees - *No Lead Brass*
26000NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert tees. SS press sleeves sold separately.

For complete specifications, see submittal SUB26000NL.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
26225NL	¾" × ¾" × ½" PEX No Lead Brass Tee	25	250	ea.
26252NL	¾" × ½" × ¾" PEX No Lead Brass Tee	25	250	ea.
26255NL	¾" × ½" × ½" PEX No Lead Brass Tee	25	250	ea.
26822NL	1" × ¾" × ¾" PEX No Lead Brass Tee	5	100	ea.
26885NL	1" × 1" × ½" PEX No Lead Brass Tee	10	100	ea.
26882NL	1" × 1" × ¾" PEX No Lead Brass Tee	5	100	ea.
26382NL	1-¼" × 1" × ¾" PEX No Lead Brass Tee	5	100	ea.
26388NL	1-¼" × 1" × 1" PEX No Lead Brass Tee	5	100	ea.
26335NL	1-¼" × 1-¼" × ½" PEX No Lead Brass Tee	5	100	ea.
26332NL	1-¼" × 1-¼" × ¾" PEX No Lead Brass Tee	5	80	ea.
26338NL	1-¼" × 1-¼" × 1" PEX No Lead Brass Tee	5	80	ea.
26422NL	1-½" × ¾" × ¾" PEX No Lead Brass Tee	5	60	ea.
26432NL	1-½" × 1-¼" × ¾" PEX No Lead Brass Tee	5	50	ea.
26442NL	1-½" × 1-½" × ¾" PEX No Lead Brass Tee	5	50	ea.
26488NL	1-½" × 1" × 1" PEX No Lead Brass Tee	5	50	ea.
26448NL	1-½" × 1-½" × 1" PEX No Lead Brass Tee	5	40	ea.
26443NL	1-½" × 1-½" × 1-¼" PEX No Lead Brass Tee	5	40	ea.
26633NL	2" × 1-¼" × 1-¼" PEX No Lead Brass Tee	5	25	ea.
26642NL	2" × 1-½" × ¾" PEX No Lead Brass Tee	5	25	ea.
26648NL	2" × 1-½" × 1" PEX No Lead Brass Tee	5	25	ea.
26643NL	2" × 1-½" × 1-¼" PEX No Lead Brass Tee	5	25	ea.
26644NL	2" × 1-½" × 1-½" PEX No Lead Brass Tee	5	25	ea.
26662NL	2" × 2" × ¾" PEX No Lead Brass Tee	5	25	ea.
26668NL	2" × 2" × 1" PEX No Lead Brass Tee	5	25	ea.
26663NL	2" × 2" × 1-¼" PEX No Lead Brass Tee	5	25	ea.
26664NL	2" × 2" × 1-½" PEX No Lead Brass Tee	5	25	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert Plugs - *No Lead Brass*
25000NL Series

Solid no lead brass (C69300-EcoBrass) PEX insert plug. SS press sleeves sold separately.

For complete specifications, see submittal SUB25000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
25005NL	½" PEX No Lead Brass Plug	25	1200	ea.
25022NL	¾" PEX No Lead Brass Plug	25	1000	ea.
25028NL	1" PEX No Lead Brass Plug	5	510	ea.
25035NL	1-¼" PEX No Lead Brass Plug	5	260	ea.
25041NL	1-½" PEX No Lead Brass Plug	5	110	ea.
25054NL	2" PEX No Lead Brass Plug	5	25	ea.

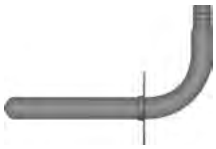
Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX Insert Plugs - *HPP*
15000 Series

High Performance Polymer PEX insert plugs. SS press sleeves sold separately.

For complete specifications, see submittal SUB15000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
15005	½" PEX HPP Plug	25	2000	ea.
15022	¾" PEX HPP Plug	25	1000	ea.
15028	1" PEX HPP Plug	5	500	ea.



Stub-out Elbow with Edge Bracket
Stk# 28205

Copper stub-out elbow allows for 90˚ transitions between fixtures and wall cavities. SS press sleeves sold separately.

For complete specifications, see submittal SUB28205.

Stk#	Description	Pkg Qty	Carton Qty	Unit
28205	½" PEX Barb Stubout Elbow with Edge Bracket	25	100	ea.

Stub-out Elbow
Stk# 28206

Copper stub-out elbow allows for 90˚ transitions between fixtures and wall cavities. SS press sleeves sold separately.

For complete specifications, see submittal SUB28206.

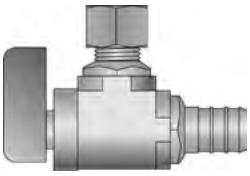
Stk#	Description	Pkg Qty	Carton Qty	Unit
28206	½" PEX × Closed, 3-½" × 6" Stub-out Elbow	50		ea.

Plated Straight Ball Valve - *No Lead Brass*
Stk #23505NL

No lead brass (C69300-EcoBrass) ½" PEX × ⅜" O.D. compression, nickel plated straight ball valve. SS press sleeves sold separately.

For complete specifications, see submittal SUB23505NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
23505NL	½" PEX × ⅜" O.D. No Lead Brass Plated Straight Ball Valve	24	144	ea.



Plated Angle Ball Valve - *No Lead Brass*
Stk# 23605NL

No lead brass (C69300-EcoBrass) ½" PEX × ⅜" O.D. compression, nickel plated angle ball valve. SS press sleeves sold separately.

For complete specifications, see submittal SUB23605NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
23605NL	½" PEX × ⅜" O.D. No Lead Brass Plated Angle Ball Valve	24	144	ea.

Straight Ball Valve - *No Lead Brass*
Stk# 23905NL

No lead brass (C69300-EcoBrass) ½" PEX × ¼" O.D. compression, straight ball valve. SS press sleeves sold separately.

For complete specifications, see submittal SUB23905NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
23905NL	½" PEX × ¼" O.D. No Lead Straight Ball Valve	24	144	ea.

PEX Insert Straight Ball Valves - *No Lead Brass*
23700NL Series

No lead brass (C69300-EcoBrass) valve. SS press sleeves sold separately.

For complete specifications, see submittal SUB23700NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
23705NL	½" PEX Straight No Lead Brass Ball Valve	24	144	ea.
23722NL	¾" PEX Straight No Lead Brass Ball Valve	24	144	ea.

PEX Insert Ball Valves - *No Lead Brass*
23300NL Series

No lead brass PEX F1807 × PEX F1807 full port straight ball valves with lever handle. SS press sleeves sold separately.

For complete specifications, see submittal SUB23300NL.

Coming Spring of 2022!

	Stk#	Description	Pkg Qty	Carton Qty	Unit
New!	23305NL	1/2" PEX F1807 No Lead Brass Ball Valve, Full Port	10	120	ea.
New!	23322NL	3/4" PEX F1807 No Lead Brass Ball Valve, Full Port	10	80	ea.
New!	23328NL	1" PEX F1807 No Lead Brass Ball Valve, Full Port	6	48	ea.
New!	23335NL	1-1/4" PEX F1807 No Lead Brass Ball Valve, Full Port	4	24	ea.
New!	23341NL	1-1/2" PEX F1807 No Lead Brass Ball Valve, Full Port	2	16	ea.
New!	23354NL	2" PEX F1807 No Lead Brass Ball Valve, Full Port	2	12	ea.

PEX Insert × MNPT Ball Valves - *No Lead Brass*
23800NL Series

No lead brass PEX F1807 × MNPT straight ball valves with butterfly handle. SS press sleeves sold separately.

For complete specifications, see submittal SUB23800NL.

Coming Spring of 2022!

	Stk#	Description	Pkg Qty	Carton Qty	Unit
New!	23822NL	3/4" PEX F1807 × 3/4" MNPT No Lead Brass Ball Valve	10	80	ea.

Look What's New!

HeatLink®

F1960 PEX-a Potable Water Expansion System

Fittings and Multiport Tees

High Performance Plastic (HPP) and No Lead (Eco)Brass fittings available in ½" to 2" for all of your plumbing needs.

PEX-a Expansion Rings

Uses the strong shape memory of PEX-a to form a tight seal. The PEX-a tubing and expansion ring are expanded with a specialized tool, and allowed to contract in order to form the connection. As the PEX-a contracts the connection will strengthen.

PureLink® Plus PEX-a Tubing

Cross-linked polyethylene tubing; crosslinking occurs during the extrusion process resulting in more uniform and higher degree in cross linking, as well as significantly improved material properties, such as flexibility, chemical resistance, and durability.

HeatLink F1960 Expansion System Advantages:

- Clean & non-toxic
- Resists scaling & corrosion
- Quiet – no water hammer noise
- Equalized pressure drops, minimize hot or cold surges
- Durable
- Reliable installation
- Low friction losses
- Meets all applicable North American approvals including:
  - » Domestic hot water continuous recirculation
  - » CAN/ULC S102/2010 and ASTM E84 plenum acceptance
- Flexible tubing means fewer fittings
- Discreet red/blue identification on PEX tubing
- Freeze resistant
- UV stabilized & chlorine resistance
- Connections can be checked visually
- Can't be dry fit

PEX-a Expansion Rings with Stop
EX24200 Series

PEX-a expansion rings with 360 degree stop collar for use with PEX F1960 fittings.

For complete specifications, see submittal SUBEX24200.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX24205	½" PEX F1960 Expansion Ring	100	1000	ea.
EX24222	¾" PEX F1960 Expansion Ring	50	500	ea.
EX24228	1" PEX F1960 Expansion Ring	50	250	ea.
EX24235	1-¼" PEX F1960 Expansion Ring	10	150	ea.
EX24241	1-½" PEX F1960 Expansion Ring	10	100	ea.
EX24250	2" PEX F1960 Expansion Ring	5	50	ea.

PEX F1960 Plugs - *HPP*
EX15000 Series

High Performance Polymer PEX F1960 plugs. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX15000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX15005	½" PEX F1960 HPP Plug	25	1000	ea.
EX15022	¾" PEX F1960 HPP Plug	25	500	ea.
EX15028	1" PEX F1960 HPP Plug	5	600	ea.
EX15035	1-¼" PEX F1960 HPP Plug	1	50	ea.
EX15041	1-½" PEX F1960 HPP Plug	1	50	ea.
EX15054	2" PEX F1960 HPP Plug	1	50	ea.


EX13203

PEX F1960 Closed End HPP Multiport Tees
EX13000 Series

Closed one end and ¾" or 1" PEX F1960 on the other end. ½" PEX F1960 branches in single row. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX13000

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX13203	3 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee	5	80	ea.
EX13204	4 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee	5	60	ea.
EX13206	6 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee	5	40	ea.
EX13806	6 Port, 1" PEX F1960 × Closed End HPP Multiport Tee	5	40	ea.

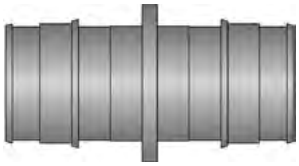

EX14203

PEX F1960 Flow Through HPP Multiport Tees
EX14000 Series

Open on both ends with ¾" or 1" PEX F1960 connections. ½" PEX F1960 branches in single row. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX14000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX14202	2 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee	5	100	ea.
EX14203	3 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee	5	80	ea.
EX14204	4 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee	5	60	ea.
EX14706	6 Port, 1" × ¾" PEX F1960 Flow Through HPP Multiport Tee	5	40	ea.



PEX F1960 Couplings - *No Lead Brass*
EX29000NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 × PEX F1960 couplings. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX29000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX29005NL	½" × ½" PEX F1960 No Lead Brass Coupling	25	500	ea.
EX29022NL	¾" × ¾" PEX F1960 No Lead Brass Coupling	25	250	ea.
EX29028NL	1" × 1" PEX F1960 No Lead Brass Coupling	10	250	ea.

PEX F1960 Reducing Couplings - *No Lead Brass*
EX29200NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 × PEX F1960 reducing couplings. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX29000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX29225NL	¾" × ½" PEX F1960 No Lead Brass Coupling	25	500	ea.
EX29282NL	1" × ¾" PEX F1960 No Lead Brass Coupling	10	250	ea.

PEX F1960 Couplings - *HPP*
EX19000 Series

High Performance Polymer PEX F1960 couplings. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX19000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX19005	½" × ½" PEX F1960 HPP Coupling	25	600	ea.
EX19022	¾" × ¾" PEX F1960 HPP Coupling	25	300	ea.
EX19028	1" × 1" PEX F1960 HPP Coupling	10	100	ea.
EX19035	1-¼" × 1-¼" PEX F1960 HPP Coupling	1	50	ea.
EX19041	1-½" × 1-½" PEX F1960 HPP Coupling	1	50	ea.
EX19054	2" × 2" PEX F1960 HPP Coupling	1	50	ea.

PEX F1960 Reducing Couplings - *HPP*
EX19200 Series

High Performance Polymer PEX F1960 reducing couplings. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX19000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX19225	¾" × ½" PEX F1960 HPP Coupling	25	300	ea.
EX19282	1" × ¾" PEX F1960 HPP Coupling	5	150	ea.
EX19238	1-¼" × 1" PEX F1960 HPP Coupling	1	50	ea.
EX19243	1-½" × 1-¼" PEX F1960 HPP Coupling	1	50	ea.
EX19248	1-½" × 1" PEX F1960 HPP Coupling	1	50	ea.
EX19264	2" × 1-½" PEX F1960 HPP Coupling	1	50	ea.

PEX F1960 Elbows - *No Lead Brass*
EX28000NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 × PEX F1960 elbows. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX28000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX28005NL	½" × ½" PEX F1960 No Lead Brass Elbow	25	250	ea.
EX28022NL	¾" × ¾" PEX F1960 No Lead Brass Elbow	25	250	ea.
EX28028NL	1" × 1" PEX F1960 No Lead Brass Elbow	10	100	ea.

PEX F1960 Elbows - *HPP*
EX18000 Series

High Performance Polymer PEX F1960 elbows. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX18000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX18005	½" × ½" PEX F1960 HPP Elbow	25	500	ea.
EX18022	¾" × ¾" PEX F1960 HPP Elbow	25	300	ea.
EX18028	1" × 1" PEX F1960 HPP Elbow	10	100	ea.
EX18035	1-¼" × 1-¼" PEX F1960 HPP Elbow	1	50	ea.
EX18041	1-½" × 1-½" PEX F1960 HPP Elbow	1	50	ea.
EX18054	2" × 2" PEX F1960 HPP Elbow	1	50	ea.

PEX F1960 × MNPT Adapters - *No Lead Brass*
EX27500NL Series

Solid brass no lead (C69300-EcoBrass) PEX F1960 × MNPT adapters. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX27500NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX27505NL	½" PEX F1960 × ½" MNPT No Lead Brass Adapter	25	250	ea.
EX27522NL	¾" PEX F1960 × ¾" MNPT No Lead Brass Adapter	25	250	ea.
EX27528NL	1" PEX F1960 × 1" MNPT No Lead Brass Adapter	10	150	ea.
EX27535NL	1-¼" PEX F1960 × 1-¼" MNPT No Lead Brass Adapter	5	70	ea.
EX27541NL	1-½" PEX F1960 × 1-½" MNPT No Lead Brass Adapter	5	25	ea.
EX27554NL	2" PEX F1960 × 2" MNPT No Lead Brass Adapter	5	10	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX F1960 × MNPT Adapters - *HPP*
EX17500 Series

High Performance Polymer PEX F1960 × MNPT adapters. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX17500.

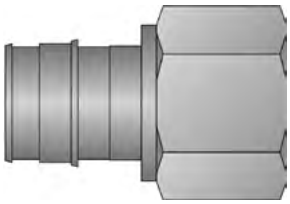
Stk#	Description	Pkg Qty	Carton Qty	Unit
EX17505	½" PEX F1960 × ½" MNPT HPP Adapter	25	375	ea.
EX17552	½" PEX F1960 × ¾" MNPT HPP Adapter	25	350	ea.
EX17522	¾" PEX F1960 × ¾" MNPT HPP Adapter	25	300	ea.

PEX F1960 Drop Ear Elbows - *No Lead Brass*
EX28300NL Series

Solid no lead brass (C69300-EcoBrass) ½" PEX F1960 × ½" FNPT drop ear elbow. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX28300NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX28305NL	½" PEX F1960 × ½" FNPT Drop Ear No Lead Brass Elbow	10	160	ea.



PEX F1960 × FNPT Adapters - *No Lead Brass*
EX27600NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 × FNPT adapters. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX27600NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX27605NL	½" PEX F1960 × ½" FNPT No Lead Brass Adapter	25	400	ea.
EX27622NL	¾" PEX F1960 × ¾" FNPT No Lead Brass Adapter	25	300	ea.
EX27628NL	1" PEX F1960 × 1" FNPT No Lead Brass Adapter	25	150	ea.
EX27635NL	1-¼" PEX F1960 × 1-¼" FNPT No Lead Brass Adapter	5	70	ea.
EX27641NL	1-½" PEX F1960 × 1-½" FNPT No Lead Brass Adapter	5	35	ea.

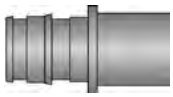
Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*

PEX F1960 × Swivel Adapters - *HPP*
17700 Series

High Performance Polymer PEX F1960 × swivel adapters. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX17700.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX17755	½" PEX F1960 × ½" Swivel HPP Adapter	25	400	ea.



PEX F1960 × Male Sweat Adapters - *No Lead Brass* 27100NL Series

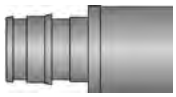
Solid no lead brass (C69300-EcoBrass) PEX F1960 × male sweat adapters. PEX-a expansion rings sold separately.

Not intended for use with copper press fittings.

For complete specifications, see submittal SUBEX27000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX27105NL	½" PEX F1960 × ½" M/Sweat No Lead Brass Adapter	25	700	ea.
EX27122NL	¾" PEX F1960 × ¾" M/Sweat No Lead Brass Adapter	25	400	ea.
EX27128NL	1" PEX F1960 × 1" M/Sweat No Lead Brass Adapter	10	200	ea.
EX27135NL	1-¼" PEX F1960 × 1-¼" M/Sweat No Lead Brass Adapter	5	40	ea.
EX27141NL	1-½" PEX F1960 × 1-½" M/Sweat No Lead Brass Adapter	5	30	ea.
EX27154NL	2" PEX F1960 × 2" M/Sweat No Lead Brass Adapter	5	20	ea.

Note: *1-½" and larger fittings may be ordered in less than package quantities; no surcharge.*



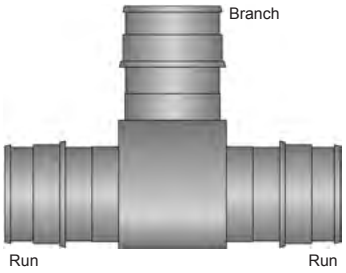
PEX F1960 × Female Sweat Adapters - *No Lead Brass* 27200NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 × female sweat adapters. PEX-a expansion rings sold separately.

Not intended for use with copper press fittings.

For complete specifications, see submittal SUBEX27000NL.

Stk#	Description	Pkg Qty	Carton Qty	Unit
EX27205NL	½" PEX F1960 × ½" F/Sweat No Lead Brass Adapter	25	700	ea.
EX27222NL	¾" PEX F1960 × ¾" F/Sweat No Lead Brass Adapter	25	400	ea.
EX27228NL	1" PEX F1960 × 1" F/Sweat No Lead Brass Adapter	10	200	ea.
EX27235NL	1-¼" PEX F1960 × 1-¼" F/Sweat No Lead Brass Adapter	5	70	ea.

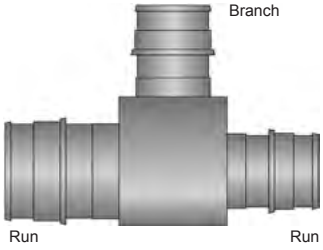


PEX F1960 Tees - *No Lead Brass*
EX26000NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 tees. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX26000NL.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
EX26555NL	½" × ½" × ½" PEX F1960 No Lead Brass Tee	25	250	ea.
EX26222NL	¾" × ¾" × ¾" PEX F1960 No Lead Brass Tee	25	250	ea.
EX26888NL	1" × 1" × 1" PEX F1960 No Lead Brass Tee	10	100	ea.



PEX F1960 Reducing Tees - *No Lead Brass*
EX26000NL Series

Solid no lead brass (C69300-EcoBrass) PEX F1960 tees. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX26000NL.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
EX26225NL	¾" × ¾" × ½" PEX F1960 No Lead Brass Tee	25	250	ea.
EX26252NL	¾" × ½" × ¾" PEX F1960 No Lead Brass Tee	25	250	ea.
EX26255NL	¾" × ½" × ½" PEX F1960 No Lead Brass Tee	25	250	ea.
EX26822NL	1" × ¾" × ¾" PEX F1960 No Lead Brass Tee	5	100	ea.
EX26882NL	1" × 1" × ¾" PEX F1960 No Lead Brass Tee	5	100	ea.
EX26885NL	1" × 1" × ½" PEX F1960 No Lead Brass Tee	10	100	ea.

PEX F1960 Tees - *HPP*
EX16000 Series

High Performance Polymer PEX F1960 tees. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX16000.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
EX16555	½" × ½" × ½" PEX F1960 HPP Tee	25	250	ea.
EX16222	¾" × ¾" × ¾" PEX F1960 HPP Tee	25	100	ea.
EX16888	1" × 1" × 1" PEX F1960 HPP Tee	10	60	ea.
EX16333	1-¼" × 1-¼" × 1-¼" PEX F1960 HPP Tee	1	50	ea.
EX16444	1-½" × 1-½" × 1-½" PEX F1960 HPP Tee	1	50	ea.
EX16666	2" × 2" × 2" PEX F1960 HPP Tee	1	50	ea.

PEX F1960 Reducing Tees - *HPP*
EX16000 Series

High Performance Polymer PEX F1960 reducing tees. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX16000.

Stk#	Description (run × run × branch)	Pkg Qty	Carton Qty	Unit
EX16255	¾" × ½" × ½" PEX F1960 HPP Tee	25	200	ea.
EX16225	¾" × ¾" × ½" PEX F1960 HPP Tee	25	175	ea.
EX16252	¾" × ½" × ¾" PEX F1960 HPP Tee	25	150	ea.
EX16552	½" × ½" × ¾" PEX F1960 HPP Tee	25	200	ea.
EX16822	1" × ¾" × ¾" PEX F1960 HPP Tee	5	75	ea.
EX16828	1" × ¾" × 1" PEX F1960 HPP Tee	5	60	ea.
EX16882	1" × 1" × ¾" PEX F1960 HPP Tee	5	75	ea.
EX16885	1" × 1" × ½" PEX F1960 HPP Tee	10	90	ea.
EX16332	1-¼" × 1-¼" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16335	1-¼" × 1-¼" × ½" PEX F1960 HPP Tee	1	50	ea.
EX16338	1-¼" × 1-¼" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16382	1-¼" × 1" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16388	1-¼" × 1" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16432	1-½" × 1-¼" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16433	1-½" × 1-¼" × 1-¼" PEX F1960 HPP Tee	1	50	ea.
EX16438	1-½" × 1-¼" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16442	1-½" × 1-½" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16443	1-½" × 1-½" × 1-¼" PEX F1960 HPP Tee	1	50	ea.
EX16448	1-½" × 1-½" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16488	1-½" × 1" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16642	2" × 1-½" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16643	2" × 1-½" × 1-¼" PEX F1960 HPP Tee	1	50	ea.
EX16644	2" × 1-½" × 1-½" PEX F1960 HPP Tee	1	50	ea.
EX16648	2" × 1-½" × 1" PEX F1960 HPP Tee	1	50	ea.
EX16662	2" × 2" × ¾" PEX F1960 HPP Tee	1	50	ea.
EX16663	2" × 2" × 1-¼" PEX F1960 HPP Tee	1	50	ea.
EX16664	2" × 2" × 1-½" PEX F1960 HPP Tee	1	50	ea.
EX16668	2" × 2" × 1" PEX F1960 HPP Tee	1	50	ea.

PEX F1960 Ball Valves - *No Lead Brass*
EX23300NL Series

No lead brass PEX F1960 × PEX F1960 full port straight ball valves with lever handle. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX23300NL.

Coming Spring of 2022!

	Stk#	Description	Pkg Qty	Carton Qty	Unit
New!	EX23305NL	1/2" PEX F1960 No Lead Brass Ball Valve, Full Port	10	120	ea.
New!	EX23322NL	3/4" PEX F1960 No Lead Brass Ball Valve, Full Port	10	80	ea.
New!	EX23328NL	1" PEX F1960 No Lead Brass Ball Valve, Full Port	6	48	ea.
New!	EX23335NL	1-1/4" PEX F1960 No Lead Brass Ball Valve, Full Port	4	24	ea.
New!	EX23341NL	1-1/2" PEX F1960 No Lead Brass Ball Valve, Full Port	2	16	ea.
New!	EX23354NL	2" PEX F1960 No Lead Brass Ball Valve, Full Port	2	12	ea.

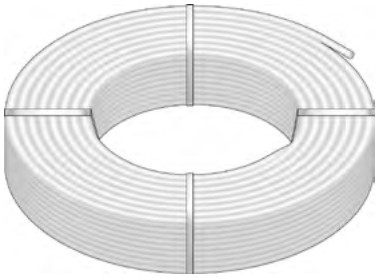
PEX F1960 × MNPT Ball Valves - *No Lead Brass*
EX23800NL Series

No lead brass PEX F1960 × MNPT straight ball valves with butterfly handle. PEX-a expansion rings sold separately.

For complete specifications, see submittal SUBEX23800NL.

Coming Spring of 2022!

	Stk#	Description	Pkg Qty	Carton Qty	Unit
New!	EX23822NL	3/4" PEX F1960 × 3/4" MNPT No Lead Brass Ball Valve	10	80	ea.



PEX-a Tubing Coils with O_2 Barrier 94000 Series

High molecular cross-linked polyethylene (PEX-a) with minimum bending radii of 6× the diameter at 68°F (20°C). Maximum operating temperature: 180°F @ 100 PSI (82°C @ 690 kPa). Covered by a twenty-five year manufacturer's limited warranty. Comes with oxygen diffusion barrier which prevents oxygen from entering the heating system through the tubing wall.

For complete specifications, see submittal SUB94000.

Stk#	Description	Pkg Qty	Skid Qty	Unit
94205	½" 250ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	48	coil
94305	½" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	48	coil
94505	½" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	32	coil
94105	½" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	16	coil
94319	⅝" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	32	coil
94519	⅝" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	16	coil
94119	⅝" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	12	coil
94322	¾" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	16	coil
94522	¾" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	12	coil
94122	¾" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	7	coil
94128	1" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	28	coil
94528	1" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	7	coil
94135	1-¼" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	12	coil
94335	1-¼" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	7	coil
94141	1-½" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	10	coil
94341	1-½" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	7	coil

PEX-a Tubing Straight Lengths with O_2 Barrier 94000 Series

High molecular cross-linked polyethylene (PEX-a) with minimum bending radii of 6× the diameter at 68°F (20°C). Maximum operating temperature: 180°F @ 100 PSI (82°C @ 690 kPa). Covered by a twenty-five year manufacturer's limited warranty. Comes with oxygen diffusion barrier which prevents oxygen from entering the heating system through the tubing wall.

For complete specifications, see submittal SUB94000.

Stk#	Description	Pkg Qty	Master Bag	Unit
94222	¾" 10×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	20	bundle
94228	1" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	20	bundle
94235	1-¼" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	15	bundle
94241	1-½" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing	1	10	bundle

HeatLink® O_2 Barrier Pipe-in-Pipe 94000 Sheathed Series

PEX-a carrier tubing specified on previous pages. The flexible, impact resistant red PP sheath designed as a raceway for electrical installations provides mechanical and UV protection to the PEX-a carrier tubing. The sheath allows for easy replacement of the PEX-a carrier tubing if needed.

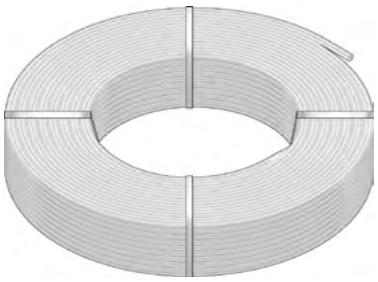
For complete specifications, see submittal SUB94000rs.

Minimum bending radius @ 68˚F (20˚C) for: ½" = 3" (77 mm)

PP sheath is rated to UL94HB "Tests for Flammability of Plastic Materials."

Corrugated sheath outside diameter for: ½" = 0.93" (23.6 mm)

	Stk#	Description	Pkg Qty	Skid Qty	Unit
Special Order*	94305rs	½" 300' O_2 Barrier HeatLink® Pipe-in-Pipe Red Sheath	1	18	coil
Special Order*	94322rs	¾" 300' O_2 Barrier HeatLink® Pipe-in-Pipe Red Sheath	1	9	coil



Non Barrier PEX-a Tubing Coils 20000 Series

High molecular cross-linked polyethylene (PEX-a) with minimum bending radii of 6× the diameter at 68°F (20°C). Maximum operating temperature: 180°F @ 100 PSI (82°C @ 690 kPa). Covered by a twenty-five year manufacturer's limited warranty.

For complete specifications, see submittal SUB20000.

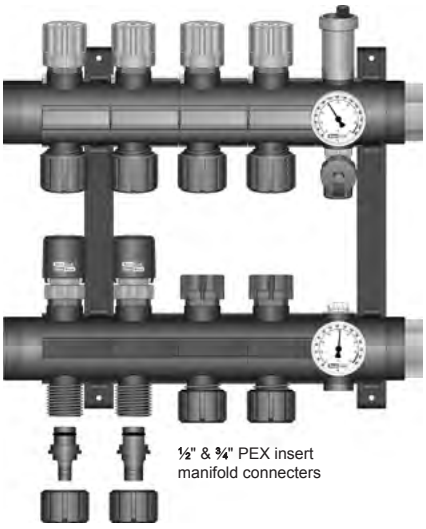
Stk#	Description	Pkg Qty	Skid Qty	Unit
20305	½" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	48	coil
20505	½" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	32	coil
20905	½" 1000ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	20	coil
20322	¾" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	21	coil
20522	¾" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	12	coil
20128	1" 100ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	28	coil
20328	1" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing	1	11	coil

* Lead time may vary. Call to confirm time line.

TwistSeal® (55 mm) Manifolds

Features & Benefits :

- Modular “tool-less” assembly.
- Multiple configurations, all interchangeable; can be reconfigured on-site.
- Unlike a fixed loop manifold, loops can be added or removed as required.
- Stock is flexible, as there is no need to stock fixed-length manifolds. Minimal SKUs on the shelf.
- Balancing return.
- Zone valve supply with manual shut-off; accepts optional actuators.
- Max. trunk flow rate: 79400 kit - 18 US gpm (4.1 m^3/h)
- Max. circuit flow rate: 2.5 US gpm (0.57 m^3/h)
- ½", ⅝", and ¾" PEX to manifold connecters available.
- Test rated to over 230 PSI @ 180°F water temperature.
- 5 year limited warranty.



(79400 assembly kit shown with 4× 78400 module pairs and 2 actuators)

Typical Applications:

- Commercial.
- Snow melting.

Assembly Kit	# of Loops	Modules	Additional Brackets	Recommended Housing*	
				Recessed**	Surface Mount with Rails
79400	2	2× 78400	-	71724	72434
	3	3× 78400	-	71724	72434
	4	4× 78400	-	71724	72434
	5	5× 78400	-	71730	72434
	6	6× 78400	1× 79991	71730	72434
	7	7× 78400	1× 79991	71743	72434
	8	8× 78400	1× 79991	71743	72434
	9	9× 78400	2× 79991	71743	72442
	10	10× 78400	2× 79991	71743	72442
	11	11× 78400	2× 79991	71743	72442
	12	12× 78400	3× 79991	n/a	72442

Actuator Selection	
Actuator with LED	56200
Actuator with End Switch	56230

Tubing Size	Tubing to Manifold Connecters / Loop		Conduit Elbows / Loop for “Wet” Installation
	Compression	PEX Insert	
½"	77005	2× 23015	2× 86005
⅝"	77019	n/a	2× 86020
¾"	77022	2× 23032	2× 86022

* Recommended housing based on 79400 kit and 90° mains piping.
** Thermometers must be removed.

TwistSeal® (55 mm) Deluxe Manifold Assembly Kit
Stk# 79400

This package contains the items needed to assemble a Deluxe TwistSeal® Manifold. Contents include:

- 2 mounting brackets
- 2 - 1" FNPT supply end connections
- 2 closed end caps
- 1 lube bottle
- 2 cross tees c/w 3 - ½" cross tee plugs
- 1 thermometer pair c/w wells
- 1 manual air vent with 1 key
- 1 automatic air vent
- 1 hose bib
- 1 wrench for plastic nut

For complete specifications, see submittal SUB79400.

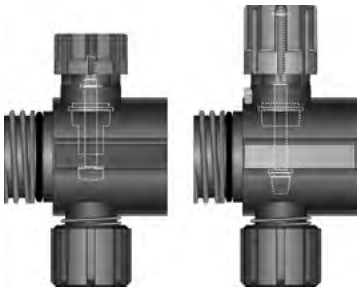
Stk#	Description	Pkg Qty	Carton Qty	Unit
79400	1" TwistSeal® (55mm) Deluxe Manifold Assembly Kit	1		ea.

Mounting Bracket (55 mm)
Stk# 79991

Plastic mounting bracket which allows easy 'snap-on' mounting of manifolds.

1 additional bracket should be used on 6 to 8 loop manifolds.
2 additional brackets should be used on 9 to 11 loop manifolds.
3 additional brackets should be used on 12 loop manifolds.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79991	TwistSeal® (55mm) Mounting Bracket	1		ea.



TwistSeal® Deluxe (55 mm) Supply / Return Modules c/w Heavy Duty Zone Valve Supply & Balancing Return
Stk# 78400

The supply module provides on/off manual control to allow isolation of individual loops, and may be fitted for electric actuator and thermostat operation. The return module permits the balancing of the flow rate. Comes with o-rings. Modules can be locked in place with a couple of turns. No threaded rod, solder, or tools required. Just twist and seal.

For complete specifications, see submittal SUB78400 or SUB79400.

Stk#	Description	Pkg Qty	Carton Qty	Unit
78400	TwistSeal® Deluxe (55mm) Z.V. Supply & Balancing Return Module Pair	1	10	pair

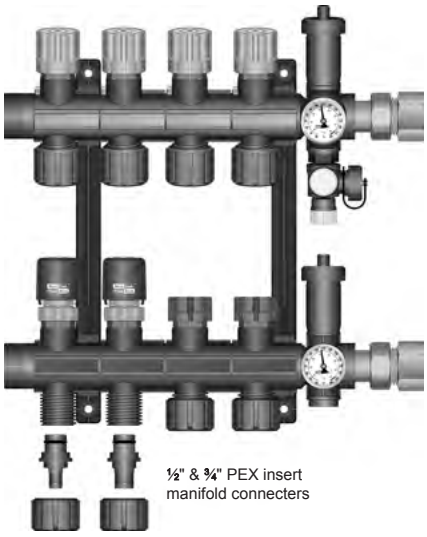
TwistSeal® Mini (40mm) Manifolds

Features & Benefits :

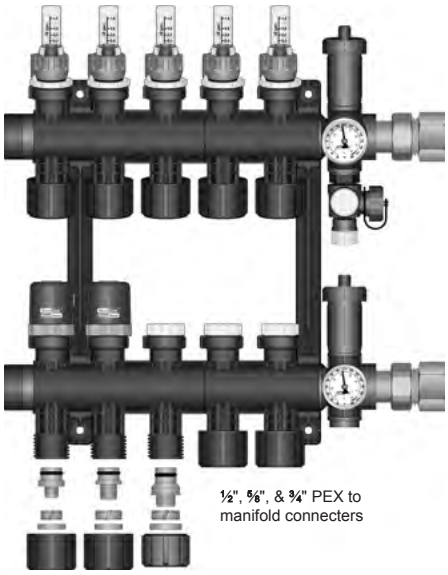
- Modular "tool-less" assembly.
- Multiple configurations ,all interchangeable; can be reconfigured on-site.
- Unlike a fixed loop manifold, loops can be added or removed as required.
- Stock is flexible, as there is no need to stock fixed-length manifolds. Minimal SKUs on the shelf.
- Maximum trunk flow rate: 11 US gpm (2.5 m^3/h)
- Maximum circuit flow rate: 7830x - 1 US gpm (0.23 m^3/h) 78200 - 1.25 US gpm (0.28 m^3/h)
- ½", ⅝", and ¾" PEX to manifold connecters available.
- Test rated to over 230 PSI @ 180°F water temperature.
- 5 year limited warranty.

Typical Applications:

- Residential.
- Small commercial.



(79200 assembly kit shown with 78200 module pairs and 2 actuators)



(79200 assembly kit shown with 78302 and 78303 module pairs and 2 actuators)

78200 Module Specific Features:

- Flow balancing return.
- Zone valve supply with manual shut-off; accepts optional actuators.

7830x Module Specific Features:

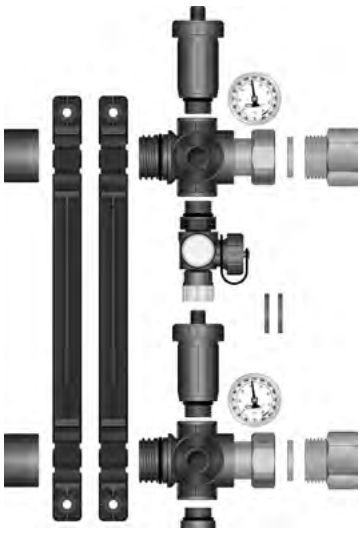
- Lockable balancing return with 0.4 - 1 US gpm (1.5 - 3.8 L/min) flow meter.
- Zone valve supply with manual shut-off; accepts optional actuators.

Assembly Kit	# of Loops	Choose Module Type		Additional Brackets	Recommended Housing*	
		Balancing	Multiport Flow Meter		Recessed	Surface Mount with Rails
79200	2	2× 78200	1× 78302	-	71724	72434
	3	3× 78200	1× 78303	-	71724	72434
	4	4× 78200	2× 78302	-	71724	72434
	5	5× 78200	1× 78302 1× 78303	-	71730	72434
	6	6× 78200	2× 78303	1× 79892	71730	72434
	7	7× 78200	2× 78302 1× 78303	1× 79892	71730	72434
	8	8× 78200	1× 78302 2× 78303	1× 79892	71743	72434
	9	9× 78200	3× 78303	2× 79892	71743	72442
	10	10× 78200	2× 78302 2× 78303	2× 79892	71743	72442
	11	11× 78200	1× 78302 3× 78303	2× 79892	71743	72442
	12	12× 78200	4× 78303	3× 79892	71743	72442

Actuator Selection		
Actuator with LED	56200	56202
Actuator with End Switch	56230	56232

Tubing Size	Tubing to Manifold Connecters / Loop		Conduit Elbows / Loop for "Wet" Installation
	Compression	PEX Insert	
½"	77005	2× 23015	2× 86005
⅝"	77019	n/a	2× 86020
¾"	77022	2× 23032	2× 86022

* Recommended housing based on 79200 kit and 90° mains piping



TwistSeal® Mini (40 mm) Deluxe Manifold Assembly Kit
Stk# 79200

This package contains the items needed to assemble a mini deluxe heating manifold. Contents include:

- 2 mounting brackets
- 2 - 1" union cross tee end connection c/w green fibre gasket
- 2 - 1" MBSP × 1" FNPT adapter
- 2 red rubber gaskets for air testing
- 2 closed end caps
- 1 - ½" cross tee plug
- 1 thermometer pair
- 2 automatic air vents
- 1 hose bib
- 1 lubricant package

For complete specifications, see submittal SUB78200 or SUB78300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79200	1" TwistSeal® Mini (40mm) Deluxe Manifold Assembly Kit	1		ea.

Mini Mounting Bracket (40 mm)
Stk# 79892

Plastic mounting bracket which allow easy 'snap-on' mounting of manifolds. Offset provides tubing passage behind second manifold.

1 additional bracket should be used on 6 to 8 loop manifolds.
2 additional brackets should be used on 9 to 11 loop manifolds.
3 additional brackets should be used on 12 loop manifolds.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79892	TwistSeal® Multiport (40mm) Double Mounting Bracket	1	20	ea.

TwistSeal® Mini Deluxe (40 mm) Supply / Return Modules c/w Heavy Duty Zone Valve Supply & Balancing Return Stk# 78200

The supply module provides on/off manual control to allow isolation of individual loops. The return module permits balancing of the flow rate with flow setting dial. Comes with o-rings.

For complete specifications, see submittal SUB78200.

Stk#	Description	Pkg Qty	Carton Qty	Unit
78200	TwistSeal® Mini Deluxe (40mm) Z.V. Supply & Balancing Return Module Pair	1	10	pair

TwistSeal® Mini (40 mm) Multiport Zone Valve Supply & Flow Meter Balancing Return Module Pair 78300 Series

The supply module provides on/off manual control to allow isolation of individual loops. The return module permits visual balancing of the flow rate with the flow meter. Comes with o-rings.

For complete specifications, see submittal SUB78300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
78302	TwistSeal® Mini (40mm) 2-port Z.V.Supply & Flow Meter Return Module Pair	1	6	pair
78303	TwistSeal® Mini (40mm) 3-port Z.V.Supply & Flow Meter Return Module Pair	1	4	pair

PEX Connecters for TwistSeal® Manifolds 77000 Series

Solid brass fitting attaches to the end of the PEX tubing and allows for easy installation onto the bottom of the manifold module. Comes with o-ring.

For complete specifications, see submittal SUB77000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
77005	½" PEX to TwistSeal® Manifold Connecter	1	10	pair
77019	⅝" PEX to TwistSeal® Manifold Connecter	1	10	pair
77022	¾" PEX to TwistSeal® Manifold Connecter c/w Nut	1		pair

PEX Insert Connecters for TwistSeal® Manifold 23000 Series

Plastic fitting is installed into the bottom of the manifold module and is held in place by the nut. The tubing is then pressed on to this fitting. Comes with o-ring. SS press sleeves sold separately (page 12). *Not for potable water use.*

For complete specifications, see submittal SUB23000.

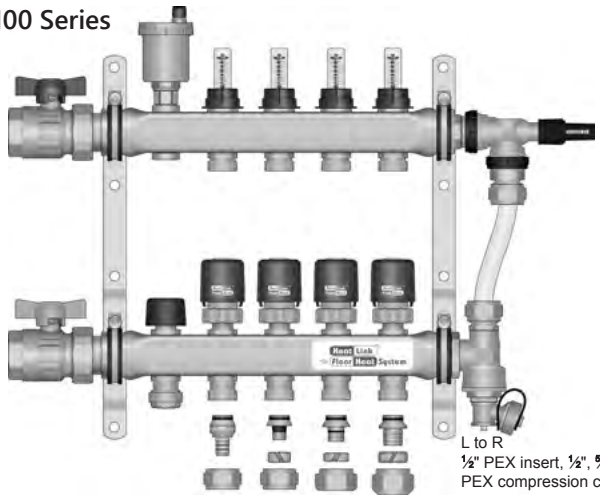
Stk#	Description	Pkg Qty	Carton Qty	Unit
23015	½" PEX Insert Manifold Connecter	5		ea.
23032	¾" PEX Insert Manifold Connecter c/w Nut	5		ea.

Heat Link® 1-¼" Stainless Steel Manifolds

Common Features:

- Preassembled configurations from 2 to 12 loops.
- Integrated 1" FNPT isolation valves and hosebibs.
- Zone valve return balancing with manual shut-off; accepts optional actuators.
- Maximum trunk flow rate: 18 US gpm (4.1 m^3/h)
- ½", ⅝", and ¾" PEX connecters available.

76100 Series



L to R
½" PEX insert, ½", ⅝", & ¾"
PEX compression connecters

(76105 - 5 loop model shown with 4 actuators, automatic air vent, ½" plug, port cap, and pressure bypass valve)

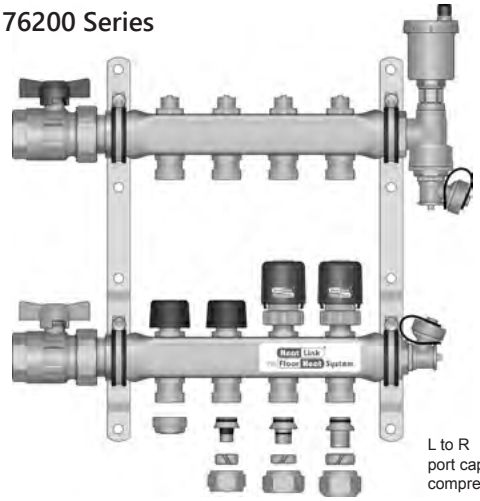
Model Specific Features:

- Maximum circuit flow rate: 1.5 US gpm (0.34 m^3/h)
- Balancing supply with 0-1.5 US gpm (0-5 L/min) flow meter.

Typical Applications:

- Residential.
- Small commercial.

76200 Series



L to R
port cap, ½", ⅝", & ¾" PEX
compression connecters

(76204 - 4 loop model shown with 2 actuators and side mount automatic air vent)

Model Specific Features:

- Maximum circuit flow rate: 2.5 US gpm (0.57m^3/h)
- Balancing supply.

Typical Applications:

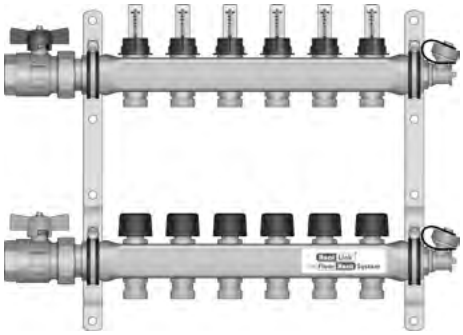
- Commercial.
- Snow melting.

# of Loops	Recommended Housing*	
	Recessed	Surface Mount with Rails
2	71724	72434
3	71724	72434
4	71730	72434
5	71730	72434
6	71730	72434
7	71743	72434
8	71743	72434
9	71743	72434
10	71743	72442
11	71743	72442
12	71743	72442

Tubing Size	PEX Connecters / Loop		Conduit Elbows / Loop for "Wet" Installation
	Compression	Insert	
½"	77105	77305	2× 86005
⅝"	77119	n/a	2× 86020
¾"	77122	n/a	2× 86022

Manifold Series	Actuator with LED	Actuator with End Switch	DDC Actuator
1-¼" Stainless Steel (76100 or 76200 series)	56201	56231	56121

* Recommended housing based on 90° mains piping



1-¼" Stainless Steel Manifolds with Flow Meters 76100 Series

Manifold includes:

- 1 assembled flow balancing supply manifold with 1" FNPT isolation valve and hose bib/air vent.
- 1 assembled balancing shut-off return manifold with 1" FNPT isolation valve and hose bib/air vent.
- 2 mounting brackets.

PEX connecters & port caps sold separately.

For complete specifications, see submittal SUB76100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76102	2 Loop SS Manifold with Flow Meters	1		ea.
76103	3 Loop SS Manifold with Flow Meters	1		ea.
76104	4 Loop SS Manifold with Flow Meters	1		ea.
76105	5 Loop SS Manifold with Flow Meters	1		ea.
76106	6 Loop SS Manifold with Flow Meters	1		ea.
76107	7 Loop SS Manifold with Flow Meters	1		ea.
76108	8 Loop SS Manifold with Flow Meters	1		ea.
76109	9 Loop SS Manifold with Flow Meters	1		ea.
76110	10 Loop SS Manifold with Flow Meters	1		ea.
76111	11 Loop SS Manifold with Flow Meters	1		ea.
76112	12 Loop SS Manifold with Flow Meters	1		ea.

1-¼" High Flow Stainless Steel Manifolds 76200 Series

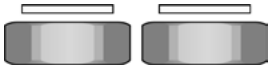
Manifold includes:

- 1 assembled balancing supply manifold with 1" FNPT isolation valve and hose bib/air vent.
- 1 assembled balancing shut-off return manifold with 1" FNPT isolation valve and hose bib/air vent.
- 2 mounting brackets.

PEX connecters & port caps sold separately.

For complete specifications, see submittal SUB76200.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76202	2 Loop High Flow SS Manifold	1		ea.
76203	3 Loop High Flow SS Manifold	1		ea.
76204	4 Loop High Flow SS Manifold	1		ea.
76205	5 Loop High Flow SS Manifold	1		ea.
76206	6 Loop High Flow SS Manifold	1		ea.
76207	7 Loop High Flow SS Manifold	1		ea.
76208	8 Loop High Flow SS Manifold	1		ea.
76209	9 Loop High Flow SS Manifold	1		ea.
76210	10 Loop High Flow SS Manifold	1		ea.
76211	11 Loop High Flow SS Manifold	1		ea.
76212	12 Loop High Flow SS Manifold	1		ea.

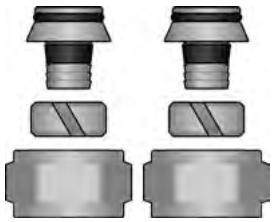


Port Caps for 1-¼" Stainless Steel Manifolds Stk# 77100

Caps off unused ports on the 1-¼" Stainless Steel Manifold. Includes fiber gasket.

For complete specifications, see submittal SUB77100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
77100	Port Cap for 1-¼" SS Manifold	1	10	pair

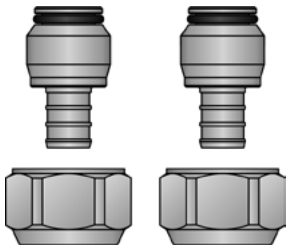


PEX Compression Connecters for 1-¼" Stainless Steel Manifolds 77100 Series

Solid brass fitting attaches to the end of the PEX tubing and allows for easy installation onto the bottom of the 1-¼" SS manifold. Comes with o-ring.

For complete specifications, see submittal SUB77100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
77105	½" PEX to 1-¼" SS Manifold Connecter	1	10	pair
77119	⅝" PEX to 1-¼" SS Manifold Connecter	1	10	pair
77122	¾" PEX to 1-¼" SS Manifold Connecter	1	10	pair



PEX Insert Connecters for 1-¼" Stainless Steel Manifolds 77300 Series

Solid brass fitting is installed into the bottom of the manifold and is held in place by the nut. The tubing is then pressed on to this fitting. Comes with o-ring. SS press sleeves sold separately (page 12). *Not for potable water use.*

For complete specifications, see submittal SUB77300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
77305	½" PEX Insert to 1-¼" SS Manifold Connecter	1		pair

Coupling for 1-¼" Stainless Steel Manifold Stk# 76100

Used to connect 1-¼" SS manifolds together. Comes with o-rings.

For complete specifications, see submittal SUB76100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76100	Coupling for SS Manifold	1		ea.

½" Plug for 1-¼" Stainless Steel Manifold Stk# 76905

Plug to seal 1-¼" SS manifold outlet. Comes with o-ring.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76905	½" Plug for 1-¼" SS Manifold	1		ea.

Automatic Air Vent for Stainless Steel Manifold
Stk# 76932

Add an automatic air vent to the 1-¼" SS manifold by replacing a valve or 2" SS manifold by replacing a hose bib. Comes with o-ring.

For complete specifications, see submittal SUB76932.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76932	Automatic Air Vent for 1-¼" SS Manifold	1		ea.

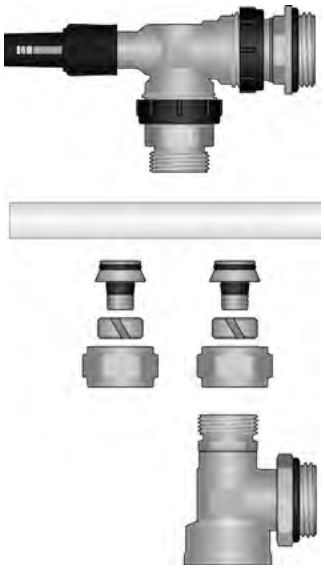
Side Mount Automatic Air Vent Set for 1-¼" Stainless Steel Manifold
Stk# 76935

Add an automatic air vent to the 1-¼" SS manifold without occupying a loop. Comes with o-ring.

Side Mount Automatic Air Vent is not compatible with the Pressure Bypass Kit (#76937).

For complete specifications, see submittal SUB76935.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76935	Side Mount Automatic Air Vent Set for 1-¼" SS Manifold	1		ea.



Pressure Bypass Kit for 1-¼" Stainless Steel Manifold
Stk# 76937

This valve prevents a steep rise of the pump head and maintains flow at a stable rate. Also ensures only required amount of circulating water is used for hydronic systems. The valve can be adjusted to any point between 0.05 and 0.5 bar (1.67 and 16.7 ft H_2O). Comes with o-rings.

Pressure Bypass Kit is not compatible with the Side Mount Automatic Air Vent Set (#76935).

For complete specifications, see submittal SUB76937.

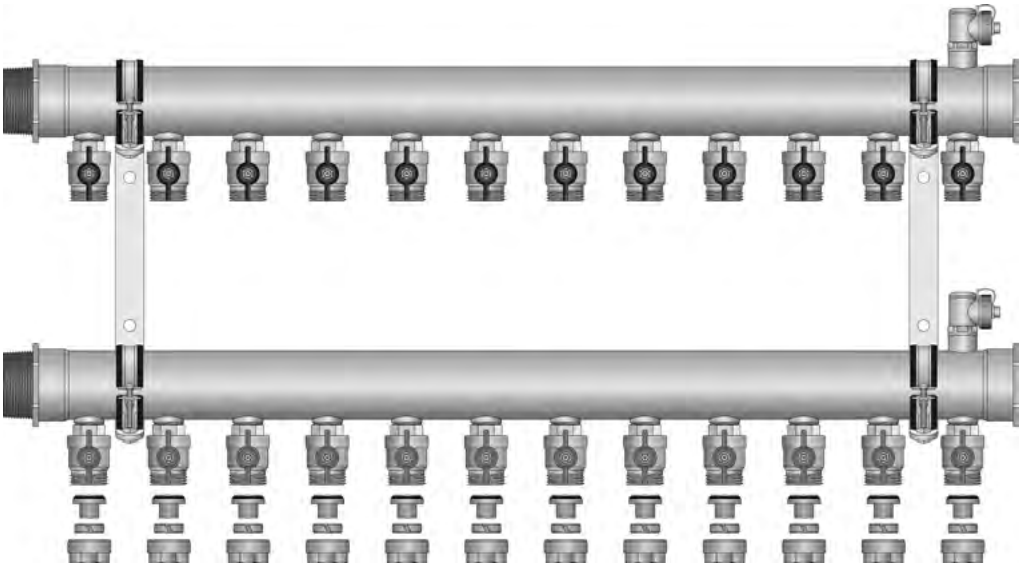
Stk#	Description	Pkg Qty	Carton Qty	Unit
76937	Pressure Bypass Kit for 1-¼" SS Manifold	1		ea.

Features:

- Preassembled configurations from 4 to 14 loops.
- Ball valve isolation for each loop.
- 1-½" and 2" MNPT open end adapters.
- Maximum trunk flow rate: 50 US gpm (11.4 m^3/h).
- Branch pair Cv = 6.
- ⅝", ¾", and 1" PEX connecters.

Typical Applications:

- Large commercial.
- Snow melting.
- Distribution header.



(76612 - 12 loop model shown with 2" MNPT Assembly Kit, and ¾" PEX connecters)

2" Stainless Steel Manifolds
76600 Series

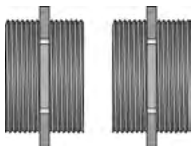
Manifold includes:

- 1 assembled supply manifold with ball valves and hose bib/air vent.
- 1 assembled return manifold with ball valves and hose bib/air vent.
- 2 mounting brackets.

Assembly Kit and PEX connecters sold separately.

For complete specifications, see submittal SUB76604.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76606	6 Loop 2" SS Manifold	1		ea.
76608	8 Loop 2" SS Manifold	1		ea.
76610	10 Loop 2" SS Manifold	1		ea.
76612	12 Loop 2" SS Manifold	1		ea.
76614	14 Loop 2" SS Manifold	1		ea.



Coupling for 2" SS Manifold
Stk# 76600

Couple 2" SS Manifolds together. Loctite 55 pipe sealing cord is recommended for thread sealing (not included).

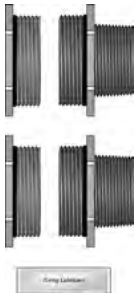
For complete specifications, see submittal SUB76600.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76600	Coupling for 2" SS Manifold	1		pair

Loctite 55
Stk# 76601

Loctite 55 pipe sealing cord recommended for sealing threads on 2" SS Manifold Couplings. 5,700 inches (145m) for 60 applications (2" pipe).

Stk#	Description	Pkg Qty	Carton Qty	Unit
76601	Loctite 55	1		ea.



Assembly Kits for 2" Stainless Steel Manifold
Stk# 76800 Series

Assembly Kit includes:

- 2 Closed Ends for 2" SS Manifold with o-ring.
- 2 Open End Adapters (1-½" or 2" MNPT) for 2" SS Manifold with o-ring.
- 1 packet of lubricant.

For complete specifications, see submittal SUB76800.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76840	1-½" MNPT Assembly Kit for 2" SS Manifold	1		ea.
76850	2" MNPT Assembly Kit for 2" SS Manifold	1		ea.

77622

77628

PEX Connecters for 2" Stainless Steel Manifold
Stk# 77600 Series

Solid brass fitting attaches to the end of the PEX tubing and allows for easy installation onto the shut-off valves of the 2" SS manifold. Comes with o-ring.

1" connecters require 1" SS Press Sleeves (#24228; page 12) and use of a 1" Press Tool (e.g. 11328).

For complete specifications, see submittal SUB77600.

Stk#	Description	Pkg Qty	Carton Qty	Unit
77619	⅝" PEX to 2" SS Manifold Connecter	1		pair
77622	¾" PEX to 2" SS Manifold Connecter	1	10	pair
Special Order* 77628	1" PEX to 2" SS Manifold Connecter	1		pair

1" Cap and Washer for 2" Stainless Steel Manifold
Stk# 76675

Cap to seal 2" SS manifold outlet.

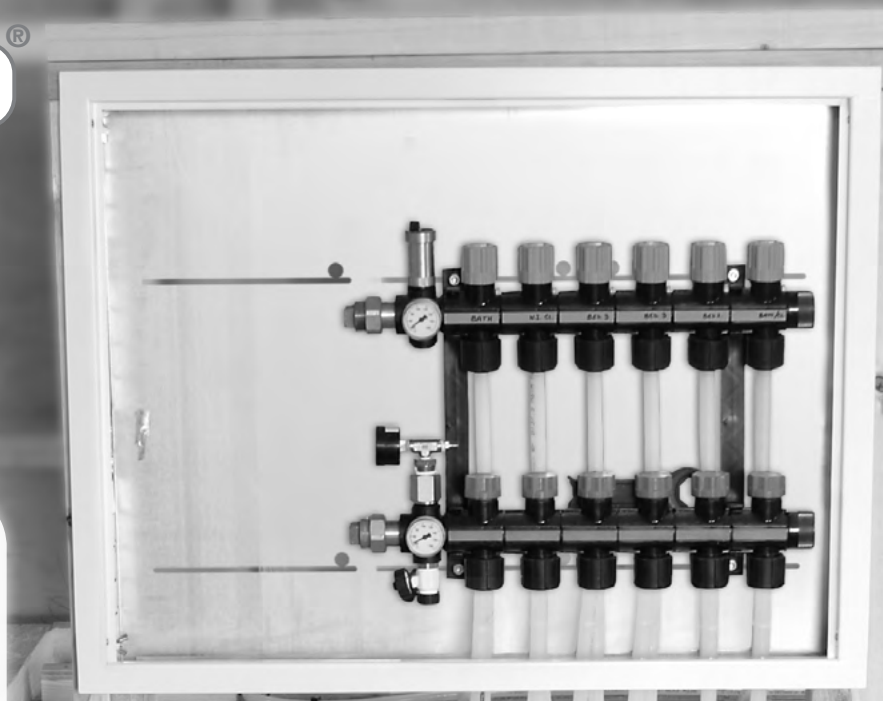
For complete specifications, see submittal SUB76675.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76675	1" Cap and Washer for 2" SS Manifold	1		pair

* Check with your local representative for availability.

Heat Link®

Manifold Housings



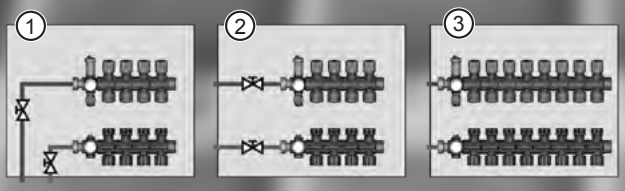
Features & Benefits

- ☑ allows easy access to manifold
- ☑ visible parts made of satin coated steel and are ready to paint without priming
- ☑ cover enables a structural flush seal
- ☑ locking, removable (lift off) door
- ☑ stylish ventilation apertures to prevent build up of heat and formation of condensation
- ☑ openings for mains piping on left & right sides (recessed only)

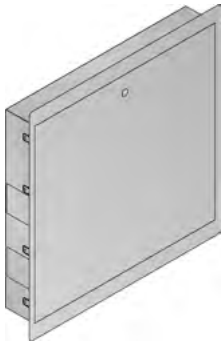
Stk. #	Width	Height	Depth	Max # of Loops with Manifold Assembly Kit #: 79400*		79200		Max # of 1-¼" SS Manifold Loops		Max # of 2" SS Manifold Loops
Surface Mount				①		①		①		①
72434	34-½" (876 mm)	28-½" (724 mm)	5-⅞" (149 mm)	8		8		9		7
72442	42-½" (1080 mm)	28-½" (724 mm)	5-⅞" (149 mm)	12		12		12		10
72446	46-½" (1180 mm)	28-½" (724 mm)	5-⅞" (149 mm)							12
72469	69" (1753 mm)	28-½" (724 mm)	5-⅞" (149 mm)							20
72481	85" (2160 mm)	28-½" (724 mm)	5-⅞" (149 mm)							24
72493	93" (2360 mm)	28-½" (724 mm)	5-⅞" (149 mm)							28
Recessed				①②	③	①②	③	①②	③	
71724	24" (610 mm)	23" (584 mm)	3-⅞" (98 mm)	4	7	4	8	3	7	n/a
71730	30-¼" (768 mm)	23" (584 mm)	3-⅞" (98 mm)	6	9	7	10	6	7	n/a
71743	43-½" (1105 mm)	23" (584 mm)	3-⅞" (98 mm)	11	12	12	12	12	12	n/a

Installation Methods:

① Allowance for 90˚ mains piping.
② Allowance for straight isolation valves.
③ Manifolds only, no piping allowances.



* Thermometers must be removed in recessed housing.



Manifold Housing: Recessed
71700 Series

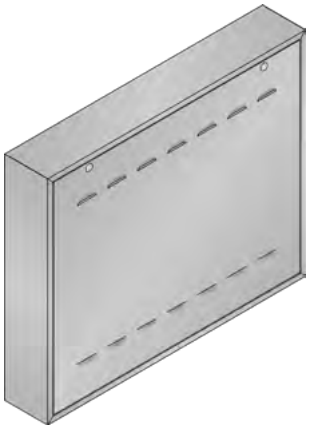
Allows easy access to the manifold through its locking, removable door.

Satin coated steel is well suited for painting. Openings for mains piping on left and right sides. Depth allows for mounting a manifold in a 2×4 wall. Space is available for mounting a StatLink® module above the manifold.

71700 series housings are not compatible with 2" Stainless Steel Manifolds (76600 series).

For complete specifications, see submittal SUB71700.

Stk#	Description	Pkg Qty	Carton Qty	Unit
71724	Recessed Manifold Housing 24"×23"×3-⅞"	1		ea.
71730	Recessed Manifold Housing 30"×23"×3-⅞"	1		ea.
71743	Recessed Manifold Housing 43-½"×23"×3-⅞"	1		ea.



Manifold Housing: Surface Mount
72400 Series

Allows easy access to the manifold through its locking, removable door.

Features: made of satin coated steel, surfaces ready to paint without priming, and stylish ventilation apertures to prevent build up of heat and formation of condensation. Skirting by others.

72401 Manifold Mounting Rails adds flexible mounting for TwistSeal® and 1-¼" Stainless Steel Manifolds.

72400 series housings are compatible with 2" Stainless Steel Manifolds (76600 series).

For complete specifications, see submittal SUB72400.

Stk#	Description	Pkg Qty	Carton Qty	Unit
72434	Surface Mounted Manifold Housing 34-½"×28-½"×5-⅞"	1		ea.
72442	Surface Mounted Manifold Housing 42-½"×28-½"×5-⅞"	1		ea.
72446	Surface Mounted Manifold Housing 46-½"×28-½"×5-⅞"	1		ea.
Special Order* 72469	Surface Mounted Manifold Housing 69"×28-½"×5-⅞"	1		ea.
Special Order* 72481	Surface Mounted Manifold Housing 85"×28-½"×5-⅞"	1		ea.
Special Order* 72493	Surface Mounted Manifold Housing 93"×28-½"×5-⅞"	1		ea.
72401	Manifold Mounting Rails for Surface Mount Manifold Housings	1		ea.

Key Lock for Manifold Housing Door
Stk# 71901

Key lock that can field replace the standard coin/screwdriver lock of manifold housings (72400 Series).

Stk#	Description	Pkg Qty	Carton Qty	Unit
71901	Key Lock for Manifold Housing Door	1		ea.

PEX Tubing Compression Couplings 69000 Series

Solid brass fittings couples PEX tubing to PEX tubing.

For complete specifications, see submittal SUB69000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
69005	½" × ½" PEX Comp. Coupling	1	25	ea.
69019	⅝" × ⅝" PEX Comp. Coupling	1	25	ea.
69022	¾" × ¾" PEX Comp. Coupling	1	25	ea.

PEX Compression to MNPT Adapters 68000 Series

Solid brass fittings adapts PEX tubing to male NPT thread.

Note: When used with PEX tubing there is a risk of thermal expansion / contraction due to temperature fluctuation. It is recommended that a swing joint or expansion loop is installed at the high temp (supply) end of the tubing.

For complete specifications, see submittal SUB68000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
68019	⅝" PEX Comp. × ¾" MNPT Adapter	1	25	ea.

PEX Compression to Female Sweat Adapters 67100 Series

Solid brass fittings adapts PEX tubing to female copper pipe.

For complete specifications, see submittal SUB67000S.

Stk#	Description	Pkg Qty	Carton Qty	Unit
67119	⅝" PEX Comp. × ¾" F/Sweat Adapter	1	25	ea.

PEX Compression to Male Sweat Adapters 67000 Series

Solid brass fittings adapts PEX tubing to male copper pipe.

For complete specifications, see submittal SUB67000S.

Stk#	Description	Pkg Qty	Carton Qty	Unit
67019	⅝" PEX Comp. × ¾" M/Sweat Adapter	1	25	ea.

Note: *For ½", ¾", 1", 1-¼", and 1-½" PEX, "Press System" or "Expansion System" fittings can be used, see the appropriate section.*

Compact 3-Way Mixing Valves
63700V Series

Three-way mixing valve for fluid temperature control in heating and cooling systems, and can be used in diverting or mixing applications. Bronze valve body with brass nipples, protective cap, and stainless spindle with double O-ring seal. Threads are compatible with actuators (#56201, #56231, #56121; page 58) and thermostatic heads (#57094).

¾" Cv = 5.1 (Kv = 4.4)
1" Cv = 6.6 (Kv = 5.7)

For complete specifications, see submittal SUB63700V.

Stk#	Description	Pkg Qty	Carton Qty	Unit
63720V	¾" Compact 3-Way Mixing Valve	1		ea.
63725V	1" Compact 3-Way Mixing Valve	1		ea.

Straight Zone / Injection / Radiator Valves
62000V Series

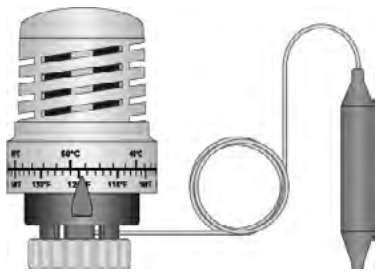
Provides on/off or modulated flow control for baseboard, fan coils, manifolds, injection controls, or miscellaneous supplemental heating units (e.g. towel warmers).

Threads are compatible with actuators (#56201, #56231, #56121; page 58), wireless actuator (#56401; page 62), and thermostatic heads (#57094).

#62016V – ½" Cv = 2.1 (Kv = 1.8)
#62020V – ¾" Cv = 3.2 (Kv = 2.8)
#62025V – 1" Cv = 4.1 (Kv = 3.5)
#62030V – 1-¼" Cv = 4.8 (Kv = 4.2)

For complete specifications, see submittal SUB62000V.

Stk#	Description	Pkg Qty	Carton Qty	Unit
62016V	Straight Zone Valve ½" NPT	1		ea.
62020V	Straight Zone Valve ¾" NPT	1		ea.
62025V	Straight Zone Valve 1" NPT	1		ea.
62030V	Straight Zone Valve 1-¼" NPT	1		ea.



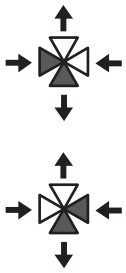
Thermostatic Head c/w Capillary
Stk# 57094

Thermostatic actuator with remote copper sensor used as a setpoint (injection) control for HeatLink® zone/injection valves. Operation is based on a sensitive element seated under the housing and connected to the remote sensor via a liquid-filled capillary. The setpoint is set by rotating the adjustment knob. The actuator adjusts the flow through the valve on which it is mounted, based on the difference between the sensor temperature and setpoint.

Temperature adjustment range: 68-158°F (20-70°C). The temperature adjustment range can be limited using stop clips.

For complete specifications, see submittal SUB57094.

Stk#	Description	Pkg Qty	Carton Qty	Unit
57094	Thermostatic Head c/w Capillary (68°F-158°F)	1	5	ea.



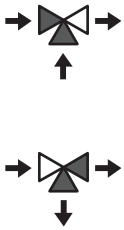
4-Way FNPT Mixing Valves
64000 Series

This unit mixes high temperature boiler water with heating return water to create a supply water temperature. It has the option of manual operation, or it can be fitted with a Mixing Valve Motor for 1" to 2" FNPT Valves 3-Point Floating (#58131) or Mixing Valve Motor for 1" to 2" FNPT Valves DDC (#58132) for fully automatic operation.

1" Cv = 11.7 (Kvs = 10)
1-¼" Cv = 18.7 (Kvs = 16)
1-½" Cv = 29.3 (Kvs = 25)
2" Cv = 46.8 (Kvs = 40)

For complete specifications, see submittal SUB64001.

Stk#	Description	Pkg Qty	Carton Qty	Unit
64026	1" × 4-Way FNPT Mixing Valve	1		ea.
64031	1-¼" × 4-Way FNPT Mixing Valve	1		ea.
64041	1-½" × 4-Way FNPT Mixing Valve	1		ea.
64051	2" × 4-Way FNPT Mixing Valve	1		ea.



3-Way FNPT Mixing / Diverting Valves
63500 Series

This unit mixes high temperature boiler water with heating return water to create a supply water temperature. It has the option of manual operation, or it can be fitted with a Mixing Valve Motor for 1" to 2" FNPT Valves 3-Point Floating (#58131) or Mixing Valve Motor for 1" to 2" FNPT Valves DDC (#58132) for fully automatic operation.

1" Cv = 11.7 (Kvs = 10)
1-¼" Cv = 18.7 (Kvs = 16)
1-½" Cv = 29.3 (Kvs = 25)
2" Cv = 46.8 (Kvs = 40)

For complete specifications, see submittal SUB63501.

Stk#	Description	Pkg Qty	Carton Qty	Unit
63026	1" × 3-Way FNPT Mixing / Diverting Valve	1		ea.
63539	1-¼" × 3-Way FNPT Mixing / Diverting Valve	1		ea.
63541	1-½" × 3-Way FNPT Mixing / Diverting Valve	1		ea.
63551	2" × 3-Way FNPT Mixing / Diverting Valve	1		ea.

Mixing Valve Motors for 1" to 2" Rotary NPT Valves
Stk# 58131 & 58132

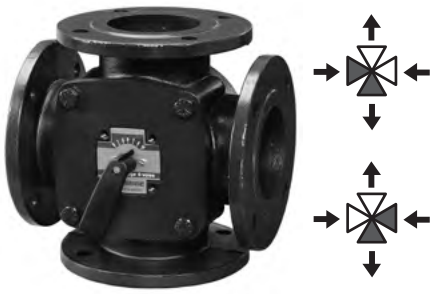
Used to automatically operate the 4-way or 3-way mixing valve. For use with 4-way FNPT mixing valves (#64026, #64031, #64041, #64051) and 3-way FNPT mixing / diverting valves (#63026, #63539, #63541, #63551).

#58131 motor is floating 3-point action mixing valve motor.
24 Vac 50/60 Hz 2 VA

#58132 motor is DDC mixing valve motor.
24 Vac/dc 50/60 Hz 4 VA

For complete specifications, see submittal SUB58131 or SUB58132.

Stk#	Description	Pkg Qty	Carton Qty	Unit
58131	Mixing Valve Motor for 1" to 2" FNPT Valves 3-Point Floating	1		ea.
58132	Mixing Valve Motor for 1" to 2" FNPT Valves DDC	1		ea.



4-Way Flange Mixing Valves 64100 Series

This unit mixes high temperature boiler water with heating return water to create a supply water temperature. It has the option of manual operation, or it can be fitted with a Mixing Valve Motor for 2" to 4" Flange Valves 3-Point Floating (#58200) or Mixing Valve Motor for 2" to 4" Flange Valves DDC (#58300) for fully automatic operation. Flanges are DIN compatible.

2" Cv = 69.4 (Kvs = 60)
2-½" Cv = 104.0 (Kvs = 90)
3" Cv = 173.4 (Kvs = 150)
4" Cv = 260.1 (Kvs = 225)

For complete specifications, see submittal SUB64101.

Stk#	Description	Pkg Qty	Carton Qty	Unit
64164	2" × 4-Way Flange Mixing Valve	1		ea.
64166	2-½" × 4-Way Flange Mixing Valve	1		ea.
64181	3" × 4-Way Flange Mixing Valve	1		ea.
65000	4" × 4-Way Flange Mixing Valve	1		ea.

DIN Flanges and Gaskets for 4-Way Flange Mixing Valves 64100F & 64100G Series

Four flanges and four gaskets are required for each 4-way flange mixing valve.

For complete specifications, see submittal SUB64100F.

Stk#	Description	Pkg Qty	Carton Qty	Unit
64164F	2" DIN Flange	1		ea.
64166F	2-½" DIN Flange	1		ea.
64181F	3" DIN Flange	1		ea.
65000F	4" DIN Flange	1		ea.
64164G	2" Gasket for DIN Flange	1		ea.
64166G	2-½" Gasket for DIN Flange	1		ea.
64181G	3" Gasket for DIN Flange	1		ea.
65000G	4" Gasket for DIN Flange	1		ea.

Mixing Valve Motors for 2" to 4" Flange Mixing Valves Stk# 58200 & 58300

Used to automatically operate the 4-way flange mixing valve. For use with flanged 2" to 4" mixing valves (#64164, #64166, #64181, #65000).

#58200 motor is floating 3-point action mixing valve motor.
24 Vac 50/60 Hz 2 VA

#58300 motor is DDC mixing valve motor.
24 Vac/dc 50/60 Hz 5 VA

For complete specifications, see submittal SUB58200 or SUB58300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
58200	Mixing Valve Motor for 2" to 4" Flange Mixing Valves 3-Point Floating	1		ea.
58300	Mixing Valve Motor for 2" to 4" Flange Mixing Valves DDC	1		ea.

Pressure Activated Bypass Valves
60000V Series

This valve prevents a steep rise of the pump head and maintains flow at a stable rate. Also ensures only required amount of circulating water is used for hydronic systems. The valves can be adjusted to any point between 2 and 17 ft H_2O (50 and 500 mbar).

Flow ranges:

- ¾" = 0 - 8.7 US gpm (0 - 1976 L/h)
- 1" = 0 - 13.5 US gpm (0 - 3066 L/h)
- 1-¼" = 13.5 - 26.9 US gpm (3066 - 6110 L/h)

For complete specifications, see submittal SUB60000V.

Stk#	Description	Pkg Qty	Carton Qty	Unit
60020V	Pressure Activated Bypass Valve ¾"	1		ea.
60025V	Pressure Activated Bypass Valve 1"	1		ea.
60040V	Pressure Activated Bypass Valve 1-¼"	1		ea.

Actuators c/w End Switch
56230 Series

These motors allow for additional room temperature control in conjunction with a room thermostat by mounting on a TwistSeal® supply manifold module (56230), Stainless Steel Manifold (56231), HeatLink® 62000V & 63700V series zone valves (56231), or TwistSeal® Multiport Manifold (56232). Comes complete with end switch to allow pump and/or boiler switching.

For complete specifications, see submittal SUB56230.

Stk#	Description	Pkg Qty	Carton Qty	Unit
56230	HeatLink® TwistSeal® Manifold Actuator c/w End Switch	1	100	ea.
56231	HeatLink® Valve & SS Manifold Actuator c/w End Switch	1	100	ea.
56232	HeatLink® Multiport Manifold Actuator c/w End Switch	1	100	ea.

Actuators
56200 Series

These actuators allow for additional room temperature control in conjunction with a room thermostat by mounting on a TwistSeal® supply manifold module (56200), Stainless Steel Manifold (56201), HeatLink® 62000V & 63700V series zone valves (56201), or TwistSeal® Multiport Manifold (56202). Includes a heat demand LED indicator.

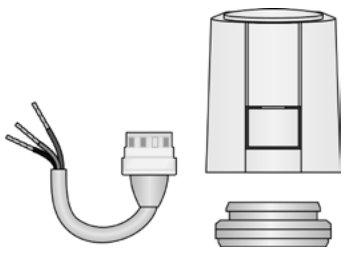
For complete specifications, see submittal SUB56200.

Stk#	Description	Pkg Qty	Carton Qty	Unit
56200	HeatLink® TwistSeal® Manifold Actuator with LED	1	100	ea.
56201	HeatLink® Valve & SS Manifold Actuator with LED	1	100	ea.
56202	HeatLink® Multiport Manifold Actuator with LED	1	100	ea.

How to tell the 562x0 and 562x1 actuators apart

Actuator	LED	End Switch	Female Thread	Center Pin	Mounts on
56200	Yes	No	Fine	Yes	TwistSeal® 78200 & 78400
56201	Yes	No	Coarse	No	Valves & SS manifolds
56230	No	Yes	Fine	Yes	TwistSeal® 78200 & 78400
56231	No	Yes	Coarse	No	Valves & SS manifolds

56200 / 56230 56201 / 56231



DDC Actuator
Stk# 56121

These actuators allow for additional room temperature control when used in conjunction with a direct digital control system by mounting on a Stainless Steel Manifold, or HeatLink® 62000V & 63700V series zone valves.

For complete specifications, see submittal SUB56121.

Stk#	Description	Pkg Qty	Carton Qty	Unit
56121	HeatLink® DDC Actuator for Manifolds and Valves	1	100	ea.

Wireless Internet Gateway
Stk# 43301

The Wireless Internet Gateway is the heart of a HeatLink Smart System.

The Gateway coordinates the ZigBee HA wireless protocol that the Smart System devices use to interact, and connects to the building's Internet router to create a secure path to the HeatLink app.

Unlike some connected home systems, the Gateway is the only device that needs to be connected to the Internet, so it is quick to setup and simple to manage and grow the Smart System with more devices as required.

You can connect up to 200 devices to one gateway.

Includes USB power adapter, USB power cable, and ethernet cable.

120 Vac 60 Hz NEMA 1 (Type A) plug.

For complete specifications, see submittal SUB43301.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43301	Wireless Internet Gateway	1	16	ea.

HeatLink® Wireless Digital Thermostat
Stk# 46801W

The HeatLink Wireless Digital Thermostat delivers an easy to install solution for heating control when connected to a StatLink® wireless module, wireless valve actuator, or wireless relay. Place anywhere capability, not just where the wires can reach.

Features:

- Clear and intuitive LCD display.
- Stylish contemporary design.
- Full local control.
- Wireless installation using ZigBee protocol.
- Pulse width modulation.
- Fully programmable with both temperature and scheduling control.
- Pre-programmed pre-set modes including vacation, party, frost, and manual override.
- Battery operated for quick and trouble-free wireless installation.
- Valve protection function exercises the valve(s) one a week.
- Optional 10K external sensor.

Includes 4× AAA alkaline batteries and mounting screws.

For complete specifications, see submittal SUB46801.

Stk#	Description	Pkg Qty	Carton Qty	Unit
46801W	HeatLink® Wireless Digital Thermostat	1	40	ea.

HeatLink® SMART SYSTEM

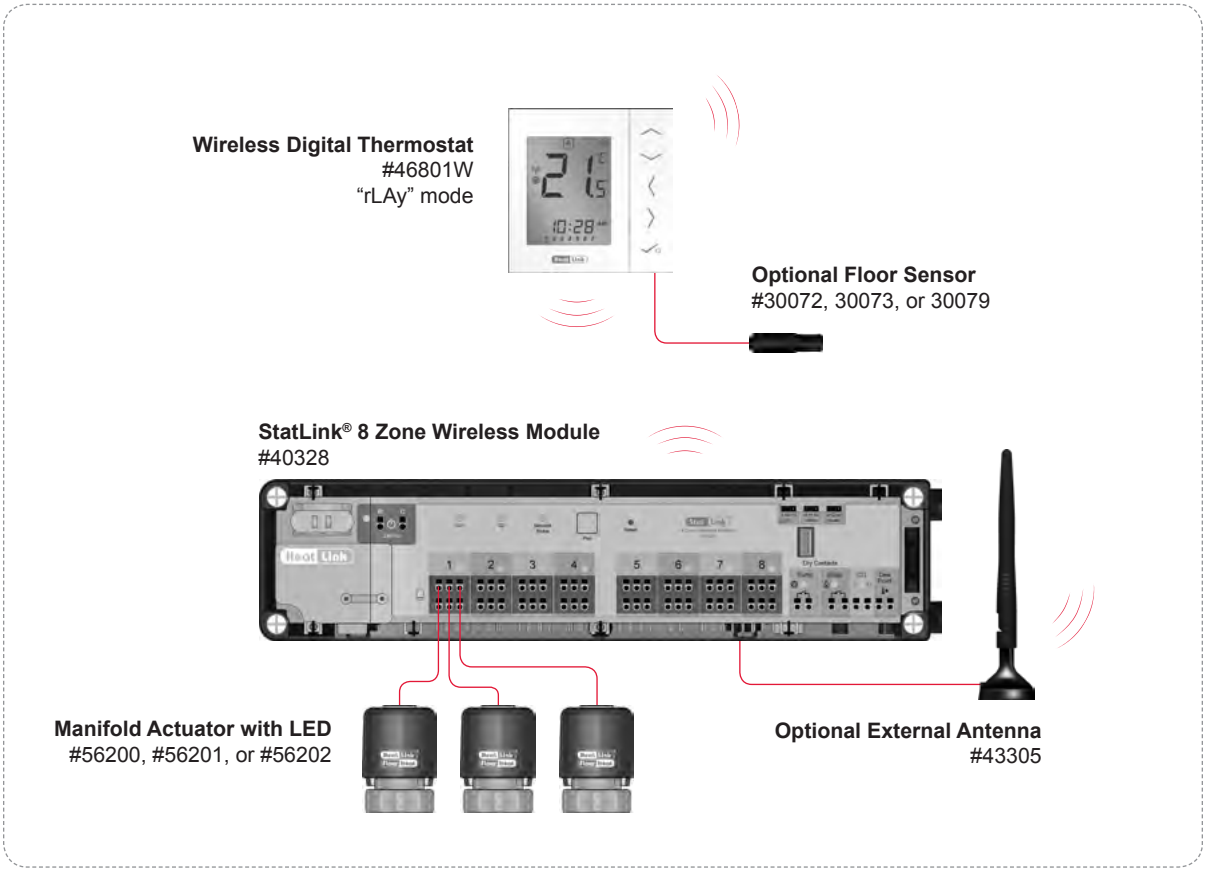
Products in the HeatLink® Smart System line include thermostats, modules, actuators and relays to wirelessly control a heating system. The addition of smart plugs and sensors expand the system into day to day life. It all begins with the heart of the system, the Wireless Internet Gateway. The Gateway coordinates the ZigBee HA wireless protocol that the Smart System devices use to interact, and connects to the building's Internet router to create a secure path to the HeatLink® Smart System app. Then the user can quickly add and operate any of the products from the HeatLink® Smart System line.

HeatLink® Smart System app

Features & Benefits:

- Wireless communication. Save the time and cost of running wires.
- Control your system from anywhere. User friendly Web, Android and iOS apps available.
- The app includes customizable schedules and rules.
- System devices can be added, deleted, or configured quickly and easily using the app.
- Compatibility with other third party devices and Amazon Alexa.
- The system can be setup without internet access (offline). When internet access is available the system can then be app enabled (online).

Radiant floor heating with manifold

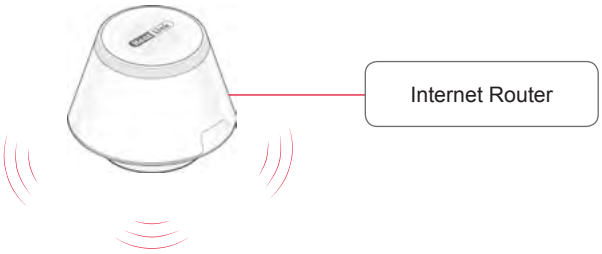


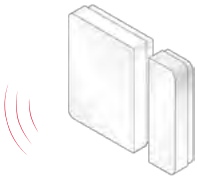
Product Compatibility

Item	Stk#	Co-ordinator #43306	Gateway - Offline #43301	Gateway - Online #43301
HeatLink® Smart System App				•
HeatLink® Wireless Digital Thermostat	46801W	•	•	•
StatLink® 8 Zone Wireless Module	40328	•	•	•
Wireless Valve Actuator	56401	•	•	•
Wireless Relay	43302	•	•	•
Wireless Smart Plug / Repeater	43304			•
Door/Window Sensor	43303			•
Repeater	43307	•	•	•
Water Leak Sensor	43310			•
Inline Shutoff Valve	43311			•

Wireless Internet Gateway
#43301

The heart of a HeatLink Smart System.



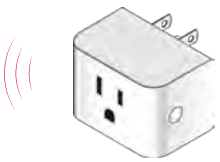


Door/Window Sensor
#43303

Detects when doors and windows have been opened or closed.

Trigger other devices to react using smart rules or have notifications sent to you.

E.g. turn a lamp on when a door opens, or turn down a thermostat if a window is left open.



Wireless Smart Plug / Repeater
#43304

Create schedules or rules to automatically turn devices on or off.

Monitor energy consumption.

E.g. towel warmer, hair iron, lamp, space heater, air conditioner, or slow cooker.

Radiant floor heating with zone valve or baseboard / radiator heating

Wireless Digital Thermostat
#46801W
"rAd" mode

Wireless Valve Actuator
#56401
up to 6 per thermostat

Heating for an individual zone

Wireless Digital Thermostat
#46801W
"rEC2" mode

Wireless Relay
#43302
"RX2" mode

Motorized Valve, Thermal Actuator, Fan Coil, or Pump

Wireless Relay
#43302
"RX1" mode

Heat Source — Pump

StatLink® 8 Zone Wireless Module
Stk# 40328

The StatLink Wireless Module for eight-zone radiant floor heating with wireless communication. Zones are controlled by Wireless Digital Thermostats.

Features:

- Can be used with NO or NC thermal actuators.
- Terminals for three actuators per zone.
- Pump dry contact 3 min on/off delay.
- Boiler dry contact 3 min on delay and 0 or 15 min off delay.
- Contacts for heating/cooling changeover, and humidity sensor.
- Plug-in connections.
- LED status indication.
- Strain relief fittings.
- USB plug to provide power to a Co-ordinator
- Optional external antenna.

Includes 13 ¾" (35 cm) DIN rail and mounting screws.

24 Vac 60 Hz

For complete specifications, see submittal SUB40328.

Stk#	Description	Pkg Qty	Carton Qty	Unit
40328	StatLink® 8 Zone Wireless Module	1	16	ea.

Wireless Valve Actuator
Stk# 56401

The Wireless Valve Actuator replaces the traditional wax element TRV actuator with a smart electrical device to open and close a zone or radiator valve.

A Wireless Digital Thermostat controls the operation and is remote from the radiator so it monitors the actual ambient room temperature to ensure optimum heating accuracy.

A single thermostat can control up to six actuators in the same zone to maintain the desired room temperature and increase energy efficiency.

Features & benefits:

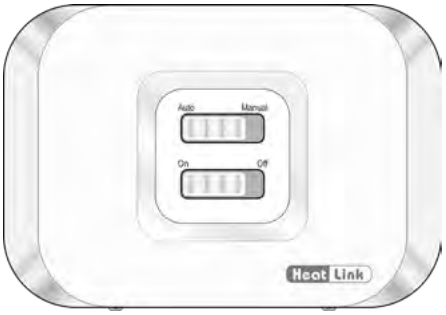
- Temperature is monitored by the room thermostat, not the valve, for optimum accuracy, efficiency and comfort.
- Modulates independently to find correct temperature and maintain efficiency using one of three control modes: On/Off, Auto, or Learning.
- Fits most standard zone or radiator valves with supplied adapter.
- Fail safe mode (uses its internal sensor and fixed setpoint of 15°C to control the temperature when signal is lost, or opens 25% when battery is low).
- Frost protection (if the valve has been manually closed, the thermostat will automatically maintain the frost protection setpoint)
- Valve protection (will exercise a few seconds after 14 days of inactivity).
- Manual override function.

Includes 2× AA alkaline batteries and RA valve adapter.

Compatible with 620xxV series zone/radiator valves.
Not compatible with TwistSeal or stainless steel manifolds.

For complete specifications, see submittal SUB56401.

Stk#	Description	Pkg Qty	Carton Qty	Unit
56401	Wireless Valve Actuator	1	40	ea.



Wireless Relay
Stk# 43302

The Wireless Relay receives wireless signals to switch on or off a 24 Vac contact. It has an internal switch to select one of two modes:

RX1 mode - The unit is wired to a boiler or heat source to switch it on or off using the signals it receives from Wireless Modules, Wireless Digital Thermostats used with Wireless Valve Actuators, as well as a Wireless Relay in RX2 mode.

RX2 mode - Switching of the unit will be controlled by a paired Wireless Digital Thermostat to activate a pump or zone valve.

Only one unit in RX1 mode and one unit in RX2 mode can be used as part of a system.

Features & benefits:

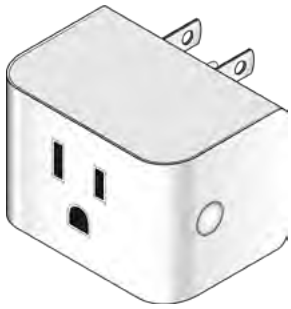
- Manual override function.
- NO contact output, max 24 Vac, 16(5)A

24 Vac 60 Hz.

Includes mounting screws.

For complete specifications, see submittal SUB43302.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43302	Wireless Relay	1	20	ea.



Wireless Smart Plug / Repeater
Stk# 43304

The Wireless Smart Plug / Repeater is small, yet powerful enough to provide simple on/off power control of devices using up to 15 A.

Its small size not only keeps the other outlet of a standard duplex receptacle clear, it also allows the use of a second Smart Plug.

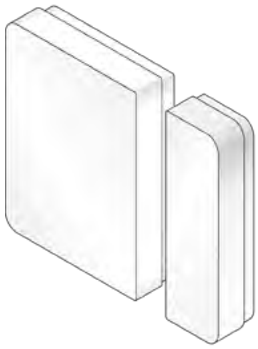
Works with the Smart System App to allow smartphones, tablets, or PCs to turn on and off devices from anywhere. Create schedules or OneTouch™ rules to automatically turn devices on or off.

Features:

- Energy consumption measurement.
- Up to 15 Amp resistive load switching.
- Protocol repeater to extend the wireless network.

For complete specifications, see submittal SUB43304.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43304	Wireless Smart Plug / Repeater	1	48	ea.



Door/Window Sensor
Stk# 43303

The Door / Window Sensor is a simple device that connects wirelessly with the Gateway as part of the Smart System.

The sensor sits across both sides of the opening of a door or window and when the contact is closed or opened, a signal is sent wirelessly to the Gateway. User programmed rules easily created in the Smart System app then define what should be done in response and the Gateway wirelessly controls the appropriate device.

By detecting when doors and windows have been opened or closed, smart rules can be triggered to control other devices to save energy, improve efficiency, or convenience.

Features & benefits:

- Monitor door/window access from anywhere using a Smartphone, Tablet, or PC via the app.
- Optimize heating/cooling efficiency by controlling your thermostats to react when doors or windows are opened.
- Program your system to remind you if doors or windows are left open when you leave the home.
- Anti-tamper switch will notify you of tampering.

Includes 1× CR3032 3V Lithium battery and mounting kit.

For complete specifications, see submittal SUB43303.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43303	Door/Window Sensor	1	60	ea.

External Antenna
Stk# 43305

The External Antenna improves the performance of the StatLink® 8 Zone Wireless Module to either overcome radio shadows or extend the range.

Features & benefits:

- Minimize cost of additional repeaters and shorten installation time
- Quick and easy to install
- Magnetic mount.

Cable length: 39" (1 m)

For complete specifications, see submittal SUB43305.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43305	External Antenna	1	100	ea.

Water Leak Sensor
Stk# 43310

The Water Leak Sensor detects the presence of water on a surface or across remote leads. This sensor may be used on horizontal surfaces with low overhead clearance, narrow vertical spaces with the wall mounting bracket (shown), or in difficult locations using the remote leads (not shown). The Water Leak Sensor connects wirelessly with a Gateway.

Features and benefits:

- When used in conjunction with a Inline Shutoff Valve, costly water damage can be avoided by shutting off the water supply.
- Automated leak detection.
- Monitoring from anywhere using a Smartphone, Tablet, or PC via the app.
- Easy to install.
- Waterproof.
- Battery Operated.

Includes 1× CR2 3V Lithium battery, wall mounting bracket, mounting kit, and 78" (2 m) remote leads.

For complete specifications, see submittal SUB43310.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43310	Water Leak Sensor	1		ea.

Inline Shutoff Valve
Stk# 43311

The Inline Shutoff Valve controls water supply as part of a HeatLink Smart System. This inline valve can communicate with one or more Water Leak Sensors to automatically shut off the water supply in the event of a water leak. The Inline Shutoff Valve connects wirelessly with a Gateway.

Features and benefits:

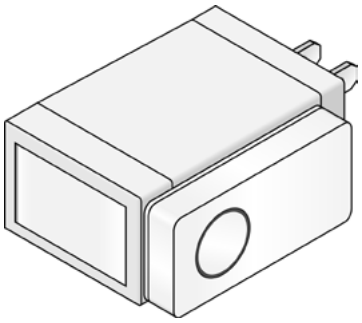
- When used in conjunction with one or more Water Leak Sensors, costly water damage can be avoided by shutting off the water supply.
- Automated water flow control.
- Monitoring from anywhere using a Smartphone, Tablet, or PC via the app.
- No Lead Brass valve.
- ¾" NPT female pipe connections.
- LED status indicator.
- 120 Vac – 60 Hz.
- Local manual override.

Includes AC adapter and cable clips.

For complete specifications, see submittal SUB43311.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43311	Inline Shutoff Valve	1		ea.

Co-ordinator
Stk# 43306



The Co-ordinator is a simple USB powered device that coordinates Smart System devices across the Zigbee network.

It's a cost effective alternative to a Wireless Internet Gateway for systems *where remote monitoring and control are not required*.

The Co-ordinator can handle up to 30 Wireless Thermostats to coordinate up to 90 Wireless Valve Actuators or up to nine (9) StatLink® 8 Zone Wireless Modules.

When more than 32 battery powered devices are used, #43307 Repeaters may be required depending on which Smart System AC powered devices are on the network (#40328 or #43302). Each AC powered device increases the system capacity for battery operated devices by 32.

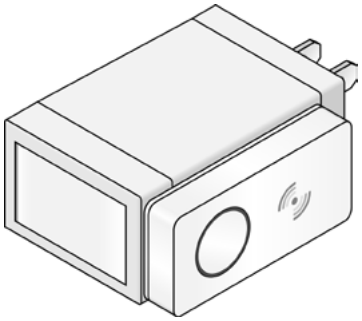
Includes USB AC adapter.

Note: Not compatible with the HeatLink Smart System app.

For complete specifications, see submittal SUB43306.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43306	Co-ordinator	1	60	ea.

Repeater
Stk# 43307



The Repeater can be used to boost the signal or extend the network when required, for example, areas with numerous concrete obstructions or for extended distances between devices.

When more than 32 battery powered devices are used, additional Repeaters may be required depending on which Smart System AC powered devices are on the network.

Features & Benefits

- Extends the range of network in areas with obstructions or between extended distances.
- Increases the capacity of battery powered devices on the ZigBee network by 32.

Includes USB AC adapter.

For complete specifications, see submittal SUB43307.

Stk#	Description	Pkg Qty	Carton Qty	Unit
43307	Repeater	1	60	ea.

Plug-in Transformers
PLINTR Series

24 Vac plug-in transformers for use with panels or low voltage electronics.

For complete specifications, see submittal SUBPLINTR.

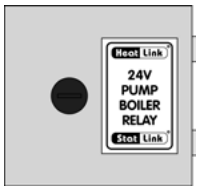
Stk#	Description	Pkg Qty	Carton Qty	Unit
PLINTR40VA	24Vac 40VA Plug-In Transformer for Panels	1		ea.

HeatLink® Wired Digital Timer Thermostat
Stk# 46645

This HeatLink Wired Digital Timer Thermostat is a stylish and accurate 24V digital display room thermostat. This attractive, modern thermostat has been specifically designed to be used for radiant floor heating applications. With silent switching, Triac technology, pulse width modulation (PWM), a large, easy to read digital display, and fully programmable for time and heat schedules. Optional 10K external sensor.

For complete specifications, see submittal SUB46645.

Stk#	Description	Pkg Qty	Carton Qty	Unit
46645	HeatLink® Wired Digital Timer Thermostat	1	40	ea.



24Vac DPDT Pump Relay Box
Stk# 45112

Electrical enclosure complete with #45012 relay, #45032 socket, and DIN rail.

Contacts:

- 10A resistive, 7.5A inductive @ 110 Vac, ¼ hp.
- 7.5A resistive, 5.0A inductive @ 220 Vac, ⅓ hp.

For complete specifications, see submittal SUB45112.

Stk#	Description	Pkg Qty	Carton Qty	Unit
45112	HeatLink® 24Vac DPDT Pump Relay Box	1		ea.

Pump Wiring Center
41310 Series

The Pump Wiring Centers allow wired thermostats to control pumps and boilers for hydronic systems while supporting the following functions and features:

- Primary pump control.
- Priority zone support (domestic hot water).
- Purge – Priority pump continues to run for 2 minutes after end of priority call.
- Exercise – pumps turn ON for 30 sec. after 72 hours of inactivity.
- Thermostat grouping.
- ZC/ZR boiler enable support.
- XX and AUX normally open contacts support.
- Master / Slave function for up to 5 units (1 master / 4 slaves).
- LED indicators for zones and Priority status.

For complete specifications, see submittal SUB41310.

Stk#	Description	Pkg Qty	Carton Qty	Unit
41316	6 Zone Pump Wiring Center	1	4	ea.

StatLink® 8 Zone Wired Module
Stk# 40318

The StatLink® 8 Zone Wired Module is complete with all the main electrical connections for a hydronic floor heating system. This module can be mounted either on a DIN rail or directly to a wall. It connects room thermostats to their corresponding actuators.

Features:

- Can be used with NO or NC thermal actuators.
- Terminals for four actuators per zone.
- Pump dry contact 3 min on/off delay.
- Boiler dry contact 3 min on delay and 0 or 15 min off delay.
- Plug-in connections.
- LED status indication.
- Strain relief fittings.

The 8 zone wired module has a current rating of 2A; a 60VA transformer allows for 20 actuators per module to be connected with up to 4 actuators per zone.

Includes 13 ¾" (35 cm) DIN rail and mounting screws.

For complete specifications, see submittal SUB40318.

Stk#	Description	Pkg Qty	Carton Qty	Unit
40318	StatLink® 8 Zone Wired Module	1	16	ea.

Installation Track for StatLink® Modules
Stk# 44325

Allows for easy and fast installation of all control modules.

Length = 25"

For complete specifications, see submittal SUB44325.

Stk#	Description	Pkg Qty	Carton Qty	Unit
44325	StatLink® Installation Track, 25"	1		ea.

HeatLink® Compact Mixing Reset Control
Stk# 31355

The 31355 Compact Mixing Reset Control regulates the supply water temperature of an automated mixing valve in order to provide outdoor reset or setpoint operation. The 31355 provides a floating action (3-way or 4-way mixing) or a 0/2–10 Vdc (2-way injection) signal to adjust the mixing valve position. The 31355 also includes two separate night setback channels.

Outdoor sensor and 1 universal sensor are included.

24Vac 50/60 Hz 50 VA (max)

For complete specifications, see submittal SUB31355.

Stk#	Description	Pkg Qty	Carton Qty	Unit
31355	HeatLink® Compact Mixing Reset Control	1		ea.

Snow Melt Control 680-BMS BACnet
Stk# 31680

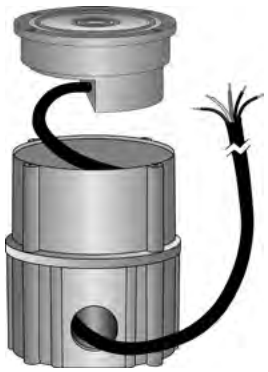
The 31680 Snow Melt Control is designed to control a single zone snow melting system. Up to two Snow/Ice Sensors (#30090) can be connected, allowing for a larger detection area and redundancy. The control automatically adjusts the mixed supply water to the snow melting system by controlling a variable speed injection pump or mixing valve. The 31680 control includes a large Liquid Crystal Display (LCD) in order to view system status and operating information.

Outdoor sensor and 3 universal sensors are included.

115 Vac 60 Hz 320 VA (max)

For complete specifications, see submittal SUB31680.

Stk#	Description	Pkg Qty	Carton Qty	Unit
31680	Snow Melt Control 680-BMS BACnet (30090,30091,Snow/Ice Sensor sold sep)	1		ea.



Snow/Ice Detector (Sensor)
Stk# 30090, 30091

This snow/ice sensor in conjunction with the 31680, activates and controls a snow melting system based on moisture (snow/ice) and slab temperature. This control is not designed as a simple detection device and will not operate properly in an unheated slab.

For complete specifications, see submittal SUB30090.

Stk#	Description	Pkg Qty	Carton Qty	Unit
30090	Snow/Ice Sensor (10K) 65 ft cable	1		ea.
30091	Snow/Ice Sensor Socket	1		ea.

Universal Sensor
Stk# 30071

Standard sensor for use as optional sensor in 30000 series controls.

For complete specifications, see submittal SUB30072.

Stk#	Description	Pkg Qty	Carton Qty	Unit
30071	Universal Sensor (10K)	1		ea.

Slab Sensor - PVC Sleeve
Stk# 30072, 30073

Sensors for use in measuring slab or ground temperatures. The 30072 and 30073 standard sensors with PVC sleeve are designed for use in soil or concrete. For use with 30000 series controls and 46000 series thermostats.

For complete specifications, see submittal SUB30072.

Stk#	Description	Pkg Qty	Carton Qty	Unit
30072	Slab Sensor (10K) PVC Sleeve 20ft Cable	1		ea.
30073	Slab Sensor (10K) PVC Sleeve 40ft Cable	1		ea.

Slab Sensor - Stainless Steel Sleeve
Stk# 30079

Sensors for use in measuring slab or ground temperatures. The 30079 sensor with stainless steel sleeve is designed for use in concrete, thin-set and grout. For use with 30000 series controls and 46000 series thermostats.

For complete specifications, see submittal SUB30072.

Stk#	Description	Pkg Qty	Carton Qty	Unit
30079	Slab Sensor (10K) SS Sleeve 10ft Cable	1		ea.

HeatLink® Snow Melt Control Package - DDC
Stk# SMCP

The ETO2SMCNTR Snow Melt Control is designed to control a one or two zone snow melting system. The snow melting system may be started manually or automatically through the use of a Driveway Sensor (#DRVWSNS-SS). The control automatically adjusts the mixed supply water to the snow melting system by controlling a DDC Mixing Valve Motor (#58132 or #58300; sold separately). The control includes a Liquid Crystal Display (LCD) in order to view system status and operating information.

Includes two 12K NTC sensors (ETF1899ASNS).
Driveway Sensor sold separately.

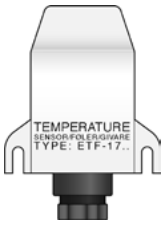
120 Vac 50/60 Hz
24 Vac 50/60 Hz (for mixing valve)

For complete specifications, see submittal SUBSMCP.

Stk#	Description	Pkg Qty	Carton Qty	Unit
SMCP	Snowmelt Control c/w ETO2 DDC and 2 Strap On Sensors	1		ea.

ETF-144/99A

ETF-1733/44/55



Sensor NTC 12K
ETF Series

Optional NTC 12K sensors for use with the ETO2SMCNTR snow melt control, SMCP, or standard Snow Melt Panels.

For complete specifications, see submittal SUBETF14499A or SUBETF17334455.

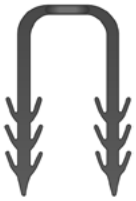
Stk#	Description	Pkg Qty	Carton Qty	Unit
ETF-144/99A	Slab Sensor (12k) PVC Sleeve 8ft Cable for ETO2SMCNTR SnowmeltController	1		ea.
ETF-1733/44/55	Optional Outdoor Sensor for SMCP & SMP Panels	1		ea.

Snow/Ice Detector (Sensor)
Stk# DRVWSNS-SS

This snow/ice sensor in conjunction with the ETO2SMCNTR snow melt control, SMCP, or standard Snow Melt Panels, activates and controls a snow melting system based on moisture (snow/ice) and slab temperature.

For complete specifications, see submittal SUBDRVWSNSSS.

Stk#	Description	Pkg Qty	Carton Qty	Unit
DRVWSNS-SS	Driveway Sensor for SMP Panels	1		ea.



Track Staples
Stk# 89010

Staples are used to fasten tubing tracking to polystyrene insulation. The hooks on the ends ensure the staple will not loosen prior to topping pour.

For complete specifications, see submittal SUB89000.

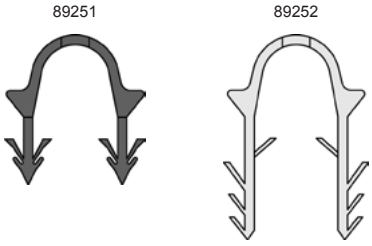
Stk#	Description	Pkg Qty	Carton Qty	Unit
89010	500 Track Staples	1	20	bag

Staples for Stand-up Stapler (old style)
89240 Series

Staples for fastening up to ½" (or 18mm O.D.) PEX tubing to polystyrene insulation. For use with Stand-up Stapler #10220 (discontinued).

For complete specifications, see submittal SUB89240.

Stk#	Description	Pkg Qty	Carton Qty	Unit
89244	300× 2-⅜" (60mm) Staples for Stand-up Stapler	1	20	box



Staples for Deluxe Staple Gun
89250 Series

Staples for fastening up to ⅝" (or 20mm O.D.) PEX tubing to polystyrene insulation. For use with HeatLink® Deluxe Staple Gun #10230 (page 123).

For complete specifications, see submittal SUB89250.

Stk#	Description	Pkg Qty	Carton Qty	Unit
89251	300× 1-½" Staples for HeatLink® Deluxe Staple Gun	1	20	box
89252	300× 2" Staples for HeatLink® Deluxe Staple Gun	1	10	box

HeatLink® Tie Straps
89100 Series

Used to fasten piping to wire mesh or rebar. 5-½" (140 mm) tie wraps (89105) are used for smaller diameter tubing. 7-½" (190 mm) tie wraps (89107) can be used for sizes up to 1".

For complete specifications, see submittal SUB89100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
89105	1000 Tie Straps - 5.5"	1	10	bag
89107	1000 Tie Straps - 7.5"	1	10	bag

Conduit Elbows
86000 Series

High impact strength moulded plastic 90° long radius elbow, designed to direct and protect heating tubing in transition area where tubing enters and exits concrete slab.

For complete specifications, see submittal SUB86000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
86005	½" Conduit 90s	1	100	ea.
86020	⅝" Conduit 90s	1	50	ea.
86022	¾" Conduit 90s	1	40	ea.
86028	1" Conduit 90s	1	50	ea.

Plastic Bend Support
86100 Series

Allows for easy bending support and removal.

For complete specifications, see submittal SUB86100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
86105	Plastic Bend Support for ⅜" and ½" Tubing	1	300	ea.
86122	Plastic Bend Support for ¾" Tubing	1	400	ea.

Aluminum Heat Transfer Plate
Stk# 87024

This plating is used to provide a direct transfer and heat distribution from the PEX piping to a wooden subfloor. They can be stapled to the underside of the subfloor in a DryBelow™ system or used above the subfloor in a DryAbove™ system.
End to end gaps between plates should be from 3" to 6" (75 to 150mm).

Plates measure 24" × 4-¼" (610 mm × 108 mm).

For complete specifications, see submittal SUB87000.

Stk#	Description	Pkg Qty	Skid Qty	Unit
87024	24" Aluminum Heat Transfer Plate for DryAbove™/DryBelow™ Systems	250	6000	ea.

EndBend™ for DryAbove™ System
Stk# 87205

The EndBend™ allows for transition on the loop ends as well as supports for supply & return piping.

For complete specifications, see submittal SUB87200.

Stk#	Description	Pkg Qty	Carton Qty	Unit
87205	EndBend™ for DryAbove™ System	25	50	ea.

SpacerClip™ for DryAbove™ System
Stk# 87305

The SpacerClip™ is placed between the heat transfer plates and holds the tubing in place. Tubing can be stepped into clip.

For complete specifications, see submittal SUB87300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
87305	SpacerClip™ for DryAbove™ System	50	500	ea.

Tubing Tracking: ⅜", ½" and ⅝"
Stk# 89000

Tracking provides even tubing spacing in 3" (75 mm) multiples and exact regulation of tubing heights. Tubing is slightly elevated to ensure the concrete can totally encase tubing. Tubing, track & ground insulation assembly stays at the bottom of the pour to best utilize “angle of radiation”; eliminates hot and cold spots on the surface.

Tubing can be snapped in using your feet; no more bending down or tying is needed.

They can be fastened to many surfaces, such as concrete or plywood subfloors, steel Q decking, and polystyrene insulation.

Tracking comes in 4 ft (1.22 m) lengths.

For complete specifications, see submittal SUB89000.

Stk#	Description	Pkg Qty	Skid Qty	Unit
89000	Tubing Tracking	400	10000	ft.

Heat Link®

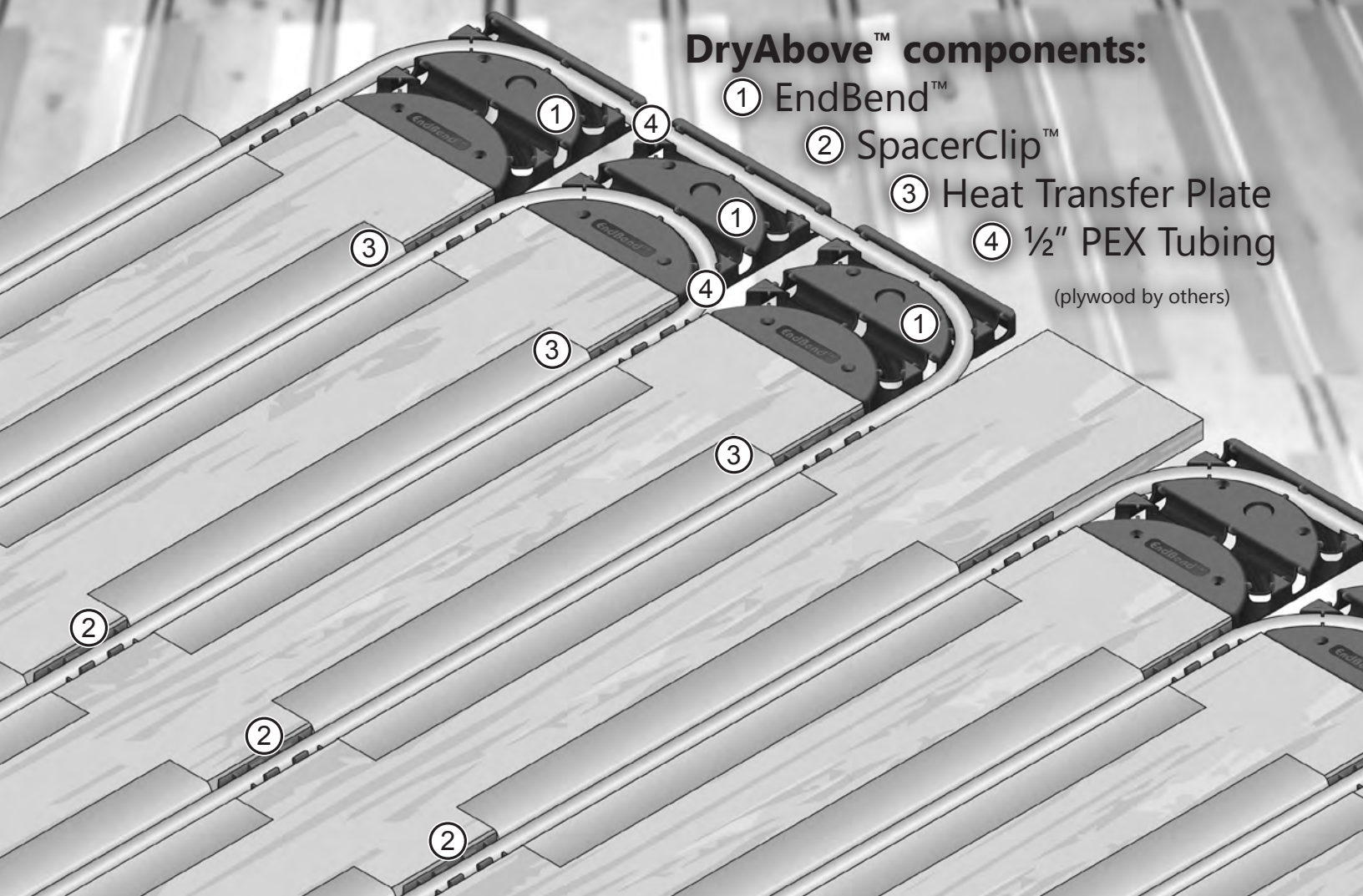
DryAbove™ System

- Dry system that eliminates the “pain in the neck” of overhead work
- No structural changes required
- Ideal for retrofits or remodeling
- Inexpensive components keep material costs low

DryAbove™ components:

1. EndBend™
2. SpacerClip™
3. Heat Transfer Plate
4. ½” PEX Tubing

(plywood by others)



Molybdate Based Corrosion Inhibitor
Stk# 01205

The Molybdate Based Corrosion Inhibitor creates a protective monomolecular film over all internal surfaces of the heating system as the water circulates. The film is an anodic coating which immediately stops corrosive attack of the metallic parts. Molybdate will not harm PEX tubing or the manifolds and it is glycol compatible. Molybdate concentration between 100-150 ppm is recommended; higher concentrations are not harmful.

The molybdate will act as a preoperational cleaner if a side stream filter is installed and double the amount of molybdate required is added. The molybdate concentration should be checked after this procedure.

The contents of this 1 L (0.26 US gal) container will treat 182 L (48 US gal) of water.

Advantages: toxicity; non-pollutant; non-staining.

For more information, see submittal SUB01205 and SDS L2803.

Stk#	Description	Pkg Qty	Carton Qty	Unit
01205	1L Corrosion Inhibitor (Molybdate Based)	1	12	bottle

Purging Compound (Pre & Post Operational Cleaner)
Stk# 01311

Purging compound for boilers and closed loop systems. Used as a preoperational cleaner and a post start-up cleaner. After refilling system with fresh water, ensure either a glycol or inhibitor is immediately added.

The contents of this 1 L (0.26 US gal) container will treat 33 L (9 US gal) of water.

For more information, see SDS L2831.

Stk#	Description	Pkg Qty	Carton Qty	Unit
01311	1L Purging Compound (Pre & Post Operational Cleaner)	1	12	bottle

HeatLink Preventative Maintenance Water Analysis
Stk# 00412

Water analysis service provided by HeatLink that tests a water sample for:

- Glycol
- Nitrite Inhibitor
- Molybdate Inhibitor
- pH Level
- Conductivity
- Hardness

A water sample of 400-500 mL (13.5-17 fl. oz.) in a clean plastic bottle is required.

Stk#	Description	Pkg Qty	Carton Qty	Unit
00412	HeatLink Preventative Maintenance Water Analysis (requires wsb2)	1		ea.

Making the Complex Simple

HeatLink has found a way to make the complex more simple. With the Mechanical Room in a Box, some of the most common components of a radiant hydronic installation (mainly the wiring, pumps, and mixing valves), are installed on a panel with a plug, and boxed with a steel cover. This pre-wired, pre-fabricated, pre-engineered box is a time and money saving way to add control and consistency to an installation. Plug it in, and presto...you've got play!

Features

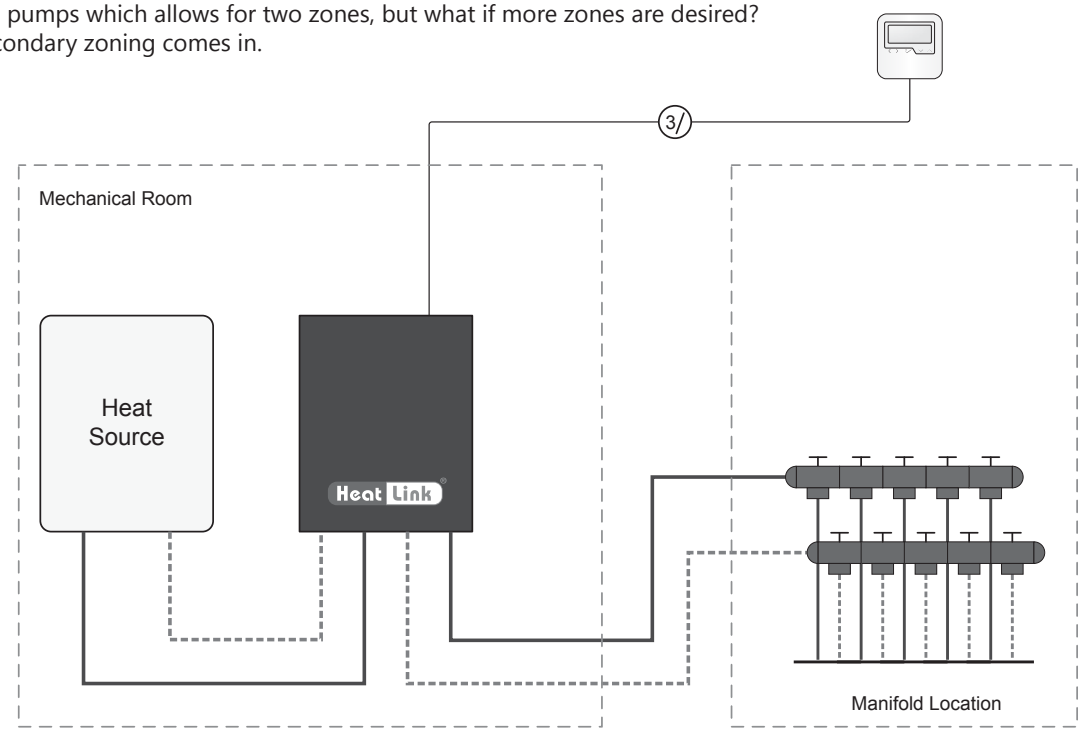
- Versatile solutions for simple or complex hydronic heating applications.
- Pre-fabricated, pre-engineered, pre-wired...pre-cise!
- High quality, reliable and standardized construction.
- Modular approach for ease of installation.
- Appliance-like protective steel cover; tamper-resistant.
- Closed hydronic systems can be extensively zoned.
- Solar energy sources can be seamlessly added.
- When properly piped, there is less component cycling...and more silence.

Advantages

- Pre-engineered solutions reduce design and quotation time.
- Reliable (ETL listed, UL 508, CSA standard), exceeds highest quality standards, with multiple test procedures for electrical and mechanical system components.
- Eliminate on-site design and reduced risk of on-site errors.
- Known cost; fewer surprises.
- Reduced installation times; time is money!
- Trouble-free start-ups every time!
- Fewer call-backs.
- Compact and aesthetically pleasing.
- Easily serviced and replaceable.
- Covered by a single warranty.

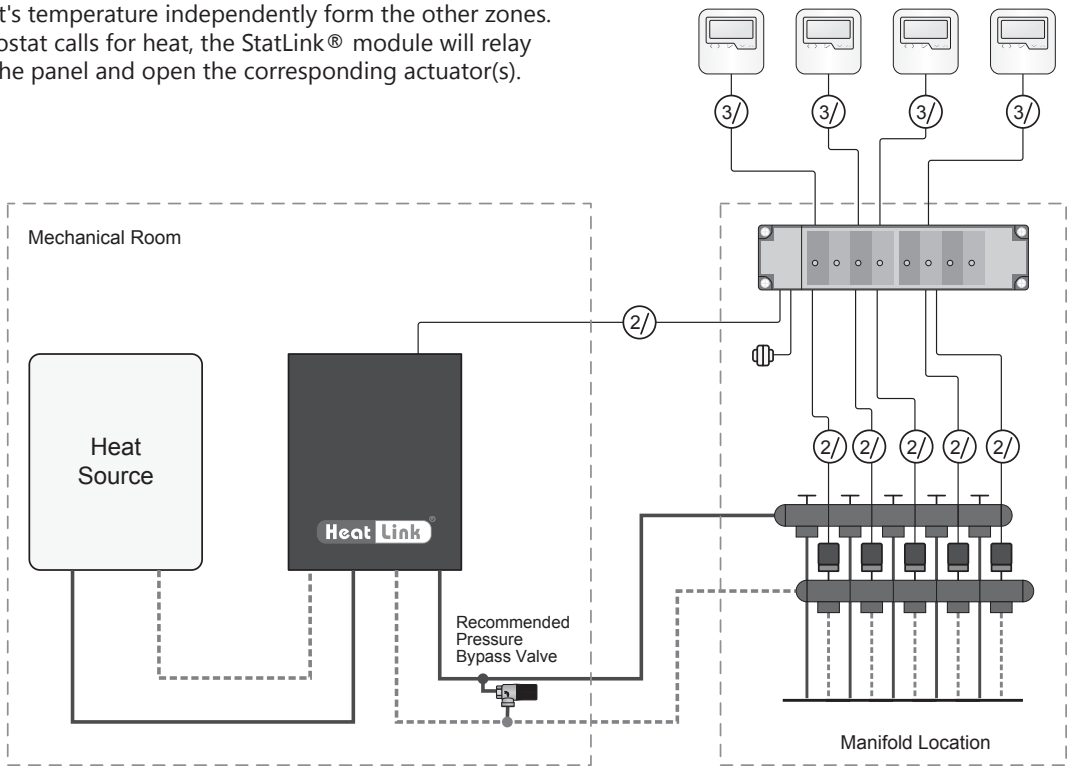
One Zone per Pump

The standard configuration of most panels is one thermostatic zone per pump circuit. This means that all areas served by the pump circuit are heated at the same time. Some panels have two pumps which allows for two zones, but what if more zones are desired? That's where secondary zoning comes in.



Secondary Zoning

The addition of a StatLink® module and manifold actuators allows for the creation of multiple zones. Each zone has it's own thermostat that can control it's temperature independently form the other zones. When any thermostat calls for heat, the StatLink® module will relay that demand to the panel and open the corresponding actuator(s).



Residential Panel Selection

These panels are intended for use in single family residences or small commercial buildings. Multiple panels can be used in multi–family residences.

To select the panel that will work best for your system installation use the tables and definitions below. For additional assistance contact our technical or product support team.

Definitions

- An open system uses a domestic hot water tank as the heat source, and cycles new water into the system.
- A closed system uses a dedicated boiler, or tankless water heater, and cycles the same water through the system.

		Application			Heat Source													
Pg#	Panel Stk#	Indirect Fired DHW	Radiant	High Temp	Hot Water Tank[1]	Tankless Water Heater	Boiler	Built-in	Open System[1]	Closed System	Zoning[2]	Heating Manifold	Heat Exchanger	Mixing[3]	Outdoor Reset	DHW Priority	24hr Timer for Potable	BTU/hr
80	ECO Series	•	•				•[4]			•	1–2					•[10]		80/100,000
81	V100 Series	•	•				•[5]			•	1–2					•[10]		80/100,000
82	CAD Series	•	•				•[6]			•	1–2					•[10]		80/100,000
83	KNIGHT Series	•	•				•[7]			•	1–2					•[10]		80/100,000
84	TFT Series	•	•				•[8]			•	1–2					•[10]		80/100,000
85	BC Series	•	•				•[9]			•	1–2					•[10]		80/100,000
86	ELBP Series		•					•		•	1							18/30/50,000
87	ELBP-TS Series		•					•		•	1	•						18/30/50,000
88	TMP040/070		•		•		•		•	•	1			•			•	40/70,000
89	TMP070Z		•		•		•		•	•	4			•			•	70,000
90	TMP070RS		•				•			•	1			•	•			70,000
91	TMP085DP		•		•		•		•	•	2			•			•	85,000
92	TMP-Multi	•	•	•			•			•	2–5			•		•		
94	TWH-P Series		•			•	•		•	•	1			•		opt	•	70,000
95	TWH-Z Series		•			•	•		•	•	4			•		opt	•	70,000
96	HEP Series		•		•	•			•	•	1		•			opt	•	25/80/95,000
97	HEP025R		•		•	•			•	•	1		•			opt		25,000
98	HEP-RT Series		•		•	•			•	•	1-2		•			opt	•	25/80,000

Notes

1. If permitted by local codes.
2. Number of zones supported by the panel. Additional zones on a closed system is possible with secondary zoning.
3. Mixing allows the panel to regulate the secondary supply water temperature. Without mixing, the supply water temperature is regulated by the heat source.
4. ECO Series panels are designed for use with Weil-McLain ECO boilers.
5. V100 Series panels are designed for use with Viessmann 100-W boilers.
6. CAD Series panels are designed for use with Lochinvar Cadet boilers.
7. KNIGHT Series panels are designed for use with Lochinvar Knight boilers.
8. TFT Series panels are designed for use with NTI Trinity Tft 60-110 boilers.
9. IBC Series panels are designed for use with IBC SL G2 boilers.
10. DHW Priority is controlled by the boiler.

ECO Boiler Panels
ECO Series

These panels are designed to work with Weil-McLain ECO boilers. The primary piping matches up to the ECO boiler system supply and return. The cool gray color of the enclosure matches the ECO boiler.

Heating sequence of operation (ECO1ZN3P):

- A heat demand from the room thermostat will send a heating demand to the boiler.
- The boiler will turn on the Primary pump and Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant and Primary pumps will stop.

Heating sequence of operation (ECO2ZN4P):

- A heat demand from either room thermostat will close its corresponding relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and appropriate Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pumps will stop and the Primary pump will continue to run for as long as the boiler control requires.

DHW sequence of operation (ECO1ZN3P & ECO2ZN4P):

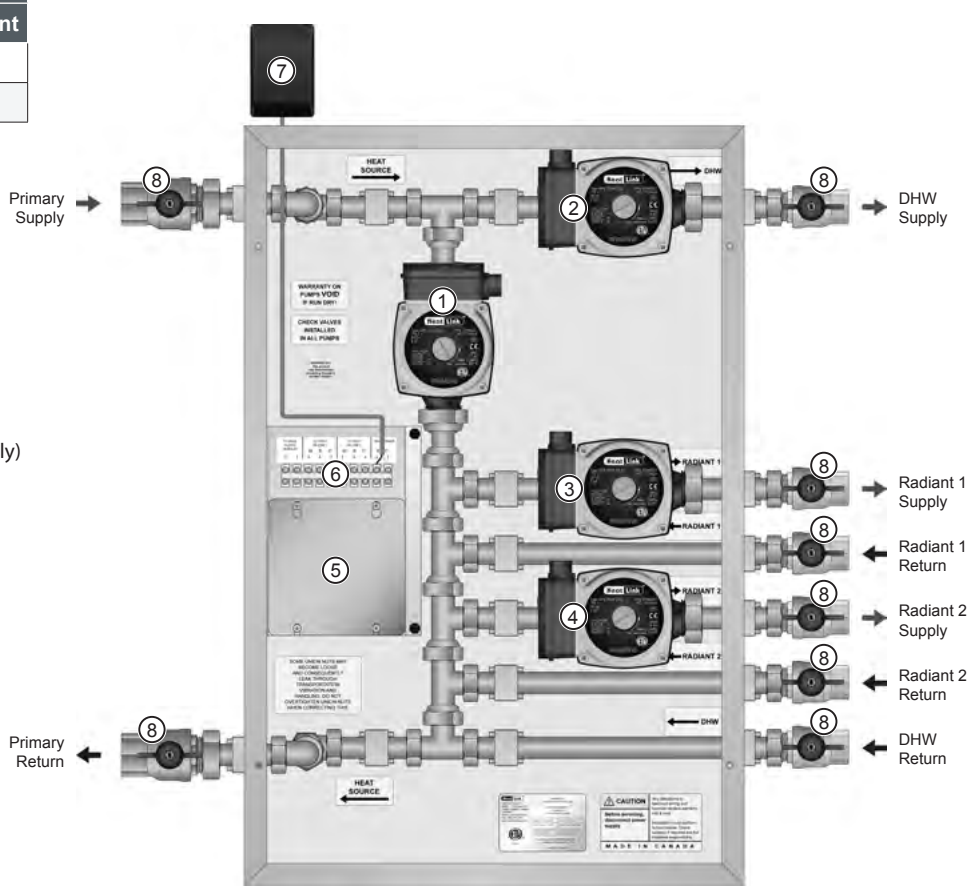
- A demand from the DHW aquastat to the boiler, the boiler will turn on the DHW pump and disable the Primary and Radiant pumps (if running) and change the supply water temp according to its settings.
- When the DHW demand is removed, the DHW pump will continue to run for as long as the boiler control requires.

For complete specifications, see submittal SUBECOxZNxP.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
ECO1ZN3P	•	•	1
ECO2ZN4P	•	•	2

Panel Components

① Primary Pump
② DHW Pump
③ Radiant 1 Pump
④ Radiant 2 Pump (ECO2ZN4P only)
⑤ Electrical Connection Box
⑥ 24V Terminal Strip (ECO2ZN4P only)
⑦ 24Vac Plug-in Transformer (ECO2ZN4P only)
⑧ Isolation Valve
☑ Panel Cover (not shown)



ECO2ZN4P

Stk#	Description	Pkg Qty	Unit
ECO1ZN3P	ECO Boiler Panel 3 Pump	1	ea.
ECO2ZN4P	ECO Boiler Panel High Capacity 4 Pump	1	ea.

V100 Boiler Panels
V100 Series

These panels are designed to work with Viessmann Vitodens 100-W boilers. The panel primary piping matches up to the Vitodens boiler system supply and return. The white color of the enclosure matches the Vitodens 100-W boiler. The V103 panel is designed to work with the Combi Boiler.

Heating sequence of operation (V101):

- A heat demand from the room thermostat will close its relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pump will stop and the Primary pump will continue to run for as long as the boiler control requires.

Heating sequence of operation (V102 & V103):

- A heat demand from either room thermostat will close its corresponding relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and appropriate Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pumps will stop and the Primary pump will continue to run for as long as the boiler control requires.

DHW sequence of operation (V101 & V102):

- A demand from the DHW aquastat will close its relay in the panel, disable the Radiant pump(s) (if running), and send a DHW demand to the boiler.
- The boiler will turn on the Primary and DHW pumps and change the supply water temp according to its settings.
- When the DHW demand is removed, the DHW pump will stop and the Primary pump will continue to run for as long as the boiler control requires.

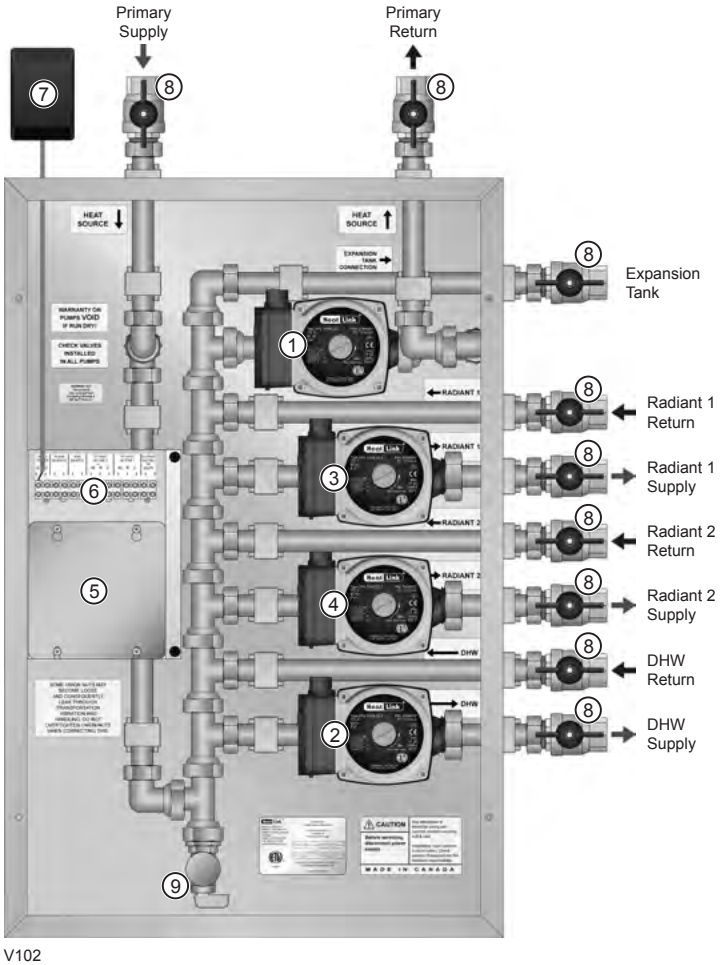
For complete specifications, see submittal SUBV100.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
V101	•	•	1
V102	•	•	2
V103			3

Panel Components

1. Primary Pump (V101 & V102)
2. DHW Pump (V101 & V102)
2. Radiant 3 Pump (V103 only)
3. Radiant 1 Pump
4. Radiant 2 Pump (V102 & V103)
5. Electrical Connection Box
6. 24V Terminal Strip
7. 24Vac Plug-in Transformer
8. Isolation Valve
9. Drain Valve

☑ Panel Cover (not shown)



V102

Stk#	Description	Pkg Qty	Unit
V101	V100 Boiler Panel 1 Htg 1 DHW	1	ea.
V102	V100 Boiler Panel 2 Htg 1 DHW	1	ea.
V103	V100 Boiler Panel 3 Htg	1	ea.

CAD Boiler Panels
CAD Series

These panels are designed to work with Lochinvar Cadet boilers. The panel primary piping matches up to the Cadet boiler system supply and return. The dark grey color of the enclosure is similar to the Cadet boilers.

Heating sequence of operation (CAD01):

- A heat demand from the room thermostat will send a heating demand to the boiler.
- The boiler will turn on the Primary pump and Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant and Primary pumps will stop.

Heating sequence of operation (CAD02):

- A heat demand from either room thermostat will close its corresponding relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and appropriate Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pumps will stop and the Primary pump will continue to run for as long as the boiler control requires.

DHW sequence of operation (CAD01 & CAD02):

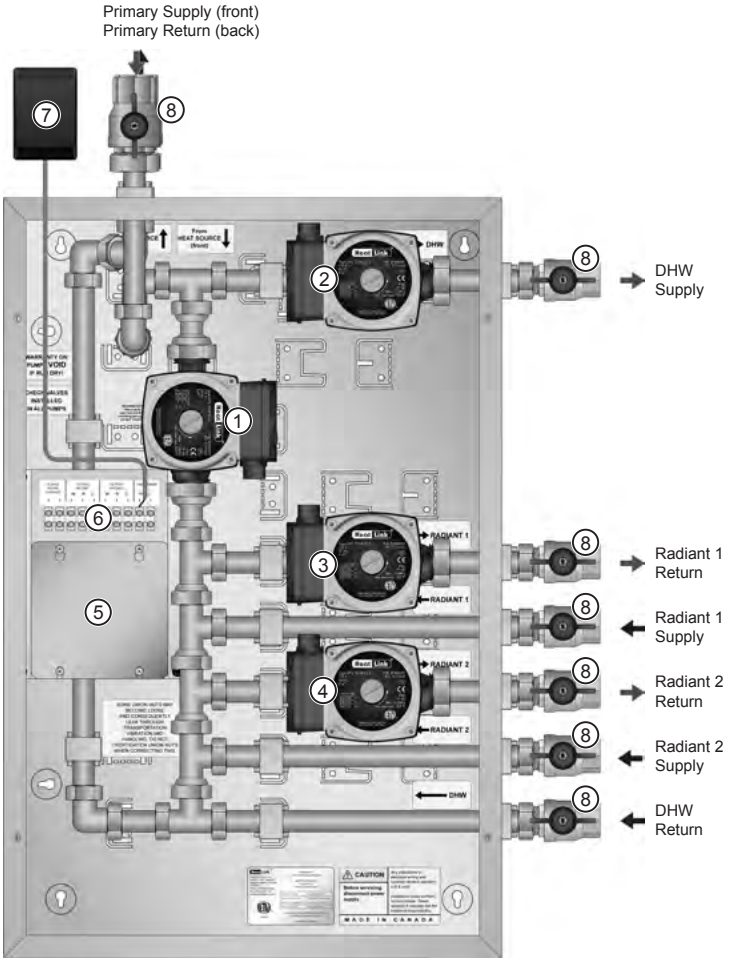
- A demand from the DHW aquastat to the boiler, the boiler will turn on the DHW pump, and turn off the Primary Pump, and the Radiant pump(s) (if running) and change the supply water temp according to its settings.
- When the DHW demand is removed, the DHW pump will continue to run for as long as the boiler control requires.

For complete specifications, see submittal SUBCAD00.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
CAD01	•	•	1
CAD02	•	•	2

Panel Components

① Primary Pump
② DHW Pump
③ Radiant 1 Pump
④ Radiant 2 Pump (CAD02 only)
⑤ Electrical Connection Box
⑥ 24V Terminal Strip (CAD02 only)
⑦ 24Vac Plug-in Transformer (CAD02 only)
⑧ Isolation Valve
☑ Panel Cover (not shown)



CAD02

Stk#	Description	Pkg Qty	Unit
CAD01	CAD Boiler Panel 3 Pump	1	ea.
CAD02	CAD Boiler Panel High Capacity 4 Pump	1	ea.

KNIGHT Boiler Panels
KNIGHT Series

These panels are designed to work with Lochinvar Knight boilers.

Heating sequence of operation (Knight01):

- A heat demand from the room thermostat will send a heating demand to the boiler.
- The boiler will turn on the Primary pump and Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant and Primary pumps will stop.

Heating sequence of operation (Knight02):

- A heat demand from either room thermostat will close its corresponding relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and appropriate Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pumps will stop and the Primary pump will continue to run for as long as the boiler control requires.

DHW sequence of operation (Knight01 & Knight 02):

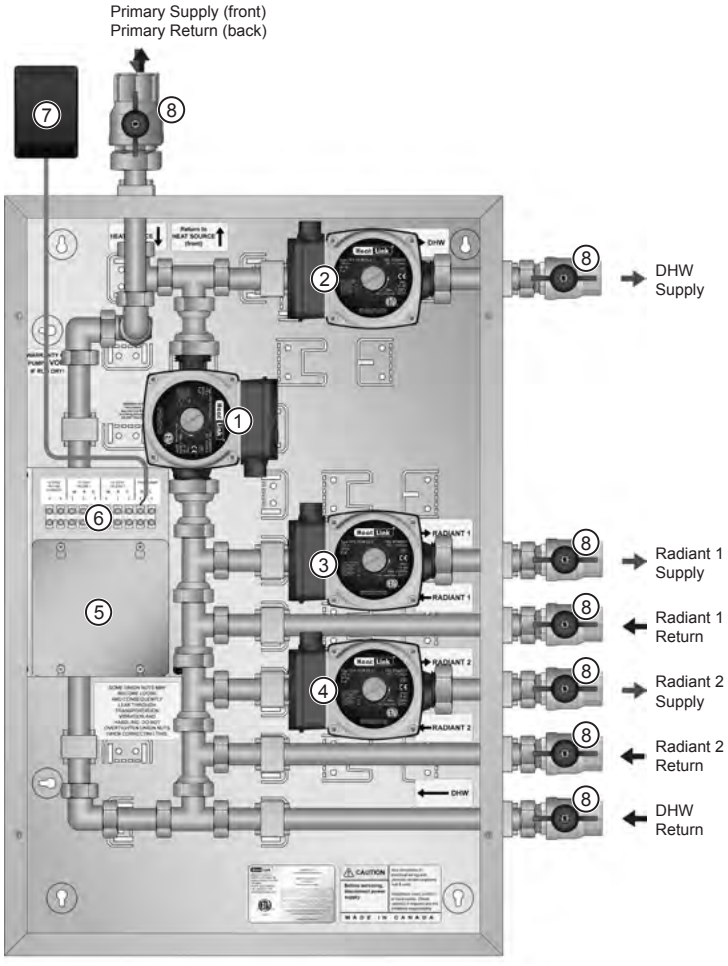
- A demand from the DHW aquastat to the boiler, the boiler will turn on the DHW pump, and turn off the Primary pump, and the Radiant pump(s) (if running) and change the supply water temp according to its settings.
- When the DHW demand is removed, the DHW pump will continue to run for as long as the boiler control requires.

For complete specifications, see submittal SUBKNIGHT00.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
Knight01	•	•	1
Knight02	•	•	2

Panel Components

① Primary Pump
② DHW Pump
③ Radiant 1 Pump
④ Radiant 2 Pump (Knight02 only)
⑤ Electrical Connection Box
⑥ 24V Terminal Strip (Knight02 only)
⑦ 24Vac Plug-in Transformer (Knight02 only)
⑧ Isolation Valve
☑ Panel Cover (not shown)



Knight02

Stk#	Description	Pkg Qty	Unit
Knight01	Panel for Knight Wall Mount Boiler (3 Pump)	1	ea.
Knight02	Panel for Knight Wall Mount Boiler (4 Pump)	1	ea.

TFT Boiler Panels
TFT Series

These panels are designed to for use with NTI Trinity Tft 60-110 boilers.

Heating sequence of operation (TFT01):

- A heat demand from the room thermostat will send a heating demand to the boiler.
- The boiler will turn on the Primary pump and Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant and Primary pumps will stop.

Heating sequence of operation (TFT02):

- A heat demand from either room thermostat will close its corresponding relay in the panel and send a heating demand to the boiler.
- The boiler will turn on the Primary pump and appropriate Radiant pump.
- The supply water temp is determined by the boiler.
- When the heat demand is removed, the Radiant pumps will stop and the Primary pump will continue to run for as long as the boiler control requires.

DHW sequence of operation (TFT01 & TFT02):

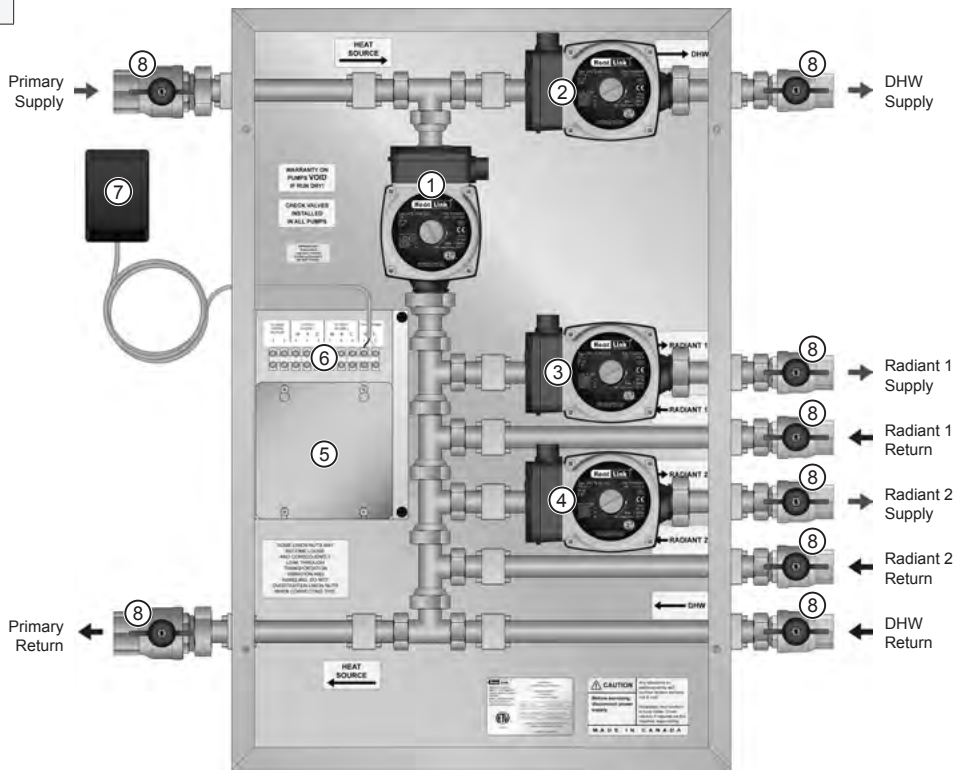
- A demand from the DHW aquastat will send a DHW demand to the boiler.
- The boiler will turn on the DHW pump and disable the Primary and Radiant pump(s) (if running) and change the supply water temp according to its settings.
- When the DHW demand is removed, the DHW pump will continue to run for as long as the boiler control requires.

For complete specifications, see submittal SUBTFT00.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
TFT01	•	•	1
TFT02	•	•	2

Panel Components

① Primary Pump
② DHW Pump
③ Radiant 1 Pump
④ Radiant 2 Pump (TFT02 only)
⑤ Electrical Connection Box
⑥ 24V Terminal Strip (TFT02 only)
⑦ 24Vac Plug-in Transformer (TFT02 only)
⑧ Isolation Valve
☑ Panel Cover (not shown)



TFT02

Stk#	Description	Pkg Qty	Unit
TFT01	TFT01 Boiler Panel 3 Pump	1	ea.
TFT02	TFT02 High Capacity Boiler 4 Pump	1	ea.

BC Boiler Panels
BC Series

The BC G2-1 and BC G2-2 panels are designed to work with IBC SL G2 boilers. The panel primary piping matches up to the IBC boiler system supply and return.

The BC G2-3 panel will work with IBC DC series combi boilers.

The panel has three or four Grundfos UPS15-58 pumps. All of which are controlled by the boiler.

All the thermostats, and the DHW sensor are wired to the boiler.

The water temperature and DHW priority is controlled by the boiler.

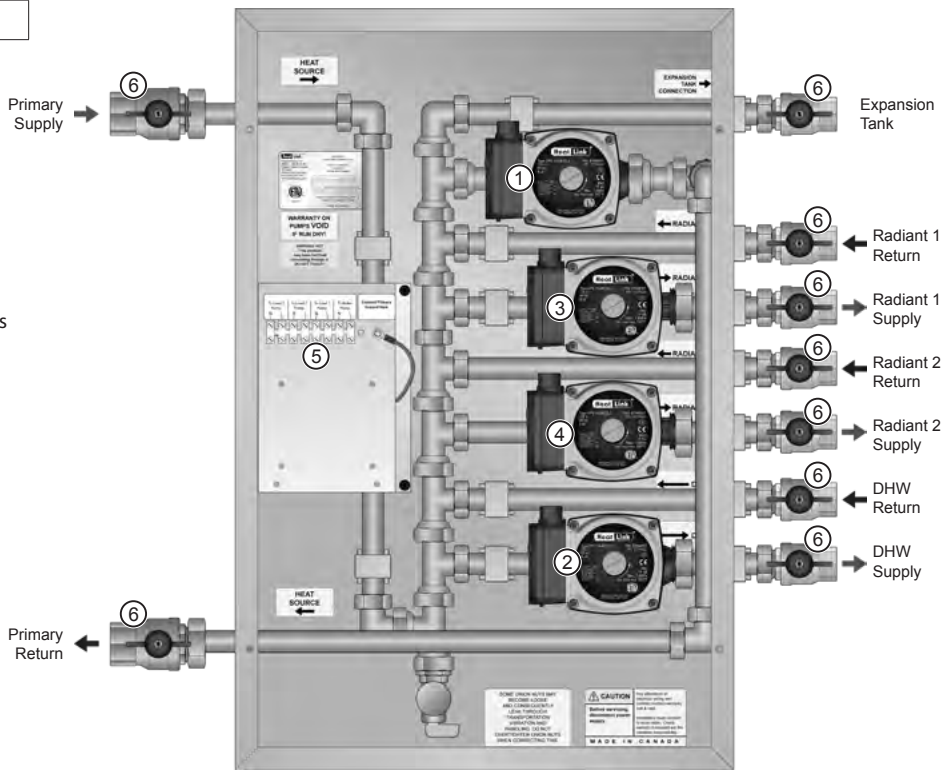
For complete specifications, see submittal SUBBCG2.

Panel Stk#	Pumps		
	Primary	DHW	Radiant
BC G2-1	•	•	1
BC G2-2	•	•	2
BC G2-3			3

Panel Components

1. Primary Pump (BC G2-1 & BC G2-2)
2. DHW Pump (BC G2-1 & BC G2-2)
2. Radiant 3 Pump (BC G2-3 only)
3. Radiant 1 Pump
4. Radiant 2 Pump (BC G2-2 only)
5. 120V Terminal Strip for pump connections
6. Isolation Valve

☑ Panel Cover (not shown)



BC G2-2

Stk#	Description	Pkg Qty	Unit
BC G2-1	Standard Boiler Panel 3 Pump	1	ea.
BC G2-2	High Capacity Boiler Panel 4 Pump	1	ea.
BC G2-3	BC G.Combi Boiler Panel	1	ea.

ELBP Electric Boiler Panel
ELBP Series

The Electric Boiler Panel's primary application is for heating small areas where quick installation is needed or alternative fuel sources aren't available.

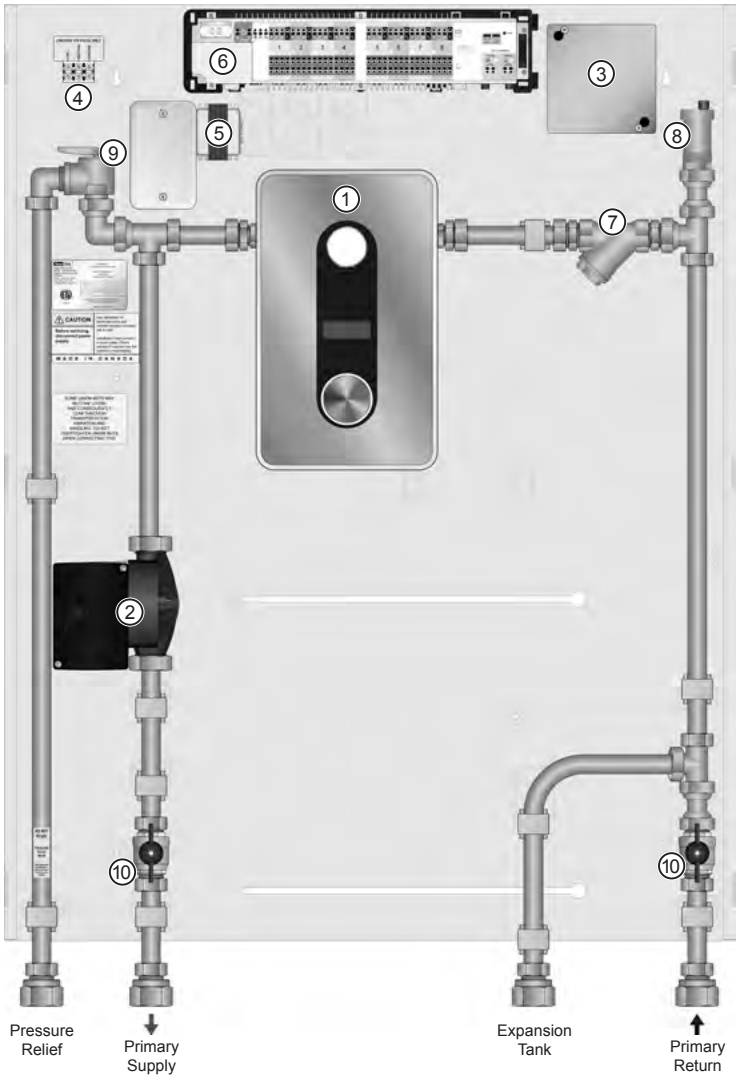
The Electric Boiler Panel includes a 6.7kW, 11kW, or 18kW electric boiler, automatic air vent, pressure relief valve, strainer, pump, connection for an expansion tank, 24Vac transformer, StatLink® 6 Zone Base Module, and electrical box for 240V connection.

Sequence of operation:

- When there is a call for heat from the thermostat wired to the StatLink® Module, the pump is activated; the electric boiler is then activated via a flow meter and supplies heat based on the user settings.

For complete specifications, see submittal SUBELBP000.

ELBP30



Panel Components

① Electric Boiler
② Primary Pump
③ 240Vac Electrical Connection Box
④ 120Vac Terminal Strip
⑤ 24Vac Transformer
⑥ StatLink® Module
⑦ Strainer
⑧ Automatic Air Vent
⑨ Pressure Relief Valve
⑩ Isolation Valve
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
ELBP18	Electric Boiler Panel 18,000BTU	1	ea.
ELBP30	Electric Boiler Panel 30,000BTU	1	ea.
ELBP50	Electric Boiler Panel 50,000BTU	1	ea.

ELBP Electric Boiler Panel with Manifold ELBP-TS Series

The Electric Boiler Panel's primary application is for heating small areas where quick installation is needed or alternative fuel sources aren't available.

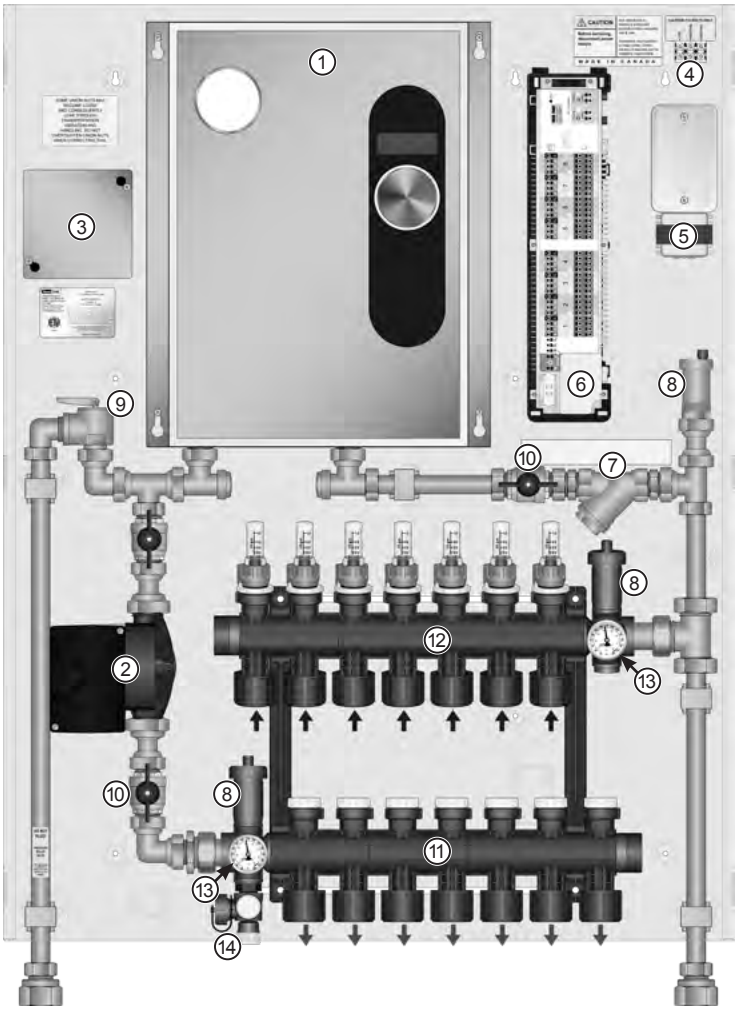
The Electric Boiler Panel includes a 6.7kW, 11kW, or 18kW electric boiler, automatic air vent, pressure relief valve, strainer, pump, connection for an expansion tank, TwistSeal® Multiport Mini Manifold, 24Vac transformer, StatLink® 6 Zone Base Module, and electrical box for 240V connection.

Sequence of operation:

- When there is a call for heat from the thermostat wired to the StatLink® Module, the pump is activated; the electric boiler is then activated via a flow meter and supplies heat based on the user settings.

For complete specifications, see submittal SUBELBP000TS.

ELBP50TS7



Panel Components

① Electric Boiler
② Primary Pump
③ 240Vac Electrical Connection Box
④ 120Vac Terminal Strip
⑤ 24Vac Transformer
⑥ StatLink® Module
⑦ Strainer
⑧ Automatic Air Vent
⑨ Pressure Relief Valve
⑩ Isolation Valve
⑪ Supply Manifold
⑫ Return Manifold
⑬ Thermometer
⑭ Hosebib
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
ELBP18TS3	Electric Boiler Panel 18,000BTU with 3 Loop Twist Seal Mini Multiport	1	ea.
ELBP18TS5	Electric Boiler Panel 18,000BTU with 5 Loop Twist Seal Mini Multiport	1	ea.
ELBP30TS3	Electric Boiler Panel 30,000BTU with 3 Loop Twist Seal Mini Multiport	1	ea.
ELBP30TS5	Electric Boiler Panel 30,000BTU with 5 Loop Twist Seal Mini Multiport	1	ea.
ELBP30TS6	Electric Boiler Panel 30,000BTU with 6 Loop Twist Seal Mini Multiport	1	ea.
ELBP30TS7	Electric Boiler Panel 30,000BTU with 7 Loop Twist Seal Mini Multiport	1	ea.
ELBP30TS8	Electric Boiler Panel 30,000BTU with 8 Loop Twist Seal Mini Multiport	1	ea.
ELBP50TS7	Electric Boiler Panel 50,000BTU with 7 Loop Twist Seal Mini Multiport	1	ea.

TMP 40/70 MBH 3-Way Mixing Panels
Stk# TMP040 & TMP070

The TMP 3-Way Mixing Panel's primary application is as a single zone mixing device where there are no flow requirements in the primary loop.

Intended to be used with DHW tanks as a heat source, the PLC is programmed with a 24hr timer for potable applications. When not used with a DHW tank as a heat source, secondary zoning downstream of the panel is possible.

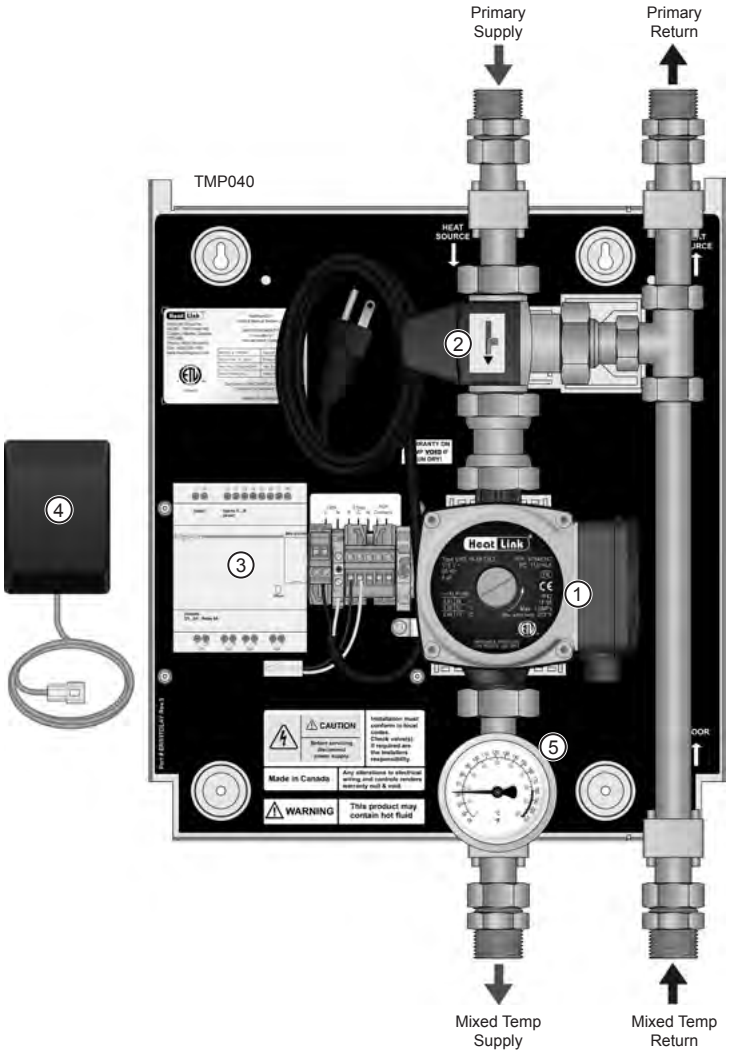
A DHW priority option for these panels is not available.

These panels can also be used as subpanels to provide additional mixed temperature loops.

Sequence of operation:

- When the thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and the pump turns on.
- As the pump moves fluid through the panel the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the pump stops.
- The pump is activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.

For complete specifications, see submittal SUBTMP000.



Panel Components

① Pump
② 3-Way Thermostatic Mixing Valve
③ PLC Control with 6' Power Cord
- 24hr Timer for Potable Applications
- Auxiliary Dry Contacts for Heat Source
- Thermostat Inputs and Actuator Outputs for 1 Zone

④ 24Vac Plug-in Transformer
⑤ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TMP040	TMP 40MBH 3-Way Mixing Panel	1	ea.
TMP070	TMP 70MBH 3-Way Mixing Panel	1	ea.

TMP 70 MBH 3-Way Mixing Panel with Zoning
Stk# TMP070Z

The TMP 3-Way Mixing Panel's primary application is as a ***multizone*** mixing device where there are no flow requirements in the primary loop.

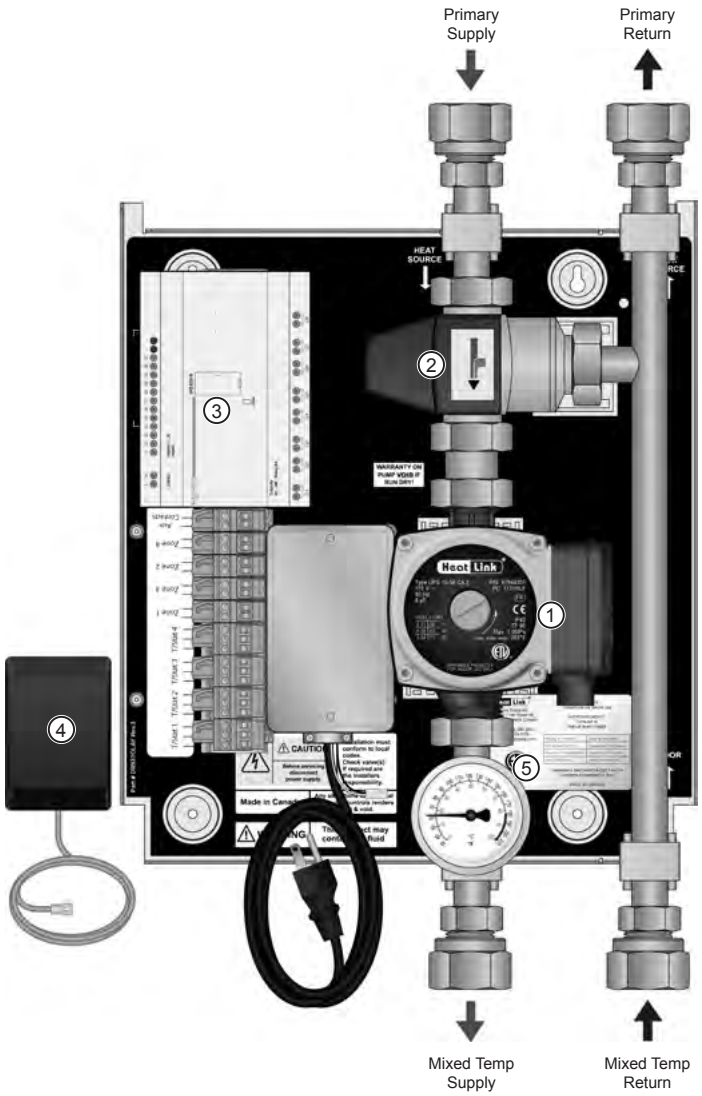
Intended to be used with DHW tanks as a heat source, the PLC is programmed with a 24hr timer for potable applications. The panel has thermostat inputs and actuator outputs for up to four zones (two actuators per zone). When used with a DHW tank as a heat source, secondary zoning downstream of the panel is possible (subject to local codes).

A DHW priority option for this panel is not available.

Sequence of operation:

- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, the pump turns on, and its corresponding zone actuator opens.
- As the pump moves fluid through the panel the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, the pump stops and the zone actuator closes.
- The pump is activated, and all zone actuators open, once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.

For complete specifications, see submittal SUBTMP000Z.



Panel Components

1. Pump
2. 3-Way Thermostatic Mixing Valve
3. PLC Control with 6' Power Cord
   - 24hr Timer for Potable Applications
   - Auxiliary Dry Contacts for Heat Source
   - Thermostat Inputs and Actuator Outputs for 4 Zones
4. 24Vac Plug-in Transformer
5. Thermometer

☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TMP070Z	TMP 70MBH 3-Way Mixing Panel with Zoning	1	ea.

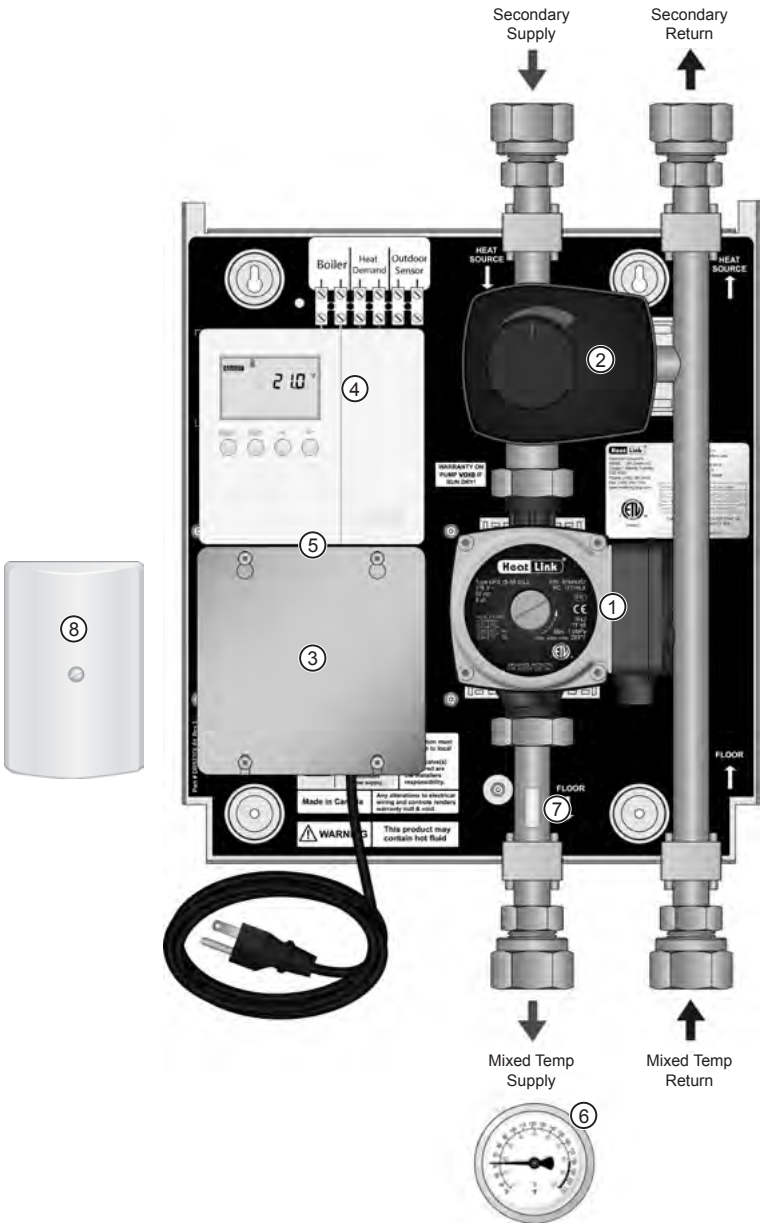
TMP 70 MBH 3-Way Mixing Panel with Outdoor Reset
Stk# TMP070RS

The TMP three way mixing panel's primary application is as a single zone mixing device where there are no flow requirements in the primary loop. The #31355 Compact Mixing Control with the 3-way mixing valve and actuator will automatically regulate the water temperature in secondary circuit based on outdoor temperature.

Sequence of operation:

- When the panel receives a heat demand, the 31355 control is activated.
- If the control is not in Warm Weather Shut Down, the control operates the mixing valve, boiler, and pump to maintain an outdoor reset mix target temperature at the mix supply sensor.
- When the heat demand is removed, the control will close the mixing valve, open the boiler contacts, and stop the pump after the purge time.
- If the pump has not run in the past 3 days, the pump will run for 10 seconds.
- If the mixing valve has not operated its full stroke in the past 3 days, the control will operate the valve to the fully open position and then back to the fully closed position.

For complete specifications, see submittal SUBTMP070RS.



Panel Components

1. Secondary Pump
2. 3-Way Mixing Valve and Mixing Valve Motor
3. Relay Box with 6' Power Cord
4. HeatLink® #31355 Compact Mixing Control
5. 24Vac Transformer (hidden)
6. Thermometer
7. Supply Sensor
8. Outdoor Sensor

☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TMP070RS	TMP 70MBH 3-Way Mixing Panel (Automatic Outdoor Reset)	1	ea.

TMP 85 MBH Dual Pump Mixing Panel
Stk# TMP085DP

The TMP 3-Way Mixing Panel's primary application is as a single temperature mixing device where there are no flow requirements in the primary loop.

Intended to be used with DHW tanks as a heat source, the PLC is programmed with a 24hr timer for potable applications. The TMP085DP not only allows for higher output, but it is also a 2-zone panel. So even with a DHW heat source, you can now have two radiant floor zones. When not used with a DHW tank as a heat source, secondary zoning downstream of the panel is possible.

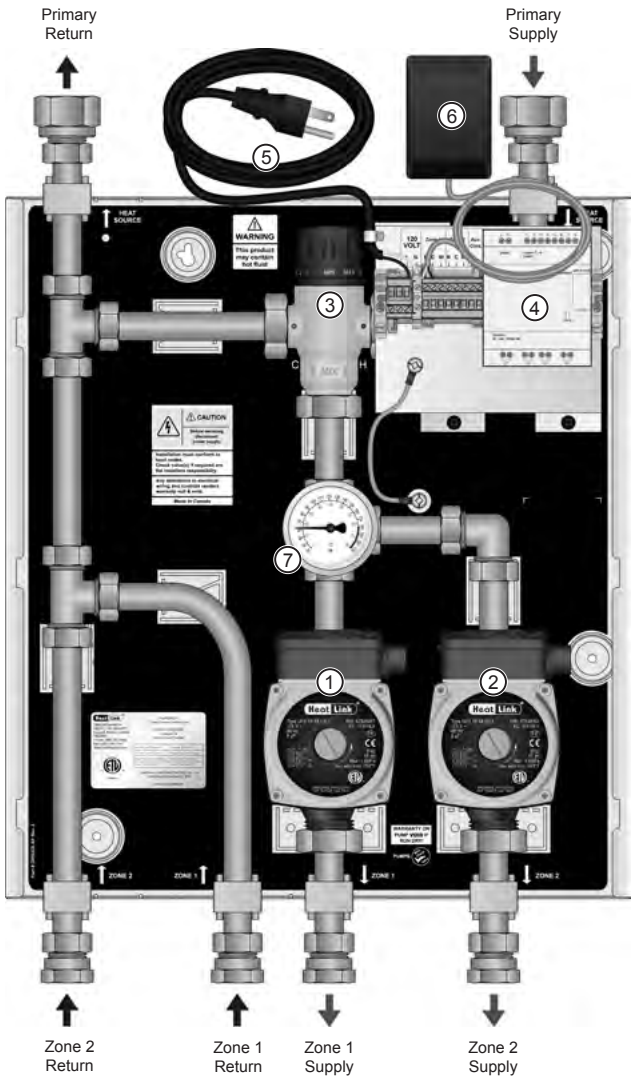
A DHW priority option for this panel is not available.

These panels can also be used as subpanels to provide additional mixed temperature loops.

Sequence of operation:

- When the thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and the appropriate pump turns on.
- As the pump moves fluid through the panel the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the corresponding pump(s) stops.
- The pump is activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.

For complete specifications, see submittal SUBTMP000DP.



Panel Components

① Zone 1 Pump with Check Valve
② Zone 2 Pump with Check Valve
③ 3-Way Thermostatic Mixing Valve
④ PLC (Programmable Logic Control)
- 24hr Timer for Potable Applications
- Auxiliary Dry Contacts for Heat Source

⑤ 120Vac 6' Power Cord
⑥ 24Vac Plug-in Transformer
⑦ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TMP085DP	TMP 85MBH Dual Pump 3-Way Mixing panel	1	ea.

TMP-Multi Panels
TMP-M Series

The TMP-Multi Panel series all share a primary loop, optional primary pump, two to five secondary circuits, simple electrical wiring, thermometers, and isolation valves on all circuits.

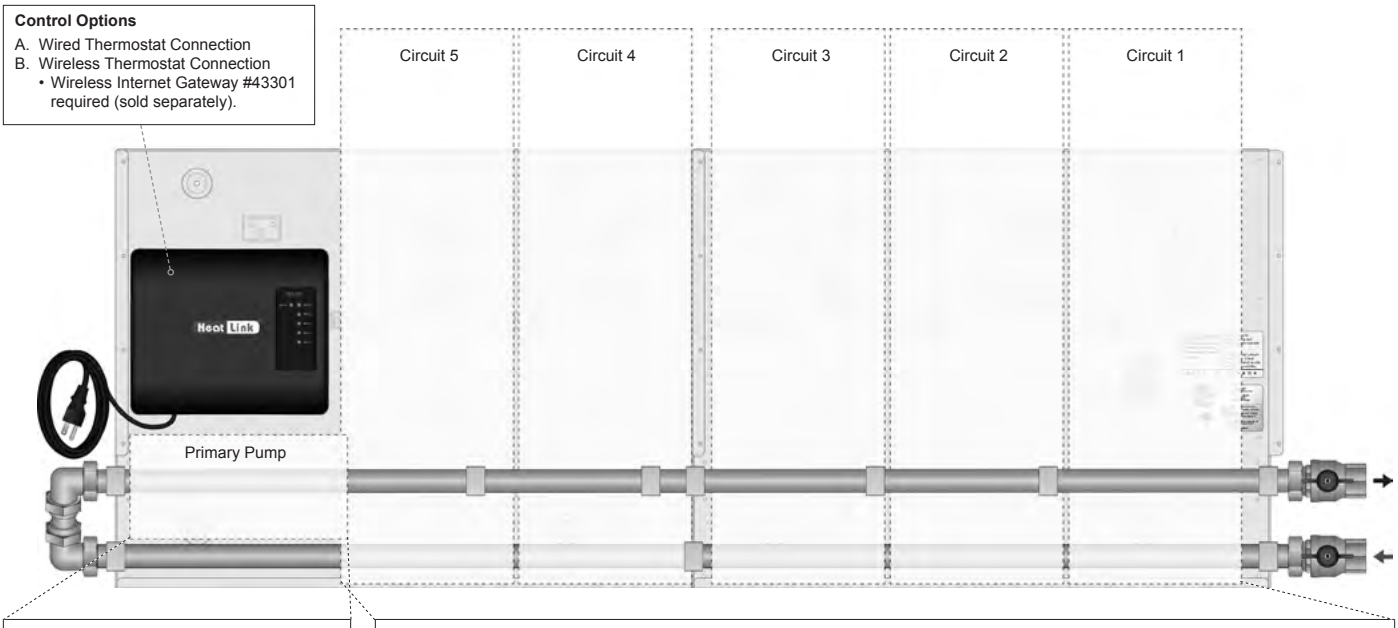
A cover for these panels is not available.

Multiple low temp circuits mean multiple supply water temperatures for different radiant areas. A common example of this is in combination radiant heating systems where basements have a "wet" installation and DryAbove™ or DryBelow™ systems are installed on upper floors.

Add secondary zoning with a StatLink® module and manifold actuators (sold separately).

The flexibility of the TMP-Multi Panels means that this is the only panel you need for your residential or small commercial heating projects.

For complete specifications, see submittal SUBTMPMulti.



Primary Pump Options

A. No pump
- For boilers with their own pump.

B. UPS 15-58
- For low flow rate and head loss.
- 100MBH max. output.

C. UPS 26-99
- For moderate flow rate and head loss.
- 300MBH max. output.

D. UPS 26-150
- For high flow rate and head loss.
- 300MBH max. output.

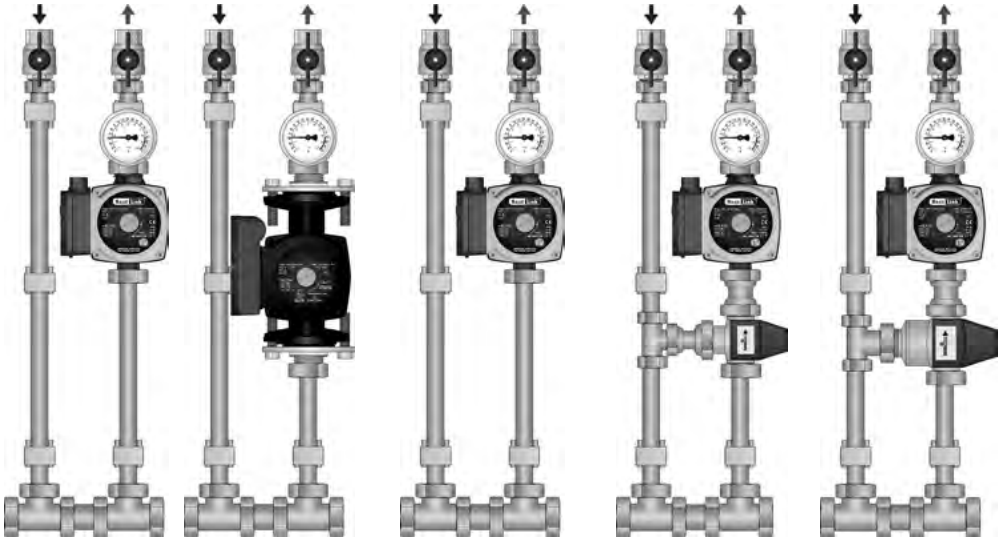
Circuit Options

A. DHW Circuit
- One (1) possible circuit for indirect fired hot water heater with priority.
- 100MBH max. output.
- Small (15-58) or large (26-99) pump.

B. High Temp Circuit
- Up to two (2) circuits for baseboards, fan coils, etc.
- 100MBH max. output.

C. Low Temp Circuit with Small TMV
- Up to five (5) for radiant heating areas.
- 40MBH max. output.

D. Low Temp Circuit with Large TMV
- Up to five (5) for radiant heating areas with higher head loss.
- 70MBH max. output.



Low Temp Circuit sequence of operation:

- A heat demand from the room thermostat will send a heating demand to the Control.
- The Control will turn on the Primary pump (if applicable), Circuit pump, and close the auxiliary contacts.
- As the pump moves fluid through the circuit the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the heat demand is removed, the Circuit pump will stop. If the Circuit is the only one that had a heat demand, the Control will stop the Primary pump and open the auxiliary contacts.

High Temp Circuit sequence of operation:

- A heat demand from the room thermostat will send a heating demand to the Control.
- The Control will turn on the Primary pump (if applicable), Circuit pump, and close the auxiliary contacts.
- When the heat demand is removed, the Circuit pump will stop. If the Circuit is the only one that had a heat demand, the Control will stop the Primary pump and open the auxiliary contacts.

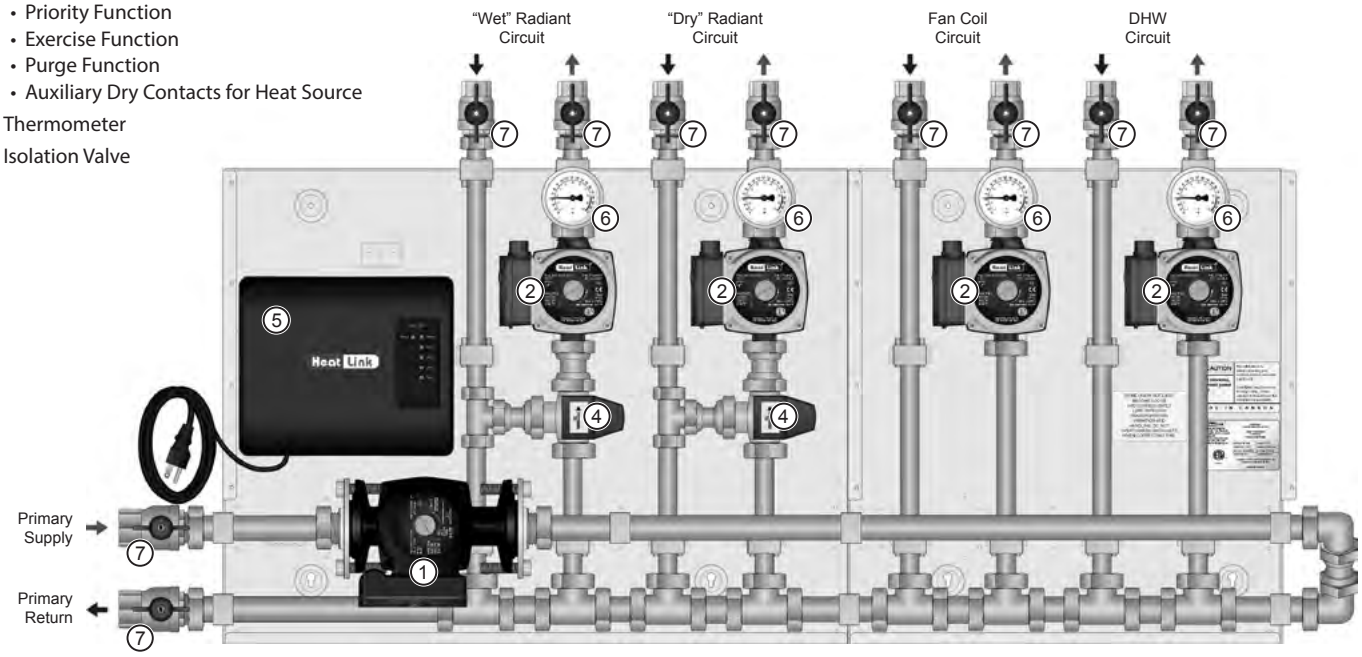
DHW Circuit sequence of operation:

- A demand from the DHW aquastat will send a DHW demand to the Control.
- The Control will turn on the Primary pump (if applicable), Circuit pump, and close the auxiliary contacts.
- The Control will turn off all the other Circuit pump(s) (if running).
- When the DHW demand is removed, the Circuit pump will stop. If the Purge DIP switch is in the On position (default is Off), the Circuit pump will run for 2 minutes. If other circuits are calling for heat, their Circuit pumps will be turned on and the Primary pump will continue to run.

Panel Components

1. Primary Pump
2. Circuit Pump
3. 3-Way Thermostatic Mixing Valve (Large)
4. 3-Way Thermostatic Mixing Valve (Small)
5. Control with 120Vac 6' Power Cord
   - Priority Function
   - Exercise Function
   - Purge Function
   - Auxiliary Dry Contacts for Heat Source
6. Thermometer
7. Isolation Valve

TMP-MP2DHSS
DHW circuit with priority, one high temp circuit (e.g. fan coil), two low temp circuits (e.g. one for "wet" basement and one for "dry" main floor), and UPS 26-99 primary pump, shown with left feed.



Common example configurations are listed below.

Please contact your local representative for pricing or sizing assistance.

Stk#	Thermostat		Primary Pump				Secondary Circuits					Pkg Qty	Unit
	Wired	Wireless	None	15-58	26-99	26-150	DHW Small	DHW Large	High Temp	Low Temp Small	Low Temp Large		
TMP-MW1P0DSS	•		•				•			2		1	ea.
TMP-MW1P2DSS	•				•		•			2		1	ea.
TMP-MW1P0DHSS	•		•				•		1	2		1	ea.
TMP-MW1P2DHSS	•				•		•		1	2		1	ea.

TWH 70 MBH Tankless Water Heater Mixing Panels with Optional DHW Priority Stk# TWH070P & TWH070XP

The TWH Tankless Water Heater Mixing Panel's primary application is as a single zone mixing device for tankless DHW heaters.

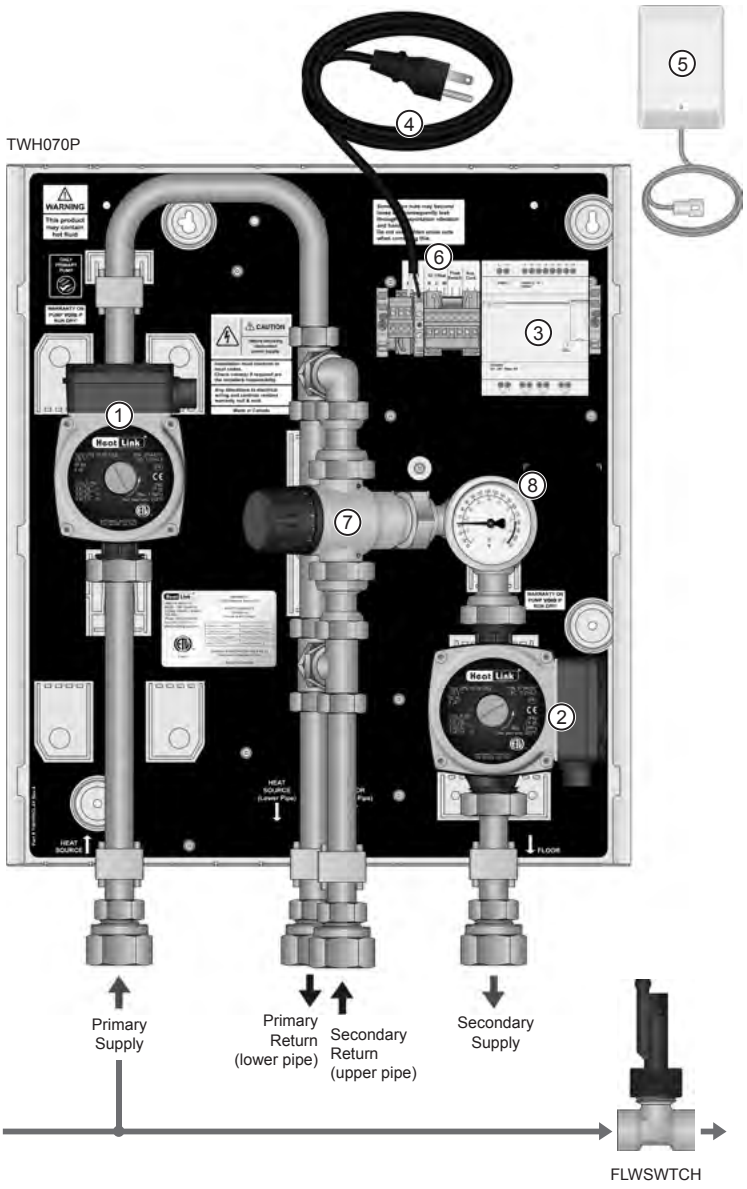
The TWH070XP has a UPS 26-99 primary pump and is designed for applications where there is an extremely high flow resistance in the heat source.

The panel is pre-wired to work with an optional DHW priority switch which is mounted outside the panel.

Sequence of operation:

- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and both pumps turn on.
- As the pumps move fluid through the panel the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the pumps stop.
- Both the primary and secondary pumps are activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.
- If the optional DHW priority flow switch is installed and the DHW flow is above the factory setting for this device, the primary pump stops and the auxiliary contacts open. When the DHW flow drops below the factory setting the panel resumes normal operation.

For complete specifications, see submittal SUBTWH000P and SUBFLWSWTCH.



Panel Components

1. Primary Pump with Check Valve
2. Secondary Pump
3. PLC (Programmable Logic Control)
   - 24hr Timer for Potable Application
   - Auxiliary Dry Contacts for Heat Source
4. 120Vac 6' Power Cord
5. 24Vac Plug-in Transformer
6. Terminal Strip
7. 3-Way Thermostatic Mixing Valve
8. Thermometer

☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TWH070P	TWH 70MBH Tankless Water Heater Mixing Panel (DHW Priority Opt)	1	ea.
TWH070XP	TWH 70MBH HH Tankless Water Heater Mixing Panel (DHW Priority Opt)	1	ea.
FLWSWTCH	Flow Switch for Domestic Hot Water Priority	1	ea.

TWH 70 MBH Tankless Water Heater Mixing Panels with Zoning Stk# TWH070Z & TWH070XPZ

The TWH Tankless Water Heater Mixing Panel's primary application is as a ***multizone*** mixing device for tankless DHW heaters.

The TWH070XPZ has a UPS 26-99 primary pump and is designed for applications where there is an extremely high flow resistance in the heat source.

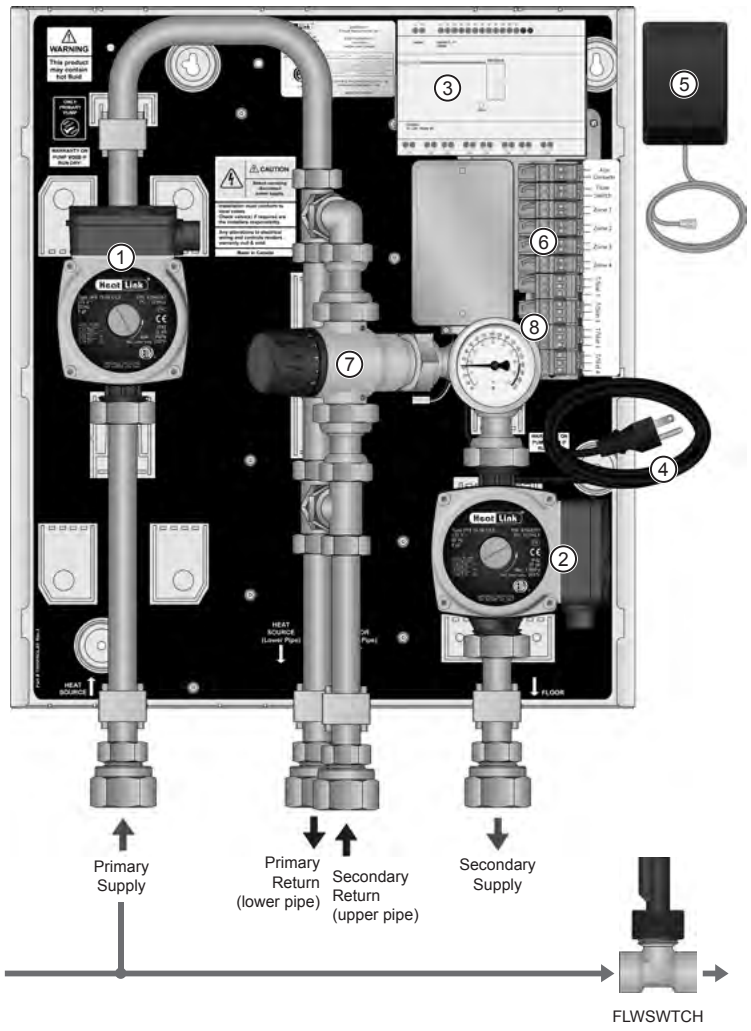
The panel is pre-wired to work with an optional DHW priority switch which is mounted outside the panel.

Sequence of operation:

- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, both pumps turn on, and its corresponding zone actuator opens.
- As the pump moves fluid through the panel the thermostatic mixing valve adjusts the fluid temperature based on the user settings.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, and the corresponding zone actuator closes. If no other thermostats are calling for heat, the auxiliary contacts open, and the pumps stop.
- Both the primary and secondary pumps are activated, and all zone actuators open, once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.

For complete specifications, see submittal SUBTWH000Z.

TWH070Z



Panel Components

1. Primary Pump with Check Valve
2. Secondary Pump
3. PLC (Programmable Logic Control)
   - 24hr Timer for Potable Application
   - Auxiliary Dry Contacts for Heat Source
   - Thermostat Inputs and Actuator Outputs for 4 Zones
4. 120Vac 6' Power Cord
5. 24Vac Plug-in Transformer
6. Terminal Strip
7. 3-Way Thermostatic Mixing Valve
8. Thermometer

☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
TWH070Z	TWH 70MBH Tankless Water Heater Mixing Panel with Zoning	1	ea.
TWH070XPZ	TWH 70MBH High Head Tankless Water Heater Mixing Panel with Zoning	1	ea.
FLWSWTCH	Flow Switch for Domestic Hot Water Priority	1	ea.

HEP Isolation Heat Exchanger Panels
HEP Series

The main application of the HEP Isolation Heat Exchanger Panel is to provide single wall isolation between a DHW tank and a heating system. This panel is *not* a temperature control device. The secondary water temperature is wholly dependent on the temperature of the primary supply water.

The panel is pre-wired to work with an optional DHW priority switch which is mounted outside the panel.

Sequence of operation:

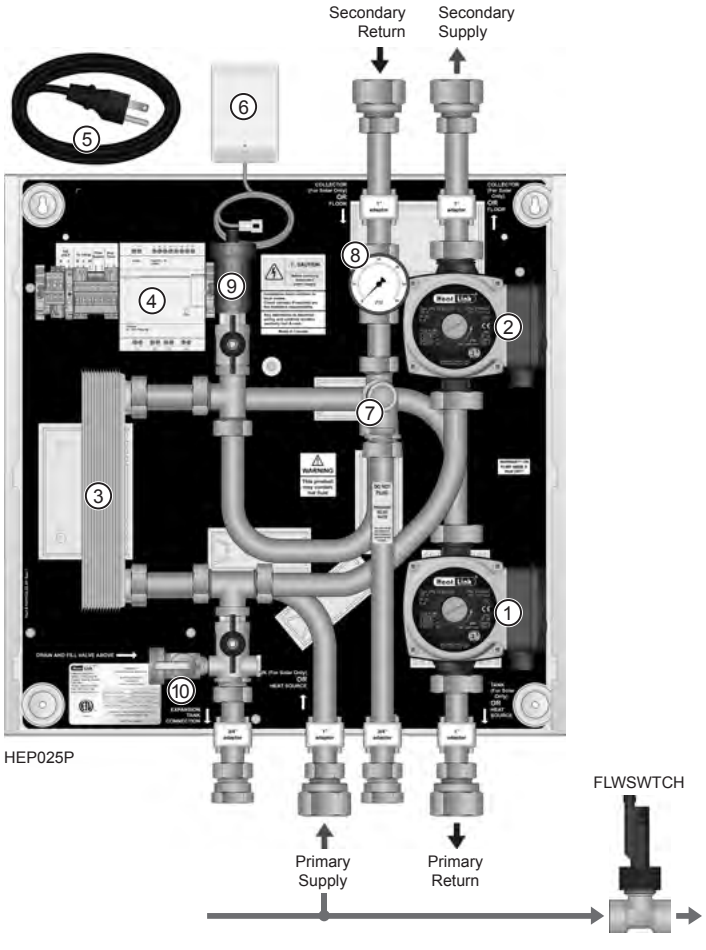
- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and both pumps turn on.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the pumps stop.
- Both the primary and secondary pumps are activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.
- If the optional DHW priority flow switch is installed and the DHW flow is above the factory setting for this device, the primary pump stops and the auxiliary contacts open. When the DHW flow drops below the factory setting the panel resumes normal operation.

For complete specifications, see submittal SUBHEP000P and SUBFLWSWTCH.

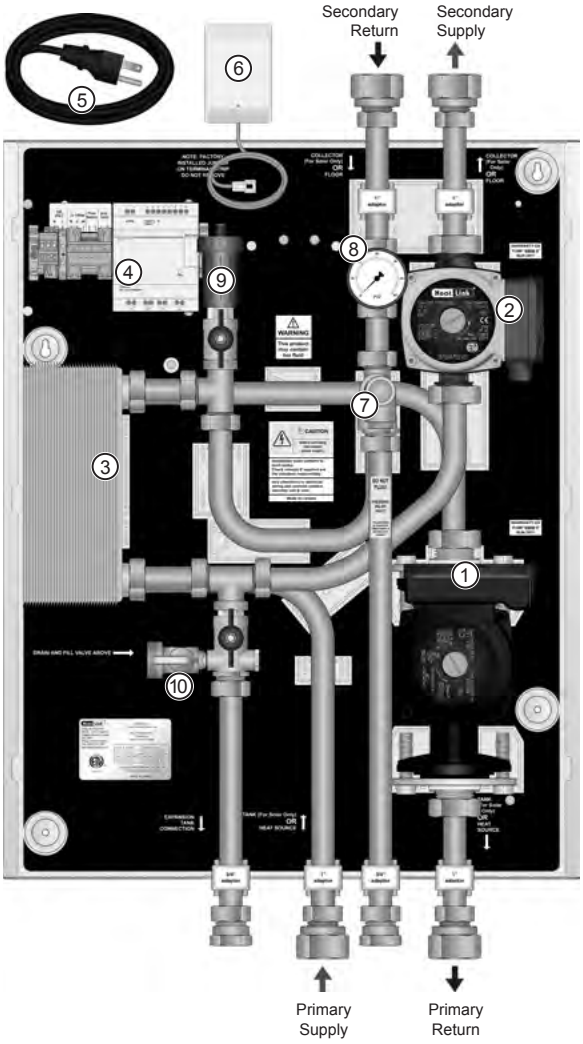
Panel Components

1. Primary Pump
2. Secondary Pump
3. Brazed Plate Heat Exchanger
4. PLC (Programmable Logic Control)
   - 24hr Timer for Potable Applications
5. 120Vac 6' Power Cord
6. 24Vac Plug-in Transformer
7. Pressure Relief Valve
8. Pressure Gauge
9. Automatic Air Vent
10. Drain and Fill Valve

☑ Panel Enclosure (not shown)



HEP025P



Stk#	Description	Pkg Qty	Unit
HEP025P	HEP 25MBH Isolation Heat Exchanger Panel	1	ea.
HEP080P	HEP 80MBH Isolation Heat Exchanger Panel	1	ea.
HEP095P	HEP 95MBH Isolation Heat Exchanger Panel	1	ea.
FLWSWTCH	Flow Switch for Domestic Hot Water Priority	1	ea.

HEP Isolation Heat Exchanger Panels w/ Relays
HEP-R Series

The main application of the HEP Isolation Heat Exchanger Panel is to provide single wall isolation between a DHW tank and a heating system *where a 24hr timer is not required*. This panel is *not* a temperature control device; the secondary water temperature is dependent on the primary water temperature.

The panel is pre-wired to work with an optional DHW priority switch which is mounted outside the panel.

A cover for this panel is sold separately.

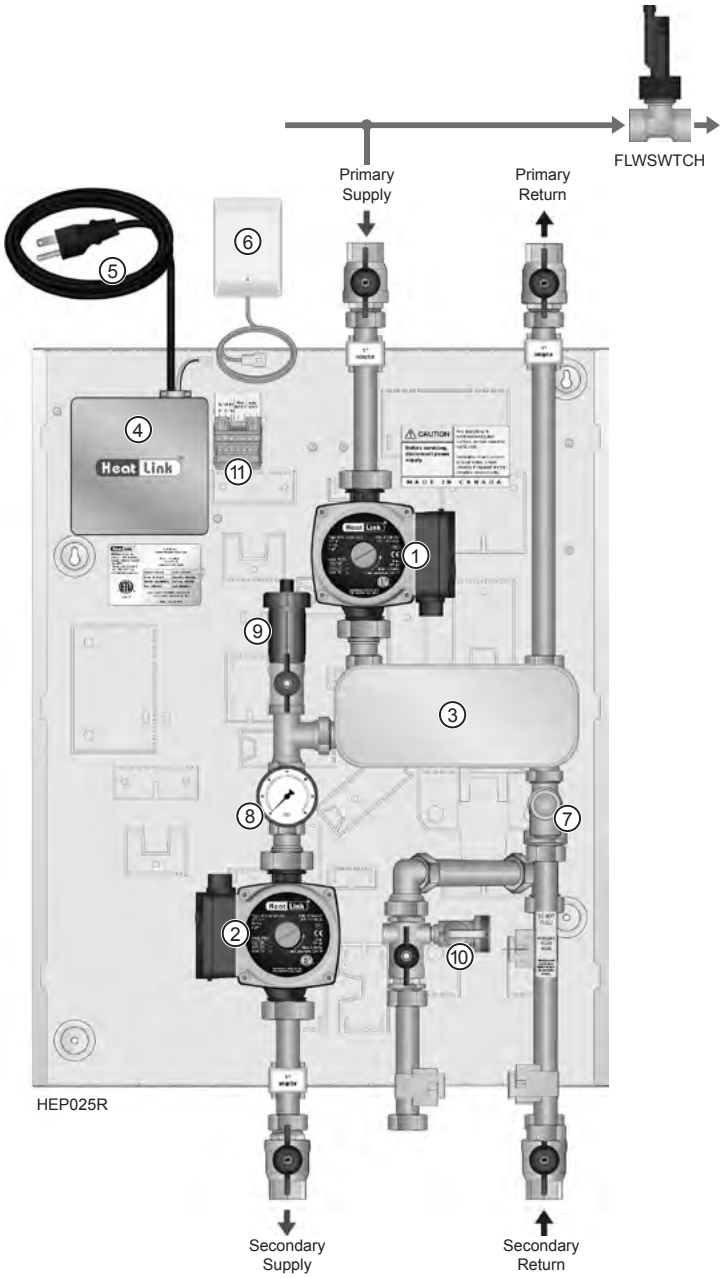
Sequence of operation:

- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and both pumps turn on.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the pumps stop.
- If the optional DHW priority flow switch is installed and the DHW flow is above the factory setting for this device, the primary pump stops and the auxiliary contacts open. When the DHW flow drops below the factory setting the panel resumes normal operation.

For complete specifications, see submittal SUBHEP000R and SUBFLWSWTCH.

Panel Components

① Primary Pump
② Secondary Pump
③ Brazed Plate Heat Exchanger
④ Relay Box
⑤ 120Vac 6' Power Cord
⑥ 24Vac Plug-in Transformer
⑦ Pressure Relief Valve
⑧ Pressure Gauge
⑨ Automatic Air Vent
⑩ Drain and Fill Valve
⑪ Terminal Strip



Stk#	Description	Pkg Qty	Unit
HEP025R	HEP 25MBH Isolation Heat Exchanger Panel Lite	1	ea.
PC2319CVR	Powder Coated Cover 23"x19" for HEP025/80R/T/DP,3WMIX,4WMIX	1	ea.
FLWSWTCH	Flow Switch for Domestic Hot Water Priority	1	ea.

HEP Isolation Heat Exchanger Panels w/ Relays and Timer
HEP-RT Series

The main application of the HEP Isolation Heat Exchanger Panel with Timer is to provide single wall isolation between a DHW tank and a heating system *where a 24hr timer is required*. This panel is *not* a temperature control device; the secondary water temperature is dependent on the primary water temperature.

The dual pump models are 2-zone panels.

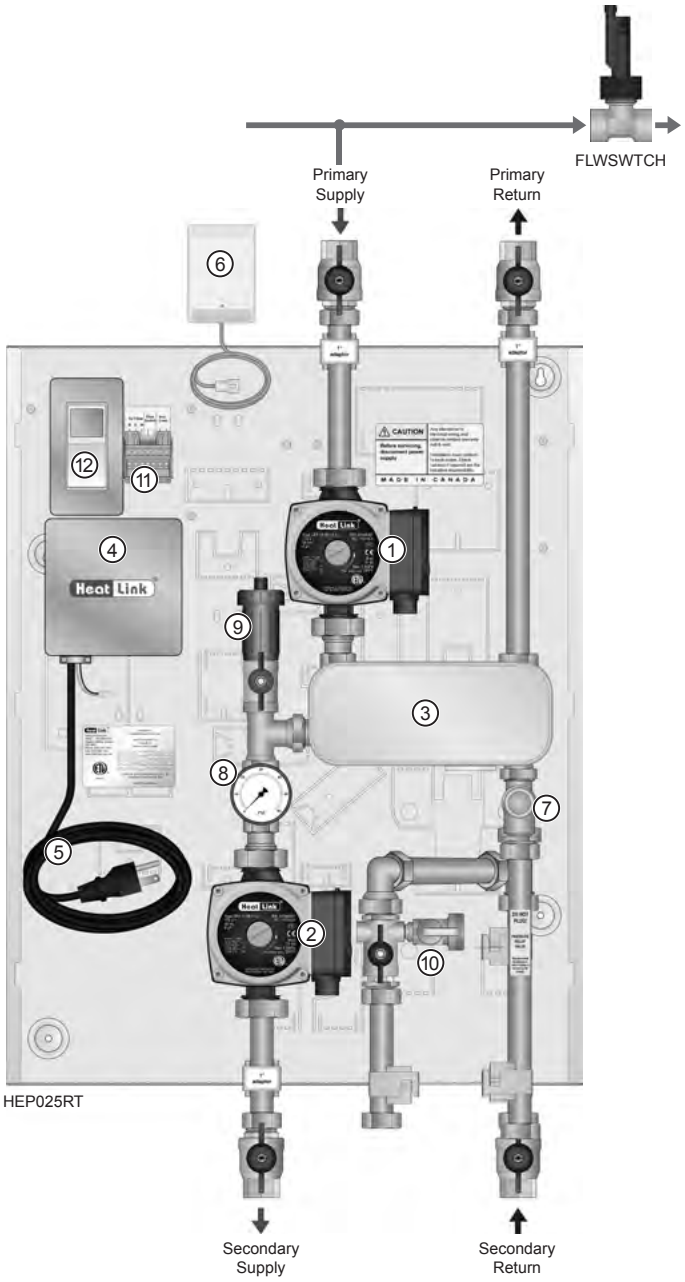
The panel is pre-wired to work with an optional DHW priority switch which is mounted outside the panel.

A cover for these panels is sold separately.

Sequence of operation:

- When a thermostat calls for heat, its internal 24V contacts close, the auxiliary terminals close, and both pumps turn on.
- When the requirements of the thermostat are met, the internal contacts of the thermostat open, the auxiliary contacts open, and the pumps stop.
- Both the primary and secondary pumps are activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.
- If the optional DHW priority flow switch is installed and the DHW flow is above the factory setting for this device, the primary pump stops and the auxiliary contacts open. When the DHW flow drops below the factory setting the panel resumes normal operation.

For complete specifications, see submittal SUBHEP000RT and SUBFLWSWTCH.



HEP025RT

Panel Components

1. Primary Pump
2. Secondary Pump
3. Brazed Plate Heat Exchanger
4. Relay Box
5. 120Vac 6' Power Cord
6. 24Vac Plug-in Transformer
7. Pressure Relief Valve
8. Pressure Gauge
9. Automatic Air Vent
10. Drain and Fill Valve
11. Terminal Strip
12. 24hr Timer

Stk#	Description	Pkg Qty	Unit
HEP025RT	HEP 25MBH Isolation Heat Exchanger Panel Lite w/Timer	1	ea.
HEP080RT	HEP 80MBH Isolation Heat Exchanger Panel Lite w/Timer	1	ea.
HEP025RTDP	HEP 25MBH Isolation Heat Exchange Panel Dual Pump w/Timer	1	ea.
HEP080RTDP	HEP 80MBH Isolation Heat Exchange Panel Dual Pump w/Timer	1	ea.
PC2319CVR	Powder Coated Cover 23"x19" for HEP025/80R/T/DP,3WMIX,4WMIX	1	ea.
FLWSWTCH	Flow Switch for Domestic Hot Water Priority	1	ea.

Advantages

- Pre-engineered solutions reduce design and quotation time.
- Reliable (ETL listed, UL 508, CSA standard), exceeds highest quality standards, with multiple test procedures for electrical and mechanical system components.
- Eliminate on-site design and reduced risk of on-site errors.
- Known cost; fewer surprises.
- Reduced installation times; time is money!
- Trouble-free start-ups every time!
- Fewer call-backs.
- Compact and aesthetically pleasing.
- Easily serviced and replaceable.
- Covered by a single warranty.

Commercial Panel Selection

These panels are intended for use in commercial, industrial, or institutional buildings.

SSP Series Panels are distribution panels with their own pump to supply radiant areas that use the same supply water temperature. Typical applications include radiant heating in conjunction with a 3WMIX or 4WMIX mixing panel, radiant cooling, and snow melting.

SST Series Panels are distribution panels with their own pump and mixing valve to supply radiant areas that each need a different supply water temperature. Typical applications include radiant heating and snow melting.

3WMIX and 4WMIX Series Panels are mixing panels that control the radiant system supply water temperature.

To select the panel that will work best for your system installation use the tables and definitions below. For additional assistance contact our technical or product support team.

		Application			Space for Meter			Secondary Pump			Mixing/Diverting Valve				Heating Control				
Pg#	Panel Stk#	Metering	Radiant	High Temp	DCW	DHW	BTU	UPS 15-58	UPS 26-99	UPS 26-150	3-way Cv=3.25	3-way Cv=7.3	3-way Cv=18.7	4-way Cv=18.7	StatLink®	Outdoor Reset	BMS Contacts	Snow Melt	Heating Manifold
100	Metering Series	•	opt	opt	opt	opt	opt								opt				opt
102	SSPS Series		•[1]	•[1]				•							opt		opt		•
102	SSPL Series		•[1]	•[1]					•						opt		opt		•
104	SSTS Series		•					•			•				opt	opt	opt	opt	•
106	SSTL Series		•						•			•			opt	opt	opt	opt	•
110	3WMIX		•						•				•			•			
110	3WMIXHH		•							•			•			•			
110	3WMIX-BMS		•						•				•				•		
110	3WMIXHH-BMS		•							•			•				•		
111	4WMIX		•						•					•		•			
111	4WMIXHH		•							•				•		•			
111	4WMIX-BMS		•						•					•			•		
111	4WMIXHH-BMS		•							•				•			•		

Notes

1. Heating can be either Radiant or High Temp (e.g. baseboard).

Metering Panels

Many multi-unit buildings adopt a shared cost approach to utilities, simply because usage is metered for the entire building. Water and energy conservation is difficult when usage is unknown. Some unit owners may be paying more for what they use, and some owners may pay less.

The HeatLink Metering Panels enable developers to install hot and cold water (DHW & DCW) meters, and thermal (BTU) meters for each building unit. Each unit can then be charged and pay according to their actual water and energy usage.

There are several available models. Each panel can include:

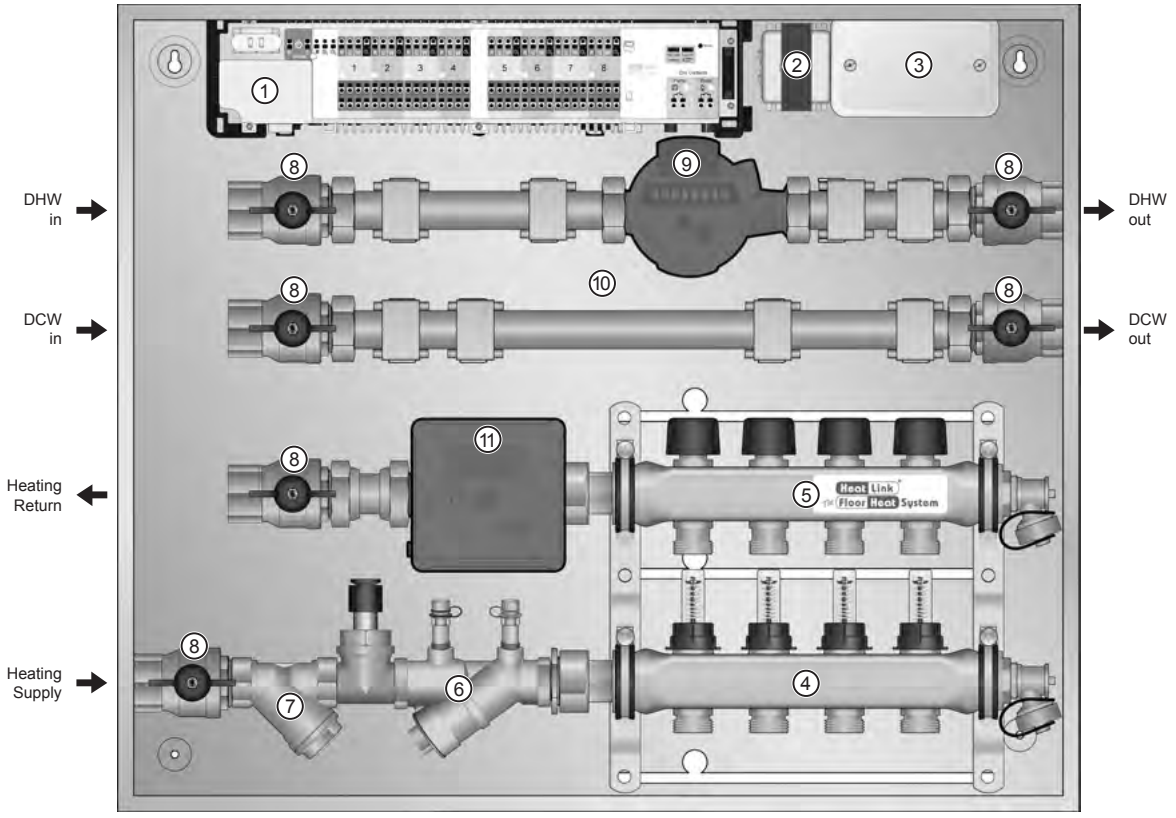
- Recessed housing with coin/screwdriver locks.
- Stainless steel manifold for heating.
- Pre-wired 24Vac transformer.
- StatLink® Module.
- Space for DCW and DHW meters.
- Space for thermal meter.
- Isolation valves.
- Auto or manual flow balancing valve.
- Strainer.

With the addition of thermostats and actuators, the manifold provides an easy way to zone hydronic heating systems. Panels are shipped with spool pieces as placeholders for third party supplied water and thermal meters.

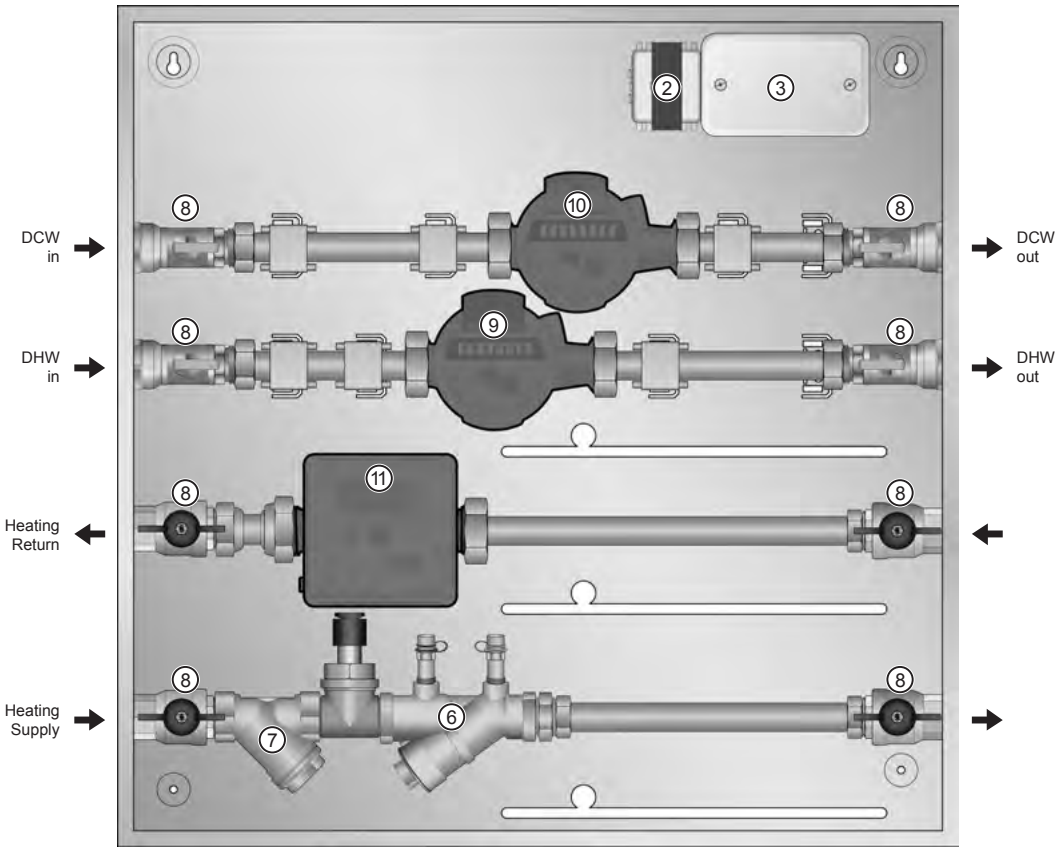
Please contact your local representative for a project quotation and technical specifications.

Panel Components

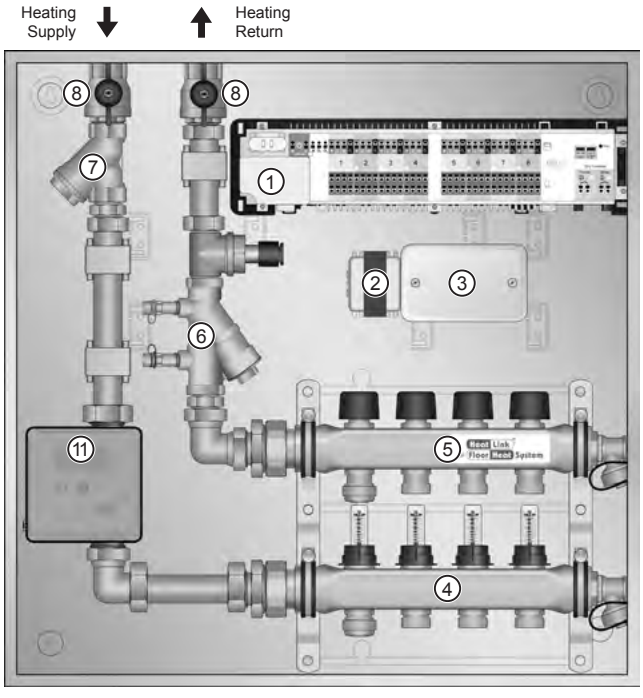
① StatLink® Module (optional)
② 24Vac Transformer
③ 120Vac Junction Box
④ Heating Supply Manifold
⑤ Heating Return Manifold
⑥ Auto Flow Balancing Valve
⑦ Y Strainer
⑧ Isolation Valve
⑨ Hot Water Meter (Not Included -Shown for reference only)
⑩ Cold Water Meter (Not Included - Shown for reference only)
⑪ BTU Meter (Not Included - Shown for reference only)
☑ Panel Cover (not shown)



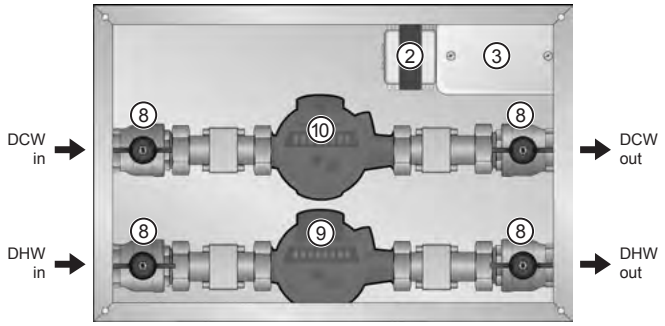
DHW, DCW, and BTU Metering with Manifold



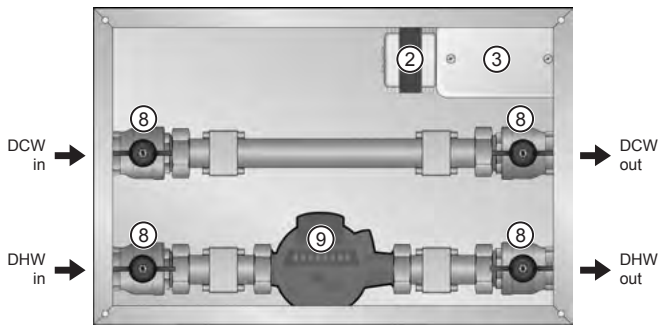
DHW, DCW, and BTU Metering



BTU Metering Top Feed Configuration



DHW and DCW Metering



DHW Metering

SSP - Stainless Steel Manifold Pump Panels SSPxx000x Series

SSP Series Panels are distribution panels with their own pump to supply radiant areas that use the same supply water temperature. Typical applications include radiant heating in conjunction with a 3WMIX or 4WMIX mixing panel, radiant cooling, and snow melting.

The base SSP panel includes:

- Recessed or surface mount housing (skirting by others). Visible parts are made of satin coated steel that is ready to paint without priming. Recessed enclosure depth allows for mounting in a 2×6 wall.
- One key lock and one or two coin locks.
- 4, 6, 8, 10, or 12 loop 76100 series SS Manifold with Flow Meters or 76200 series High Flow SS Manifold. One loop is closed and plugged.
- Pre-wired UPS 15-58 or UPS 26-99 pump.
- Top or bottom mains feed available.
- Isolation valves.
- Thermometer.

One of the following control packages is required:

- StatLink® module (thermostats[1]):
  Add *SSASL*
- BMS (sensors by others):
  Add *SSABMS*

Optional factory installed manifold add-ons:

- Pressure activated bypass[2] (#76937):
  Add *SSAPB*.
- Side mount automatic air vent[2] (#76935):
  Add *SSAAV*.
- Actuator with LED (#56201) installed on manifold and wired to StatLink® module (SSASL required):
  Add *SSAACT* × # of loops; provide a zone summary.

Optional factory housing upgrades:

- Upgrade surface mount housing material to stainless steel:
  Add *SSASSE6* (4/6 loops) or
  Add *SSASSE10* (8/10 loops) or
  Add *SSASSE12* (12 loops).
- Upgrade surface mount housing to extended housing:
  Add *SSAEXE6* (4/6 loops) or
  Add *SSAEXE10* (8/10 loops).

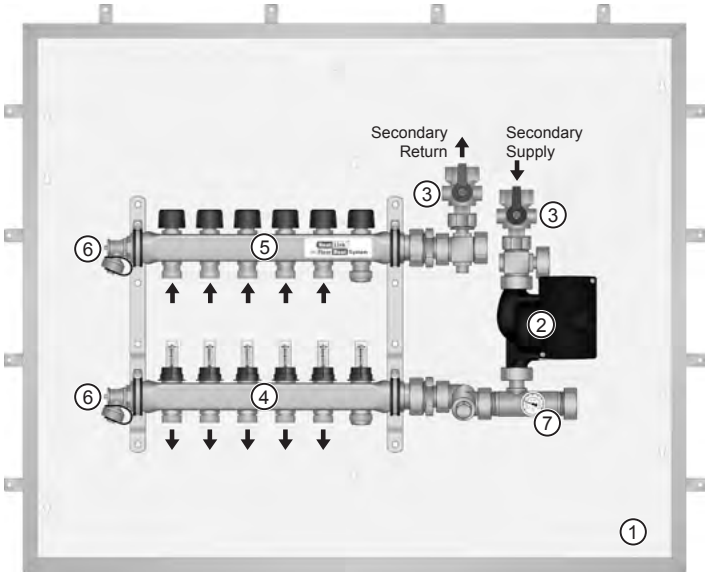
See page 108 for control and add-on details.

For complete specifications, see submittal SUBSSPxx000x.

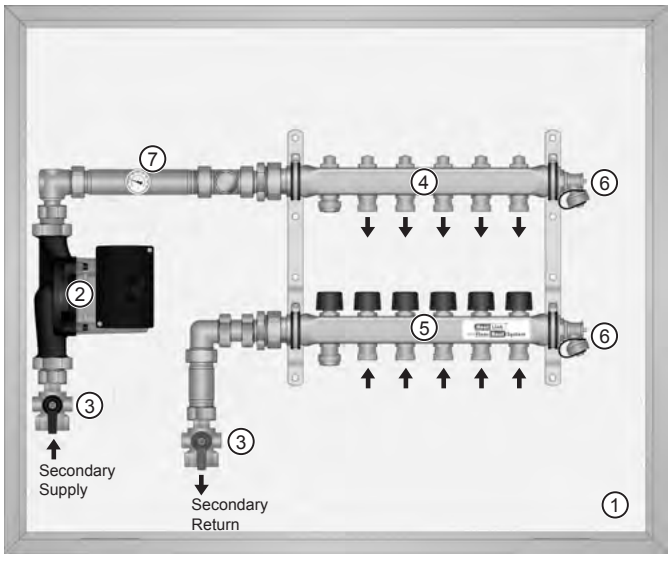
1. Thermostats are sold separately.
2. Pressure activated bypass and side mount automatic air vent are not compatible and can't be used on the same panel.

Base Panel Components

1. Housing
2. Pump
3. Isolation Valves
4. Supply Manifold
5. Return Manifold
6. Hosebib
7. Thermometer



SSPSR106T
Recessed housing, 6 loop 76100 series SS Manifold with Flow Meters, UPS 15-58 pump, top feed.



SSPLS206B
Surface mount housing, 6 loop 76200 series High Flow SS Manifold, UPS 26-99 pump, bottom feed.

Items below are for the base SSP panel only. One control selection is required. See page 108 for control and add-on details.

Stk#	Description	Qty	Unit
SSPSR104B	SSP Recessed 4 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed	1	ea.
SSPSR104T	SSP Recessed 4 Loop 1-¼" SS Manifold Small Pump Panel Top Feed	1	ea.
SSPSR106B	SSP Recessed 6 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed	1	ea.
SSPSR106T	SSP Recessed 6 Loop 1-¼" SS Manifold Small Pump Panel Top Feed	1	ea.
SSPSR108B	SSP Recessed 8 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed	1	ea.
SSPSR108T	SSP Recessed 8 Loop 1-¼" SS Manifold Small Pump Panel Top Feed	1	ea.
SSPSR110B	SSP Recessed 10 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed	1	ea.
SSPSR110T	SSP Recessed 10 Loop 1-¼" SS Manifold Small Pump Panel Top Feed	1	ea.
SSPSR112B	SSP Recessed 12 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed	1	ea.
SSPSR112T	SSP Recessed 12 Loop 1-¼" SS Manifold Small Pump Panel Top Feed	1	ea.
SSPSS104B	SSP SURF MNT 4 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed	1	ea.
SSPSS104T	SSP SURF MNT 4 Loop 1-¼" SS Man. Small Pump Panel Top Feed	1	ea.
SSPSS106B	SSP SURF MNT 6 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed	1	ea.
SSPSS106T	SSP SURF MNT 6 Loop 1-¼" SS Man. Small Pump Panel Top Feed	1	ea.
SSPSS108B	SSP SURF MNT 8 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed	1	ea.
SSPSS108T	SSP SURF MNT 8 Loop 1-¼" SS Man. Small Pump Panel Top Feed	1	ea.
SSPSS110B	SSP SURF MNT 10 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed	1	ea.
SSPSS110T	SSP SURF MNT 10 Loop 1-¼" SS Man. Small Pump Panel Top Feed	1	ea.
SSPSS112B	SSP SURF MNT 12 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed	1	ea.
SSPSS112T	SSP SURF MNT 12 Loop 1-¼" SS Man. Small Pump Panel Top Feed	1	ea.
SSPLR104B	SSP Recessed 4 Loop 1-¼" SS Man. Large Pump Panel Bot. feed	1	ea.
SSPLR104T	SSP Recessed 4 Loop 1-¼" SS Man. Large Pump Panel Top feed	1	ea.
SSPLR106B	SSP Recessed 6 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLR106T	SSP Recessed 6 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLR108B	SSP Recessed 8 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLR108T	SSP Recessed 8 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLR110B	SSP Recessed 10 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLR110T	SSP Recessed 10 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLR112B	SSP Recessed 12 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLR112T	SSP Recessed 12 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS104B	SSP SURF MNT 4 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS104T	SSP SURF MNT 4 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS106B	SSP SURF MNT 6 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS106T	SSP SURF MNT 6 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS108B	SSP SURF MNT 8 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS108T	SSP SURF MNT 8 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS110B	SSP SURF MNT 10 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS110T	SSP SURF MNT 10 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS112B	SSP SURF MNT 12 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS112T	SSP SURF MNT 12 Loop 1-¼" SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS204B	SSP SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS204T	SSP SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS206B	SSP SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS206T	SSP SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS208B	SSP SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS208T	SSP SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS210B	SSP SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS210T	SSP SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSPLS212B	SSP SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSPLS212T	SSP SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.

SSTS - Stainless Steel Manifold Mixing Panels with Small Pump
SSTSx000x Series

SST Series Panels are distribution panels with their own pump and mixing valve to supply radiant areas that each need a different supply water temperature. Typical applications include radiant heating and snow melting.

The base SSTS panel includes:

- Recessed or surface mount housing (skirting by others). Visible parts are made of satin coated steel that is ready to paint without priming. Recessed enclosure depth allows for mounting in a 2×6 wall.
- One key lock and one or two coin locks.
- 4, 6, 8, 10, or 12 loop 76100 series SS Manifold with Flow Meters or 76200 series High Flow SS Manifold. One loop is closed and plugged.
- 3-way mixing valve.
- Pre-wired UPS 15-58 pump.
- Top or bottom mains feed available.
- Isolation valves.
- Thermometer.

One of the following control packages is required:

- StatLink® module (thermostats[1]) with thermostatic head: Add *SSASL* and *SSATH*.
- StatLink® module (thermostats[1]) with outdoor reset control: Add *SSASL*, *SSAMRC*, and *SSADDC*.
- BMS (sensors by others): Add *SSABMS* and *SSADDC*.
- Snow melt control[2] (#SMCP): Add *SSASM* and *SSADDC*.
- Snow melt control with BACnet[3] (#31680): Add *SSASMBAC* and *SSADDC*.

Optional factory installed manifold add-ons:

- Pressure activated bypass[4] (#76937): Add *SSAPB*.
- Side mount automatic air vent[4] (#76935): Add *SSAAV*.
- Actuator with LED (#56201) installed on manifold and wired to StatLink® module (SSASL required): Add *SSAACT* × # of loops; provide a zone summary.

Optional factory housing upgrades:

- Upgrade surface mount housing material to stainless steel: Add *SSASSE6* (4/6 loops) or Add *SSASSE10* (8/10 loops) or Add *SSASSE12* (12 loops).
- Upgrade surface mount housing to extended housing: Add *SSAEXE6* (4/6 loops) or Add *SSAEXE10* (8/10 loops).

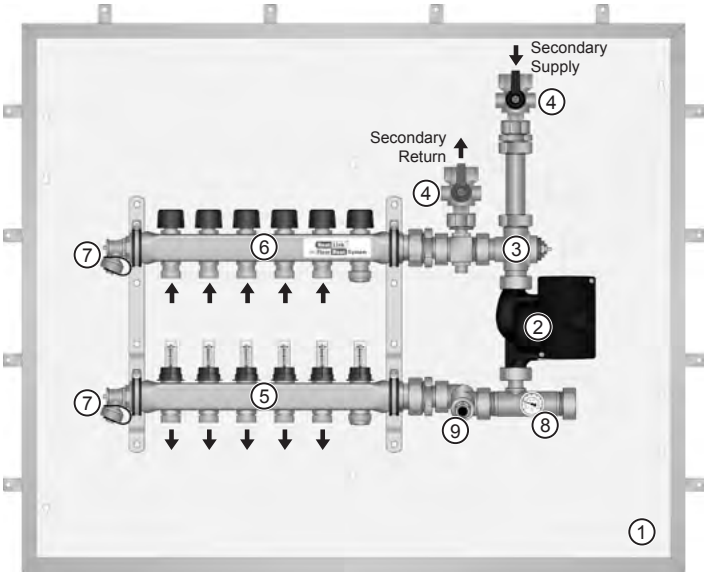
See page 108 for control and add-on details.

For complete specifications, see submittal SUBSSTxx000x.

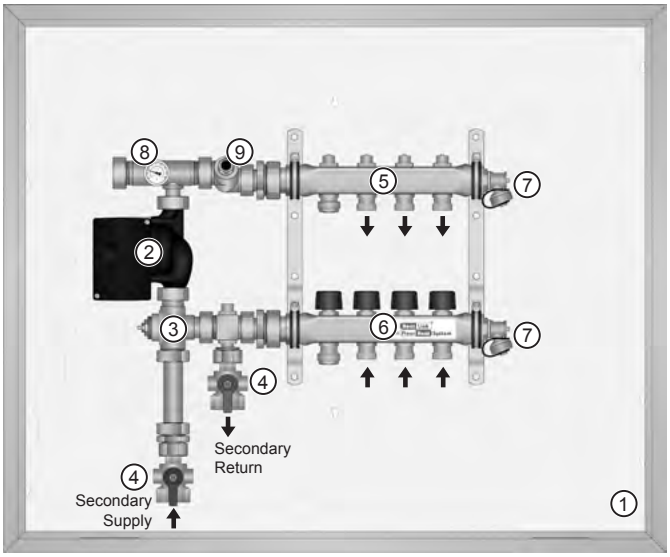
1. Thermostats are sold separately.
2. Only available for 4 loop high flow manifold. Snow/Ice Detector DRVWSNS-SS sold separately.
3. Only available for 4 loop high flow manifold. Snow/Ice Detector 30090/91 sold separately.
4. Pressure activated bypass and side mount automatic air vent are not compatible and can't be used on the same panel.

Base Panel Components

1. Housing
2. Pump
3. 3-Way Mixing Valve
4. Isolation Valves
5. Supply Manifold
6. Return Manifold
7. Hosebib
8. Thermometer
9. Sensor Well



SSTSR106T
Recessed housing, 6 loop 76100 series SS Manifold with Flow Meters, UPS 15-58 pump, top feed.



SSTSS204B
Surface mount housing, 4 loop 76200 series High Flow SS Manifold, UPS 15-58 pump, bottom feed.

Items below are for the base SSTS panel only. One control selection is required. See page 108 for control and add-on details.

Stk#	Description	Qty	Unit
SSTSR104B	SST Recessed 4 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed	1	ea.
SSTSR104T	SST Recessed 4 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSR106B	SST Recessed 6 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed	1	ea.
SSTSR106T	SST Recessed 6 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSR108B	SST Recessed 8 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed	1	ea.
SSTSR108T	SST Recessed 8 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSR110B	SST Recessed 10 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed	1	ea.
SSTSR110T	SST Recessed 10 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSR112B	SST Recessed 12 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed	1	ea.
SSTSR112T	SST Recessed 12 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSR204B	SST Recessed 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Bot. Feed	1	ea.
SSTSR204T	SST Recessed 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Top Feed	1	ea.
SSTSS104B	SST SURF MNT 4 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed	1	ea.
SSTSS104T	SST SURF MNT 4 Loop 1-¼" SS Man. Small Mixing Panel Top Feed	1	ea.
SSTSS106B	SST SURF MNT 6 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed	1	ea.
SSTSS106T	SST SURF MNT 6 Loop 1-¼" SS Man. Small Mixing Panel Top Feed	1	ea.
SSTSS108B	SST SURF MNT 8 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed	1	ea.
SSTSS108T	SST SURF MNT 8 Loop 1-¼" SS Man. Small Mixing Panel Top Feed	1	ea.
SSTSS110B	SST SURF MNT 10 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed	1	ea.
SSTSS110T	SST SURF MNT 10 Loop 1-¼" SS Man. Small Mixing Panel Top Feed	1	ea.
SSTSS112B	SST SURF MNT 12 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed	1	ea.
SSTSS112T	SST SURF MNT 12 Loop 1-¼" SS Man. Small Mixing Panel Top Feed	1	ea.
SSTSS204B	SST SURF MNT 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Bot. Feed	1	ea.
SSTSS204T	SST SURF MNT 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Top Feed	1	ea.

SSTL - Stainless Steel Manifold Mixing Panels with Large Pump
SSTLx000x Series

SST Series Panels are distribution panels with their own pump and mixing valve to supply radiant areas that each need a different supply water temperature. Typical applications include radiant heating and snow melting.

The base SSTL panel includes:

- Recessed or surface mount housing (skirting by others). Visible parts are made of satin coated steel that is ready to paint without priming. Recessed enclosure depth allows for mounting in a 2×6 wall.
- One key lock and one or two coin locks.
- 4, 6, 8, 10, or 12 loop 76100 series SS Manifold with Flow Meters or 76200 series High Flow SS Manifold. One loop is closed and plugged.
- 3-way rotary diverting valve.
- Pre-wired UPS 26-99 pump.
- Top or bottom mains feed available.
- Isolation valves.
- Thermometer.

One of the following control packages is required:

- StatLink® module (thermostats[1]) with outdoor reset control: Add *SSASL*, *SSAMRC*, and *SSAMXM*.
- BMS (sensors by others): Add *SSABMS* and *SSAMXMDDC*.
- Snow melt control[2] (#SMCP): Add *SSASM* and *SSAMXMDDC*.
- Snow melt control with BACnet[3] (#31680): Add *SSASMBAC* and *SSAMXM*.

Optional factory installed manifold add-ons:

- Pressure activated bypass[4] (#76937): Add *SSAPB*.
- Side mount automatic air vent[4] (#76935): Add *SSAAV*.
- Actuator with LED (#56201) installed on manifold and wired to StatLink® module (SSASL required): Add *SSAACT* × # of loops; provide a zone summary.

Optional factory housing upgrades:

- Upgrade surface mount housing material to stainless steel: Add *SSASSE6* (4/6 loops) or Add *SSASSE10* (8/10 loops) or Add *SSASSE12* (12 loops).
- Upgrade surface mount housing to extended housing: Add *SSAEXE6* (4/6 loops) or Add *SSAEXE10* (8/10 loops).

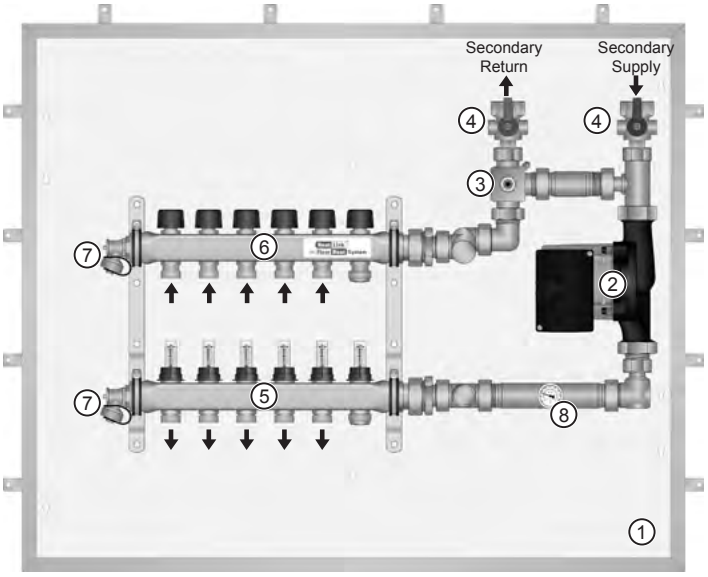
See page 108 for control and add-on details.

For complete specifications, see submittal SUBSSTxx000x.

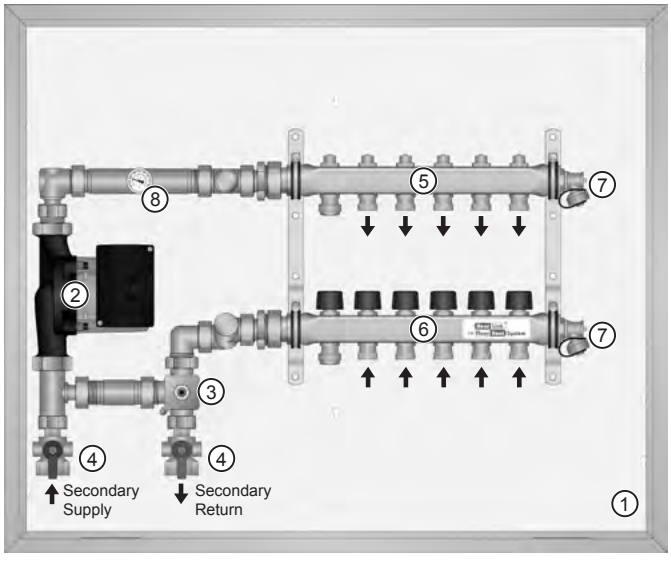
1. Thermostats are sold separately.
2. Snow/Ice Detector DRVWSNS-SS sold separately.
3. Snow/Ice Detector 30090/91 sold separately.
4. Pressure activated bypass and side mount automatic air vent are not compatible and can't be used on the same panel.

Base Panel Components

1. Housing
2. Pump
3. 3-Way Diverting Valve
4. Isolation Valves
5. Supply Manifold
6. Return Manifold
7. Hosebib
8. Thermometer



SSTLR106T
Recessed housing, 6 loop 76100 series SS Manifold with Flow Meters, UPS 26-99 pump, top feed.



SSTLS206B
Surface mount housing, 6 loop 76200 series High Flow SS Manifold, UPS 26-99 pump, bottom feed.

Items below are for the base SSTL panels only. One control selection is required. See page 108 for control and add-on details.

Stk#	Description	Qty	Unit
SSTLR104B	SST Recessed 4 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed	1	ea.
SSTLR104T	SST Recessed 4 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed	1	ea.
SSTLR106B	SST Recessed 6 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed	1	ea.
SSTLR106T	SST Recessed 6 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed	1	ea.
SSTLR108B	SST Recessed 8 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed	1	ea.
SSTLR108T	SST Recessed 8 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed	1	ea.
SSTLR110B	SST Recessed 10 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed	1	ea.
SSTLR110T	SST Recessed 10 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed	1	ea.
SSTLR112B	SST Recessed 12 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed	1	ea.
SSTLR112T	SST Recessed 12 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed	1	ea.
SSTLR204B	SST Recessed 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLR204T	SST Recessed 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLR206B	SST Recessed 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLR206T	SST Recessed 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLR208B	SST Recessed 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLR208T	SST Recessed 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLR210B	SST Recessed 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLR210T	SST Recessed 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLR212B	SST Recessed 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLR212T	SST Recessed 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLS104B	SST SURF MNT 4 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed	1	ea.
SSTLS104T	SST SURF MNT 4 Loop 1-¼" SS Man. Large Mixing Panel Top Feed	1	ea.
SSTLS106B	SST SURF MNT 6 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed	1	ea.
SSTLS106T	SST SURF MNT 6 Loop 1-¼" SS Man. Large Mixing Panel Top Feed	1	ea.
SSTLS108B	SST SURF MNT 8 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed	1	ea.
SSTLS108T	SST SURF MNT 8 Loop 1-¼" SS Man. Large Mixing Panel Top Feed	1	ea.
SSTLS110B	SST SURF MNT 10 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed	1	ea.
SSTLS110T	SST SURF MNT 10 Loop 1-¼" SS Man. Large Mixing Panel Top Feed	1	ea.
SSTLS112B	SST SURF MNT 12 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed	1	ea.
SSTLS112T	SST SURF MNT 12 Loop 1-¼" SS Man. Large Mixing Panel Top Feed	1	ea.
SSTLS204B	SST SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLS204T	SST SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLS206B	SST SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLS206T	SST SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLS208B	SST SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLS208T	SST SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLS210B	SST SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLS210T	SST SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.
SSTLS212B	SST SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed	1	ea.
SSTLS212T	SST SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed	1	ea.

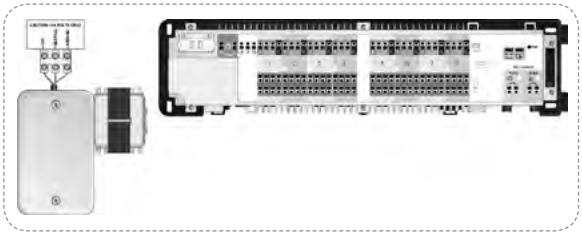
Items below are for SSP and SST panel add-ons. See previous pages for base panel details.

SSP/SST Control Add-ons

Stk#	Description	Qty	Unit
SSABMS	Installed Wiring for BMS in SSP/SST Panel	1	ea.
SSADDC	Installed DDC Actuator 56121 on Mixing Valve in SSTS Panel	1	ea.
SSAMRC	Installed Outdoor Reset Control 31355 in SST Panel	1	ea.
SSAMXM	Installed Floating Action Mixing Valve Motor 58131 in SSTL Panel	1	ea.
SSAMXMDDC	Installed DDC Mixing Valve Motor 58132 in SSTL Panel	1	ea.
SSASL	Installed StatLink® Module 40318 in SSP/SST Panel	1	ea.
SSASM	Installed Snow Melt Control SMCP in SST Panel (DRVWSNS-SS sold sep)	1	ea.
SSASMBAC	Installed Snow Melt Control 31680 in SST Panel (30090/91 sold sep)	1	ea.
SSATH	Installed Thermostatic Head 57094 on Mixing Valve in SSTS Panel	1	ea.

SSABMS

SSASL

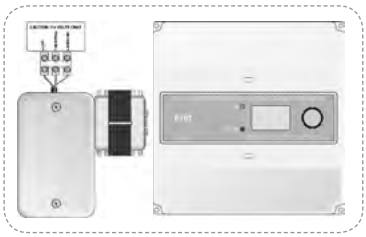


SSAMRC

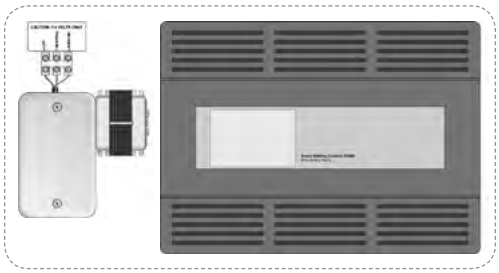
SSATH

SSADDC

SSASM



SSASMBAC

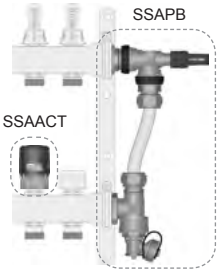


SSAMXM

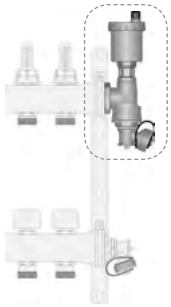
SSAMXMDDC

SSP/SST Manifold Add-ons

Stk#	Description	Qty	Unit
SSAACT	Actuator Mounted on Manifold and Wired to StatLink® in SSP/SST Panel	1	ea.
SSAAV	Installed Side Mount Auto Air Vent 76935 on Manifold in SSP/SST Panel	1	ea.
SSAPB	Installed Pressure Bypass 76937 on Manifold in SSP/SST Panel	1	ea.



SSAAV



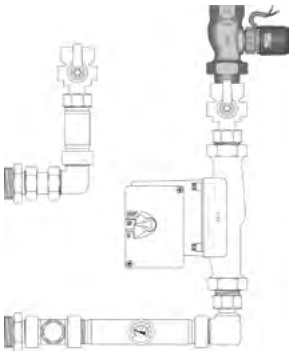
Items below are for SSP and SST panel add-ons. See previous pages for base panel details.

SSP Piping Add-ons

Stk#	Description	Qty	Unit
SSACST	Installed Closely Spaced Tees in SSP Panel	1	ea.
SSAIZV	SSP Panel Auto Isolation Zone Valve	1	ea.

SSACST

SSAIZV



SSP/SST Housing Upgrades

Stk#	Description	Qty	Unit
SSASSE6	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 4/6 Loop	1	ea.
SSASSE10	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 8/10 Loop	1	ea.
SSASSE12	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 12 Loop	1	ea.
SSAEXE6	Upgrade SSP/SST Surface Mount Housing to Extended 4/6 Loop	1	ea.
SSAEXE10	Upgrade SSP/SST Surface Mount Housing to Extended 8/10 Loop	1	ea.

SSAEXE10

3WMIX 3-Way Mixing Panels
3WMIX Series

These standalone panels provide outdoor reset control with a secondary pump, 3-way rotary mixing valve, and 3-point floating mixing valve motor. BMS versions have no control and terminal strips for the pump and DDC mixing valve motor.

Sequence of operation (Outdoor Reset):

- When the panel receives a heat demand, the 31355 control is activated.
- If the control is not in Warm Weather Shut Down, the control operates the mixing valve, boiler, and pump to maintain an outdoor reset mix target temperature at the mix supply sensor.
- When the heat demand is removed, the control will close the mixing valve, open the boiler contacts, and stop the pump after the purge time.
- If the pump has not run in the past 3 days, the pump will run for 10 seconds.
- If the mixing valve has not operated its full stroke in the past 3 days, the control will operate the valve to the fully open position and then back to the fully closed position.

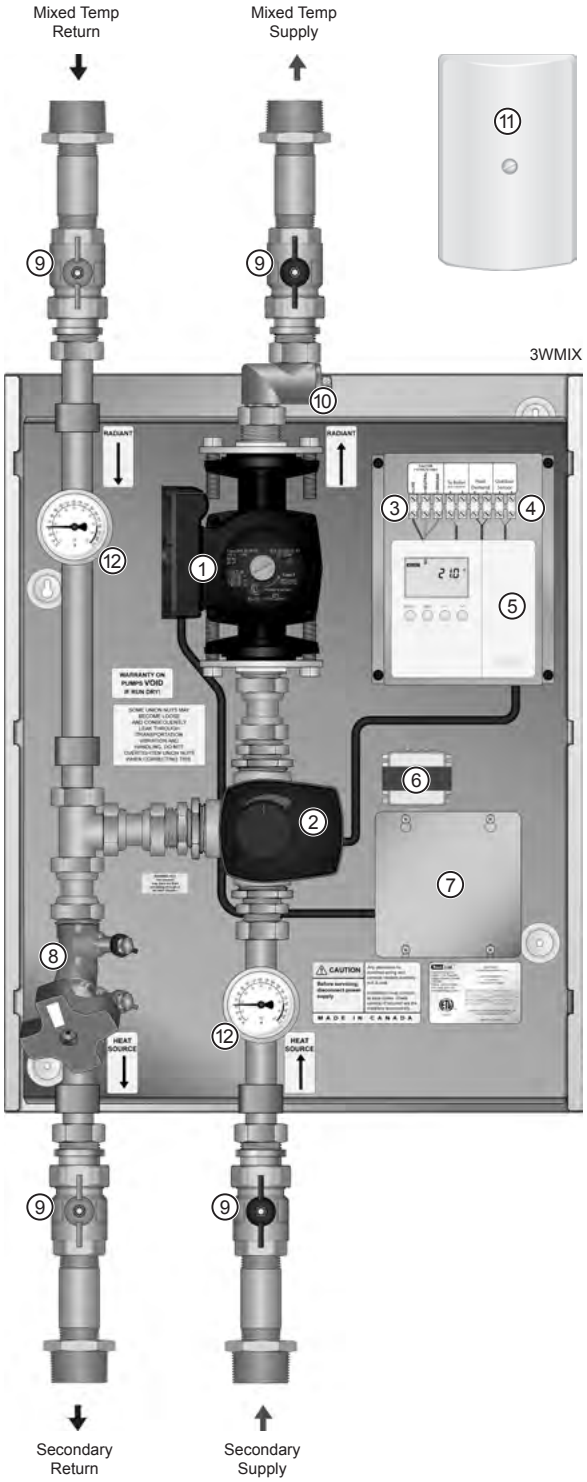
Sequence of operation (BMS):

- When the pump terminal block receives 120Vac power, the secondary pump will turn on and circulate the system water.
- The mixing valve motor will open or close the valve to adjust the supply water temperature according to input received at the mixing valve motor terminal block.

For complete specifications, see submittal SUB3WMIX or SUB3WMIX-BMS.

Panel Components

① Secondary Pump
② 3-Way Mixing Valve and Motor
③ 120Vac Terminal Strip
④ 24Vac Terminal Strip
⑤ HeatLink® #31355 Compact Mixing Control
⑥ 24Vac Transformer
⑦ Relay/Electrical Box
⑧ Balancing Valve
⑨ Isolation Valves
⑩ Supply Sensor (in well)
⑪ Outdoor Sensor
⑫ Thermometer
☑ Panel Enclosure (not shown)



Stk#	Description	Pkg Qty	Unit
3WMIX	3-Way Mixing Panel 1-¼" 26-99 Pump	1	ea.
3WMIXHH	3-Way Mixing Panel 1-¼" 26-150 Pump	1	ea.
3WMIX-BMS	3-Way Mixing Panel 1-¼" 26-99 Pump BMS	1	ea.
3WMIXHH-BMS	3-Way Mixing Panel 1-¼" 26-150 Pump BMS	1	ea.

4WMIX 4-Way Mixing Panels
4WMIX Series

These standalone panels provide outdoor reset control with a secondary pump, 4-way rotary mixing valve, and 3-point floating mixing valve motor. BMS versions have no control and terminal strips for the pump and DDC mixing valve motor.

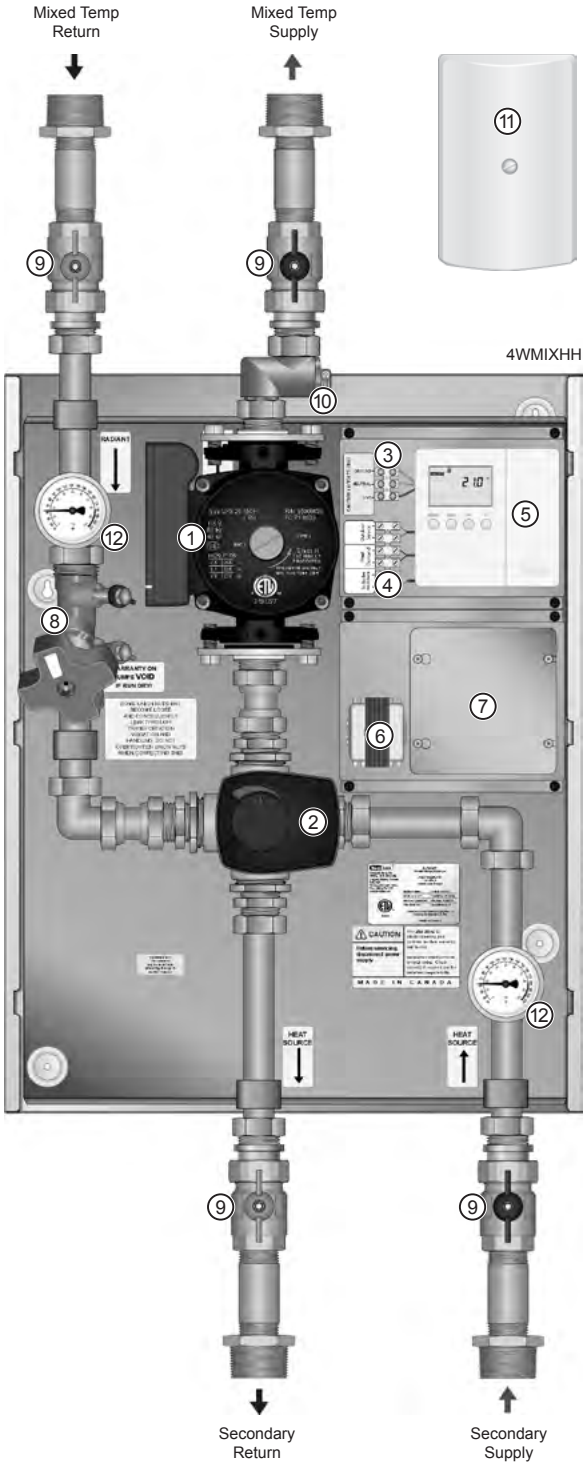
Sequence of operation (Outdoor Reset):

- When the panel receives a heat demand, the 31355 control is activated.
- If the control is not in Warm Weather Shut Down, the control operates the mixing valve, boiler, and pump to maintain an outdoor reset mix target temperature at the mix supply sensor.
- When the heat demand is removed, the control will close the mixing valve, open the boiler contacts, and stop the pump after the purge time.
- If the pump has not run in the past 3 days, the pump will run for 10 seconds.
- If the mixing valve has not operated its full stroke in the past 3 days, the control will operate the valve to the fully open position and then back to the fully closed position.

Sequence of operation (BMS):

- When the pump terminal block receives 120Vac power, the secondary pump will turn on and circulate the system water.
- The mixing valve motor will open or close the valve to adjust the supply water temperature according to input received at the mixing valve motor terminal block.

For complete specifications, see submittal SUB4WMIX or SUB4WMIX-BMS.



Panel Components

① Secondary Pump
② 4-Way Mixing Valve and Motor
③ 120Vac Terminal Strip
④ 24Vac Terminal Strip
⑤ HeatLink® #31355 Compact Mixing Control
⑥ 24Vac Transformer
⑦ Relay/Electrical Box
⑧ Balancing Valve
⑨ Isolation Valves
⑩ Supply Sensor (in well)
⑪ Outdoor Sensor
⑫ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
4WMIX	4-Way Mixing Panel 1-¼" 26-99 Pump	1	ea.
4WMIX-BMS	4-Way Mixing Panel 1-¼" 26-99 Pump BMS	1	ea.
4WMIXHH	4-Way Mixing Panel 1-¼" 26-150 Pump	1	ea.
4WMIXHH-BMS	4-Way Mixing Panel 1-¼" 26-150 Pump BMS	1	ea.

Advantages

- Pre-engineered solutions reduce design and quotation time.
- Reliable (ETL listed, UL 508, CSA standard), exceeds highest quality standards, with multiple test procedures for electrical and mechanical system components.
- Eliminate on-site design and reduced risk of on-site errors.
- Known cost; fewer surprises.
- Reduced installation times; time is money!
- Trouble-free start-ups every time!
- Fewer call-backs.
- Compact and aesthetically pleasing.
- Easily serviced and replaceable.
- Covered by a single warranty.

Snow Melt Panel Selection

These panels are intended for use in snow melt systems. All panels include the HeatLink® Snow Melt Control Package (#SMCP; page 71). Alternate controls or BMS versions are available. Snow/Ice Detector sold separately.

To select the panel that will work best for your system installation use the tables and definitions below. For additional assistance contact our technical or product support team.

Pg#	Panel Stk#	Nominal Output (MBH)	Heat Exchangers		Primary Pump	Secondary Pump			Mixing/Diverting Valve			BACnet Option
			3×8-20	3×8-30	UPS 26-99	UPS 26-99	UPS 26-150	UP 43-110	3-way Cv=11.7	3-way Cv=18.7	4-way Cv=18.7	
113	3WMIX-SMCP					•				•		
113	3WMIXHH-SMCP						•			•		
114	4WMIX-SMCP					•					•	
114	4WMIXHH-SMCP						•				•	
115	4WMIX-SMCP-BAC					•					•	•
115	4WMIX-HH-SMCP-BAC						•				•	•
116	SMP375SS	300			•	•			•			•
116	SMP375SSH	375			•		•		•			•
117	SMP175SS-HEX	175	2		•	•			•			•
117	SMP300SS-HEX	300		2	•	•			•			•
117	SMP300SS-HEX-H	365		3	•		•		•			•
118	SMP400D	400						•		•		•
119	SMP335	335	4					•		•		•
119	SMP425	425		4				•		•		•

3WMIX-SMCP 3-Way Mixing Panels w/ Snow Melt Control
3WMIX-SMCP Series

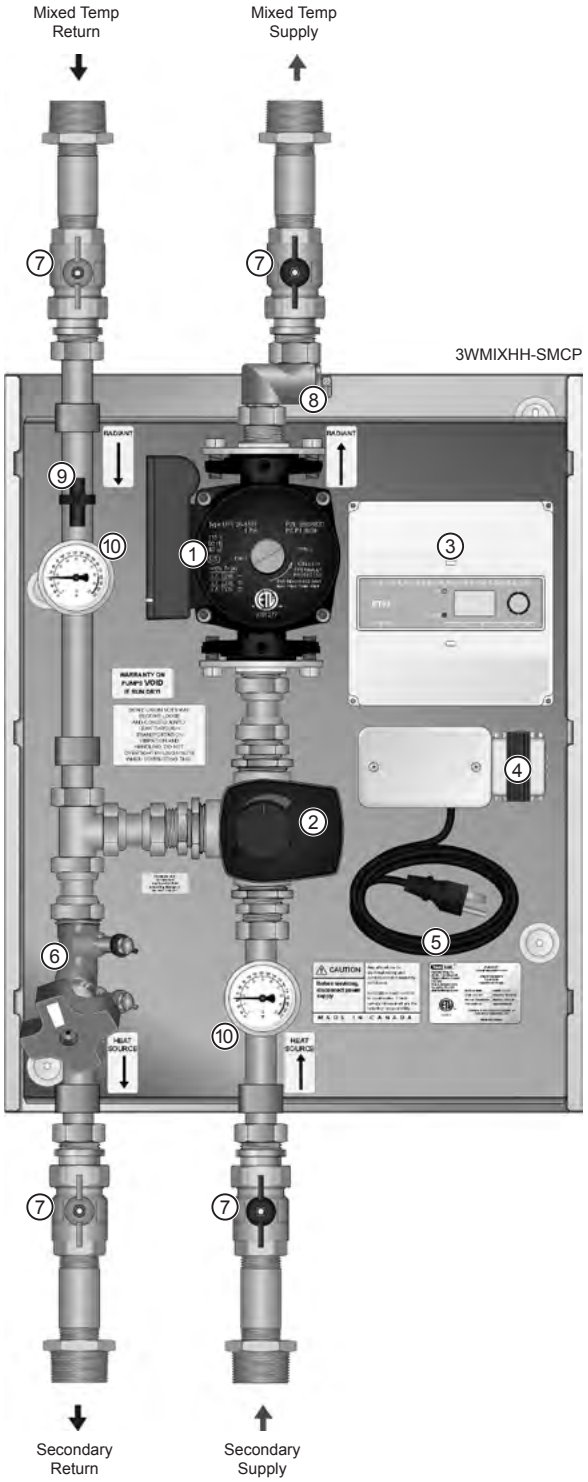
These Snow Melt Panels are operation centers for fully automatic snow melt systems. They can be used for snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance), or a non-dedicated heat source with a heat exchanger.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Secondary Pump for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUB3WMIX-SMCP.



Panel Components

① Secondary Pump
② 3-Way Mixing Valve and Motor
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ Balancing Valve
⑦ Isolation Valves
⑧ Supply Sensor (in well)
⑨ Return Sensor
⑩ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
3WMIX-SMCP	3-Way Mixing Panel 1-¼" 26-99 Pump Snow Melt	1	ea.
3WMIXHH-SMCP	3-Way Mixing Panel 1-¼" 26-150 Pump Snow Melt	1	ea.

4WMIX-SMCP 4-Way Mixing Panels w/ Snow Melt Control
4WMIX-SMCP Series

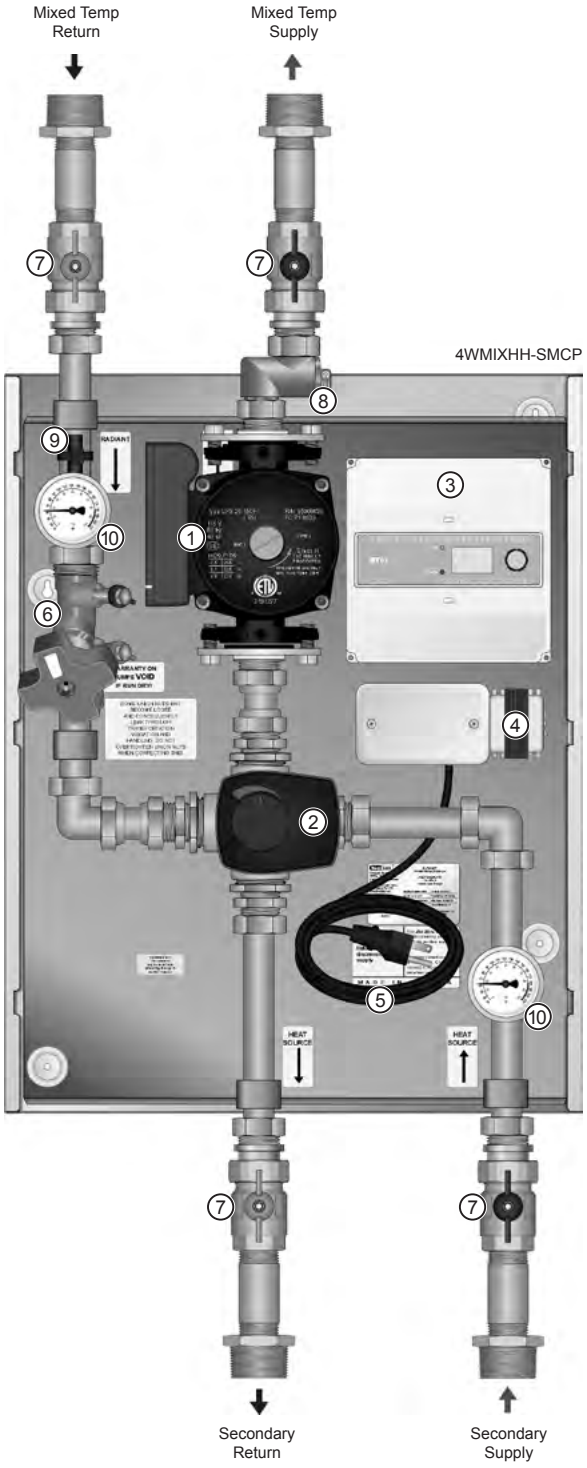
These Snow Melt Panels are operation centers for fully automatic snow melt systems. They can be used for snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance), or a non-dedicated heat source with a heat exchanger.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Secondary Pump for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUB4WMIX-SMCP.



Panel Components

① Secondary Pump
② 4-Way Mixing Valve and Motor
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ Balancing Valve
⑦ Isolation Valves
⑧ Supply Sensor (in well)
⑨ Return Sensor
⑩ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
4WMIX-SMCP	4-Way Mixing Panel 1-¼" 26-99 Pump Snow Melt	1	ea.
4WMIXHH-SMCP	4-Way Mixing Panel 1-¼" 26-150 Pump Snow Melt	1	ea.

4WMIX-SMCP-BAC 4-Way Mixing Panels w/ BACnet Snow Melt Control 4WMIX-SMCP-BAC Series

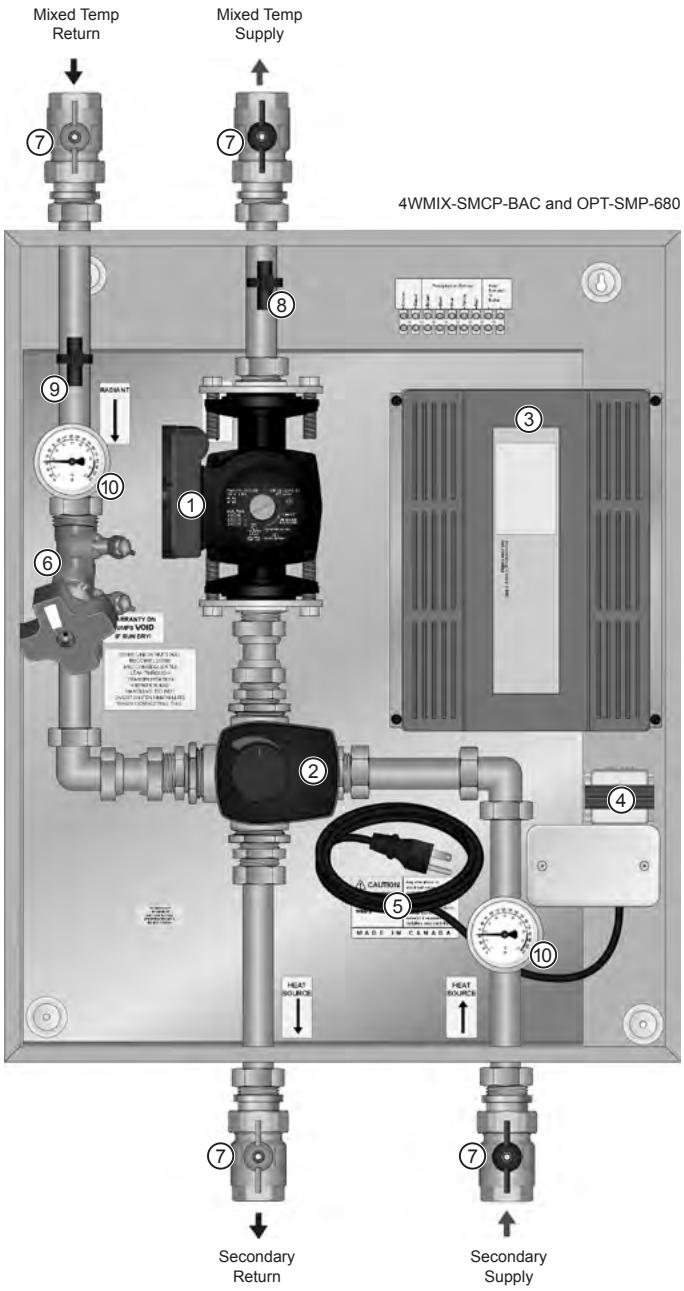
These Snow Melt Panels are operation centers for fully automatic snow melt systems. They can be used for snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance), or a non-dedicated heat source with a heat exchanger.

BACnet snow melt control uses Snow/Ice Detector #30090 (sold separately). See page 120 for panel options & accessories.

Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Secondary Pump for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUB4WMIX-SMCP-BAC.



Panel Components

① Secondary Pump
② 4-Way Mixing Valve and Motor
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ Balancing Valve
⑦ Isolation Valves
⑧ Supply Sensor
⑨ Return Sensor
⑩ Thermometer
☑ Panel Enclosure (not shown)

Stk#	Description	Pkg Qty	Unit
4WMIX-SMCP-BAC	4-Way Mixing Panel 1-¼" 26-99 Pump Snow Melt (requires OPT-SMP-680)	1	ea.
4WMIX-HH-SMCP-BAC	4-Way Mixing Panel 1-¼" 26-150 Pump Snow Melt (requires OPT-SMP-680)	1	ea.
OPT-SMP-680	Optional SMP Control Upgrade to BMS 680 BACnet (30090,30091 Sold Sep.)	1	ea.

Stainless Steel Snow Melt Panels
SMP000SS Series

The Snow Melt Panels are central operations centers for fully automatic snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance). Includes the primary and secondary pumps, snow melt control, mixing valve, mixing valve motor, transformer, thermometer, and isolation valves.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

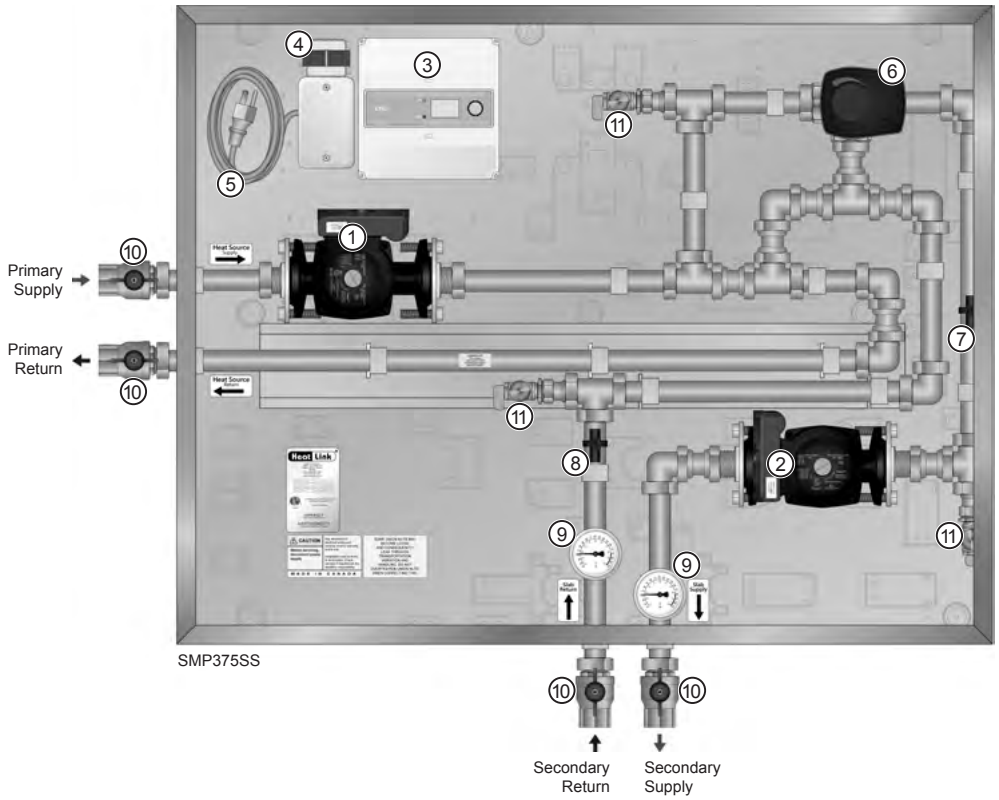
Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Primary and Secondary Pumps for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Primary and Secondary Pumps, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Primary and Secondary Pumps, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUBSMP000SS.

Panel Components

① Primary Pump
② Secondary Pump
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ 3-Way Mixing Valve with Motor
⑦ Supply Sensor
⑧ Return Sensor
⑨ Thermometer
⑩ Isolation Valve
⑪ Drain and Fill Valve
☑ Panel Cover (not shown)



SMP375SS

Stk#	Description	Pkg Qty	Unit
SMP375SS	SMP 300MBH SS Snow Melt Panel (No HEX; DRVWSNS-SS sold sep)	1	ea.
SMP375SSH	SMP 375MBH SS Snow Melt Panel with HH Pump (No HEX; DRVWSNS-SS sold sep)	1	ea.

Stainless Steel Snow Melt Panels with Heat Exchangers SMP000SS-HEX Series

The Snow Melt Panels are central operations centers for fully automatic snow melt systems requiring isolation. Includes the primary and secondary pumps, heat exchangers, snow melt control, mixing valve, mixing valve motor, transformer, thermometer, and isolation valves.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

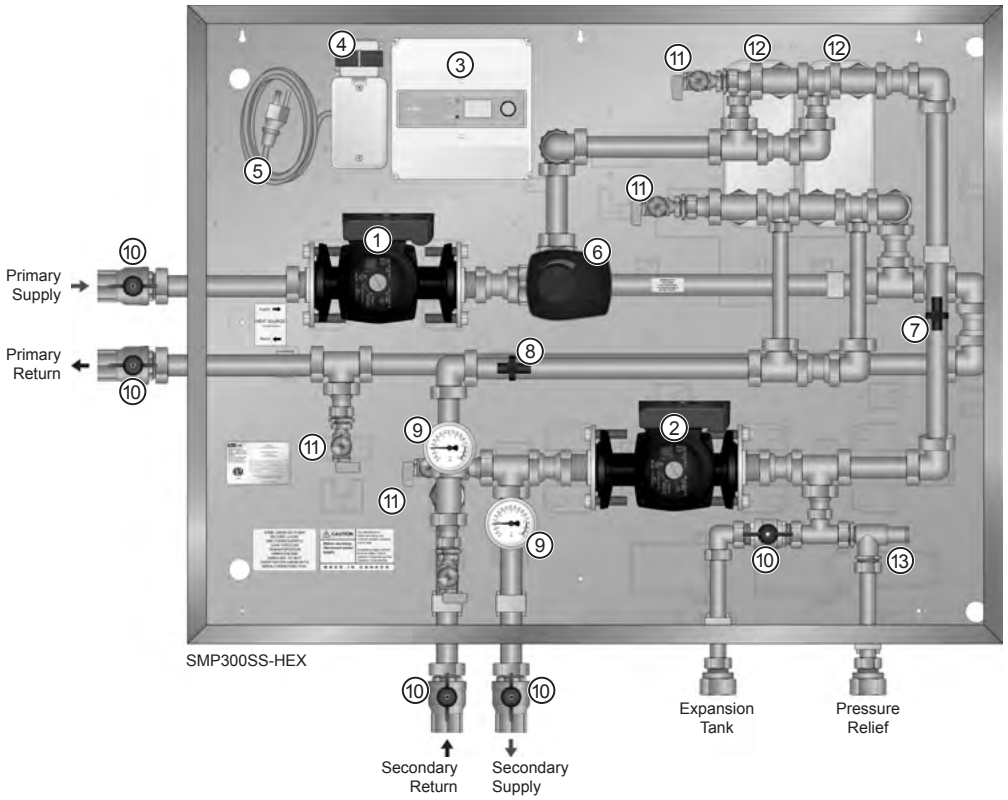
Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Primary and Secondary Pumps for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Primary and Secondary Pumps, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Primary and Secondary Pumps, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUBSMP000SSHEX.

Panel Components

① Primary Pump
② Secondary Pump
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ 3-Way Diverting Valve with Motor
⑦ Supply Sensor
⑧ Return Sensor
⑨ Thermometer
⑩ Isolation Valve
⑪ Drain and Fill Valve
⑫ Heat Exchanger
⑬ Pressure Relief Valve
☑ Panel Cover (not shown)



Stk#	Description	Pkg Qty	Unit
SMP175SS-HEX	SMP 175MBH SS Snow Melt Panel 2×20 HEX (DRVWSNS-SS sold sep)	1	ea.
SMP300SS-HEX	SMP 300MBH SS Snow Melt Panel 2×30 HEX (DRVWSNS-SS sold sep)	1	ea.
SMP300SS-HEX-H	SMP 365MBH SS Snow Melt Panel 3×30 HEX & HH Pump (DRVWSNS-SS sold sep)	1	ea.

SMP 400 MBH Snow Melt Panel without Heat Exchangers
Stk# SMP400D

The SMP400D Snow Melt Panel is a central operations center for a fully automatic snow melt system with a dedicated heat source (e.g. a boiler or other non-DHW appliance). Includes the secondary pump, snow melt control, mixing valve, mixing valve motor, transformer, thermometer, pressure gauges, air eliminator, balancing valves, and isolation valves.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

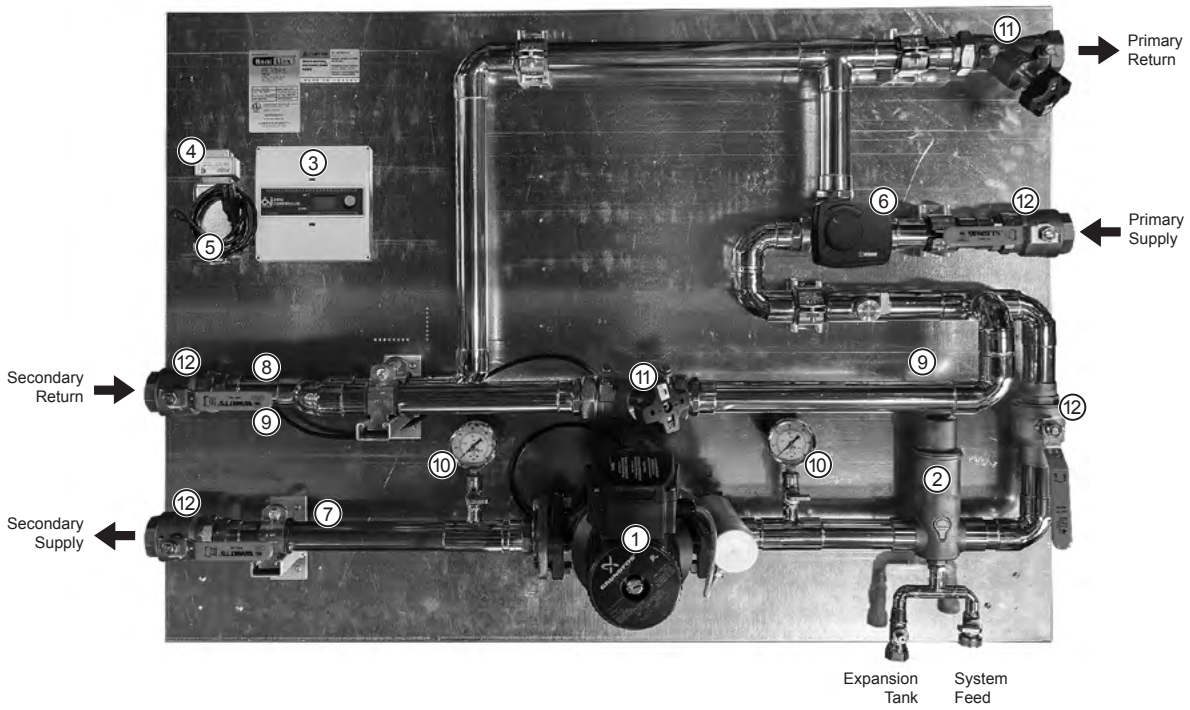
Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Secondary Pump for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUBSMP000D.

Panel Components

① Secondary Pump
② Air Eliminator
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ 3-Way Diverting Valve with Motor
⑦ Supply Sensor (not shown)
⑧ Return Sensor (not shown)
⑨ Thermometer (not shown)
⑩ Pressure Gauge
⑪ Balancing Valve
⑫ Isolation Valve
☑ Panel Enclosure and Cover (not shown)



Stk#	Description	Pkg Qty	Unit
SMP400D	SMP 400MBH Copper Snow Melt Panel (No HEX; DRVWSNS-SS sold sep)	1	ea.

SMP 335-425 MBH Snow Melt Panels with Heat Exchangers
SMP000 Series

The SMP335-425 Snow Melt Panels are central operations centers for fully automatic snow melt systems requiring isolation. Includes the secondary pump, snow melt control, mixing valve, mixing valve motor, transformer, thermometer, pressure gauges, heat exchangers, air eliminator, balancing valves, and isolation valves.

Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS and Outdoor Temperature Sensor #ETF-1733/44/55 (both sold separately). See page 120 for panel options & accessories.

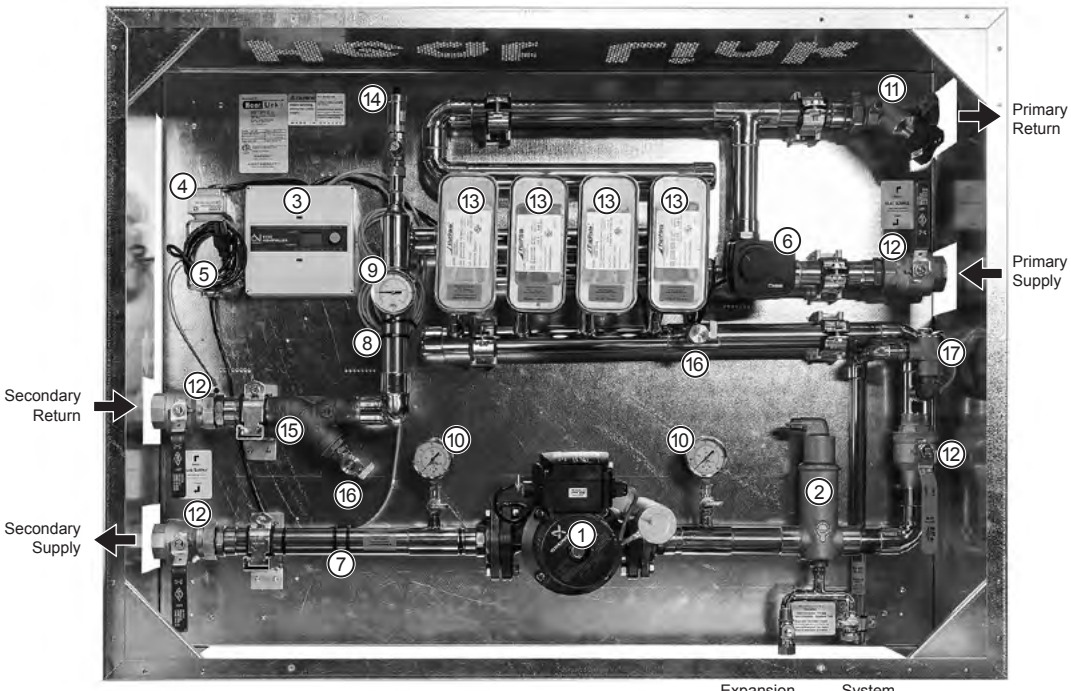
Sequence of operation:

- When the temperature read by the Snow/Ice Detector is below warm weather shutdown setting, the Snow Melt Control will activate. It will start the Secondary Pump for 1 minute every 15 minutes to check the return water temperature. If the return water temperature is below the minimum return water temperature the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the return water temperature to the required level.
- When the Snow/Ice Detector senses snow fall, the Snow Melt Control will start the Secondary Pump, close the Auxiliary Terminals, and open the mixing valve to increase the flow temperature to the maximum supply water temperature. When no more snow is detected by the Snow/Ice Detector, the Snow Melt Control continues to operate the system for an additional user adjustable period of time.
- When the temperature read by the Snow/Ice Detector is below cold weather cutoff setting, the Snow Melt Control will be in standby mode.

For complete specifications, see submittal SUBSMP000.

Panel Components

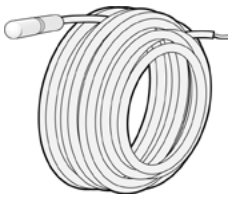
① Secondary Pump
② Air Eliminator
③ Snow Melt Control
④ 24Vac Transformer
⑤ 120Vac 6' Power Cord
⑥ 3-Way Diverting Valve with Motor
⑦ Supply Sensor
⑧ Return Sensor
⑨ Thermometer
⑩ Pressure Gauge
⑪ Balancing Valve
⑫ Isolation Valve
⑬ Heat Exchanger
⑭ Automatic Air Vent
⑮ Strainer
⑯ Drain and Fill Valve
⑰ Pressure Relief Valve
☑ Panel Cover (not shown)



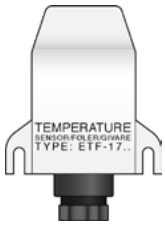
SMP335

Stk#	Description	Pkg Qty	Unit
SMP335	SMP 335MBH Copper Snow Melt Panel 4×20 Plate HEX (DRVWSNS-SS sold sep)	1	ea.
SMP425	SMP 425MBH Copper Snow Melt Panel 4×30 Plate HEX (DRVWSNS-SS sold sep)	1	ea.

ETF-144/99A



ETF-1733/44/55



Sensor NTC 12K
ETF Series

Optional NTC 12K sensors for use with the ETO2SMCNTR snow melt control, SMCP, or standard Snow Melt Panels.

For complete specifications, see submittal SUBETF14499A or SUBETF17334455.

Stk#	Description	Pkg Qty	Unit
ETF-144/99A	Slab Sensor (12k) PVC Sleeve 8ft Cable for ETO2SMCNTR SnowmeltController	1	ea.
ETF-1733/44/55	Optional Outdoor Sensor for SMCP & SMP Panels	1	ea.

Snow/Ice Detector (Sensor)
Stk# DRVWSNS-SS

This snow/ice sensor in conjunction with the ETO2SMCNTR snow melt control, SMCP, or standard Snow Melt Panels, activates and controls a snow melting system based on moisture (snow/ice) and slab temperature.

For complete specifications, see submittal SUBDRVWSNSSS.

Stk#	Description	Pkg Qty	Unit
DRVWSNS-SS	Driveway Sensor for SMP Panels	1	ea.

Replace SMCP with 31680 Control for SMP Panels
Stk# OPT-SMP-680

Replaces the standard snow melt panel control (SMCP) with 31680 Snow Melt Control 680-BMS BACnet (page 69).

For complete specifications, see submittal SUB31680.

Stk#	Description	Pkg Qty	Unit
OPT-SMP-680	Optional SMP Control Upgrade to BMS 680 BACnet (30090,30091 Sold Sep.)	1	ea.

Snow/Ice Detector (Sensor)
Stk# 30090, 30091

This snow/ice sensor in conjunction with the 31680, activates and controls a snow melting system based on moisture (snow/ice) and slab temperature. This control is not designed as a simple detection device and will not operate properly in an unheated slab.

For use with snow melt panels using 31680 control.

For complete specifications, see submittal SUB30090.

Stk#	Description	Pkg Qty	Unit
30090	Snow/Ice Sensor (10K) 65 ft cable	1	ea.
30091	Snow/Ice Sensor Socket	1	ea.

J-Clips
12000 Series

Fasten tubing to joists.

For complete specifications, see submittal SUB12000.

Stk#	Description	Pkg Qty	Carton Qty	Unit
12005	½" J-Clip	100	2000	ea.
12022	¾" J-Clip	100	1000	ea.
12028	1" J-Clip	50	500	ea.

Plastic Bend Support
86100 Series

Allows for easy bending support and removal.

For complete specifications, see submittal SUB86100.

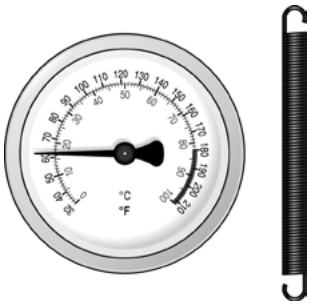
Stk#	Description	Pkg Qty	Carton Qty	Unit
86105	Plastic Bend Support for ⅜" and ½" Tubing	1	300	ea.
86122	Plastic Bend Support for ¾" Tubing	1	400	ea.

Metal Drop Ear Bend Support
Stk# 86255

Allows for easy bending support and removal of a PEX tubing stub out from a wall or floor.

For complete specifications, see submittal SUB86255.

Stk#	Description	Pkg Qty	Carton Qty	Unit
86255	Metal Drop Ear Bend Support for ½" Tubing	25	100	ea.



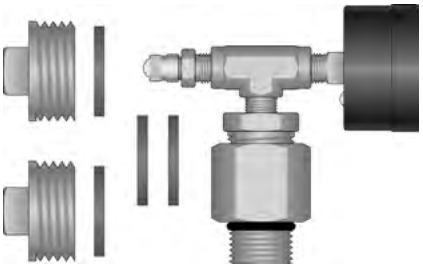
HeatLink® Strap-on Thermometer
Stk# 76940

This surface mounted thermometer is used to measure surface temperatures of metallic piping. The Strap-on Thermometers can be mounted on pipe sizes ranging from ⅜" to 1-½". Suggested applications: Use on stainless steel manifolds or supply and return piping to measure water temperatures.

Range: 0 - 100°C, 32 - 212°F (dual scale)

For complete specifications, see submittal SUB76940.

Stk#	Description	Pkg Qty	Carton Qty	Unit
76940	Strap-on Thermometer	1		ea.



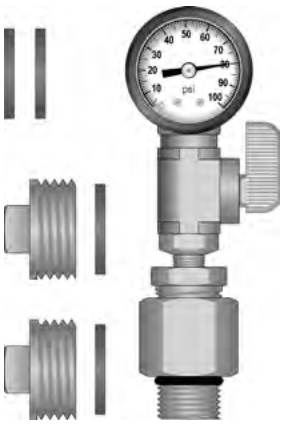
Pressure Test Kit
Stk# 79935

Pressure test kit for use with heating manifolds.
TwistSeal® - replaces automatic air vent on cross tee for testing purposes.
Stainless Steel - replaces a flow meter or hose bib for testing purposes.

Kit includes two 1" plugs and 4 red rubber gaskets (2 are spares).
For air tests with the TwistSeal® Mini, use the red rubber gaskets; for hydrostatic tests use green fibre gaskets (included in manifold assembly kit).

For complete specifications, see submittal SUB79935.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79935	Pressure Test Kit	1		ea.



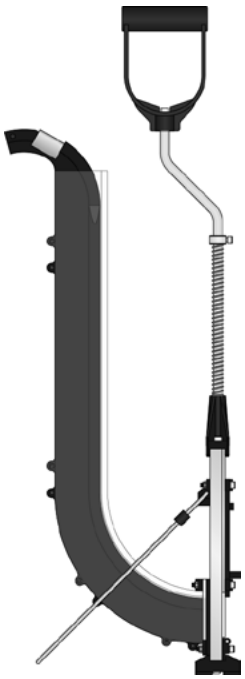
Pressure Test Kit with Valve
Stk# 79965

Pressure test kit with valve for use with heating manifolds. The valve allows the gauge to be 'zeroed' and demonstrate the system is under pressure.
TwistSeal® - replaces automatic air vent on cross tee for testing purposes.
Stainless Steel - replaces a flow meter or hose bib for testing purposes.

Kit includes two 1" plugs and 4 red rubber gaskets (2 are spares).
For air tests with the TwistSeal® Mini, use the red rubber gaskets; for hydrostatic tests use green fibre gaskets (included in manifold assembly kit).

For complete specifications, see submittal SUB79935.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79965	Pressure Test Kit with Extra Valve to Zero Gauge	1		ea.

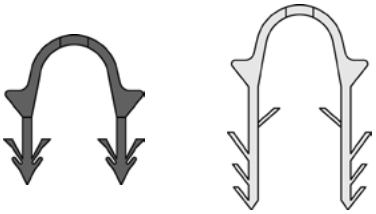


HeatLink® Deluxe Staple Gun
Stk# 10230

Lightweight and easy to use manual staple gun. Use 89250 series staples to fasten up to ⅝" (or 20 mm O.D.) PEX tubing to polystyrene insulation.

For complete specifications, see submittal SUB10230.

Stk#	Description	Pkg Qty	Carton Qty	Unit
10230	HeatLink® Deluxe Staple Gun	1		ea.



Staples for Deluxe Staple Gun
89250 Series

Staples for fastening up to ⅝" (or 20mm O.D.) PEX tubing to polystyrene insulation. For use with HeatLink® Deluxe Staple Gun #10230.

For complete specifications, see submittal SUB89250.

Stk#	Description	Pkg Qty	Carton Qty	Unit
89251	300× 1-½" Staples for HeatLink® Deluxe Staple Gun	1	20	box
89252	300× 2" Staples for HeatLink® Deluxe Staple Gun	1	10	box

Staples for Stand-up Stapler (old style)
89240 Series

Staples for fastening up to ½" (or 18mm O.D.) PEX tubing to polystyrene insulation. For use with Stand-up Stapler #10220 (discontinued).

For complete specifications, see submittal SUB89240.

Stk#	Description	Pkg Qty	Carton Qty	Unit
89244	300× 2-⅜" (60mm) Staples for Stand-up Stapler	1	20	box

HeatLink® Galvanized PEX Tubing Dispenser
Stk# 10005

A PEX tubing dispenser is invaluable for tubing installation. Made of galvanized steel for long-term durability and maintenance free operation. Easy assembly and disassembly without tools.

Specifications:

- PEX diameter: up to ¾"
- Max coil weight: 114.6 lb (52 kg)
- Max coil height: 24" (60 cm)
- Min inner coil diameter: 11-½" (29 cm)
- Max outer coil diameter: 44" (112 cm)

For complete specifications, see submittal SUB10005.

Stk#	Description	Pkg Qty	Carton Qty	Unit
10005	HeatLink Galvanized PEX Tubing Dispenser	1		ea.

PEX Tubing Cutters
Stk# 10100

Quick precision cutting on PEX tubing or non-metallic tubing.

For complete specifications, see submittal SUB10100.

Stk#	Description	Pkg Qty	Carton Qty	Unit
10100	HeatLink® PEX Tubing Cutters	1	50	ea.

PEX Tubing Cutter
Stk# 10101

Radial tubing cutter for ½" and ¾" PEX. Keeps tubing round so fittings are easy to insert.

Stk#	Description	Pkg Qty	Carton Qty	Unit
10101	HeatLink Red PEX Pipe Cutter (QC ½" & ¾")	1		ea.

Multi-purpose Wrench
Stk# 79922

Wrench for use with TwistSeal® and TwistSeal® Mini manifold module nut and valve base.

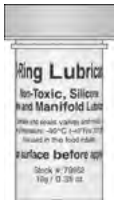
For complete specifications, see submittal SUB79922.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79922	Multiwrench for Manifold Nut and Base	1		ea.

Assembly Tool for TwistSeal® Mini Multiport Valves
Stk# 78314

Tool used to remove and install TwistSeal® Mini Multiport valve cartridges.

Stk#	Description	Pkg Qty	Carton Qty	Unit
78314	Assembly tool for TwistSeal® Mini Multiport Valves	1		ea.



Non-Toxic Silicone O-Ring Lubricant
Stk# 79951 & 79952

Lubrication for the manifold o-rings. Non-toxic silicone grease. Highly recommended for trouble free installation of manifold components.

For more information, see SDS alternative L2801.

Stk#	Description	Pkg Qty	Carton Qty	Unit
79951	100g Bottle Non-toxic Silicone O-ring Lubricant	1		ea.
79952	10g Bottle Non-toxic Silicone O-ring Lubricant	1		ea.


11305

11325

11328

Press Tool for Stainless Steel Sleeves
11300 Series

Designed to create a watertight seal, the Press Sleeve Tool has a toggle action handle. Easy to load and simple to press, the pressed stainless steel sleeve provides a finished appearance on the transition from the end of the PEX to the insert fitting.

For complete specifications, see submittal SUB11300.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11305	½" Standard Press Tool for SS Sleeve	1	10	ea.
11322	¾" Standard Press Tool for SS Sleeve	1	10	ea.
11325	½" & ¾" Combo Standard Press Tool for SS Sleeve	1	10	ea.
11328	1" Standard Press Tool for SS Sleeve	1	10	ea.
11335	1-¼" Standard Press Tool for SS Sleeve	1	10	ea.
11341	1-½" Standard Press Tool for SS Sleeve	1	10	ea.

Confined Space Press Tool for Stainless Steel Sleeves Stk# 11430 Series

The new Confined Space Press Tool is designed for one or two handed pressing and its unique design and expanded utility showcase HeatLink's focus on listening to the needs of customers and developing effective solutions for challenging situations. The Confined Space Tool is perfect for use in tight spaces where HPP Multiport Tees are used. It incorporates a "W" press profile for visual identification of an effective press and the handles can be opened in narrow spaces. The new tool is also smaller and lighter than the 11300 series press tools.

For complete specifications, see submittal SUB11430.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11433	½" Confined Space Press Tool	1	20	ea.
11434	¾" Confined Space Press Tool	1	20	ea.

Confined Space Press Tool for Stainless Steel Sleeves Stk# 11435

The Confined Space Press Tool comes with interchangeable collars for ½", ¾" and 1" PEX tubing. Adjustable lever allows for easier pressing with multiple squeezes. Comes with storage case.

For complete specifications, see submittal SUB11435.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11435	3-in-1 Confined Space Press Tool with Case	1		ea.

Slim-line Power Press Tool
Stk# 11500

HeatLink's Slim-line Power Press Tool is designed for increased efficiency and reduced fatigue for plumbing and heating system installers. The new Slim-line tool makes larger diameter PEX connections effortless and has interchangeable jaws (sold separately) ranging from ½" to 1-½". Short pressing cycles of 3-4 seconds are now possible with HeatLink's new Slim-line tool and its efficiency is further supported by an extremely quick charging time of just 15 minutes. The tool is built using high quality and powerful Makita Li-Ion technology and incorporates biodegradable oil that is non-hazardous to water and has received the "Blue Angel" ecolabel.

Comes with one 18V 1.3Ah Li-ion battery, battery charger, and hard plastic case.

Jaws for the Power Press Tool are sold separately.

For complete specifications, see submittal SUB11500.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11500	Slim-line Power Press Tool	1		ea.

11505

11541

Jaws for Slim-line Power Press Tool
11500 Series

Jaws for use with the Slim-line Power Press Tool (#11500).

Compatible with the following third-party tools:

- Nibco PC-20M Mini
- Nibco PC-10M Mini
- Rothenberger Compact

May be compatible with other third-party tools, please contact your local representative to confirm.

For complete specifications, see submittal SUB11505.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11505	½" Jaws for Slim-line Power Press Tool	1	10	ea.
11522	¾" Jaws for Slim-line Power Press Tool	1	10	ea.
11528	1" Jaws for Slim-line Power Press Tool	1	10	ea.
11535	1-¼" Jaws for Slim-line Power Press Tool	1	10	ea.
11541	1-½" Jaws for Slim-line Power Press Tool	1	10	ea.

Power Press Tool with Pistol Grip
Stk# 11600

HeatLink's new Pistol Grip Power Press Tool is designed for increased efficiency and reduced fatigue for plumbing and heating system installers. The Pistol Grip tool makes large diameter PEX connections effortless and features interchangeable jaws (sold separately) ranging from ½" to 2". Short pressing cycles of 3-4 seconds are now possible with HeatLink's new Pistol Grip tool, and its efficiency is further supported by an extremely quick charging time of just 15 minutes. The tool is built using high quality and powerful Makita Li-Ion technology and incorporates biodegradable oil that is non-hazardous to water and has received the "Blue Angel" ecolabel.

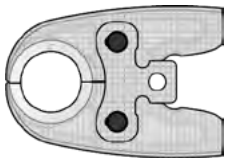
Comes with one 18V 1.3Ah Li-ion battery, battery charger, and hard plastic case.

Jaws for the Power Press Tool are sold separately.

For complete specifications, see submittal SUB11600.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11600	Power Press Tool with Pistol Grip	1		ea.

11628



11654W

Jaws for Power Press Tool with Pistol Grip
11600 Series

Jaws compatible with the following third-party tools:

- Nibco PC-280
- Nibco PC-100
- Ridgid 320-E
- Ridgid RP330-B
- Ridgid CT400
- Ridgid RP330-C
- Ridgid RP340
- Milwaukee 2673-20
- Milwaukee 2673-20L
- Milwaukee 2773-20
- Milwaukee 2773-20L
- REMS 571011
- REMS 577010
- REMS 572111
- REMS 571013
- REMS 571014
- Victaulic Vic-Press™ Tool - Style PFT510

May be compatible with other third-party tools, please contact your local representative to confirm.

For complete specifications, see submittal SUB11605.

Stk#	Description	Pkg Qty	Carton Qty	Unit
11605	½" Jaws for Power Press Tool with Pistol Grip	1	10	ea.
11622	¾" Jaws for Power Press Tool with Pistol Grip	1	10	ea.
11628	1" Jaws for Power Press Tool with Pistol Grip	1	10	ea.
11635	1-¼" Jaws for Power Press Tool with Pistol Grip	1	12	ea.
11641	1-½" Jaws for Power Press Tool with Pistol Grip	1	8	ea.
11654W	2" Jaws for Power Press Tool with Pistol Grip	1		ea.

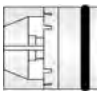
	Stk#	Description	Qty	Unit
TwistSeal® (55mm) Manifold				
	78401	TwistSeal® Deluxe (55mm) Zone Valve Supply Module (c/w o-ring)	1	ea.
	78402	TwistSeal® Deluxe (55mm) Balancing Return Module (c/w o-ring)	1	ea.
	78411	TwistSeal® (55mm) Zone Valve Replacement Cartridge c/w O-ring	1	ea.
	78924	O-ring for TwistSeal® (55mm) Manifold Module O-ring #223.	5	ea.
	79901	TwistSeal® (55mm) Closed End Cap Self-sealing end piece which closes manifold.	1	ea.
	79902	1" TwistSeal® (55mm) Supply End Connection Self-sealing end-piece with 1" FNPT brass insert. (c/w o-ring).	1	ea.
	79908	TwistSeal® (55mm) Cross Tee	1	ea.
TwistSeal® Mini (40mm) Manifold				
	78210	TwistSeal® Mini Deluxe (40mm) Zone Valve Supply Module The supply module (c/w o-ring) provides on/off manual control to allow isolation of individual loops.	1	ea.
	78211	TwistSeal® Mini Deluxe (40mm) Balancing Return Module	1	ea.
	78221	TwistSeal® Mini (40mm) Zone Valve Replacement Cartridge c/w O-ring For TwistSeal® Mini (40 mm) shut-off modules.	1	ea.
	78311	TwistSeal® Mini Z.V. Rplcmnt. Cartridge for MultiportModule	1	ea.
	78312	TwistSeal® Mini Flow Meter Replacement Cartridge for 78300 Modules	1	ea.
	78923	O-ring for TwistSeal® Mini (40mm) & EasyFit™ Manifold Modules O-ring #123.	5	ea.
	79801	TwistSeal® Mini (40mm) Closed End Cap Self-sealing end-piece which closes manifold.	1	ea.

	Stk#	Description	Qty	Unit
	79808	TwistSeal® Mini (40mm) Cross Tee c/w O-ring (c/w o-ring)	1	ea.
	79815	1" TwistSeal® Mini (40mm) Union Cross Tee End Connection (c/w o-ring)	1	ea.
	79942	Pair Thermometers for TwistSeal® Mini Union Cross Tee End Connection	1	pair
	79954	Gasket for TwistSeal® Mini (40mm) 1" Union Supply End Connection	1	pair
TwistSeal® (40 & 55mm) Manifold				
	77729	O-ring for PEX to TwistSeal® Manifold Connecter 15×2mm o-ring for use with #77000 Series & #23000 Series.	10	ea.
	78902	Plastic Nut for TwistSeal® Manifold Modules	1	ea.
	78904	Shut-off Cap TwistSeal® - Red - *While Supplies Last*	1	ea.
	79911	½" Cross Tee Plug For use with Cross Tee, comes complete with o-ring.	1	ea.
	79930	Metal Hose Bib System can easily be charged at manifold location. For use with the Cross Tee.	1	ea.
	79931	Manual Air Vent Used for manually removing air from system. For use with the Cross Tee.	1	ea.
	79932	Metal Automatic Air Vent Automatically removes air from system. For use with Cross Tee.	1	ea.
	79933	Manual Air Vent Key - 5mm Square, Blue Opens the manual air vent (#79931).	1	ea.
	79934	Plastic Hose Bib System can easily be charged at manifold location. For use with the Cross Tee.	1	ea.
	79936	Plastic Automatic Air Vent Automatically removes air from system. For use with Cross Tee.	1	ea.
	79940	Pair Thermometers c/w Well for TwistSeal® Manifolds	1	pair

	Stk#	Description	Qty	Unit
1-¼" Stainless Steel Manifold				
	76101	Mounting Bracket for SS Manifold	1	ea.
	76192	1" NPT Adapter for SS Manifold	1	ea.
	76911	Zone Valve Insert for 1-¼" SS Manifold (Return)	1	ea.
	76912	Balancing Valve Insert for High Flow SS Manifold (Supply)	1	ea.
	76916	Flow Meter Valve Insert (0-1.5 USgpm Lock Nut) for 1-¼" SS Mfd (Sup.) Only compatible with #76918 Manifold Connecter Base.	1	ea.
	76917	Flow Meter Valve Insert (0-6 L/min) for 1-¼" SS Manifold (New Design)	1	ea.
	76918	Connecter Base for 1-¼" SS Manifold (Flow Meter w/Lock Nut) Only compatible with #76916 Flow Meter with Lock Nut.	1	ea.
	76919	Connecter Base for 1-¼" SS Manifold Not compatible with #76916 Flow Meter with Lock Nut.	1	ea.
	76922	1" Ball Valve Set for 1-¼" SS Manifold	1	set
	76925	Black Shut-off Cap for 1-¼" SS Manifold	1	ea.
	76930	Hose Bib for 1-¼" SS Manifold	1	ea.
	76936	Pressure Bypass for 1-¼" SS Manifold (requires 77105 & PEX)	1	ea.

	Stk#	Description	Qty	Unit
Valves - 3-Way Mixing				
	63026.1	1" 3- & 4-Way Valve Shaft & Seal Kit	1	ea.
	63542.1	1-¼" and 1-½" 3- & 4-Way Valve Shaft & Seal Kit	1	ea.
	63551.1	2" 3- & 4-Way Valve Shaft & Seal Kit	1	ea.
	58130.1	Adapter for HeatLink 1"- 2" Rotary Actuator to WITA Valve	1	ea.
Sensors				
	ETF1899ASNS	Sensor NTC 12K (Spare parts for #SMCP) - Special Order**	1	ea.
Tools				
	11328.1	1" Standard Press Tool for SS Sleeve - Go-No-Go Gauge	1	ea.
	11433.1	Confined Space Tool Gauge (All Sizes)	1	ea.
	11435.1	Replacement Blade Kit for #11435 Includes blade, clevis pin, retaining clip, spring,and shoulder washers (2).	1	ea.
	11435.2	Rebuild Kit for #11435 Includes cam pin, long (body) pins (2), E-clips (3).	1	ea.
	11435.3	½" SS Collars (Set) for #11435	1	ea.
	11435.4	¾" SS Collars (Set) for #11435	1	ea.
	11435.5	1" SS Collars (Set) for #11435	1	ea.
	11438	E-Clips for Confined Space Tools (12 per bag) For 11433, 11434, and 11435.	1	bag
	11439	Rebuild Kit for Confined Space Tool For 11433 and 11434.	1	ea.

	Stk#	Description	Qty	Unit
	11901	Replacement Retaining Rings for Press Tools (10 per bag) For 11305, 11322, 11325, 11328, 11335, 11341, 11405, and 11422.	1	bag
	11902	Rebuild Kit for Straight ½" & ¾" Press Tools For metal and composite handle 11305 and11322.	1	ea.
	11903	Rebuild Kit for 1", 1-¼" Angle, Straight and Combo Press Tools For 11325, 11328, 11335, 11341, 11405, and 11422.	1	ea.
Mechanical Room in a Box				
	NTRWSH1	1" x 3mm Blk Nitrile Washer for Panels	5	ea.
	NTRWSH1-SRV	1" x 1.5mm Blk Nitrile (replacement washers Pre-2014 Panels)	5	ea.
	NTRWSH34	¾" x 3mm Blk Nitrile Washer for Panels	5	ea.
	NTRWSH34-SRV	¾" x 1.5mm Blk Nitrile (replacement washers Pre-2014 Panels)	5	ea.
	PLC1R2	Controller for TMP040/070, SMP, ZMP, ELB and old SSP/SST	1	ea.
	PLC4AR2	Controller for TMP085DP, TMP200DT	1	ea.
	PLC5R2	Controller for TWH070Z using FLWSWTCH	1	ea.
	PLC6R2P3	Controller for CDP Panels with 3 Pumps	1	ea.
	PLC6R2P4	Controller for CDP Panels with 4 Pumps	1	ea.
	PLC7R1P1	Controller for WHP using HEPPS	1	ea.
	PLC7R1P2	Controller for HEP using HEPPS	1	ea.
	PLC7R1P2-TWH	Controller for TWH (except for Z models) using HEPPS	1	ea.

	Stk#	Description	Qty	Unit
	PLC7R2P1	Controller for WHP using FLWSWTCH	1	ea.
	PLC7R2P2	Controller for HEP, TWH (except Z) using FLWSWTCH	1	ea.
	PLINTR40VA	24Vac 40VA Plug-in Transformer for Panels	1	ea.
	CHVLV20	Check Valve for UPS15-58 Pump	1	ea.
	PUMP1558	UPS15-58RU Composite 115V Pump	1	ea.
	PUMP2699	UPS26-99FC 115V Cast Iron Pump	1	ea.
	PUMP2699BR	UPS26-99BFC 115V Bronze Pump	1	ea.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
00412	HeatLink Preventative Maintenance Water Analysis (requires wsb2)		1	ea.	76
01205	1L Corrosion Inhibitor (Molybdate Based)		1	bottle	76
01311	1L Purging Compound (Pre & Post Operational Cleaner)		1	bottle	76
10005	HeatLink Galvanized PEX Tubing Dispenser		1	ea.	124
10100	HeatLink® PEX Tubing Cutters		1	ea.	124
10101	HeatLink Red PEX Pipe Cutter (QC ½" & ¾")		1	ea.	124
10230	HeatLink® Deluxe Staple Gun		1	ea.	123
11305	½" Standard Press Tool for SS Sleeve		1	ea.	126
11322	¾" Standard Press Tool for SS Sleeve		1	ea.	126
11325	½" & ¾" Combo Standard Press Tool for SS Sleeve		1	ea.	126
11328	1" Standard Press Tool for SS Sleeve		1	ea.	126
11328.1	1" Standard Press Tool for SS Sleeve - Go-No-Go Gauge		1	ea.	133
11335	1-¼" Standard Press Tool for SS Sleeve		1	ea.	126
11341	1-½" Standard Press Tool for SS Sleeve		1	ea.	126
11433	½" Confined Space Press Tool		1	ea.	127
11433.1	Confined Space Tool Gauge (All Sizes)		1	ea.	133
11434	¾" Confined Space Press Tool		1	ea.	127
11435	3-in-1 Confined Space Press Tool with Case		1	ea.	127
11435.1	Replacement Blade Kit for #11435		1	ea.	133
11435.2	Rebuild Kit for #11435		1	ea.	133
11435.3	½" SS Collars (Set) for #11435		1	ea.	133
11435.4	¾" SS Collars (Set) for #11435		1	ea.	133
11435.5	1" SS Collars (Set) for #11435		1	ea.	133
11438	E-Clips for Confined Space Tools (12 per bag)		1	bag	133
11439	Rebuild Kit for Confined Space Tool		1	ea.	133
11500	Slim-line Power Press Tool		1	ea.	128
11505	½" Jaws for Slim-line Power Press Tool		1	ea.	128
11522	¾" Jaws For Slim-line Power Press Tool		1	ea.	128
11528	1" Jaws for Slim-line Power Press Tool		1	ea.	128
11535	1-¼" Jaws for Slim-line Power Press Tool		1	ea.	128
11541	1-½" Jaws for Slim-line Power Press Tool		1	ea.	128
11600	Power Press Tool with Pistol Grip		1	ea.	129
11605	½" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11622	¾" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11628	1" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11635	1-¼" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11641	1-½" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11654W	2" Jaws for Power Press Tool with Pistol Grip		1	ea.	129
11901	Replacement Retaining Rings for Press Tools (10 per bag)		1	bag	134
11902	Rebuild Kit for Straight ½" & ¾" Press Tools		1	ea.	134
11903	Rebuild Kit for 1", 1-¼" Angle, Straight and Combo Press Tools		1	ea.	134
12005	½" J-Clip		100	ea.	121
12022	¾" J-Clip		100	ea.	121
12028	1" J-Clip		50	ea.	121
13202M	2 Port, ¾" PEX × Closed End HPP Mini Multiport Tee		5	ea.	13
13203M	3 Port, ¾" PEX × Closed End HPP Mini Multiport Tee		5	ea.	13
13204	4 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee		5	ea.	13
13204M	4 Port, ¾" PEX × Closed End HPP Mini Multiport Tee		5	ea.	13
13206	6 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee		5	ea.	13
13208	8 Port Single Row, ¾" PEX × Closed End HPP Multiport Tee		5	ea.	13
14202M	2 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee		5	ea.	13

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
14203M	3 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee		5	ea.	13
14204M	4 Port, ¾" PEX × ¾" PEX Flow Through HPP Mini Multiport Tee		5	ea.	13
15005	½" PEX HPP Plug		25	ea.	23
15022	¾" PEX HPP Plug		25	ea.	23
15028	1" PEX HPP Plug		5	ea.	23
16222	¾" × ¾" × ¾" PEX HPP Tee		25	ea.	21
16225	¾" × ¾" × ½" PEX HPP Tee		25	ea.	21
16228	¾" × ¾" × 1" PEX HPP Tee		5	ea.	21
16252	¾" × ½" × ¾" PEX HPP Tee		25	ea.	21
16255	¾" × ½" × ½" PEX HPP Tee		25	ea.	21
16552	½" × ½" × ¾" PEX HPP Tee		25	ea.	21
16555	½" × ½" × ½" PEX HPP Tee		25	ea.	21
16822	1" × ¾" × ¾" PEX HPP Tee		5	ea.	21
16828	1" × ¾" × 1" PEX HPP Tee		5	ea.	21
16882	1" × 1" × ¾" PEX HPP Tee		5	ea.	21
16885	1" × 1" × ½" PEX HPP Tee		10	ea.	21
16888	1" × 1" × 1" PEX HPP Tee		10	ea.	21
17505	½" PEX × ½" MNPT HPP Adapter		25	ea.	18
17522	¾" PEX × ¾" MNPT HPP Adapter		25	ea.	18
17552	½" PEX × ¾" MNPT HPP Adapter		25	ea.	18
17755	½" PEX × ½" FNPT Swivel HPP Adapter		25	ea.	20
18005	½" × ½" PEX HPP Elbow		25	ea.	17
18022	¾" × ¾" PEX HPP Elbow		25	ea.	17
18028	1" × 1" PEX HPP Elbow		10	ea.	17
18225	¾" × ½" PEX HPP Elbow		10	ea.	17
19005	½" × ½" PEX HPP Coupling		25	ea.	16
19022	¾" × ¾" PEX HPP Coupling		25	ea.	16
19028	1" × 1" PEX HPP Coupling		10	ea.	16
19225	¾" × ½" PEX HPP Coupling		25	ea.	16
19282	1" × ¾" PEX HPP Coupling		5	ea.	16
20105	½" 100ft Blue PureLink® Plus UV Stabilized PEX-a PexCube™		6	coil	5
20105BW	½" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a PexCube™	New!	6	coil	7
20122	¾" 100ft Blue PureLink® Plus UV Stabilized PEX-a PexCube™		3	coil	5
20122BW	¾" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a PexCube™	New!	3	coil	7
20128	1" 100ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
20128BW	1" 100ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	7
20135	1-¼" 100ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20145	1-½" 100ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20154	2" 100ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20205	½" 20×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	5
20205BW	½" 20×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	7
20222	¾" 10×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	5
20222BW	¾" 10×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	7
20228	1" 5×20ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	5
20228BW	1" 5×20ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	7
20235	1-¼" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	9
20245	1-½" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	9
20254	2" 5×20ft PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	9
20305	½" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
20305BW	½" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	7
20322	¾" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5

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Stk#	Description	Status	Pkg Qty	Unit	Pg.
20322BW	¾" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	7
20328	1" 300ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
20328BW	1" 300ft Blue Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	7
20335	1-¼" 300ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20345	1-½" 300ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20354	2" 300ft PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	9
20505	½" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
20522	¾" 500ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
20905	½" 1000ft Blue PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	38, 5
21105	½" 100ft Red PureLink® Plus UV Stabilized PEX-a PexCube		6	coil	6
21105RW	½" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a PexCube™	New!	6	coil	8
21122	¾" 100ft Red PureLink® Plus UV Stabilized PEX-a PexCube		3	coil	6
21122RW	¾" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a PexCube™	New!	3	coil	8
21128	1" 100ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	6
21128RW	1" 100ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	8
21205	½" 20×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	6
21205RW	½" 20×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	8
21222	¾" 10×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	6
21222RW	¾" 10×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	8
21228	1" 5×20ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	bundle	6
21228RW	1" 5×20ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	bundle	8
21305	½" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	6
21305RW	½" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	8
21322	¾" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	6
21322RW	¾" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	8
21328	1" 300ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	6
21328RW	1" 300ft Red Wall PureLink® Plus UV Stabilized PEX-a Tubing	New!	1	coil	8
21505	½" 500ft Red PureLink® Plus UV Stabilized PEX-a Tubing		1	coil	6
23015	½" PEX Insert Manifold Connecter		5	ea.	44
23032	¾" PEX Insert Manifold Connecter c/w Nut		5	ea.	44
23305NL	1/2" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	10	ea.	25
23322NL	3/4" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	10	ea.	25
23328NL	1" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	6	ea.	25
23335NL	1-1/4" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	4	ea.	25
23341NL	1-1/2" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	2	ea.	25
23354NL	2" PEX F1807 No Lead Brass Ball Valve, Full Port	New!	2	ea.	25
23505NL	½" PEX × ⅜" O.D. No Lead Brass Plated Straight Ball Valve		24	ea.	24
23605NL	½" PEX × ⅜" O.D. No Lead Brass Plated Angle Ball Valve		24	ea.	24
23705NL	½" PEX Straight No Lead Brass Ball Valve		24	ea.	24
23722NL	¾" PEX Straight No Lead Brass Ball Valve		24	ea.	24
23822NL	3/4" PEX F1807 × 3/4" MNPT No Lead Brass Ball Valve	New!	10	ea.	25
23905NL	½" PEX × ¼" O.D. No Lead Straight Ball Valve		24	ea.	24
24205	½" SS Press Sleeve		100	ea.	12
24222	¾" SS Press Sleeve		50	ea.	12
24228	1" SS Press Sleeve		50	ea.	12
24235	1-¼" SS Press Sleeve		10	ea.	12
24241	1-½" SS Press Sleeve		10	ea.	12
24250	2" SS Press Sleeve		10	ea.	12
25005NL	½" PEX No Lead Brass Plug		25	ea.	23
25022NL	¾" PEX No Lead Brass Plug		25	ea.	23
25028NL	1" PEX No Lead Brass Plug		5	ea.	23

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
25035NL	1-¼" PEX No Lead Brass Plug		5	ea.	23
25041NL	1-½" PEX No Lead Brass Plug		5	ea.	23
25054NL	2" PEX No Lead Brass Plug		5	ea.	23
25751NL	½" PEX × ⅜" O.D. No Lead Brass Adapter		5	ea.	20
26222NL	¾" × ¾" × ¾" PEX No Lead Brass Tee		25	ea.	21
26225NL	¾" × ¾" × ½" PEX No Lead Brass Tee		25	ea.	22
26252NL	¾" × ½" × ¾" PEX No Lead Brass Tee		25	ea.	22
26255NL	¾" × ½" × ½" PEX No Lead Brass Tee		25	ea.	22
26332NL	1-¼" × 1-¼" × ¾" PEX No Lead Brass Tee		5	ea.	22
26333NL	1-¼" × 1-¼" × 1-¼" PEX No Lead Brass Tee		5	ea.	21
26335NL	1-¼" × 1-¼" × ½" PEX No Lead Brass Tee		5	ea.	22
26338NL	1-¼" × 1-¼" × 1" PEX No Lead Brass Tee		5	ea.	22
26382NL	1-¼" × 1" × ¾" PEX No Lead Brass Tee		5	ea.	22
26388NL	1-¼" × 1" × 1" PEX No Lead Brass Tee		5	ea.	22
26422NL	1-½" × ¾" × ¾" PEX No Lead Brass Tee		5	ea.	22
26432NL	1-½" × 1-¼" × ¾" PEX No Lead Brass Tee		5	ea.	22
26442NL	1-½" × 1-½" × ¾" PEX No Lead Brass Tee		5	ea.	22
26443NL	1-½" × 1-½" × 1-¼" PEX No Lead Brass Tee		5	ea.	22
26444NL	1-½" × 1-½" × 1-½" PEX No Lead Brass Tee		5	ea.	21
26448NL	1-½" × 1-½" × 1" PEX No Lead Brass Tee		5	ea.	22
26488NL	1-½" × 1" × 1" PEX No Lead Brass Tee		5	ea.	22
26555NL	½" × ½" × ½" PEX No Lead Brass Tee		25	ea.	21
26633NL	2" × 1-¼" × 1-¼" PEX No Lead Brass Tee		5	ea.	22
26642NL	2" × 1-½" × ¾" PEX No Lead Brass Tee		5	ea.	22
26643NL	2" × 1-½" × 1-¼" PEX No Lead Brass Tee		5	ea.	22
26644NL	2" × 1-½" × 1-½" PEX No Lead Brass Tee		5	ea.	22
26648NL	2" × 1-½" × 1" PEX No Lead Brass Tee		5	ea.	22
26662NL	2" × 2" × ¾" PEX No Lead Brass Tee		5	ea.	22
26663NL	2" × 2" × 1-¼" PEX No Lead Brass Tee		5	ea.	22
26664NL	2" × 2" × 1-½" PEX No Lead Brass Tee		5	ea.	22
26666NL	2" × 2" × 2" PEX No Lead Brass Tee		5	ea.	21
26668NL	2" × 2" × 1" PEX No Lead Brass Tee		5	ea.	22
26822NL	1" × ¾" × ¾" PEX No Lead Brass Tee		5	ea.	22
26882NL	1" × 1" × ¾" PEX No Lead Brass Tee		5	ea.	22
26885NL	1" × 1" × ½" PEX No Lead Brass Tee		10	ea.	22
26888NL	1" × 1" × 1" PEX No Lead Brass Tee		10	ea.	21
27105NL	½" PEX × ½" M/Sweat No Lead Brass Adapter		25	ea.	20
27122NL	¾" PEX × ¾" M/Sweat No Lead Brass Adapter		25	ea.	20
27128NL	1" PEX × 1" M/Sweat No Lead Brass Adapter		10	ea.	20
27135NL	1-¼" PEX × 1-¼" M/Sweat No Lead Brass Adapter		5	ea.	20
27141NL	1-½" PEX × 1-½" M/Sweat No Lead Brass Adapter		5	ea.	20
27154NL	2" PEX × 2" M/Sweat No Lead Brass Adapter		5	ea.	20
27205NL	½" PEX × ½" F/Sweat No Lead Brass Adapter		25	ea.	20
27222NL	¾" PEX × ¾" F/Sweat No Lead Brass Adapter		25	ea.	20
27228NL	1" PEX × 1" F/Sweat No Lead Brass Adapter		10	ea.	20
27235NL	1-¼" PEX × 1-¼" F/Sweat No Lead Brass Adapter		5	ea.	20
27505NL	½" PEX × ½" MNPT No Lead Brass Adapter		25	ea.	18
27522NL	¾" PEX × ¾" MNPT No Lead Brass Adapter		25	ea.	18
27525NL	¾" PEX × ½" MNPT No Lead Brass Adapter		25	ea.	18
27528NL	1" PEX × 1" MNPT No Lead Brass Adapter		10	ea.	18
27535NL	1-¼" PEX × 1-¼" MNPT No Lead Brass Adapter		5	ea.	18

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
27538NL	1-¼" PEX × 1" MNPT No Lead Brass Adapter		5	ea.	18
27541NL	1-½" PEX × 1-½" MNPT No Lead Brass Adapter		5	ea.	18
27552NL	½" PEX × ¾" MNPT No Lead Brass Adapter		10	ea.	18
27554NL	2" PEX × 2" MNPT No Lead Brass Adapter		5	ea.	18
27582NL	1" PEX × ¾" MNPT No Lead Brass Adapter		5	ea.	18
27605NL	½" PEX × ½" FNPT No Lead Brass Adapter		25	ea.	19
27622NL	¾" PEX × ¾" FNPT No Lead Brass Adapter		25	ea.	19
27628NL	1" PEX × 1" FNPT No Lead Brass Adapter		25	ea.	19
27635NL	1-¼" PEX × 1-¼" FNPT No Lead Brass Adapter		5	ea.	19
28005NL	½" × ½" PEX No Lead Brass Elbow		25	ea.	17
28022NL	¾" × ¾" PEX No Lead Brass Elbow		25	ea.	17
28028NL	1" × 1" PEX No Lead Brass Elbow		10	ea.	17
28035NL	1-¼" × 1-¼" PEX No Lead Brass Elbow		5	ea.	17
28041NL	1-½" × 1-½" PEX No Lead Brass Elbow		5	ea.	17
28054NL	2" × 2" PEX No Lead Brass Elbow		5	ea.	17
28205	½" PEX Barb Stubout Elbow with Edge Bracket		25	ea.	23
28206	½" PEX × Closed, 3-½" × 6" Stub-out Elbow		50	ea.	23
28305NL	½" PEX × ½" FNPT Drop Ear No Lead Brass Elbow		10	ea.	19
28535NL	1-¼" PEX × 1-¼" MNPT No Lead Brass Elbow		5	ea.	18
29005NL	½" × ½" PEX No Lead Brass Coupling		25	ea.	15
29022NL	¾" × ¾" PEX No Lead Brass Coupling		25	ea.	15
29028NL	1" × 1" PEX No Lead Brass Coupling		10	ea.	15
29035NL	1-¼" × 1-¼" PEX No Lead Brass Coupling		5	ea.	15
29041NL	1-½" × 1-½" PEX No Lead Brass Coupling		5	ea.	15
29054NL	2" × 2" PEX No Lead Brass Coupling		5	ea.	15
29225NL	¾" × ½" PEX No Lead Brass Coupling		25	ea.	15
29238NL	1-¼" × 1" PEX No Lead Brass Coupling		5	ea.	15
29243NL	1-½" × 1-¼" PEX No Lead Brass Coupling		5	ea.	15
29248NL	1-½" × 1" PEX No Lead Brass Coupling		5	ea.	15
29263NL	2" × 1-¼" PEX No Lead Brass Coupling		5	ea.	15
29264NL	2" × 1-½" PEX No Lead Brass Coupling		5	ea.	15
29282NL	1" × ¾" PEX No Lead Brass Coupling		10	ea.	15
30071	Universal Sensor (10K)		1	ea.	70
30072	Slab Sensor (10K) PVC Sleeve 20ft Cable		1	ea.	70
30073	Slab Sensor (10K) PVC Sleeve 40ft Cable		1	ea.	70
30079	Slab Sensor (10K) SS Sleeve 10ft Cable		1	ea.	70
30090	Snow/Ice Sensor (10K) 65 ft cable		1	ea.	70, 120
30091	Snow/Ice Sensor Socket		1	ea.	70, 120
31355	HeatLink® Compact Mixing Reset Control		1	ea.	69
31680	Snow Melt Control 680-BMS BACnet (30090,30091,Snow/Ice Sensor sold sep)		1	ea.	69
3WMIX	3-Way Mixing Panel 1-¼" 26-99 Pump		1	ea.	110
3WMIX-BMS	3-Way Mixing Panel 1-¼" 26-99 Pump BMS		1	ea.	110
3WMIX-SMCP	3-Way Mixing Panel 1-¼" 26-99 Pump Snow Melt		1	ea.	113
3WMIXHH	3-Way Mixing Panel 1-¼" 26-150 Pump		1	ea.	110
3WMIXHH-BMS	3-Way Mixing Panel 1-¼" 26-150 Pump BMS		1	ea.	110
3WMIXHH-SMCP	3-Way Mixing Panel 1-¼" 26-150 Pump Snow Melt		1	ea.	113
40318	StatLink® 8 Zone Wired Module		1	ea.	68
40328	StatLink® 8 Zone Wireless Module		1	ea.	62
41316	6 Zone Pump Wiring Center		1	ea.	67
43301	Wireless Internet Gateway		1	ea.	59
43302	Wireless Relay		1	ea.	63

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
43303	Door/Window Sensor		1	ea.	64
43304	Wireless Smart Plug / Repeater		1	ea.	63
43305	External Antenna		1	ea.	64
43306	Co-ordinator		1	ea.	66
43307	Repeater		1	ea.	66
43310	Water Leak Sensor		1	ea.	65
43311	Inline Shutoff Valve		1	ea.	65
44325	StatLink® Installation Track, 25"		1	ea.	68
45112	HeatLink® 24Vac DPDT Pump Relay Box		1	ea.	67
46645	HeatLink® Wired Digital Timer Thermostat		1	ea.	67
46801W	HeatLink® Wireless Digital Thermostat		1	ea.	59
4WMIX	4-Way Mixing Panel 1-¼" 26-99 Pump		1	ea.	111
4WMIX-BMS	4-Way Mixing Panel 1-¼" 26-99 Pump BMS		1	ea.	111
4WMIX-HH-SMCP-BAC	4-Way Mixing Panel 1-1/4" 26-150 Pump Snow Melt (requires OPT-SMP-680)		1	ea.	115
4WMIX-SMCP	4-Way Mixing Panel 1-¼" 26-99 Pump Snow Melt		1	ea.	114
4WMIX-SMCP-BAC	4-Way Mixing Panel 1-1/4" 26-99 Pump Snow Melt (requires OPT-SMP-680)		1	ea.	115
4WMIXHH	4-Way Mixing Panel 1-¼" 26-150 Pump		1	ea.	111
4WMIXHH-BMS	4-Way Mixing Panel 1-¼" 26-150 Pump BMS		1	ea.	111
4WMIXHH-SMCP	4-Way Mixing Panel 1-¼" 26-150 Pump Snow Melt		1	ea.	114
56121	HeatLink® DDC Actuator for Manifolds and Valves		1	ea.	58
56200	HeatLink® TwistSeal® Manifold Actuator with LED		1	ea.	58
56201	HeatLink® Valve & SS Manifold Actuator with LED		1	ea.	58
56202	HeatLink® Multiport Manifold Actuator with LED		1	ea.	58
56230	HeatLink® TwistSeal® Manifold Actuator c/w End Switch		1	ea.	58
56231	HeatLink® Valve & SS Manifold Actuator c/w End Switch		1	ea.	58
56232	HeatLink® Multiport Manifold Actuator c/w End Switch		1	ea.	58
56401	Wireless Valve Actuator		1	ea.	62
57094	Thermostatic Head c/w Capillary (68°-158°F)		1	ea.	54
58130.1	Adapter for HeatLink 1"- 2" Rotary Actuator to WITA Valve		1	ea.	133
58131	Mixing Valve Motor for 1" to 2" FNPT Valves 3-Point Floating		1	ea.	55
58132	Mixing Valve Motor for 1" to 2" FNPT Valves DDC		1	ea.	55
58200	Mixing Valve Motor for 2" to 4" Flange Mixing Valves 3-Point Floating		1	ea.	56
58300	Mixing Valve Motor for 2" to 4" Flange Mixing Valves DDC		1	ea.	56
60020V	Pressure Activated Bypass Valve ¾"		1	ea.	57
60025V	Pressure Activated Bypass Valve 1"		1	ea.	57
60040V	Pressure Activated Bypass Valve 1-¼"		1	ea.	57
62016V	Straight Zone Valve ½" NPT		1	ea.	54
62020V	Straight Zone Valve ¾" NPT		1	ea.	54
62025V	Straight Zone Valve 1" NPT		1	ea.	54
62030V	Straight Zone Valve 1-¼" NPT		1	ea.	54
63026	1" × 3-Way FNPT Mixing / Diverting Valve		1	ea.	55
63026.1	1" 3- & 4-Way Valve Shaft & Seal Kit		1	ea.	133
63539	1-¼" × 3-Way FNPT Mixing / Diverting Valve		1	ea.	55
63541	1-½" × 3-Way FNPT Mixing / Diverting Valve		1	ea.	55
63542.1	1-¼" and 1-½" 3- & 4-Way Valve Shaft & Seal Kit		1	ea.	133
63551	2" × 3-Way FNPT Mixing / Diverting Valve		1	ea.	55
63551.1	2" 3- & 4-Way Valve Shaft & Seal Kit		1	ea.	133
63720V	¾" Compact 3-Way Mixing Valve		1	ea.	54
63725V	1" Compact 3-Way Mixing Valve		1	ea.	54
64026	1" × 4-Way FNPT Mixing Valve		1	ea.	55
64031	1-¼" × 4-Way FNPT Mixing Valve		1	ea.	55

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
64041	1-½" × 4-Way FNPT Mixing Valve		1	ea.	55
64051	2" × 4-Way FNPT Mixing Valve		1	ea.	55
64164	2" × 4-Way Flange Mixing Valve		1	ea.	56
64164F	2" DIN Flange		1	ea.	56
64164G	2" Gasket for DIN Flange		1	ea.	56
64166	2-½" × 4-Way Flange Mixing Valve		1	ea.	56
64166F	2-½" DIN Flange		1	ea.	56
64166G	2-½" Gasket for DIN Flange		1	ea.	56
64181	3" × 4-Way Flange Mixing Valve		1	ea.	56
64181F	3" DIN Flange		1	ea.	56
64181G	3" Gasket for DIN Flange		1	ea.	56
65000	4" × 4-Way Flange Mixing Valve		1	ea.	56
65000F	4" DIN Flange		1	ea.	56
65000G	4" Gasket for DIN Flange		1	ea.	56
67019	⅝" PEX Comp. × ¾" M/Sweat Adapter		1	ea.	53
67119	⅝" PEX Comp. × ¾" F/Sweat Adapter		1	ea.	53
68019	⅝" PEX Comp. × ¾" MNPT Adapter		1	ea.	53
69005	½" × ½" PEX Comp. Coupling		1	ea.	53
69019	⅝" × ⅝" PEX Comp. Coupling		1	ea.	53
69022	¾" × ¾" PEX Comp. Coupling		1	ea.	53
71724	Recessed Manifold Housing 24"×23"×3-⅞"		1	ea.	52
71730	Recessed Manifold Housing 30"×23"×3-⅞"		1	ea.	52
71743	Recessed Manifold Housing 43-½"×23"×3-⅞"		1	ea.	52
71901	Key Lock for Manifold Housing Door		1	ea.	52
72401	Manifold Mounting Rails for Surface Mount Manifold Housings		1	ea.	52
72434	Surface Mounted Manifold Housing 34-½"×28-½"×5-⅞"		1	ea.	52
72442	Surface Mounted Manifold Housing 42-½"×28-½"×5-⅞"		1	ea.	52
72446	Surface Mounted Manifold Housing 46-½"×28-½"×5-⅞"		1	ea.	52
72469	Surface Mounted Manifold Housing 69"×28-½"×5-⅞"	Special Order*	1	ea.	52
72481	Surface Mounted Manifold Housing 85"×28-½"×5-⅞"	Special Order*	1	ea.	52
72493	Surface Mounted Manifold Housing 93"×28-½"×5-⅞"	Special Order*	1	ea.	52
76100	Coupling for SS Manifold		1	ea.	47
76101	Mounting Bracket for SS Manifold		1	ea.	132
76102	2 Loop SS Manifold with Flow Meters		1	ea.	46
76103	3 Loop SS Manifold with Flow Meters		1	ea.	46
76104	4 Loop SS Manifold with Flow Meters		1	ea.	46
76105	5 Loop SS Manifold with Flow Meters		1	ea.	46
76106	6 Loop SS Manifold with Flow Meters		1	ea.	46
76107	7 Loop SS Manifold with Flow Meters		1	ea.	46
76108	8 Loop SS Manifold with Flow Meters		1	ea.	46
76109	9 Loop SS Manifold with Flow Meters		1	ea.	46
76110	10 Loop SS Manifold with Flow Meters		1	ea.	46
76111	11 Loop SS Manifold with Flow Meters		1	ea.	46
76112	12 Loop SS Manifold with Flow Meters		1	ea.	46
76192	1" NPT Adapter for SS Manifold		1	ea.	132
76202	2 Loop High Flow SS Manifold		1	ea.	46
76203	3 Loop High Flow SS Manifold		1	ea.	46
76204	4 Loop High Flow SS Manifold		1	ea.	46
76205	5 Loop High Flow SS Manifold		1	ea.	46
76206	6 Loop High Flow SS Manifold		1	ea.	46
76207	7 Loop High Flow SS Manifold		1	ea.	46

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
76208	8 Loop High Flow SS Manifold		1	ea.	46
76209	9 Loop High Flow SS Manifold		1	ea.	46
76210	10 Loop High Flow SS Manifold		1	ea.	46
76211	11 Loop High Flow SS Manifold		1	ea.	46
76212	12 Loop High Flow SS Manifold		1	ea.	46
76600	Coupling for 2" SS Manifold		1	pair	50
76601	Loctite 55		1	ea.	50
76606	6 Loop 2" SS Manifold		1	ea.	49
76608	8 Loop 2" SS Manifold		1	ea.	49
76610	10 Loop 2" SS Manifold		1	ea.	49
76612	12 Loop 2" SS Manifold		1	ea.	49
76614	14 Loop 2" SS Manifold		1	ea.	49
76675	1" Cap and Washer for 2" SS Manifold		1	pair	50
76840	1-½" MNPT Assembly Kit for 2" SS Manifold		1	ea.	50
76850	2" MNPT Assembly Kit for 2" SS Manifold		1	ea.	50
76905	½" Plug for 1-¼" SS Manifold		1	ea.	47
76911	Zone Valve Insert for 1-¼" SS Manifold (Return)		1	ea.	132
76912	Balancing Valve Insert for High Flow SS Manifold (Supply)		1	ea.	132
76916	Flow Meter Valve Insert (0-1.5 USgpm Lock Nut) for 1-¼" SS Mfd (Sup.)		1	ea.	132
76917	Flow Meter Valve Insert (0-6 L/min) for 1-¼" SS Manifold (New Design)		1	ea.	132
76918	Connecter Base for 1-¼" SS Manifold (Flow Meter w/Lock Nut)		1	ea.	132
76919	Connecter Base for 1-¼" SS Manifold		1	ea.	132
76922	1" Ball Valve Set for 1-¼" SS Manifold		1	set	132
76925	Black Shut-off Cap for 1-¼" SS Manifold		1	ea.	132
76930	Hose Bib for 1-¼" SS Manifold		1	ea.	132
76932	Automatic Air Vent for 1-¼" SS Manifold		1	ea.	48
76935	Side Mount Automatic Air Vent Set for 1-¼" SS Manifold		1	ea.	48
76936	Pressure Bypass for 1-¼" SS Manifold (requires 77105 & PEX)		1	ea.	132
76937	Pressure Bypass Kit for 1-¼" SS Manifold		1	ea.	48
76940	Strap-on Thermometer		1	ea.	122
77005	½" PEX to TwistSeal® Manifold Connecter		1	pair	44
77019	⅝" PEX to TwistSeal® Manifold Connecter		1	pair	44
77022	¾" PEX to TwistSeal® Manifold Connecter c/w Nut		1	pair	44
77100	Port Cap for 1-¼" SS Manifold		1	pair	47
77105	½" PEX to 1-¼" SS Manifold Connecter		1	pair	47
77119	⅝" PEX to 1-¼" SS Manifold Connecter		1	pair	47
77122	¾" PEX to 1-¼" SS Manifold Connecter		1	pair	47
77305	½" PEX Insert to 1-¼" SS Manifold Connecter		1	pair	47
77619	⅝" PEX to 2" SS Manifold Connecter		1	pair	50
77622	¾" PEX to 2" SS Manifold Connecter		1	pair	50
77628	1" PEX to 2" SS Manifold Connecter	Special Order*	1	pair	50
77729	O-ring for PEX to TwistSeal® Manifold Connecter		10	ea.	131
78200	TwistSeal® Mini Deluxe (40mm) Z.V. Supply & Balancing Return Module Pair		1	pair	43
78210	TwistSeal® Mini Deluxe (40mm) Zone Valve Supply Module		1	ea.	130
78211	TwistSeal® Mini Deluxe (40mm) Balancing Return Module		1	ea.	130
78221	TwistSeal® Mini (40mm) Zone Valve Replacement Cartridge c/w O-ring		1	ea.	130
78302	TwistSeal® Mini (40mm) 2-port Z.V.Supply & Flow Meter Return Module Pair		1	pair	43
78303	TwistSeal® Mini (40mm) 3-port Z.V.Supply & Flow Meter Return Module Pair		1	pair	43
78311	TwistSeal® Mini Z.V. Rplcmnt. Cartridge for MultiportModule		1	ea.	130
78312	TwistSeal® Mini Flow Meter Replacement Cartridge for 78300 Modules		1	ea.	130
78314	Assembly tool for TwistSeal® Mini Multiport Valves		1	ea.	125

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
78400	TwistSeal® Deluxe (55mm) Z.V. Supply & Balancing Return Module Pair		1	pair	40
78401	TwistSeal® Deluxe (55mm) Zone Valve Supply Module		1	ea.	130
78402	TwistSeal® Deluxe (55mm) Balancing Return Module		1	ea.	130
78411	TwistSeal® (55mm) Zone Valve Replacement Cartridge c/w O-ring		1	ea.	130
78902	Plastic Nut for TwistSeal® Manifold Modules		1	ea.	131
78923	O-ring for TwistSeal® Mini (40mm) & EasyFit™ Manifold Modules		5	ea.	130
78924	O-ring for TwistSeal® (55mm) Manifold Module		5	ea.	130
79200	1" TwistSeal® Mini (40mm) Deluxe Manifold Assembly Kit		1	ea.	42
79400	1" TwistSeal® (55mm) Deluxe Manifold Assembly Kit		1	ea.	40
79801	TwistSeal® Mini (40mm) Closed End Cap		1	ea.	130
79808	TwistSeal® Mini (40mm) Cross Tee c/w O-ring		1	ea.	131
79815	1" TwistSeal® Mini (40mm) Union Cross Tee End Connection		1	ea.	131
79892	TwistSeal® Multiport (40mm) Double Mounting Bracket		1	ea.	42
79901	TwistSeal® (55mm) Closed End Cap		1	ea.	130
79902	1" TwistSeal® (55mm) Supply End Connection		1	ea.	130
79908	TwistSeal® (55mm) Cross Tee		1	ea.	130
79911	½" Cross Tee Plug		1	ea.	131
79922	Multiwrench for Manifold Nut and Base		1	ea.	125
79930	Metal Hose Bib		1	ea.	131
79931	Manual Air Vent		1	ea.	131
79932	Metal Automatic Air Vent		1	ea.	131
79933	Manual Air Vent Key - 5mm Square, Blue		1	ea.	131
79934	Plastic Hose Bib		1	ea.	131
79935	Pressure Test Kit		1	ea.	122
79936	Plastic Automatic Air Vent		1	ea.	131
79940	Pair Thermometers c/w Well for TwistSeal® Manifolds		1	pair	131
79942	Pair Thermometers for TwistSeal® Mini Union Cross Tee End Connection		1	pair	131
79951	100g Bottle Non-toxic Silicone O-ring Lubricant		1	ea.	125
79952	10g Bottle Non-toxic Silicone O-ring Lubricant		1	ea.	125
79954	Gasket for TwistSeal® Mini (40mm) 1" Union Supply End Connection		1	pair	131
79965	Pressure Test Kit with Extra Valve to Zero Gauge		1	ea.	122
79991	TwistSeal® (55mm) Mounting Bracket		1	ea.	40
86005	½" Conduit 90s		1	ea.	73
86020	⅝" Conduit 90s		1	ea.	73
86022	¾" Conduit 90s		1	ea.	73
86028	1" Conduit 90s		1	ea.	73
86105	Plastic Bend Support for ⅜" and ½" Tubing		1	ea.	73, 121
86122	Plastic Bend Support for ¾" Tubing		1	ea.	73, 121
86255	Metal Drop Ear Bend Support for ½" Tubing		25	ea.	121
87024	24" Aluminum Heat Transfer Plate for DryAbove™/DryBelow™ Systems		250	ea.	74
87205	EndBend™ for DryAbove™ System		25	ea.	74
87305	SpacerClip™ for DryAbove™ System		50	ea.	74
89000	Tubing Tracking		400	ft.	74
89010	500 Track Staples		1	bag	72
89105	1000 Tie Straps - 5.5"		1	bag	72
89107	1000 Tie Straps - 7.5"		1	bag	72
89244	300× 2-⅜" (60mm) Staples for Stand-up Stapler		1	box	72, 123
89251	300× 1-½" Staples for HeatLink® Deluxe Staple Gun		1	box	72, 123
89252	300× 2" Staples for HeatLink® Deluxe Staple Gun		1	box	72, 123
92128bs	1" 100ft Blue PureLink® Plus Pipe-in-Pipe		1	coil	11
92128rs	1" 100ft Red PureLink® Plus Pipe-in-Pipe		1	coil	11

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
92305bcs	15/16" 300ft Blue Corrugated Sleeve for 1/2" PEX		1	ea.	11
92305bs	1/2" 300ft Blue PureLink® Plus Pipe-in-Pipe		1	coil	11
92305rs	1/2" 300ft Red PureLink® Plus Pipe-in-Pipe		1	coil	11
92322bcs	1-3/8" 300ft Blue Corrugated Sleeve for 3/4" PEX		1	ea.	11
92322bs	3/4" 300ft Blue PureLink® Plus Pipe-in-Pipe		1	coil	11
92322rs	3/4" 300ft Red PureLink® Plus Pipe-in-Pipe		1	coil	11
94105	1/2" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94119	5/8" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94122	3/4" 1000ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94128	1" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94135	1-1/4" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94141	1-1/2" 100ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94205	1/2" 250ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94222	3/4" 10×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	bundle	37
94228	1" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	bundle	37
94235	1-1/4" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	bundle	37
94241	1-1/2" 5×20ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	bundle	37
94305	1/2" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94305rs	1/2" 300' O_2 Barrier HeatLink® Pipe-in-Pipe Red Sheath	Special Order*	1	coil	38
94319	5/8" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94322	3/4" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94322rs	3/4" 300' O_2 Barrier HeatLink® Pipe-in-Pipe Red Sheath	Special Order*	1	coil	38
94335	1-1/4" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94341	1-1/2" 300ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94505	1/2" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94519	5/8" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94522	3/4" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
94528	1" 500ft O_2 Barrier HeatLink® UV Stabilized PEX-a Tubing		1	coil	37
BC G2-1	Standard Boiler Panel 3 Pump		1	ea.	85
BC G2-2	High Capacity Boiler Panel 4 Pump		1	ea.	85
BC G2-3	BC G.Combi Boiler Panel		1	ea.	85
CAD01	CAD Boiler Panel 3 Pump		1	ea.	82
CAD02	CAD Boiler Panel High Capacity 4 Pump		1	ea.	82
CHVLV20	Check Valve for UPS15-58 Pump		1	ea.	135
DRVWSNS-SS	Driveway Sensor for SMP Panels		1	ea.	71, 120
ECO1ZN3P	ECO Boiler Panel 3 Pump		1	ea.	80
ECO2ZN4P	ECO Boiler Panel High Capacity 4 Pump		1	ea.	80
ELBP18	Electric Boiler Panel 18,000BTU		1	ea.	86
ELBP18TS3	Electric Boiler Panel 18,000BTU with 3 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP18TS5	Electric Boiler Panel 18,000BTU with 5 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP30	Electric Boiler Panel 30,000BTU		1	ea.	86
ELBP30TS3	Electric Boiler Panel 30,000BTU with 3 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP30TS5	Electric Boiler Panel 30,000BTU with 5 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP30TS6	Electric Boiler Panel 30,000BTU with 6 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP30TS7	Electric Boiler Panel 30,000BTU with 7 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP30TS8	Electric Boiler Panel 30,000BTU with 8 Loop Twist Seal Mini Multiport		1	ea.	87
ELBP50	Electric Boiler Panel 50,000BTU		1	ea.	86
ELBP50TS7	Electric Boiler Panel 50,000BTU with 7 Loop Twist Seal Mini Multiport		1	ea.	87
ETF-144/99A	Slab Sensor (12k) PVC Sleeve 8ft Cable for ETO2SMCNTR SnowmeltController		1	ea.	71, 120
ETF-1733/44/55	Optional Outdoor Sensor for SMCP & SMP Panels		1	ea.	71, 120
ETF1899ASNS	Sensor NTC 12K (Spare parts for #SMCP)	Special Order*	1	ea.	133

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
EX13203	3 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee		5	ea.	28
EX13204	4 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee		5	ea.	28
EX13206	6 Port, ¾" PEX F1960 × Closed End HPP Multiport Tee		5	ea.	28
EX13806	6 Port, 1" PEX F1960 × Closed End HPP Multiport Tee		5	ea.	28
EX14202	2 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee		5	ea.	28
EX14203	3 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee		5	ea.	28
EX14204	4 Port, ¾" × ¾" PEX F1960 Flow Through HPP Multiport Tee		5	ea.	28
EX14706	6 Port, 1" × ¾" PEX F1960 Flow Through HPP Multiport Tee		5	ea.	28
EX15005	½" PEX F1960 HPP Plug		25	ea.	27
EX15022	¾" PEX F1960 HPP Plug		25	ea.	27
EX15028	1" PEX F1960 HPP Plug		5	ea.	27
EX15035	1-¼" PEX F1960 HPP Plug		1	ea.	27
EX15041	1-½" PEX F1960 HPP Plug		1	ea.	27
EX15054	2" PEX F1960 HPP Plug		1	ea.	27
EX16222	¾" × ¾" × ¾" PEX F1960 HPP Tee		25	ea.	34
EX16225	¾" × ¾" × ½" PEX F1960 HPP Tee		25	ea.	35
EX16252	¾" × ½" × ¾" PEX F1960 HPP Tee		25	ea.	35
EX16255	¾" × ½" × ½" PEX F1960 HPP Tee		25	ea.	35
EX16332	1-¼" × 1-¼" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16333	1-¼" × 1-¼" × 1-¼" PEX F1960 HPP Tee		1	ea.	34
EX16335	1-¼" × 1-¼" × ½" PEX F1960 HPP Tee		1	ea.	35
EX16338	1-¼" × 1-¼" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16382	1-¼" × 1" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16388	1-¼" × 1" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16432	1-½" × 1-¼" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16433	1-½" × 1-¼" × 1-¼" PEX F1960 HPP Tee		1	ea.	35
EX16438	1-½" × 1-¼" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16442	1-½" × 1-½" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16443	1-½" × 1-½" × 1-¼" PEX F1960 HPP Tee		1	ea.	35
EX16444	1-½" × 1-½" × 1-½" PEX F1960 HPP Tee		1	ea.	34
EX16448	1-½" × 1-½" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16488	1-½" × 1" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16552	½" × ½" × ¾" PEX F1960 HPP Tee		25	ea.	35
EX16555	½" × ½" × ½" PEX F1960 HPP Tee		25	ea.	34
EX16642	2" × 1-½" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16643	2" × 1-½" × 1-¼" PEX F1960 HPP Tee		1	ea.	35
EX16644	2" × 1-½" × 1-½" PEX F1960 HPP Tee		1	ea.	35
EX16648	2" × 1-½" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16662	2" × 2" × ¾" PEX F1960 HPP Tee		1	ea.	35
EX16663	2" × 2" × 1-¼" PEX F1960 HPP Tee		1	ea.	35
EX16664	2" × 2" × 1-½" PEX F1960 HPP Tee		1	ea.	35
EX16666	2" × 2" × 2" PEX F1960 HPP Tee		1	ea.	34
EX16668	2" × 2" × 1" PEX F1960 HPP Tee		1	ea.	35
EX16822	1" × ¾" × ¾" PEX F1960 HPP Tee		5	ea.	35
EX16828	1" × ¾" × 1" PEX F1960 HPP Tee		5	ea.	35
EX16882	1" × 1" × ¾" PEX F1960 HPP Tee		5	ea.	35
EX16885	1" × 1" × ½" PEX F1960 HPP Tee		10	ea.	35
EX16888	1" × 1" × 1" PEX F1960 HPP Tee		10	ea.	34
EX17505	½" PEX F1960 × ½" MNPT HPP Adapter		25	ea.	31
EX17522	¾" PEX F1960 × ¾" MNPT HPP Adapter		25	ea.	31
EX17552	½" PEX F1960 × ¾" MNPT HPP Adapter		25	ea.	31

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
EX17755	½" PEX F1960 × ½" Swivel HPP Adapter		25	ea.	32
EX18005	½" × ½" PEX F1960 HPP Elbow		25	ea.	30
EX18022	¾" × ¾" PEX F1960 HPP Elbow		25	ea.	30
EX18028	1" × 1" PEX F1960 HPP Elbow		10	ea.	30
EX18035	1-¼" × 1-¼" PEX F1960 HPP Elbow		1	ea.	30
EX18041	1-½" × 1-½" PEX F1960 HPP Elbow		1	ea.	30
EX18054	2" × 2" PEX F1960 HPP Elbow		1	ea.	30
EX19005	½" × ½" PEX F1960 HPP Coupling		25	ea.	29
EX19022	¾" × ¾" PEX F1960 HPP Coupling		25	ea.	29
EX19028	1" × 1" PEX F1960 HPP Coupling		10	ea.	29
EX19035	1-¼" × 1-¼" PEX F1960 HPP Coupling		1	ea.	29
EX19041	1-½" × 1-½" PEX F1960 HPP Coupling		1	ea.	29
EX19054	2" × 2" PEX F1960 HPP Coupling		1	ea.	29
EX19225	¾" × ½" PEX F1960 HPP Coupling		25	ea.	29
EX19238	1-¼" × 1" PEX F1960 HPP Coupling		1	ea.	29
EX19243	1-½" × 1-¼" PEX F1960 HPP Coupling		1	ea.	29
EX19248	1-½" × 1" PEX F1960 HPP Coupling		1	ea.	29
EX19264	2" × 1-½" PEX F1960 HPP Coupling		1	ea.	29
EX19282	1" × ¾" PEX F1960 HPP Coupling		5	ea.	29
EX23305NL	1/2" PEX F1960 No Lead Brass Ball Valve, Full Port		10	ea.	36
EX23322NL	3/4" PEX F1960 No Lead Brass Ball Valve, Full Port		10	ea.	36
EX23328NL	1" PEX F1960 No Lead Brass Ball Valve, Full Port		6	ea.	36
EX23335NL	1-1/4" PEX F1960 No Lead Brass Ball Valve, Full Port		4	ea.	36
EX23341NL	1-1/2" PEX F1960 No Lead Brass Ball Valve, Full Port		2	ea.	36
EX23354NL	2" PEX F1960 No Lead Brass Ball Valve, Full Port		2	ea.	36
EX23822NL	3/4" PEX F1960 × 3/4" MNPT No Lead Brass Ball Valve		10	ea.	36
EX24205	½" PEX F1960 Expansion Ring		100	ea.	27
EX24222	¾" PEX F1960 Expansion Ring		50	ea.	27
EX24228	1" PEX F1960 Expansion Ring		50	ea.	27
EX24235	1-¼" PEX F1960 Expansion Ring		10	ea.	27
EX24241	1-½" PEX F1960 Expansion Ring		10	ea.	27
EX24250	2" PEX F1960 Expansion Ring		5	ea.	27
EX26222NL	¾" × ¾" × ¾" PEX F1960 No Lead Brass Tee		25	ea.	34
EX26225NL	¾" × ¾" × ½" PEX F1960 No Lead Brass Tee		25	ea.	34
EX26252NL	¾" × ½" × ¾" PEX F1960 No Lead Brass Tee		25	ea.	34
EX26255NL	¾" × ½" × ½" PEX F1960 No Lead Brass Tee		25	ea.	34
EX26555NL	½" × ½" × ½" PEX F1960 No Lead Brass Tee		25	ea.	34
EX26822NL	1" × ¾" × ¾" PEX F1960 No Lead Brass Tee		5	ea.	34
EX26882NL	1" × 1" × ¾" PEX F1960 No Lead Brass Tee		5	ea.	34
EX26885NL	1" × 1" × ½" PEX F1960 No Lead Brass Tee		10	ea.	34
EX26888NL	1" × 1" × 1" PEX F1960 No Lead Brass Tee		10	ea.	34
EX27105NL	½" PEX F1960 × ½" M/Sweat No Lead Brass Adapter		25	ea.	33
EX27122NL	¾" PEX F1960 × ¾" M/Sweat No Lead Brass Adapter		25	ea.	33
EX27128NL	1" PEX F1960 × 1" M/Sweat No Lead Brass Adapter		10	ea.	33
EX27135NL	1-¼" PEX F1960 × 1-¼" M/Sweat No Lead Brass Adapter		5	ea.	33
EX27141NL	1-½" PEX F1960 × 1-½" M/Sweat No Lead Brass Adapter		5	ea.	33
EX27154NL	2" PEX F1960 × 2" M/Sweat No Lead Brass Adapter		5	ea.	33
EX27205NL	½" PEX F1960 × ½" F/Sweat No Lead Brass Adapter		25	ea.	33
EX27222NL	¾" PEX F1960 × ¾" F/Sweat No Lead Brass Adapter		25	ea.	33
EX27228NL	1" PEX F1960 × 1" F/Sweat No Lead Brass Adapter		10	ea.	33
EX27235NL	1-¼" PEX F1960 × 1-¼" F/Sweat No Lead Brass Adapter		5	ea.	33

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
EX27505NL	½" PEX F1960 × ½" MNPT No Lead Brass Adapter		25	ea.	31
EX27522NL	¾" PEX F1960 × ¾" MNPT No Lead Brass Adapter		25	ea.	31
EX27528NL	1" PEX F1960 × 1" MNPT No Lead Brass Adapter		10	ea.	31
EX27535NL	1-¼" PEX F1960 × 1-¼" MNPT No Lead Brass Adapter		5	ea.	31
EX27541NL	1-½" PEX F1960 × 1-½" MNPT No Lead Brass Adapter		5	ea.	31
EX27554NL	2" PEX F1960 × 2" MNPT No Lead Brass Adapter		5	ea.	31
EX27605NL	½" PEX F1960 × ½" FNPT No Lead Brass Adapter		25	ea.	32
EX27622NL	¾" PEX F1960 × ¾" FNPT No Lead Brass Adapter		25	ea.	32
EX27628NL	1" PEX F1960 × 1" FNPT No Lead Brass Adapter		25	ea.	32
EX27635NL	1-¼" PEX F1960 × 1-¼" FNPT No Lead Brass Adapter		5	ea.	32
EX27641NL	1-½" PEX F1960 × 1-½" FNPT No Lead Brass Adapter		5	ea.	32
EX28005NL	½" × ½" PEX F1960 No Lead Brass Elbow		25	ea.	30
EX28022NL	¾" × ¾" PEX F1960 No Lead Brass Elbow		25	ea.	30
EX28028NL	1" × 1" PEX F1960 No Lead Brass Elbow		10	ea.	30
EX28305NL	½" PEX F1960 × ½" FNPT Drop Ear No Lead Brass Elbow		10	ea.	32
EX29005NL	½" × ½" PEX F1960 No Lead Brass Coupling		25	ea.	29
EX29022NL	¾" × ¾" PEX F1960 No Lead Brass Coupling		25	ea.	29
EX29028NL	1" × 1" PEX F1960 No Lead Brass Coupling		10	ea.	29
EX29225NL	¾" × ½" PEX F1960 No Lead Brass Coupling		25	ea.	29
EX29282NL	1" × ¾" PEX F1960 No Lead Brass Coupling		10	ea.	29
FLWSWTCH	Flow Switch for Domestic Hot Water Priority		1	ea.	94
HEP025P	HEP 25MBH Isolation Heat Exchanger Panel		1	ea.	96
HEP025R	HEP 25MBH Isolation Heat Exchanger Panel Lite		1	ea.	97
HEP025RT	HEP 25MBH Isolation Heat Exchanger Panel Lite w/Timer		1	ea.	98
HEP025RTDP	HEP 25MBH Isolation Heat Exchanger Panel Dual Pump w/Timer		1	ea.	98
HEP080P	HEP 80MBH Isolation Heat Exchanger Panel		1	ea.	96
HEP080RT	HEP 80MBH Isolation Heat Exchanger Panel Lite w/Timer		1	ea.	98
HEP080RTDP	HEP 80MBH Isolation Heat Exchanger Panel Dual Pump w/Timer		1	ea.	98
HEP095P	HEP 95MBH Isolation Heat Exchanger Panel		1	ea.	96
Knight01	Panel for Knight Wall Mount Boiler (3 Pump)		1	ea.	83
Knight02	Panel for Knight Wall Mount Boiler (4 Pump)		1	ea.	83
NTRWSH1	1" x 3mm Blk Nitrile Washer for Panels		5	ea.	134
NTRWSH1-SRV	1" x 1.5mm Blk Nitrile (replacement washers Pre-2014 Panels)		5	ea.	134
NTRWSH34	¾" x 3mm Blk Nitrile Washer for Panels		5	ea.	134
NTRWSH34-SRV	¾" x 1.5mm Blk Nitrile (replacement washers Pre-2014 Panels)		5	ea.	134
OPT-SMP-680	Optional SMP Control Upgrade to BMS 680 BACnet (30090,30091 Sold Sep.)		1	ea.	120
PC2319CVR	Powder Coated Cover 23"x19" for HEP025/80R/T/DP,3WMIX,4WMIX		1	ea.	97
PLC1R2	Controller for TMP040/070, SMP, ZMP, ELB and old SSP/SST		1	ea.	134
PLC4AR2	Controller for TMP085DP, TMP200DT		1	ea.	134
PLC5R2	Controller for TWH070Z using FLWSWTCH		1	ea.	134
PLC6R2P3	Controller for CDP Panels with 3 Pumps		1	ea.	134
PLC6R2P4	Controller for CDP Panels with 4 Pumps		1	ea.	134
PLC7R1P1	Controller for WHP using HEPPS		1	ea.	134
PLC7R1P2	Controller for HEP using HEPPS		1	ea.	134
PLC7R1P2-TWH	Controller for TWH (except for Z models) using HEPPS		1	ea.	134
PLC7R2P1	Controller for WHP using FLWSWTCH		1	ea.	135
PLC7R2P2	Controller for HEP, TWH (except Z) using FLWSWTCH		1	ea.	135
PLINTR40VA	24Vac 40VA Plug-In Transformer for Panels		1	ea.	66, 135
PUMP1558	UPS15-58RU Composite 115V Pump		1	ea.	135
PUMP2699	UPS26-99FC 115V Cast Iron Pump		1	ea.	135
PUMP2699BR	UPS26-99BFC 115V Bronze Pump		1	ea.	135

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
SMCP	Snowmelt Control c/w ETO2 DDC and 2 Strap On Sensors		1	ea.	71
SMP175SS-HEX	SMP 175MBH SS Snow Melt Panel 2×20 HEX (DRVWSNS-SS sold sep)		1	ea.	117
SMP300SS-HEX	SMP 300MBH SS Snow Melt Panel 2×30 HEX (DRVWSNS-SS sold sep)		1	ea.	117
SMP300SS-HEX-H	SMP 365MBH SS Snow Melt Panel 3×30 HEX & HH Pump (DRVWSNS-SS sold sep)		1	ea.	117
SMP335	SMP 335MBH Copper Snow Melt Panel 4×20 Plate HEX (DRVWSNS-SS sold sep)		1	ea.	119
SMP375SS	SMP 300MBH SS Snow Melt Panel (No HEX; DRVWSNS-SS sold sep)		1	ea.	116
SMP375SSH	SMP 375MBH SS Snow Melt Panel with HH Pump (No HEX; DRVWSNS-SS sold sep)		1	ea.	116
SMP400D	SMP 400MBH Copper Snow Melt Panel (No HEX; DRVWSNS-SS sold sep)		1	ea.	118
SMP425	SMP 425MBH Copper Snow Melt Panel 4×30 Plate HEX (DRVWSNS-SS sold sep)		1	ea.	119
SSAACT	Actuator Mounted on Manifold and Wired to StatLink® in SSP/SST Panel		1	ea.	108
SSAAV	Installed Side Mount Auto Air Vent 76935 on Manifold in SSP/SST Panel		1	ea.	108
SSABMS	Installed Wiring for BMS in SSP/SST Panel		1	ea.	108
SSACST	Installed Closely Spaced Tees in SSP Panel		1	ea.	109
SSADDC	Installed DDC Actuator 56121 on Mixing Valve in SSTS Panel		1	ea.	108
SSAEXE10	Upgrade SSP/SST Surface Mount Housing to Extended 8/10 Loop		1	ea.	108
SSAEXE6	Upgrade SSP/SST Surface Mount Housing to Extended 4/6 Loop		1	ea.	108
SSAIZV	SSP Panel Auto Isolation Zone Valve		1	ea.	109
SSAMRC	Installed Outdoor Reset Control 31355 in SST Panel		1	ea.	108
SSAMXM	Installed Floating Action Mixing Valve Motor 58131 in SSTL Panel		1	ea.	108
SSAMXMDDC	Installed DDC Mixing Valve Motor 58132 in SSTL Panel		1	ea.	108
SSAPB	Installed Pressure Bypass 76937 on Manifold in SSP/SST Panel		1	ea.	108
SSASL	Installed StatLink® Module 40318 in SSP/SST Panel		1	ea.	108
SSASM	Installed Snow Melt Control SMCP in SST Panel (DRVWSNS-SS sold sep)		1	ea.	108
SSASMBAC	Installed Snow Melt Control 31680 for SST (30090/91 sold sep)		1	ea.	108
SSASSE10	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 8/10 Loop		1	ea.	108
SSASSE12	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 12 Loop		1	ea.	108
SSASSE6	Upgrade SSP/SST Surface Mount Housing to Stainless Steel 4/6 Loop		1	ea.	108
SSATH	Installed Thermostatic Head 57094 on Mixing Valve in SSTS Panel		1	ea.	108
SSPLR104B	SSP Recessed 4 Loop 1-¼" SS Man. Large Pump Panel Bot. feed		1	ea.	102
SSPLR104T	SSP Recessed 4 Loop 1-¼" SS Man. Large Pump Panel Top feed		1	ea.	102
SSPLR106B	SSP Recessed 6 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLR106T	SSP Recessed 6 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLR108B	SSP Recessed 8 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLR108T	SSP Recessed 8 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLR110B	SSP Recessed 10 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLR110T	SSP Recessed 10 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLR112B	SSP Recessed 12 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLR112T	SSP Recessed 12 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS104B	SSP SURF MNT 4 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS104T	SSP SURF MNT 4 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS106B	SSP SURF MNT 6 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS106T	SSP SURF MNT 6 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS108B	SSP SURF MNT 8 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS108T	SSP SURF MNT 8 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS110B	SSP SURF MNT 10 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS110T	SSP SURF MNT 10 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS112B	SSP SURF MNT 12 Loop 1-¼" SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS112T	SSP SURF MNT 12 Loop 1-¼" SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS204B	SSP SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS204T	SSP SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS206B	SSP SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	102

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
SSPLS206T	SSP SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS208B	SSP SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS208T	SSP SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS210B	SSP SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS210T	SSP SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPLS212B	SSP SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	102
SSPLS212T	SSP SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	102
SSPSR104B	SSP Recessed 4 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed		1	ea.	102
SSPSR104T	SSP Recessed 4 Loop 1-¼" SS Manifold Small Pump Panel Top Feed		1	ea.	102
SSPSR106B	SSP Recessed 6 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed		1	ea.	102
SSPSR106T	SSP Recessed 6 Loop 1-¼" SS Manifold Small Pump Panel Top Feed		1	ea.	102
SSPSR108B	SSP Recessed 8 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed		1	ea.	102
SSPSR108T	SSP Recessed 8 Loop 1-¼" SS Manifold Small Pump Panel Top Feed		1	ea.	102
SSPSR110B	SSP Recessed 10 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed		1	ea.	102
SSPSR110T	SSP Recessed 10 Loop 1-¼" SS Manifold Small Pump Panel Top Feed		1	ea.	102
SSPSR112B	SSP Recessed 12 Loop 1-¼" SS Manifold Small Pump Panel Bot. Feed		1	ea.	102
SSPSR112T	SSP Recessed 12 Loop 1-¼" SS Manifold Small Pump Panel Top Feed		1	ea.	102
SSPSS104B	SSP SURF MNT 4 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed		1	ea.	102
SSPSS104T	SSP SURF MNT 4 Loop 1-¼" SS Man. Small Pump Panel Top Feed		1	ea.	102
SSPSS106B	SSP SURF MNT 6 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed		1	ea.	102
SSPSS106T	SSP SURF MNT 6 Loop 1-¼" SS Man. Small Pump Panel Top Feed		1	ea.	102
SSPSS108B	SSP SURF MNT 8 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed		1	ea.	102
SSPSS108T	SSP SURF MNT 8 Loop 1-¼" SS Man. Small Pump Panel Top Feed		1	ea.	102
SSPSS110B	SSP SURF MNT 10 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed		1	ea.	102
SSPSS110T	SSP SURF MNT 10 Loop 1-¼" SS Man. Small Pump Panel Top Feed		1	ea.	102
SSPSS112B	SSP SURF MNT 12 Loop 1-¼" SS Man. Small Pump Panel Bot. Feed		1	ea.	102
SSPSS112T	SSP SURF MNT 12 Loop 1-¼" SS Man. Small Pump Panel Top Feed		1	ea.	102
SSTLR104B	SST Recessed 4 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed		1	ea.	106
SSTLR104T	SST Recessed 4 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed		1	ea.	106
SSTLR106B	SST Recessed 6 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed		1	ea.	106
SSTLR106T	SST Recessed 6 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed		1	ea.	106
SSTLR108B	SST Recessed 8 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed		1	ea.	106
SSTLR108T	SST Recessed 8 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed		1	ea.	106
SSTLR110B	SST Recessed 10 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed		1	ea.	106
SSTLR110T	SST Recessed 10 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed		1	ea.	106
SSTLR112B	SST Recessed 12 Loop 1-¼" SS Manifold Large Mixing Panel Bottom Feed		1	ea.	106
SSTLR112T	SST Recessed 12 Loop 1-¼" SS Manifold Large Mixing Panel Top Feed		1	ea.	106
SSTLR204B	SST Recessed 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLR204T	SST Recessed 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLR206B	SST Recessed 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLR206T	SST Recessed 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLR208B	SST Recessed 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLR208T	SST Recessed 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLR210B	SST Recessed 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLR210T	SST Recessed 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLR212B	SST Recessed 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLR212T	SST Recessed 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLS104B	SST SURF MNT 4 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed		1	ea.	106
SSTLS104T	SST SURF MNT 4 Loop 1-¼" SS Man. Large Mixing Panel Top Feed		1	ea.	106
SSTLS106B	SST SURF MNT 6 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed		1	ea.	106
SSTLS106T	SST SURF MNT 6 Loop 1-¼" SS Man. Large Mixing Panel Top Feed		1	ea.	106

Special Order* - * Lead time may vary. Confirmed at time of order.

Stk#	Description	Status	Pkg Qty	Unit	Pg.
SSTLS108B	SST SURF MNT 8 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed		1	ea.	106
SSTLS108T	SST SURF MNT 8 Loop 1-¼" SS Man. Large Mixing Panel Top Feed		1	ea.	106
SSTLS110B	SST SURF MNT 10 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed		1	ea.	106
SSTLS110T	SST SURF MNT 10 Loop 1-¼" SS Man. Large Mixing Panel Top Feed		1	ea.	106
SSTLS112B	SST SURF MNT 12 Loop 1-¼" SS Man. Large Mixing Panel Bot. Feed		1	ea.	106
SSTLS112T	SST SURF MNT 12 Loop 1-¼" SS Man. Large Mixing Panel Top Feed		1	ea.	106
SSTLS204B	SST SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLS204T	SST SURF MNT 4 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLS206B	SST SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLS206T	SST SURF MNT 6 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLS208B	SST SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLS208T	SST SURF MNT 8 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLS210B	SST SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLS210T	SST SURF MNT 10 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTLS212B	SST SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Bot. Feed		1	ea.	106
SSTLS212T	SST SURF MNT 12 Loop 1-¼" High Flow SS Man. Large Pump Panel Top Feed		1	ea.	106
SSTSR104B	SST Recessed 4 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed		1	ea.	104
SSTSR104T	SST Recessed 4 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSR106B	SST Recessed 6 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed		1	ea.	104
SSTSR106T	SST Recessed 6 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSR108B	SST Recessed 8 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed		1	ea.	104
SSTSR108T	SST Recessed 8 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSR110B	SST Recessed 10 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed		1	ea.	104
SSTSR110T	SST Recessed 10 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSR112B	SST Recessed 12 Loop 1-¼" SS Manifold Small Mixing Panel Bottom Feed		1	ea.	104
SSTSR112T	SST Recessed 12 Loop 1-¼" SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSR204B	SST Recessed 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Bot. Feed		1	ea.	104
SSTSR204T	SST Recessed 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Top Feed		1	ea.	104
SSTSS104B	SST SURF MNT 4 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS104T	SST SURF MNT 4 Loop 1-¼" SS Man. Small Mixing Panel Top Feed		1	ea.	104
SSTSS106B	SST SURF MNT 6 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS106T	SST SURF MNT 6 Loop 1-¼" SS Man. Small Mixing Panel Top Feed		1	ea.	104
SSTSS108B	SST SURF MNT 8 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS108T	SST SURF MNT 8 Loop 1-¼" SS Man. Small Mixing Panel Top Feed		1	ea.	104
SSTSS110B	SST SURF MNT 10 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS110T	SST SURF MNT 10 Loop 1-¼" SS Man. Small Mixing Panel Top Feed		1	ea.	104
SSTSS112B	SST SURF MNT 12 Loop 1-¼" SS Man. Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS112T	SST SURF MNT 12 Loop 1-¼" SS Man. Small Mixing Panel Top Feed		1	ea.	104
SSTSS204B	SST SURF MNT 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Bot. Feed		1	ea.	104
SSTSS204T	SST SURF MNT 4 Loop 1-1/4" High Flow SS Manifold Small Mixing Panel Top Feed		1	ea.	104
TFT01	TFT01 Boiler Panel 3 Pump		1	ea.	84
TFT02	TFT02 High Capacity Boiler 4 Pump		1	ea.	84
TMP040	TMP 40MBH 3-Way Mixing Panel		1	ea.	88
TMP070	TMP 70MBH 3-Way Mixing Panel		1	ea.	88
TMP070RS	TMP 70MBH 3-Way Mixing Panel (Automatic Outdoor Reset)		1	ea.	90
TMP070Z	TMP 70MBH 3-Way Mixing Panel with Zoning		1	ea.	89
TMP085DP	TMP 85MBH Dual Pump 3-Way Mixing panel		1	ea.	91
TMP-MW1P0DSS	TMP-MULTI, PrimaryNone, DHW, LowTmp/SmTMV-2		1	ea.	93
TMP-MW1P2DSS	TMP-MULTI, Primary26-99, DHW, LowTmp/SmTMV-2		1	ea.	93
TMP-MW1P0DHSS	TMP-MULTI, PrimaryNone, DHW, HiTmp-1, LowTmp/SmTMV-2		1	ea.	93
TMP-MW1P2DHSS	TMP-MULTI, Primary26-99, DHW, HiTmp-1, LowTmp/SmTMV-2		1	ea.	93

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Stk#	Description	Status	Pkg Qty	Unit	Pg.
TWH070P	TWH 70MBH Tankless Water Heater Mixing Panel (DHW Priority Opt)		1	ea.	94
TWH070XP	TWH 70MBH HH Tankless Water Heater Mixing Panel (DHW Priority Opt)		1	ea.	94
TWH070XPZ	TWH 70MBH High Head Tankless Water Heater Mixing Panel with Zoning		1	ea.	95
TWH070Z	TWH 70MBH Tankless Water Heater Mixing Panel with Zoning		1	ea.	95
V101	V100 Boiler Panel 1 Htg 1 DHW		1	ea.	81
V102	V100 Boiler Panel 2 Htg 1 DHW		1	ea.	81
V103	V100 Boiler Panel 3 Htg		1	ea.	81

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