



FALL HEATING SPECIAL EDITION

HEATING | SERVICE TOOLS | ELECTRICAL | SPECIALTY ITEMS | CLEANERS



SERVING THE NORTH AMERICAN
HVAC/R INDUSTRY FOR OVER 40 YEARS

2017/18

Fireplace Forged Gas Ball Valves

- Brass ball valves
- Red wing handle
- 600 WOG



Brass Indoor	Plated Outdoor	Description	Case Qty.
06-FGV38	06-FGV38P	3/8" FNPT x 3/8" FNPT	5
06-FGV12	06-FGV12P	1/2" FNPT x 1/2" FNPT	5
06-FGV34	06-FGV34P	3/4" FNPT x 3/4" FNPT	5
06-FGV1	06-FGV1P	1" FNPT x 1" FNPT	2
-	06-FGV114P	1 1/4" FNPT x 1 1/4" FNPT	2
06-FGV112	06-FGV112P	1 1/2" FNPT x 1 1/2" FNPT	2
-	06-FGV2P	2" FNPT x 2" FNPT	2



Fireplace Forged Gas Ball Valves

- Brass ball valves
- Red wing handle
- 600 WOG



Brass Indoor	Description	Case Qty.
06-FP1238	1/2" FNPT x 3/8" Male flare	10
06-FP1212	1/2" FNPT x 1/2" Male flare	10



Appliance Forged Gas Ball Valves

- Brass ball valves
- Red wing handle
- 600 WOG



Brass Indoor	Description	Case Qty.
06-GWH12	1/2" FNPT x 1/2" FNPT, 3/8" port	10
06-GWH34	3/4" FNPT x 3/4" FNPT, 1/2" port	10



Appliance Forged Gas Ball Valves

- Brass ball valves
- Yellow flat head
- 600 WOG



Brass Indoor	Description	Case Qty.
06-FHGV12	1/2" FNPT x 1/2" FNPT, 3/8" port	12
06-FHGV34	3/4" FNPT x 3/4" FNPT, 1/2" port	12



Boiler Drain Valves

Forged Boiler Gate Valves

- Forged drain valves
- Green Handle



Brass Indoor	Description	Case Qty.
06-BGV12	1/2" MNPT x Hose.	5
06-BGV34	3/4" MNPT x Hose.	5

Water Valves

Brass Wided Ball Valves

- Full Port
- Female sweat connection
- 600 WOG
- Green lever handle



Brass Indoor	Description	Case Qty.
06-SWV12	1/2" Sweat x 1/2" Sweat.	5
06-SWV34	3/4" Sweat x 3/4" Sweat.	5

Features

- Compact superior design.
- Individually boxed with instructions.
- Includes necessary mounting hardware.
- Complete cross-reference.

Control transformers are designed for use in 2.5, 12 or 24 volt alternating current (AC) control systems, including air conditioning circuits, thermostats, gas valves, relays and or other applications that do not exceed the listed ratings. These transformers can be used to replace any transformers of the same primary voltage and equal or smaller VA ratings.

SPECIALLY DESIGNED FOR LOW VOLTAGE CONTROL APPLICATIONS IN THE INDUSTRIAL HEATING & COOLING INDUSTRY!



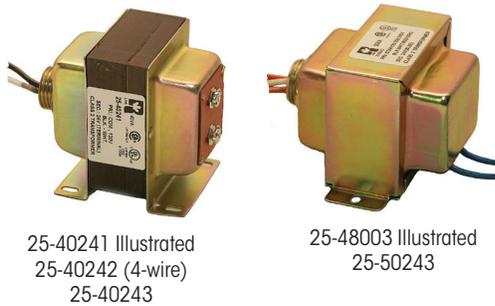
34-20241

34-40240W
Illustrated

34-40245
Illustrated

Foot Mount

Part #	VA	Primary Voltage	Secondary	
			Voltage	Connections
34-20241	20	120	24	Wire
34-40244	40	120	24	Wire
34-40240	40	240	24	Wire
34-40245	40	120/ 208/ 240	24	Wire
34-50254	50	575	24	QC



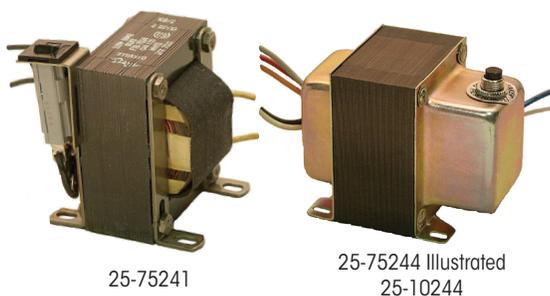
25-40241 Illustrated
25-40242 (4-wire)
25-40243

25-48003 Illustrated
25-50243

Multi Mount (Foot, Plate, Conduit)

34-52C6 mounting plate, (2) screws & (2) wire connectors included.

Part #	VA	Primary Voltage	Secondary	
			Voltage	Connections
34-40241	40	120	24	Screw
34-40242	40	208/ 240 / 277	24	Screw
34-40243	40	120/ 208/ 240	24	Screw
34-48003	48	120/ 208/ 240	2.5 / 12 / 24	Wire
34-50243	50	120/ 208/ 240	24	Wire



25-75241

25-75244 Illustrated
25-10244

Foot Mount

Heavy Duty (c/w Circuit Breaker)

Part #	VA	Primary Voltage	Secondary	
			Voltage	Connections
34-75241	75	120	24	Wire
34-75244	75	120/ 208/ 240/ 480	24	Wire
34-75254	75	120/ 208/ 240/ 575	24	Wire
34-10244	96	120/ 240/ 277/ 480	24	Wire



25-52C6
Mounting Plate
& Hardware



25-FA112
Optional
Mounting Plate

Features:

- Automatic & manual reset*
- Corrosion resistant.
- Environmentally sealed (water tight switched).
- Non-position-sensitive.
- Low/high pressure cycling.
- Condenser fan cycling.
- Variety of fixed pressure settings.
- Complete with 1/4 inch SAE female flare fitting with valve core depressor.
- 18 inch leads (longer lead lengths available).

*Note: Automatic reset controls may be used to replace manual reset controls.

Miniature pressure controls are fixed setting controls used on refrigeration, air conditioning, or heat pump systems using R12, R22, R410A or R502 refrigerants. Both low (suction) and high (discharge or head pressure) sensing controls are available. These single function controls, single pole, single throw (SPST) switches may be used in a variety of applications: direct control of single speed fan motors or compressors; in conjunction with a contactor for pilot duty; or to control electronic management systems. The RMF Miniature Pressure control will cycle a single speed condenser fan when the predetermined head pressure (cut in) is reached. When the head pressure is reduced to a predetermined pressure (cut out), the fan will shut off. (Normally open switch). CSA & UL approved.

Pressure Control Switches

Part #	Application	Setting (psig)		Cross Reference
		Cut Out	Cut In	
41-RML-520	Low Pressure Cut Out	5	20	33329, PS-LP05-20, PC002.
41-RML-1025		10	25	33330, PS-LP10-25, 3100-050.
41-RML-1535		15	35	33333.
41-RML-1555L		15	55	Long Lead (30").
41-RML-2045		20	45	
41-RML-2580		25	80	33362, 33363, 33336, PS-LP25-80, 3100-051.
41-RML-3560		35	60	PC001.
41-RML-4080		40	80	33364, PS-LP40-80, 3100-052.
41-RML-4560		45	60	33339.
41-RML-75100		75	100	Suitable for R410A
41-RML-90120F		90	120	
41-RMF-75120		Condenser Fan Cycling	75	120
41-RMF-110170	110		170	
41-RMF-150225	150		225	
41-RMF-190275	190		275	33341.
41-RMF-300400	300		400	
41-RMH-250180	High Pressure Cut Out	250	180	33350.
41-RMH-300200		300	200	33310, 33355, PS-HP300-200.
41-RMH-325225		325	225	33313.
41-RMH-350250		350	250	33316, 33356, PS-HP350-250, 3100-150, PC150.
41-RMH-375275		375	275	33319.
41-RMH-400200		400	200	
41-RMH-400300		400	300	33322, 33357, 33358, PS-HP400-300, 3100-151, PC151.
41-RMH-425325		425	325	33325, 33359, PC100.
41-RMH-600475		600	475	Suitable for R410A
41-RMM-350		Mini Pressure Manual	350	-
41-RMM-410	410		-	33365
41-RMM-430	430		-	33352
41-RMM-440	440		-	33350
41-RMM-600	600		-	

The miniature pressure controls are supplied with 12 inch, 18 AWG stranded leads, stripped 1/2 inch. RML and RMF are blue – RMH are black.

Pressure Connections

1/4 inch, SAE female flare fitting with valve core depressor.

Fittings

All RML, RMF and RMH controls are individually packaged and equipped with a 1/4" SAE female flare fitting. For application requiring a pressure connector other than 1/4" female flare, use an appropriate adapter or connector.

Example:

- 02-C31004 – 1/4" SAE male flare to 1/4" tube adapter
- 02-C31482 – 1/4" SAE male flare to 1/8" MPT connector

Settings

All RML, RMF and RMH controls will have pressures stamped on the control. Normally, the OEM's pressure is stamped on the control.

Automatic reset controls may be used to replace manual resets.

Electrical Ratings

Electrical ratings must not be exceeded and all electrical connections must comply with local approval authorities.

Temperature

Operating Ambient -20° to 150°F (-28° to 65°C).

Refrigerant -35° to 275°F (-37° to 135°C).



41-RML-2045
Illustrated



VAC	FLA	LRA
24	-	-
120	10	40
240	5	20
277	-	-

Features

- 1.5 pole (1 pole with shunt) 30 & 40 amp to 2 pole 20, 25, 30 & 40 amp.
- Features lug, spade terminals and protective covers
- Compact size
- Universal galvanized mounting plates
- ARI 780/790 standards
- Brass/copper terminals
- Quick connect and screw terminals on coil.
- Snap on auxiliary contacts available
- cURus approved



1 Pole with Shunt and 2 Pole Models

Part #	Poles	Full Load Amps.	Coil Voltage 50/60	Locked Rotor Amps			Resistive Amps.	Termination	Furnas #
				240V	480V	600V			
DP-1P30A24	1.5	30	24	180	150	120	40	Box Lug	45EG10AJA
DP-1P30A120	1.5	30	120	180	150	120	40	Screw Type	45EG10AFA
DP-1P30A240	1.5	30	208/240	180	150	120	40		45EG10AGA
DP-1P40A24	1.5	40	24	240	200	160	50	Box Lug	45GG10AJAL, 45FG10AJA, 45GG10AJA
DP-1P40A120	1.5	40	120	240	200	160	50		45GG10AFAL, 45FG10AFA, 45GG10AFA
DP-1P40A240	1.5	40	208/240	240	200	160	50		45GG10AGAL, 45FG10AGA, 45GG10AGA
DP-2P20A24	2	20	24	120	100	80	30	Box Lug	45CG20AJ
DP-2P20A120	2	20	120	120	100	80	30		45CG20AF
DP-2P20A240	2	20	208/240	120	100	80	30		45CG20AG
DP-2P25A24	2	25	24	150	125	100	35	Box Lug	45DG20AJ
DP-2P25A120	2	25	120	150	125	100	35		45DG20AF
DP-2P25A240	2	25	208/240	150	125	100	35		45DG20AG
DP-2P30A24	2	30	24	180	150	120	40	Screw Type	45EG20AJ
DP-2P30A120	2	30	120	180	150	120	40	Box Lug	45EG20AF
DP-2P30A240	2	30	208/240	180	150	120	40	Screw Type	45EG20AG
DP-2P40A24	2	40	24	240	200	160	50	Box Lug	45GG20AJL
DP-2P40A120	2	40	120	240	200	160	50		45GG20AFL
DP-2P40A240	2	40	208/240	240	200	160	50		45GG20AGL

Definite Purpose Magnetic Contactors

ALLTEMP

a **DIVERSITECH** company

Economy

Features

- 3 pole 20, 25, 30, 40, 50 & 60 amp
- Totally enclosed
- Features lug, spade terminals and protective covers
- Compact size
- Universal galvanized mounting plates
- ARI 780/790 standards
- Push to test button
- Brass/copper terminals
- Quick connect and screw terminals on coil.
- Snap on auxiliary contacts available
- cURus approved



3 Pole Models

Part #	Poles	Full Load Amps.	Coil Voltage 50/60	Locked Rotor Amps			Resistive Amps.	Termination	Furnas #
				240V	480V	600V			
DP-3P20A24	3	20	24	120	100	80	30	Box Lug	-
DP-3P20A120	3	20	120	120	100	80	30		-
DP-3P20A240	3	20	208/240	120	100	80	30		-
DP-3P25A24	3	25	24	150	125	100	35	Box Lug	-
DP-3P25A120	3	25	120	150	125	100	35		-
DP-3P25A240	3	25	208/240	150	125	100	35		-
DP-3P30A24	3	30	24	180	150	120	40	Box Lug	42BF35AJ
DP-3P30A120	3	30	120	180	150	120	40	Screw Type	42BF35AF
DP-3P30A240	3	30	208/240	180	150	120	40		42BF35AG
DP-3P40A24	3	40	24	240	200	160	50	Box Lug	42CF35AJ
DP-3P40A120	3	40	120	240	200	160	50		42CF35AF
DP-3P40A240	3	40	208/240	240	200	160	50		42CF35AG
DP-3P50A24	3	50	24	300	250	200	65	Box Lug	42DF35AJ
DP-3P50A120	3	50	120	300	250	200	65		42DF35AF
DP-3P50A240	3	50	208/240	300	250	200	65		42DF35AG
DP-3P60A24	3	60	24	360	300	240	75	Box Lug	42EF35AJ
DP-3P60A120	3	60	120	360	300	240	75		42EF35AF
DP-3P60A240	3	60	208/240	360	300	240	75		42EF35AG
DP-3P75A24	3	75	24	450	375	300	90	Box Lug	42FE35AJ106
DP-3P75A120	3	75	120	450	375	300	90		42FE35AF106
DP-3P75A240	3	75	208/240	450	375	300	90		42FE35AG106
DP-3P90A24	3	90	24	540	450	360	120	Box Lug	42GE35AJ106
DP-3P90A120	3	90	120	540	450	360	120		42GE35AF106
DP-3P90A240	3	90	208/240	540	450	360	120		42GE35AG106

Features

- 4 pole 20, 25, 30 & 40 amp
- Features lug, spade terminals and protective covers
- Totally enclosed
- Compact size
- Universal galvanized mounting plates
- ARI 780/790 standards
- Push to test button
- Brass/copper terminals
- Quick connect and screw terminals on coil.
- Snap on auxiliary contacts available
- cURus approved



4 Pole Models

Part #	Poles	Full Load Amps.	Coil Voltage 50/60	Locked Rotor Amps			Resistive Amps.	Termination	Furnas #
				240V	480V	600V			
DP-4P20A24	4	20	24	120	100	80	30	Box Lug	-
DP-4P20A120	4	20	120	120	100	80	30		-
DP-4P20A240	4	20	208/240	120	100	80	30		-
DP-4P25A24	4	25	24	150	125	100	35	Box Lug	-
DP-4P25A120	4	25	120	150	125	100	35		-
DP-4P25A240	4	25	208/240	150	125	100	35		-
DP-4P30A24	4	30	24	180	150	120	40	Box Lug	42BF25AJ
DP-4P30A120	4	30	120	180	150	120	40	Screw Type	42BF25AF
DP-4P30A240	4	30	208/240	180	150	120	40	Box Lug	42BF25AG
DP-4P40A24	4	40	24	240	200	160	50	Box Lug	42CF25AJ
DP-4P40A120	4	40	120	240	200	160	50		42CF25AF
DP-4P40A240	4	40	208/240	240	200	160	50		42CF25AG

Definite Purpose Magnetic Contactors

Economy

Features

- Auxillary switches for 3 & 4 pole 30 - 90 amp "DP" series contactors
- Compact size
- cURus approved



DP-AS1



DP-AS2



DP-AS3



DP-AS4



DP-AS5



DP-AS6



DP-AS7



DP-AS8



DP-AS9



DP-AS10

Auxiliary Switches

Switch Size	Part #	Cont. Amps	Voltage Rating	Description	Connection
3 Pole, 20-60 Amp 4 Pole 30-60 Amp	DP-AS3	10	600	2 x SPST, N.O. & N.C.	Quick
	DP-AS6	10	600	2 x SPST, N.O. & N.C.	Screw
	DP-AS7	10	300	SPDT, N.O. & N.C.	Quick
	DP-AS8	10	300	2 x SPDT, N.O. & N.C.	Quick
	DP-AS1	10	600	SPST, N.O.	Quick
	DP-AS4	10	600	SPST, N.O.	Screw
	DP-AS2	10	600	SPST, N.C.	Quick
	DP-AS5	10	600	SPST, N.C.	Screw
3 Pole, 50-60 Amp	DP-AS10	10	300	SPDT, N.O. & N.C.	Quick
3 Pole, 75-90 Amp	DP-AS9	10	300	SPDT, N.O. & N.C.	Quick



25-90290
Illustrated

Contact Rating
- 125/250 VAC

FLA	LRA	Inductive Amps	Resistive Amps
8	18	8 Amp Continuous	16 Amp Continuous

Specifications

- Temperature Range: -20°C (-4°F) to 40°C (104°F).
- Mechanical Life: 1,000,000 operations.
- Electrical Life: 100,000 operations (@ 16amp 240VAC Res.)
- Operate Time (typical): 25 ms at nominal coil voltage.
- Release Time (typical): 25 ms at nominal coil voltage.
- Dielectric Strength (at sea level for 1 min.):
 - 2500 Vrms coil to contact.
 - 1000 Vrms between open contacts.
- Coil Frequency: 50/60 Hz.
- Coil Insulation: Class A (105°C / 221°F).
- Coil Duty Cycle: Continuous.
- Terminals: ¼" quick-connects.
- Contact Material: Silver cerium
- Enclosure: Phenolic.

Features

Designed for switching single or two speed fan motor, relays, solenoids, resistive loads in cooling, heating or general purpose switching applications.

- Replace WR/ Essex/ RBM & Mars type 84 models
- Totally enclosed compact design.
- Quiet & reliable operations.
- UL & cUR (file E44211)
- Universal mounting bracket.

2-Pole HVAC Standard Duty Relays

Coil Voltage	Part # SPST	Part # SPDT	Coil Resistance DC OHMS ±10%	Nominal Current MA	Nominal VA Sealed	Inrush VA
24	25-90290	25-90293	90	146	3.5	4
120	25-90291	25-90294	2,000	29		
240	25-90292	25-90295	7,200	15		

Totally Enclosed Fan Relays - Heavy Duty



25-90380
Illustrated

Specifications

- Temperature Range: -20°C (-4°F) to 40°C (104°F).
- Mechanical Life: 1,000,000 operations.
- Electrical Life: 100,000 operations (@ 25amp 277VAC Res.)
- Operate Time (typical): 25 ms at nominal coil voltage.
- Release Time (typical): 25 ms at nominal coil voltage.
- Dielectric Strength (at sea level for 1 min.):
 - 2500 Vrms coil to contact.
 - 1000 Vrms between open contacts.
- Coil Frequency: 50/60 Hz.
- Coil Insulation: Class A (105°C / 221°F).
- Coil Duty Cycle: Continuous.
- Terminals: ¼" quick-connects.
- Contact Material: Silver cadmium oxide.
- Enclosure: Phenolic.

Features

- Designed for cooling, heating or general purpose switching equipment operating heavier loads.
- Replace WR/ Essex/ RBM & Mars type 184 models
- Totally enclosed compact design.
- Quiet & reliable operations.
- Universal mounting bracket
- UL & cUR (file E44211)
- SPST, SPDT & SPNO/SPNC models.

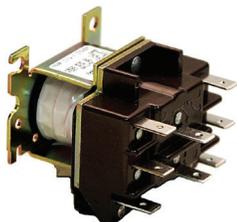
Heavy Duty Relays

Coil Voltage	SPST Part #	SPDT Part #	SPNO-SPNC* Part #	Coil Resistance DC OHMS ±10%	Nominal Current MA	Nominal VA Sealed	Inrush VA
24	25-90360	25-90370	25-90380	77	167	4	4
120	25-90362	25-90372	25-90382	2,000	33		
240	25-90364	25-90374	25-90384	7,200	17		

Contact Rating

VAC	Amps	FLA	LRA	Inductive Amps	Resistive Amps
125VAC	25	14	84	14 Amp Continuous	25 Amp Continuous @ 277 VAC
250VAC		8	48	8 Amp Continuous	
277VAC		7	42	7 Amp Continuous	

Totally Enclosed Relay - 2 Pole HVAC Switching Relays



25-90340
Illustrated

Specifications

- Temperature Range: -40°C (-40°F) to 54°C (130°F).
- Mechanical Life: 750,000 operations.
- Electrical Life: 100,000 operations.
- Coil Frequency: 50/60 Hz.
- Coil Insulation: Class B.
- Coil Duty Cycle: Continuous.
- Terminals: ¼" quick-connects.
- Contact Material: Silver cadmium oxide.
- Enclosure: Phenolic.
- Dimensions 2.13" x 1.88" x 2.25".

Features

- Intended for many applications in air conditioning, refrigeration, heating and general purpose switching.
- Replaces Honeywell, White-Rodgers/RBM & Mars (cross reference in packaging)
- Semi-enclosed compact design.
- Quiet & reliable operations.
- Universal mounting bracket
- Molded terminal numbers and circuit diagram on top of relay.
- UL & cUR (file E44211).
- 2 Pole DT mode

Heavy Duty Relays

Coil Voltage	DPDT Part #	Terminals 1,2,3.	Terminals 4,5,6.	Resistance DC OHMS ±10%	Nominal Current MA	Nominal VA Sealed Max.	Inrush VA Max.	Cross Reference			VAC	Amps General Use	HP	LRA	FLA	
								WR/ RBM	Honeywell	Mars						
24	25-90340	Power	Power	15	334	8	21.5	90-340	R4222B1082	90340	125V	15	3/4	82.8	13.8	
120	25-90341			400	66			90-341	R4222B1090	90341				208V	45.6	7.6
240	25-90342			1415	38			90-342	R4222D1013	90342				250V	41.4	6.9
											277V		-	36.0	6.0	

Features

- Solid State PTC Heaters
- Quick-Connect Terminals
- Shock & Vibration Resistant
- Mounts in any position
- Contact Ratings - to 25 Amps at 120 or 240 Volts, and 12.5A at 480 Volts
- Full-Load Rated Auxilliary Contacts
- Standard Operating Ambience Between -50°F (-45.5°C) and 165°F (73.8°C)



Applications

- Electric Furnaces
- Baseboard Heaters
- Duct Heaters
- Suspension Heaters
- Recreational vehicle blower and element control
- Heat pump blower and heating element control
- Motor speed switching in air conditioning (high speed) / heating systems handle combination motor and heater element loading in the heater function
- Control circuits requiring definite sequence on both start up and shut down

Standard Timings

Part #	Timings	Switches	Timings (seconds) - On					Timings (seconds) - Off				
			M1- M2	M3- M4	M5- M6	M7- M8	M9- M10	M1- M2	M3- M4	M5- M6	M7- M8	M9- M10
HS-24A34-21	1	1	1-20					1-60				
HS-24A34-22	1	1	15-45					1-30				
HS-24A34-23	1	1	25-60					15-45				
HS-24A34-24	1	1	30-90					1-40				
HS-24A34-25	1	1	30-90					1-30				
HS-24A34-26	2	2	1-20	30-90				40-90	1-30			
HS-24A34-27	3	1	1-160					1-160				
HS-24A34-29	1	1	15-35					25-55				
HS-24A34-36	2	2	1-20	30-90				45-110	1-30			
HS-24A34-37	3	1	1-110					1-110				

Notes

- M1-M2 and M3-M4 are always the first switches to turn on and the last to turn off. All other switches are random on and random off.
- ON TIME - Elapsed time to make contacts after heater is energized
- OFF TIME - Elapsed time to make contacts after heater is de-energized
- OFF timings determined after PTC heater has been electrified for a total of 5 minutes
- Standard Timings determined at 25°C. Timings at temperatures above or below 25° will vary

Heater Pole
24 Vac 0.18A (anticipator)
0.75A Max Inrush
0.16 to 0.20 amps Steady State
Ambient Rating: - 50° to 160°F

Electrical Ratings

VAC	Resistive (non-inductive)		Motor ratings (inductive)		Pilot Duty
	Watts	Amps	Full Load	Locked Rotor	
120	3000	25.0	10.0A	60.0A	125VA
240	6000	25.0	5.0A	30.0A	125VA
480	6000	12.5	3.0A	18.0A	480VA

Combined Load Ratings (all models):
30A @ 240 VAC - Total: 23 A non-inductive
+ 7 FLA/42 LRA Inductive
Life at rated current: 100,000 cycles



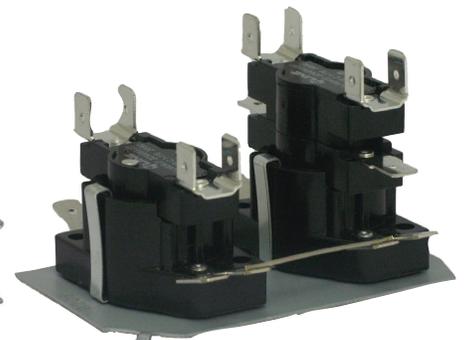
HS-24A34-21, 22, 23, 24, 25



HS-24A34-29



HS-24A34-26, 27, 36



HS-24A34-37



67-660
Illustrated

Blower Pulleys

Part #	Bore	Diameter
67-650*	3/4"	5"
67-660		6"
67-670		7"
67-680		8"
67-690		9"
67-610		10"
67-612		12"

* 5" pulley is solid

Blower Pulleys

Part #	Bore	Diameter
67-860	1"	6"
67-870		7"
67-880		8"
67-890		9"
67-810		10"
67-812		12"



67-4325
Illustrated

Variable Speed Pulleys

Part #	Bore	Diameter
67-4325	1/2"	3 1/4"
67-4350		3 1/2"
67-4375		3 3/4"
67-4400		4"
67-5325	5/8"	3 1/4"
67-5350		3 1/2"
67-5375		3 3/4"
67-5400		4"

Cast aluminium pulley mfg'd to OEM specs

Bearings

Ball Bearings

Bearings complete with collar.

Part #	Bore	OD	Replaces
67-4336-1	3/4"	1 13/16"	LRCR
67-4336-2			(2) Bearings & (2) Collars
67-4346-1	1"	2 1/4"	RCR



67-4336-1
Illustrated

Sleeve Bearing Packs

Kits include 2 bearings & 2 rubber sleeves.

Part #	Bore	OD	Type	Replaces
67-4036-2	3/4"	1 25/32"	Oil	Delhi
67-4135-2	5/8"	1 7/8"	Sealed	Lau
67-4136-2	3/4"	1 13/16"		Delhi
67-4137-2		Lau & Lennox		
67-4138-2	1 7/8"	Torin		
67-4147-2	1"	2 1/2"		Lau & Lennox
67-4148-2				Torin



67-4036-2
Oil Type Illustrated



67-4136-2
Sealed Type Illustrated



Bearings & Sleeves

Part #	Bore	Type
67-4136-R	3/4"	Rubber sleeve
67-4146-R	1"	Rubber sleeve
67-4136-B	3/4"	Sealed bearing
67-4036-B	3/4"	Oil bearing



67-4136-R
Illustrated



67-4136-B
Illustrated



67-4046-B
Illustrated

Thrust Collar Packs

Part #	Description
67-2164	(2) 5/8" collars & washers.
67-2165	(2) 3/4" collars & washers.
67-2166	(2) 1" collars & washers.



67-2165
Illustrated

Cushioned Pillow Blocks

Part #	Description	Industry no.	Lau no.	Bearing shaft size	Order mult.
535-BB1	Bronze Bearing Pillow Block	NAH8A		1/2"	1
535-BB2	Bronze Bearing Pillow Block	NAH10A	38-2204-01	5/8"	1
535-BB3	Bronze Bearing Pillow Block	NAH12A	38-2086-01	3/4"	1
535-BB4	Bronze Bearing Pillow Block	NAH16A	38-2087-01	1"	1

NEW!!



Side Flange Mount Pillow Blocks

Part #	Description	Industry No.	Bearing Shaft Size	Order Mult.
535-BB6	Cushioned Flange Block	NAH10A	5/8"	1

NEW!!



Sized to bearing manufacturer's specifications.
Slabbed on pulley end.
Rust protected.
Individually wrapped.
Protective end caps.
Part number and size listed on every shaft.



67-61610
Illustrated

Part #	Diameter	Length	Reference
67-61100	3/4"	11"	Lennox, 2100157
67-61110		11 5/8"	Lennox
67-61212		12 3/4"	8-5-495C, 2100002
67-61400		14"	8-5-245C, 2100159
67-61550		15 5/16"	G9, G12-9, 2100160
67-61600		16"	8-6-23608, WW15X36, 2100162, 2100163, 2100198
67-61610		16 5/8"	8-5-240C, G10, G110, 2100011, 2100161
67-61800		18"	8-5-247C, 8-5-241C, 2100012
67-61920		19 1/8"	G12, 2100168
67-62000		20"	M90-256, RS620
67-62200		22"	2100013
67-62400		24"	8-5-243C
67-63600		36"	
67-82000		1"	20"
67-82400	25"		8-5-252C & 255C, M90-257, G15, 2100037, 55, 56, 2100166
67-83600	36"		P-S-209, M90-270, 2100168, 2100052, 210054

Smoke Emitters

Cartridge Type Smoke Emitters

Part #	Type	Burning Time (seconds)	Cartridge / Pack	Smoke Emitted (Cu. ft.)	Weight / Cartridge
61-S210-25	Splintax	20	25 matches/pk	20	0.35 oz.
61-HT102	Fumax	45	10	150	1/10 lbs
61-HT103	Fumax KS	90	10	600	1/3 lbs
61-HT104	Ventax	180	5	1,200	2/3 lbs
61-HT105	Datax	240	5	2,500	2 lbs



61-S210-25
Illustrated

61-HT102
Illustrated

61-HT105
Illustrated

Pen Type Smoke Emitter

Part #	Description
61-S220	Contains 1 pen with 6/ pk replacement wicks. 6 wicks provide up to 3 hours of continuous smoke, or 360 individual 30 second tests.
61-S221	6 pack of replacement wicks in plastic case for 61-S220 smoke pen.



61-S220
Illustrated

61-S221
Illustrated

Smoke Bottles

Part #	Description
61-S101	10 Smoke bottles. Each bottle can be used for 24 hours after ampule has been broken.

Note: The smoke generated by smoke bottles is corrosive.



61-S101
Illustrated

61-S201
Illustrated

Powder-Puffers

Part #	Description
61-S201	10 Powder-Puffers.

Thermostats - Fixed Temperature

Fixed Temperature Thermostats

- The 78-SC055 to 78-SC075S series of thermostats are low cost single set point thermostats intended for temporary heating or cooling to allow drywall to dry during construction. Can also be used for low ambient cut-off switch.
- Rugged utility thermostat for temporary applications.
- deal for new or ongoing construction areas.
- Five fixed set point models to choose from (55°, 60°, 65°, 70°, 75°F).
- Hardwired.

Specifications

- Electrical Rating
24 volt AC (18-30 VAC)
2 amp maximum
- Temperature Control Ranges
Accuracy ±5°F 55°, 60°, 65°, 70°, 75°F

Applications

Ideal for warehouses & new home construction!

2 Wire Fixed Thermostats

Part #	Description
78-SC045	45°F cool.
78-SC055	55°F cool.
78-SC060	60°F heat.
78-SC065	65°F heat.
78-SC070	70°F heat.
78-SC075	75°F cool.

"Dry Out" Thermostats



78-SC075
Illustrated

3 Wire Fixed Thermostats

Switched fan, 3 modes:

- Fan Only • Off • Heat or Cool

Part #	Description
78-SC060S	60°F w/ switch - fan/off/ heat.
78-SC070S	70°F w/ switch - fan/off/ heat.
78-SC075S	75°F w/ switch - fan/off/ cool.

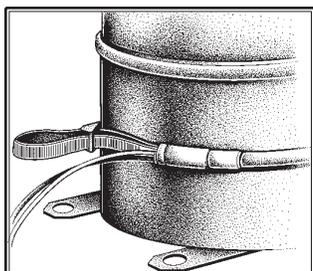


78-SC075S
Illustrated

Crankcase Heater



Self Regulating!



"Compressor Burnout Protection!"

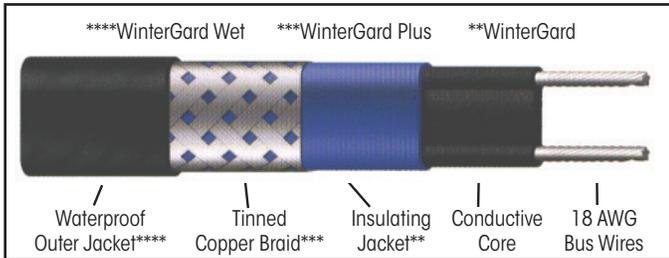
- When a refrigeration compressor shuts down or enters a long-off cycle, liquid refrigerant migrates into its crankcase oil. Lubrication decreases and crankcase burnout can occur when operation resumes.
- Energy efficient, self-regulating design automatically varies output to maintain adequate oil temperature while permitting wrapping and crossover without burnout.
- Handles compressors up to 5 Hp, 120 or 240 volt applications.
- Fits all crankcases with circumferences smaller than 49".

Crankcase Compressor Heaters

Part #	Volts	Output @ -18°C (0°F)	Output @ 16°C (60°F)	Weight
75-HCCH1	120	60W	35W	0.5 lbs.
75-HCCH2	240			0.5 lbs.

"Self Regulating" Heating Tape

- Easy installation
- Won't burn out
- Won't overheat
- OK to overlap
- OK to insulate
- OK for plastic
- No thermostat required
- Cut to desired length
- Higher efficiency
- UL & CSA approved



WinterGard Heating Cable

- Economical solution for residential/ commercial pipes up to 2" diameter and circuit length up to 250'.
- Dry applications only.
- Tough - steel braided.



WinterGard Plus Heating Cable

- Designed for more demanding residential/ commercial with larger plastic or metal pipes with diameters up to 8" and circuit lengths up to 250'.
- Dry applications only.
- Tough - steel braided.



Applications

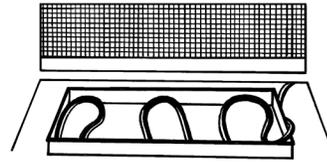
- Ideal freeze protection for pipes in unheated attics, basements and garages.
- Use it for intake and drain lines, water meters, outside pipes and taps.

WinterGard Wet Heating Cable

- The answer for freeze protection in wet or high moisture residential/ commercial locations such as drain lines with larger plastic or metal pipes. Suitable for pipe diameters up to 8" and circuit lengths up to 1000'.
- Wet or dry applications.
- Tough - steel braided & waterproof outer jacket.

Applications

- Ideal for residential & commercial buildings.
- Use it to freeze protect water service & fire protection systems.
- Roof & gutter de-icing.



Keep Wet Areas From Freezing With WinterGard Wet for tracing air conditioner drain pans to prevent freezing or gut tracing freezer drain lines to prevent backup problems.

Protect Pipes With WinterGard or WinterGard Plus for freeze protection of short & small diameter piping. Pre-cut lengths or custom cut lengths.



120V

- Blue Cable - Steel Braid

Part #	Watts/ft	Power	Length	Weight
75-H611050	6	120V	50' Box	3.0 lbs.
75-H611100*	6	120V	100' Truck Pack	9.0 lbs.
75-H611250	6	120V	250' Reel	17.0 lbs.

* 100' Truck Packs include (2) 75-H900, (1) 75-H903 & (1) 75-H910.



240V

- Red Cable - Steel Braid

Part #	Watts/ft	Power	Length	Weight
75-H621050	6	240V	50' Box	3.0 lbs.
75-H621100*	6	240V	100' Truck Pack	9.0 lbs.
75-H621250	6	240V	250' Reel	17.0 lbs.

* 100' Truck Packs include (2) 75-H900, (1) 75-H903 & (1) 75-H910.

120V

- Blue Cable - Steel Braid - Black Jacket

Part #	Watts/ft	Power	Length	Weight
75-H612050	6	120V	50' Box	4.0 lbs.
75-H612100*	6	120V	100' Truck Pack	10.0 lbs.
75-H612250	6	120V	250' Reel	20.0 lbs.
75-H612500	6	120V	500' Reel	43.0 lbs.
75-H6121000	6	120V	1000' Reel	77.0 lbs.



240V

- Red Cable - Steel Braid - Black Jacket

Part #	Watts/ft	Power	Length	Weight
75-H622050	6	240V	50' Box	4.0 lbs.
75-H622100*	6	240V	100' Truck Pack	10.0 lbs.
75-H622250	6	240V	250' Reel	20.0 lbs.
75-H622500	6	240V	500' Reel	43.0 lbs.
75-H6221000	6	240V	1000' Reel	77.0 lbs.

* 100' Truck Packs include (2) 75-H900, (1) 75-H903 & (1) 75-H910.



Standard Packaging

- Winter Guard.
- Winter Guard Plus.
- Winter Guard Wet.



75-H611050
50' Box Illustrated



75-H611100
100' Truck Pack Illustrated



75-H611250
250' Reel Illustrated

Self Regulating (Pre-assembled) Heat Cable

Raychem

Gardian Pre-assembled Heating Cable Kits

- Perfect for residential or commercial small applications with short pipe runs up to 100', 2" diameter.
- Rugged copper braid provides abrasion and damage protection.
- 120V (30" power cord & plug) 240V (hardwired).



75-W51-6P
Illustrated



Gardian
Pre-assembled
Heating Cable

120V

Part #	Watts/ft	Volts	Length	Weight
75-W51-6P	5	120V	6' Kit	1.0 lbs.
75-W51-12P	5	120V	12' Kit	1.3 lbs.
75-W51-18P	5	120V	18' Kit	1.6 lbs.
75-W51-24P	5	120V	24' Kit	2.0 lbs.
75-W51-75P	5	120V	75' Kit	5.4 lbs.
75-W51-100P	5	120V	100' Kit	6.9 lbs.

240V

75-W52-6L	5	240V	6' Kit	1.0 lbs.
75-W52-12L	5	240V	12' Kit	1.3 lbs.
75-W52-18L	5	240V	18' Kit	1.6 lbs.
75-W52-24L	5	240V	24' Kit	2.0 lbs.



Accessories - Self Regulating Heat Cable

Raychem



75-FGK-P-RS
Termination Kit
Illustrated

Accessories

Part #	Description	Weight
75-H900	Power connection kit.	0.5 lbs.
75-H903	Fibreglass application tape & "Electric traced" labels.	0.3 lbs.
75-H908	Plug-in Power connection kit.	1.0 lbs.
75-H910	Splice & tee kit.	0.3 lbs.
75-FGK-P-RS	"Original" termination kit.	0.3 lbs.
75-H912	Gel-filled end seal kit (2 ea.)	0.3 lbs.
75-H913	Roof clips (10 ea.)	1.0 lbs.
75-H915	Downspout hanger bracket.	0.5 lbs.
75-AMC-F5	Fixed point thermostat 5°C (40°F).	1.5 lbs.
75-TC-3	2 receptacle thermo cube thermostatically controlled outlet (120V, 15 amp). - ON @ 2°C (35°F), OFF @ 7°C (45°F).	1.0 lbs.



General Purpose Pumps

The DiversiTech CP-16 condensate pump is an economical alternative that's based off of the proven CP-22 design. More compact than the CP-22, it's designed to lift to a maximum of 16 feet. The CP-16 shares many of the great features of the CP-22, including hang tabs, four inlet holes, float switch, overflow switch, and a check valve. UL Listed File Numbers E253155 and E258186.



Part #	Discription	Order Mult.
CP-16	Condensate Pump 16' Lift 120V	6
CP-16-230	Condensate Pump 16' Lift 230V	6



CP-22 Pumps

Suitable for use with condensate from HVAC equipment which produce condensate. 22' of lift compared to the typical 20'. Features include vibration dampening feet and motor mounts, metal hang tabs, four inlet holes, a clear indicator display, a float switch and check valve. Integrating the CP-22 into your system is easy. 1/4" quick connect terminals provide easy connection to the built in overflow switch. 2 terminals are provided allowing flexibility to connect air handler shut down. UL Listed File Numbers E253155 and E258186.



Part #	Discription	Order Mult.
CP-22	Condensate Pump - 120V	6
CP-22-230	Condensate Pump - 230V	6



FP-22 Furnace Pump

The FP-22 Furnace Pump is a full featured condensate pump designed for condensing furnaces and other hot water applications. It handles hot condensate water up to 190 degrees F. Other features include 22' lift, built-in P traps, steam resistant electronics, and a super tough tank. Available in 120 and 230V models.



Part #	Discription	Order Mult.
FP-22	Furnace Pump 120V 22' Lift 190°F Condensate	1
FP-22-230	Furnace Pump 130V 22' Lift 190°F Condensate	1



BP-46 Boiler Pump

The BP-46 Boiler Pump is a heavy duty, full featured condensate pump for hot water applications up to 212 degrees F. It features a 46' lift, oil resistant tank and impeller, two inlet holes and 1/4 turn check valve. Additional features include high impact construction, large tank and is available in 120 and 230V models.



Part #	Discription	Order Mult.
BP-46	High Temperature Boiler Pump 115V, 46' Lift 212°F Condensate	1
BP-46-230	High Temperature Boiler Pump 230V, 46' Lift 212°F Condensate	1



Head Pressure Controls

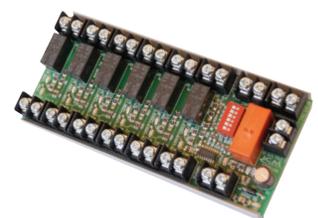
Dual ON/ OFF Delays Control Fan

Part #	Features & Applications	Specifications	Cross Reference
 <p>24-ICM325HNVC-LF 120-600VAC</p>	<ul style="list-style-type: none"> • Integral heat pump bypass circuitry allows electronic bypass of speed control. • Eliminates overshoots common to on/off and pressure switch controls. • Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions. • One model covers 120 to 480 VAC. • Features hard start (adj. 1 to 5 sec.), low speed cut-off (adj.), high temperature bypass, isolated 24 VAC supply. • Controls up to 3 refrigerant circuits. • Typical application: heat pumps. • 4.5" x 3" x 1.75". 	<p>Input</p> <ul style="list-style-type: none"> • Control: 18-30 VAC. • Frequency: 50/ 60 Hz. 1.8 VA max. • Line input: 120-600 VAC. <p>Output</p> <ul style="list-style-type: none"> • Max: 10 amps. • Min: 100 mA. 	<p>One ICM model replaces:</p> <p>Ranco</p> <ul style="list-style-type: none"> • E31 Series <p>Johnson Controls</p> <ul style="list-style-type: none"> • P66 <p>ACT</p> <ul style="list-style-type: none"> • FM2000 <p>Hoffman</p> <ul style="list-style-type: none"> • 800 • 800AA • 814-50 • 816-10
 <p>24-ICM326HN 120 or 208/ 240 VAC</p>	<ul style="list-style-type: none"> • Built-in transformer eliminates cost, reduces installation time and simplifies wiring. • Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions. • Features hard start, low temperature cut-off, high temperature bypass. • 4.5" x 3" x 2". • Typical application: ideal for heat pumps, line voltage air conditioning and refrigeration. 	<p>24-ICM326H</p> <ul style="list-style-type: none"> • Control: 120 or 208/ 240 VAC. <p>24-ICM327H</p> <ul style="list-style-type: none"> • Control: 480 VAC. • Frequency: 50/ 60 Hz. <p>Output current:</p> <ul style="list-style-type: none"> • Max: 10 amps. • Min: 100 mA. 	<p>Ranco</p> <ul style="list-style-type: none"> • E31 Series <p>Johnson Controls</p> <ul style="list-style-type: none"> • P66 <p>Hoffman</p> <ul style="list-style-type: none"> • 800 • 800AA • 814-50 • 816-10

Fan Coil Relay Controls



Part #	Features and Applications	Specifications
24-ICM6100	<p>Fan safety alarm circuit</p> <p>Outputs provided ensure that a DDC controller can determine the root cause of a shutdown</p> <p>Dip switch to bypass inputs not in use</p> <p>Ideal for Air Handling Unit safety shutdown</p> <p>2.75" mounting track provided</p>	<p>Input: 24VAC; 50-60Hz (4A max)</p> <p>Output: Relay outputs (6): 2A @ 24 VAC/DC per output</p> <p>Master Relay 24VAC (2): 1.5A @ 24 VAC per output</p> <p>Master Relay Dry Contacts: 10A @ 250 VAC</p> <p>Alarm Status: Green LED ON = Activated</p> <p>Red LED ON = Not activated</p> <p>REPLACES: Functional devices: RIBMNLB-6</p>
24-ICM6200	<p>Ability to operate line voltage 3 speed fan motor with low voltage controls</p> <p>Compatible with 4-pipe, 2 pipe, HP, auto-changeover</p> <p>20 VA 24 VAC power supply</p> <p>Suitable for 1/8 HP motors</p> <p>1/4" Quick connect terminals</p> <p>mounts with standard 3" track</p>	<p>Input: Transformer Primary: 115VAC; 50-60Hz</p> <p>Fan Inputs Hi, Med, Low: Nominal 17mA @ 24 VAC</p> <p>Heat & Cool: 1.5A @ 250 VAC</p> <p>Output: Transformer Secondary: 24 VAC; 20 VA</p> <p>Relay outputs H, M, L: 1/8 HP @ 115 VAC</p> <p>10A @ 240VAC resistive max</p> <p>Heat & Cool Valves: 1.5A @ 250 VAC</p> <p>REPLACES: Honeywell W6380B, BSR/Xactone FC/H2</p>
24-ICM6201	<p>Ability to operate line voltage 3 speed fan motor with low voltage controls</p> <p>Ability to operate line voltage electric heating element with low voltage controls</p> <p>Compatible with 4-pipe, 2 pipe, aquastat auto-changeover, and heat pump</p> <p>20 VA 24 VAC power supply</p> <p>Suitable for 1/8 HP motors</p> <p>Screw terminal receptacles</p> <p>mounts with standard 3" track</p>	<p>Input: Transformer Primary (L1 & L2): 115VAC; 50-60Hz</p> <p>Hi, Med, Low (8, 7, 6): Nominal 17mA @ 24 VAC</p> <p>Inputs 1, 2, 3, 4, 5, Auqa Heat & Cool: 1.5A @ 250 VAC</p> <p>Output: Transformer Secondary: 24 VAC; 20 VA</p> <p>Relay outputs H, M, L: 1/8 HP @ 115 VAC</p> <p>10A @ 240VAC resistive max</p> <p>HTR Output: 30A @ 240 VAC resistive</p> <p>Heat & Cool Valves: 1.5A @ 250 VAC</p> <p>REPLACES: Honeywell W6380B, BSR/Xactone FC/H1</p>



Post Purge Control

Continues to run the fan at the end of the heating/cooling cycle, thereby purging the ducts of residual air and increasing system efficiency.



24-ICM253

Part #	Features and Applications	Specifications	Replaces
24-ICM253	UL 873 recognition for compressor applications Post-purge fan delay timer Interrogation delay eliminates nuisance trips due to thermostat bounce/tampering	Voltage: 18-30VAC 1 Amp Max 40 mA Min. 10 Amp Inrush Adjustable time delay 12-390 seconds Dimensions: 2"x3"	Field Controls: 46144700 Gemline: 1C216 Mars: 32393

Dual On/Off Delays - Pre

Delay on make lets air reach proper level prior to turning the fan on.
Continues to run the fan at the end of the heating/cooling cycle, thereby purging the ducts of residual air and increasing system efficiency.



24-ICM251



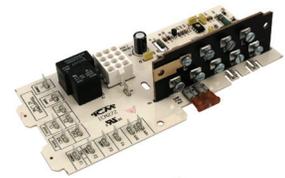
24-ICM254



24-ICM255

Part #	Features and Applications	Specifications	Replaces
24-ICM251	Drives fan directly High power, relay output Dual function fan relay timer	Voltage: 18-30VAC Output: N.O.: 20 Amps @ 240VAC N.C.: 10 amps @ 240VAC Time Delays Adjustable On - 1-180 seconds Off - 12-390 seconds Dimensions: 2"x3"	Mars: 32377, 32378, 32379
24-ICM254	Dual function fan timer Controls the circulating fan in heat pump, A/C and forced air systems	Voltage: 18-30VAC 1 Amp Max 40 mA Min. 10 Amp Inrush Time Delays Adjustable On - 1-180 seconds Off - 12-390 seconds Dimensions: 2"x3"	Honeywell: S876A1016 Watsco: PSTD-00-005W, PSTD-00-060W
24-ICM255	Low cost open board design High power, relay output Dual function fan delay timer	Voltage: 18-30VAC N.O.: 20 Amps @ 240VAC N.C.: 20 amps @ 240VAC Time Delays Fixed On - 1 second Off - 60 seconds Dimensions: 2.5"x2.5"	A-1: 5893 Bard: 8201-056 Mars: 32393 Rheem: 42-22515-01, 02, 03 Snyder General/ICP: 1395336

Part #	Features and Applications	Specifications	Replaces
24-ICM270	Dual function fan delay timer Controls the circulating fan in a heat pump, A/C and forced air systems OFF delay purges ducts of residual air ON delay allows air to reach the proper comfort level prior to energizing the fan	Voltage Range: 18-30 VAC Contact Ratings: Heat/cool speed N.O.: 20 amps @ 240 VAC N.C.: 10 amps @ 240 VAC Time Delays: Blower ON delay: 30 Seconds Blower OFF delay: 90, 120, 150, 180 seconds	Evcon: 2702-300 Rheem: 47-22827-01 47-22827-81/82/83 47-22828-01/02 Robertshaw: 695-003
24-ICM271	Reliable solid state fan blower Specifically designed to replace popular gas furnace centers Pin selectable blower delays High power, relay output Dual function fan delay timer Controls the circulating fan in heat pump, A/C and forced air systems OFF delay purges ducts for residual air ON delay allows air to reach the proper comfort level prior to energizing the fan	Voltage Range: 18-30 VAC Contact Ratings: N.O.: 20 amps N.C.: 10 amps Time Delays: Heat ON delay: 75 Seconds Heat OFF delay: 105 seconds Cool OFF delay: 90 seconds	Carrier: 302075-3 CES0110017 CES0110018 HH84AA010 HH84AA011 HH84AA012 HH84AA013/020 P771-7002 Robertshaw: 695-100
24-ICM272	Cooling control module with fan delay Integral low voltage terminal board with field thermostat wiring Electronic air cleaner output High power, relay output DC output for fan relays and 1st stage of electric heater control Interlock circuitry prevents 2nd and 3rd stage electric heat energization without proper fan operation	Voltage Range: 18-30 VAC Contact Ratings: N.O.: 20 amps N.C.: 10 amps Time Delays: Blower OFF delay: 60 seconds	Carrier: HK61GA001 HK61GA003 Texas Instruments: 2FD-1
24-ICM273	Solid state output Silent operation, "no clicking" Controls the circulating fan in heat pump A/C and forced air systems OFF delay purges ducts of residual air	Voltage Range: 18-30 VAC Output: 2 amps @ 240 VAC Time Delays: Blower OFF delay: 60 seconds	EMI: 240000-969
24-ICM274	Microprocessor-based fan blower control Built in humidity relay Manually adjustable post-purge off delay from 60-240 seconds Electronic air cleaner output	Voltage Range: 18-30 VAC Contact Ratings: Y out: 1.5 amps Fan: 2 amps Elec. Heat Relay: 30 amps @ 240 VAC Time Delays: Blower OFF delay: 60-240 seconds	EMI: 240-1764
24-ICM275	Heavy duty heat relay Purges ducts of residual air Integral short cycle protection	Voltage Range: 18-30 VAC Contact Ratings: High: 20 amps @ 240 VAC Low: 10 amps @ 240 VAC Time Delays: Heat ON delay: 60 Seconds Heat OFF delay: 60-240 seconds Cool OFF delay: 90 seconds	Carrier: HH84AA001, HH84AA003 HH84AA005, H84AA009 HH84AA014, H84AA015 HH84AA021 Robertshaw: 695-101
24-ICM276	Microprocessor based fan blower Inducer fan outputs Controls the circulator fan in gas/heat and A/C systems Off delay purges ducts of residual air	Voltage Range: 18-30 VAC Contact Ratings: Fan: 20 amps @ 240 VAC Inducer Fan: 2 amps Time Delays: Heat ON delay: 60 Seconds Heat OFF delay: 120, 150, 180 seconds Cool OFF delay: 90 seconds	Carrier: HK51GA003 Rheem: 47-23619-02 47-23619-03 Robertshaw: 457-23619-03 RS100-833-02
24-ICM277	Microprocessor based fan blower For circulating fan in heat pump, A/C and forced air systems	Voltage Range: 18-30 VAC Contact Ratings: Heat/cool speed N.O.: 20 amps N.C.: 10 amps Time Delays: Blower ON delay: 7 Seconds Blower OFF delay: 65 seconds	Goodman: B1370735S
24-ICM278	Controls blower motor and inducer Combines functionality of two boards into one Microprocessor-based precision Adjustable blower off delay Compatible with 24 VAC standard thermostat Max. Operating Humidity: 95%	Terminals: - 120/240 VAC: N1-N5, S1-S5, H, L, L1, D1 - 18-30 VAC: Y, G, W, C, R, W2, X, HL, PS1, PS2 Operating Temperature: 40°F to +176°F Time Delays: - Heat ON: 60 Seconds - Heat OFF: 60-200 Seconds - Cool OFF: 40 Seconds	Carrier: HH84AA017, HH84AA018



Part #	Features and Applications	Specifications	Replaces
24-ICM280	<p>Low cost, direct replacement board for Goodman, Janitrol, TI, White-Rodgers and UTEC</p> <p>Microprocessor based design for precise timing</p> <p>Functions with all 24 VAC thermostats For 80+ and 90+ applications UL recognized</p>	<p>Voltage Range: Line (98 to 132 VAC) @ 60Hz Cool Blower: 10A, 2 HP, 240 VAC Heat: 5A, 240 VAC</p> <p>Inducer Motor: 4A, FLA-8.0 LRA @ 120 VAC Gas Valve: 1.5A @ 30 VAC</p> <p>Heat Blower on Delay: 30 seconds Heat Blower Off Delays: 90, 120 and 150 sec Cool Blower on Delay: 5 seconds Cool Blower Off Delay: 60 seconds</p>	<p>Goodman: B1809906/08/10/13/13S UTEK:1012-933D Texas Instruments: 41F-5 White-Rodgers: 50T35-730/743</p>
24-ICM281	<p>Low cost, direct replacement board for Carrier CES011005700/01/02</p> <p>Controls gas valve, ignitor, blower motor, inducer, humidifier and air cleaner</p> <p>Microprocessor-based for precise timing</p> <p>Functions with all 24 VAC thermostats</p> <p>Designed for 100% gas shutoff in case of ignition failure</p> <p>Twinning compatible with another ICM281 board</p>	<p>Voltage Range: Line (98 to 132 VAC) @ 60Hz Cool Blower: 10A, 2 HP, 240 VAC Heat: 5A, 1/2 HP, 240 VAC</p> <p>Inducer Motor: 4A, FLA-8.0 LRA @ 120 VAC Gas Valve: 1.5A @ 30 VAC</p> <p>Heat Blower on Delay: 40 seconds Heat Blower Off Delays: 90, 135, 180, and 225 seconds Fan (Low) On/Off: 1-second Cool Blower on Delay: 5 seconds Cool Blower Off Delay: 90 seconds</p>	<p>Carrier: CES0110057-00/01/02</p>
24-ICM282A	<p>Low cost, direct replacement for Carrier HK42FZ004/007/008/009/011/013/016</p> <p>Controls gas valve, ignitor, blower motor, inducer, humidifier and air cleaner</p> <p>Microprocessor-based</p> <p>Designed for 100% gas shutoff in case of ignition failure</p> <p>Twinning compatible with another ICM282 board</p> <p>Diagnostic fault codes (blinking LED) to aid in troubleshooting</p>	<p>Voltage Range: Line (98 to 132 VAC) @ 60Hz Cool Blower: 10A, 2 HP, 240 VAC Heat: 5A, 1/2 HP, 240 VAC</p> <p>Inducer Motor: 4A, FLA-8.0 LRA @ 120 VAC Gas Valve: 1.5A @ 30 VAC</p> <p>Heat Blower On: 60 seconds Heat Blower Off: 90, 120, 150, and 180 sec Fan (Heat) On/Off: 1-second Cool On: 2 seconds</p> <p>Cool Off: 90 seconds with jumper JW2 uncut; 5 seconds with jumper JW2 cut</p>	<p>Carrier: HK-42FZ004/007/008/009/011/013/016</p>
24-ICM284	<p>Microprocessor based</p> <p>Controls vent motor, blower control, hot surface ignitor and gas valve</p> <p>Monitors timing, trial for ignition, flame sensing and lockout</p> <p>Diagnostic LEDs to aid in testing/troubleshooting</p>	<p>Line Voltage: 208 VAC @ 60 Hz Ignitor: 5A resistive @ 208 VAC Cool Blower: 30A, 2HP @ 240 VAC Heat Blower: 10A, .5HP @ 250 VAC Inducer Motor: 4A, 120 VAC Gas Valve: 4A @ 24 VAC Compressor: 5A resistive @ 24 VAC</p>	<p>York: SI-03101280000</p>
24-ICM286	<p>Controls the gas valve, inducer draft motor, circulating blower and hot surface ignitor</p> <p>Monitors system pressure and limit switches</p> <p>Microprocessor based precision</p> <p>Twinning compatible with another ICM286 Control Board</p> <p>Diagnostic LEDs aid in testing and troubleshooting</p>	<p>Voltage Range: Line (98-132 VAC) @ 60Hz Cool Blower: 30A, 2 HP, 240 VAC Heat: 20A, 240 VAC</p> <p>Inducer Motor: 4A FLA, 8A LRA @ 120 VAC Ignitor: 10A FLA @ 120 VAC Humidifier: 5 amps @ 120 VAC Electric Air Cleaner: 5 amps @ 120 VAC</p> <p>Trial for Ignition: 7 seconds Pre-purge Time: 15 seconds Ignitor Warm Up Time: 7 seconds Post-Purge Time: 15 seconds</p> <p>Total Trials for Ignition: 3 (auto rest after 1 hour) Heat Blower On: 30 seconds Heat Blower Off: Selectable 90/120/150/180 seconds Fan (Heat) On/Off Delay: 1 second Cool On: 5 seconds Cool Off: 45 seconds</p>	<p>Goodman: PCBBF112S, B18099-26S, 0130F00005S</p>
24-ICM287	<p>Microprocessor based</p> <p>Controls inducer and blower control</p> <p>Monitors timing and gas valve</p> <p>Diagnostic LEDs to aid in testing/troubleshooting</p>	<p>Line Voltage: 120 VAC @ 60 Hz Control Voltage: 24 VAC @ 60Hz Heat Blower: 10A @ 120 VAC Cool Blower: 30A @ 120 VAC Inducer Motor: 30A, 120 VAC</p>	<p>Goodman: B18099-04</p>
24-ICM288	<p>Microprocessor-based design</p> <p>Monitors pressure, roll-out and limit switches</p> <p>Controls gas valve, inducer draft motor, circulating blower and hot surface ignitor</p> <p>Reverse polarity detection</p> <p>Twinning compatible with other ICM288 control boards</p> <p>Diagnostic LEDs for testing/troubleshooting</p>	<p>Voltage Range: Line 98-132 VAC @ 60HZ Ignitor: 5A, 120 VAC Cool Blower: 10A, 2HP, 240 VAC Heat: 5A, 1/2 HP, 250 VAC Inducer Blower: 4A, 120 VAC Gas Valve: 1A, 24 VAC Humidifier Motor: 0.5A, 24 VAC Electronic Air Cleaner: 1A, 120 VAC</p>	<p>Rheem 62-24084-82</p>





Part #	Features and Applications	Specifications	Replaces
24-ICM289	<p>Low cost, direct replacement board for Lenox</p> <p>Controls inducer fan motor, blower fan and monitors limit switches.</p> <p>Microprocessor based design</p> <p>Functions with all 24 VAC thermostats</p>	<p>Voltage Range: Line (98 to 132 VAC) @ 60 Hz</p> <p>Cool Blower: 20A @ 120 VAC</p> <p>Heat Blower: 20A @ 120 VAC</p> <p>Inducer Motor: 5A @ 120 VAC</p> <p>Cool Blower On Delay: 1 second</p> <p>Cool Blower Off Delay: 1 second</p> <p>Heat Blower On Delay: 45 seconds</p> <p>Heat Blower Off Delay: 90, 150, 210, 270 seconds</p>	<p>Lennox: 45K98, 45K48, 68H08, 65K29, G20, G23, G26, 023, 0F23, OHR, BCC1, BCC2, BCC3</p>
24-ICM291	<p>Direct Spark Ignition (DSI) control board</p> <p>Microprocessor-based</p> <p>Controls combustion, blower and indoor motor; spark ignitor and the gas valve</p> <p>Monitors timing, trial for ignition and lockout</p> <p>100% lockout safety feature</p> <p>Compatible with LP or natural gas</p> <p>Status LED for fault codes to aid in troubleshooting</p>	<p>Control Voltage: 24 VAC (18-30 VAC), 60Hz</p> <p>Line Voltage: 208/230 VAC, 60Hz</p> <p>Power Consumption: 03A plus gas valve current @ 24 VAC</p> <p>Operating Temperature: -40°C(-40°F) to 75°C(176°F)</p> <p>Timing:</p> <ul style="list-style-type: none"> Pre-purge: 45 seconds Trial for Ignition: 5+2 seconds Retry Period: every 20 seconds for 15 minutes Lockout: manual reset Post-purge: 45 seconds <p>Inputs:</p> <ul style="list-style-type: none"> Power: RT and C Thermostat Interface: R, W and G Safety Switches: RS, LS and CS Combustion Motor Hall Effect Sensor Flame Sensing <p>Outputs:</p> <ul style="list-style-type: none"> Spark Gas Valve: GV Combustion Motor: BM Indoor Fan Motor: IFO <p>LED Indicators:</p> <ul style="list-style-type: none"> Red LED: Steady ON - Normal operation Flashing - Fault codes 	<p>Carrier: LH33WP003/3A</p>
24-ICM292	<p>Direct Spark Ignition (DSI) control board</p> <p>Microprocessor-based</p> <p>Controls Induced Draft and indoor blower motors; humidifier output, spark ignitor and gas valve</p> <p>Monitors timing, trial for ignition and lockout</p> <p>100% lockout safety feature</p> <p>Compatible with LP or natural gas</p> <p>Status LED for fault codes to aid in troubleshooting</p>	<p>Control Voltage: 24 VAC (18-30 VAC), 60Hz</p> <p>Line Voltage: 115/23 VAC, 60Hz</p> <p>Power Consumption: 03A plus gas valve current @ 24 VAC</p> <p>Operating Temperature: -40°C(-40°F) to 75°C(176°F)</p> <p>Timing:</p> <ul style="list-style-type: none"> Pre-purge: 20 seconds Trial for Ignition: 6.5 seconds Number of Trials: 4 (2+2, 3 minutes apart) Lockout: 1 Hour Post-purge: dip switch selectable 90, 120, 160, 180 seconds apart <p>Inputs:</p> <ul style="list-style-type: none"> Power: SEC and COM Thermostat Interface: R, W, Y and G Safety Switches: Limit and Vent Combustion Motor Hall Effect Sensor Flame Sensing <p>Outputs:</p> <ul style="list-style-type: none"> Spark Gas Valve: GV Induced Draft Motor Multi speed indoor blower motor Humidifier <p>LED Indicators:</p> <ul style="list-style-type: none"> PWR(green): Steady ON - power to the board OK(green): Steady ON - no fault Flashing - fault code Flame(yellow): Steady On - flame sensed, flashing two times -flame out of sequence 	<p>Rheem: 62-24140-04</p>
24-ICM2801	<p>Controls vent motor, blower control, hot surface ignitor and gas valve</p> <p>Monitors timing, trial for ignition, flame sensing and lockout</p> <p>Microprocessor-based</p> <p>Reverse polarity protection</p> <p>100% lockout safety feature Compatible with LP or natural gas</p> <p>Status LED for fault codes to aid in troubleshooting</p> <p>Twinning compatible with another ICM2801 control</p>	<p>Line Voltage: 98-132 VAC @ 60Hz</p> <p>Ignitor: 5A, 120 VAC</p> <p>Cool Blower: 10A, 2HP, 240 VAC</p> <p>Heat: 5A, .5 HP, 250 VAC</p> <p>Inducer Blower: 4A, 120 VAC</p> <p>Gas Valve: 1A, 24 VAC</p>	<p>York/Evcon: 7990-319</p>

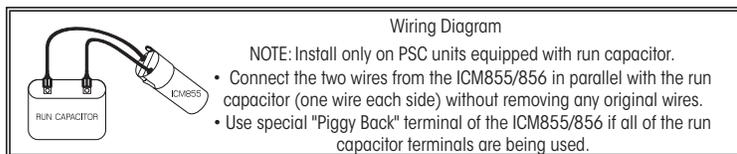


Part #	Features and Applications	Specifications	Replaces
24-ICM2804	<p>Low cost form, fit and functional replacement for Carrier: CES0110074-01 Microprocessor-based Controls vent motor and blower control Monitors limit switch, pressure switch and gas valve 100% lockout safety feature Compatible with LP or Natural Gas Status LED for fault codes to aid in troubleshooting</p>	<p>Electrical: - Line Voltage Range: 98-132 VAC @ 60Hz - Cool Blower: 20A, 2 HP, 240 VAC - Heat: 10A, 240 VAC - Inducer Motor: 4A FLA, 8A LRA @ 120 VAC</p> <p>Timing: - Inducer Pre-Purge Time: 1 second - Heat Blower On Delay: 45 seconds - Heat Blower Off Delays: 120 or 180 second - Cool Blower On Delay: 1 second - Cool Blower Off Delay: 1 second</p>	Carrier: CES0110074-00, CES0110074-01
24-ICM2805A	<p>Low cost form, fit and functional OEM replacement control board for Nordyne: 903106-Kit For use with G3, G4, G5, G6, M2 and M3 furnace modules Controls gas valve, inducer draft motor, circulating blower and hot surface ignitor Monitors timing, trial for ignition, flame sensing, lockout, plus pressure, rollout and limit switches Microprocessor-based precision Twinning compatible with another ICM2805A furnace control Diagnostic LEDs aid in testing and troubleshooting</p>	<p>Line Voltage Range: 120/240 VAC @ 60 Hz Ignitor: 5A, 120 VAC Cool Blower: 10A, 2HP, 240 VAC Heat: 5A, 1/2 HP, 250 VAC Inducer Blower: 4A, 120 VAC Gas Valve: 1A, 24 VAC Humidifier Motor: 0.5A, 24 VAC Electronic Air Cleaner: 1A, 120 VAC</p>	Nordyne: 903106-Kit
24-ICM2807	<p>Controls gas valve, ignitor, blower motor, inducer, humidifier and air cleaner Microprocessor-based precision Designed for 100% gas shutoff in case of ignition failure Twinning compatible with another ICM2807 control Reverse polarity protection Secondary brownout voltage protection Compatible with 24 VAC standard thermostat Continuous Blower Speed Jumper Limit Switch Lockout Time Limit Switch Lockout After Power Interruption Self-Diagnostics Provides diagnostic</p>	<p>Ambient Temperature - Operating: -40°F to 176°F - Humidity: 5% to 95% R.H. (non-condensing) @ +55°F</p> <p>Voltage Range: Line (98 to 132 VAC) @ 60Hz Ignitor: 5A @ 120 VAC Cool Blower: 10 HP, 120 VAC Low Heat: 5A, 1/2 HP, 120 VAC High Heat: 10A, 1 HP, 120 VAC Inducer Motor: 4A, FLA-8.0 LRA @ 120 VAC Gas Valve: 1.5A @ 30 VAC EAC: 1A@120 VAC Humidifier: 0.5A & 24 VAC</p>	Carrier: HK42FZ005, HK42FZ010, HK42FZ015, HK42FZ017
24-ICM2808	<p>The ICM2808 is a low cost fit, form and functional replacement for the York S1-331-03010000 and S1-331-02956000 furnace control boards. Controls gas valve, Ignitor, blower motor, Inducer, humidifier, and air cleaner. Microprocessor-based precision Designed for 100% gas shutoff in case of ignition failure Twinning compatible with another ICM2808 control Reverse polarity protection Secondary brownout voltage protection Compatible with 24 VAC standard thermostat Provides dual-color diagnostic LED to aid in troubleshooting</p>	<p>ELECTRICAL RATINGS Voltage Range: Line (98 to 132VAC) @ 60Hz Control Voltage Range: 18-30VAC @ 60Hz Relay Outputs: Meets or exceeds O.E.M. board</p> <p>TIMING Heat Blower On Delay: 30 seconds Heat Blower Off Delay: 90-180 seconds</p> <p>ENVIRONMENT Ambient Temperature: - Operating: -40°F to 176°F - Storage: -40°F to 185°F Humidity: 5% to 95% R.H. (non-condensing) @ +55°F</p>	York: S1-331-03010000, S1-331-02956000



Applications:

- Low voltage situations.
- Tight or hard starting compressors.
- Use on any single phase A/C & refrigeration unit.



Part #	Features & Applications		Specifications	X-Ref
24-ICM855	<ul style="list-style-type: none"> • PTC - Positive Temperature Coefficient technology. • For PSC units with existing run capacitor only! <ul style="list-style-type: none"> • OEM approved. • Quick recycling. 	<ul style="list-style-type: none"> • Self-adjusting to voltage fluctuations. • Easy to install, 2 wires (clips or screws). • Boosts starting torque. • Most economical. 	<ul style="list-style-type: none"> • Voltage: 115 to 288 VAC. • Range: 1/2 to 10 HP • Recommended 1.5HP 	A-1: WXS-5 MARS: 32701, 35701 Supco: SPP-5 Wagner/DiversiTech: DST-5
24-ICM856				
24-ICM857	For single-phase commercial and domestic capillary refrigeration systems and freezers	<ul style="list-style-type: none"> • Pre-wired for fast installation • Overload: 12A • 145-175 mfd 	<ul style="list-style-type: none"> • Voltage: 120 to 180VAC. • Range: 1/12HP to 1/5HP 	MARS: 32481 Supco: RCO810
24-ICM858	For single-phase commercial and domestic capillary refrigeration systems and freezers	<ul style="list-style-type: none"> • Pre-wired for fast installation • Overload: 22A • 243-292 mfd 	<ul style="list-style-type: none"> • Voltage: 120 to 180VAC. • Range: 1/4HP to 1/3HP 	MARS: 32741 Supco: RCO410
24-ICM859	For single-phase commercial and domestic capillary refrigeration systems and freezers	<ul style="list-style-type: none"> • Pre-wired for fast installation • Overload: 30A • 243-292 mfd 	<ul style="list-style-type: none"> • Voltage: 120 to 180VAC. • Range: 1/3HP to 1/2HP 	Supco: RCO210

Current Sensing Hard Start Kits

By monitoring the compressor "current" upon start-up, RapidStart® is able to engage the hard start capacitor for precisely the correct amount of time, ensuring maximum starting torque without the risk of supplying too much current into the start winding. A timed safety circuit is provided in the event the motor fails to start within 2 seconds. Current sensing hard start precisely increases starting torque.



Part #	Features & Applications		Specifications	X-Ref.	
24-ICM803	<ul style="list-style-type: none"> • Operates from 95 to 288 VAC. • Max input voltage: 502 VAC. • Patented current sensing circuitry. • Self-adjusting to voltage fluctuation. 	<ul style="list-style-type: none"> • Easy to install, 2 wires. • OEM approved. • Solid-state circuitry. • Boosts starting torque. • Disengages upon start. 	<ul style="list-style-type: none"> • Ideally suited for 1/2 thru 3 Hp. • 88 to 106 Mfd. capacitor. 	Supco	Kickstart
24-ICM805				<ul style="list-style-type: none"> • SPP-8 	<ul style="list-style-type: none"> • TO5 • TO-5
24-ICM810				<ul style="list-style-type: none"> • Ideally suited for 2 thru 5 Hp. • 145 to 175 Mfd. capacitor. 	Kickstart
			<ul style="list-style-type: none"> • Ideally suited for 3 1/2 thru 10 Hp. • 243 to 292 Mfd. capacitor. 	N/A	

Voltage Sensing Hard Start Kits

ICM's differential voltage sensing products employ patented circuitry which monitors differential compressor auxiliary voltage, determines the state of the motor and precisely engages and disengages the start capacitor. A timed safety circuit is provided in the event the motor fails to start within 2 seconds.



Part #	Features & Applications	Specifications		X-Ref.
24-ICM850	<ul style="list-style-type: none"> • Increases starting torque up to 500%. • Ensures precise starts. • Reduces inventory. • Not affected by ambient temperature. • Recycles instantly (less than one sec.). • Multi-voltage operation... either 115 or 240 VAC motors. • Fuse protection. • Not effected by voltage or current fluctuations. 	<ul style="list-style-type: none"> • Voltage: 90 to 277 VAC. • Max input voltage: 390 VAC. • Recommended range: Up to 1 1/2 Hp applications. 	<ul style="list-style-type: none"> • Oper. Temp. Range: -40°C to +65°C 43 to 52 Mfd 330 V Capacitor. 	<ul style="list-style-type: none"> • Supco: SPP-5 • Mars: 32701 • A-1: WXS-5
24-ICM860		<ul style="list-style-type: none"> • Voltage: 90 to 277 VAC. • Max input voltage: 390 VAC. • Recommended range: 2 to 5 Hp. 	<ul style="list-style-type: none"> • Oper. Temp. Range: -40°C to +65°C 88 to 106 Mfd 330 V Capacitor. 	<ul style="list-style-type: none"> • Supco: SPP-6 • Mars: 32702 • A-1: WXS-6
24-ICM866U		<ul style="list-style-type: none"> • Multi-voltage operation – 115 or 230 VAC motors • 145-175 µF @ 330V 	<ul style="list-style-type: none"> • Recommended Range: 1/12 to 5HP application • UL Recognized 	Supco: SPP5, SPP6, SPP5E, SPP6E, SPP7E, SPP8E, SPP9E, SPP10E Kickstart: KS1, TO-5, KS8 5-2-1: CSR-U1, CSR-U2, CSR-U3 Watsco: WSX1 MARS: 32708, SS1, SS5, 32703, 32704, 32701, 32702 Diversitech: DST-5, DST-6

Gas Ignition & Oil Primary Controls

Gas Ignition Controls



a **DIVERSiTECH** company

Part #	Features and Applications	Specifications	Replaces
24-ICM283	<p>Hot Surface Ignition (HSI) Module</p> <p>Single/Dual rod sensing capabilities</p> <p>For gas fired furnaces, boilers and other heating appliances</p> <p>Switch selectable lockout times</p> <p>Works with both Natural & LP gas systems</p> <p>Diagnostic LED to aid in troubleshooting</p>	<p>Input Voltage: 120 & 24 VAC, 60Hz</p> <p>- HSI: 120V, 5A max</p> <p>- Valve: 24V, 2A max</p> <p>- Total: 24V Load = 0.4 + valve load</p> <p>Pre-purge time: 32 seconds</p> <p>Trial time: 4 or 7 seconds (switch selectable)</p> <p>Ignition trials to lockout: 1 or 3 (switch selectable)</p> <p>Flame sense: single rod or dual rod</p> <p>Gas type: Natural or LP</p>	<p>Honeywell: S8910U-1000</p> <p>Robertshaw: H5780</p> <p>White Rodgers: 50E47, 50F47</p>
24-ICM290	<p>Universal intermittent pilot gas ignition control</p> <p>Provides ignition sequence, flame monitoring and safety shutoff for single/dual rod intermittent pilot control applications</p> <p>Switch selectable pre-purge and ignition trial times with permanent lock</p> <p>Works with or without vent damper connected</p>	<p>Control Voltage: Line 24V (18-30VAC) 50/60Hz</p> <p>Anticipator setting: 0.1A + valve load @ 24VAC</p> <p>Trial for ignition: 15 or 90 seconds (switch selectable)</p> <p>LEDs: - Green status LED provides system status and error codes</p> <p>- Yellow flame LED indicates flame presence and flame strength</p> <p>Operating temperatures: min. ambient temp. rating of -40°F (-40°C) and max. of 176°F (75°C)</p> <p>Relative humidity: 0% to 95% non condensing</p>	<p>Honeywell: S8610U (and compatible Camstat, Fenwal, HSC, Penn-Johnson, Robertshaw and White Rodgers models)</p>



24-ICM283



24-ICM290

Oil Primary Control



Features

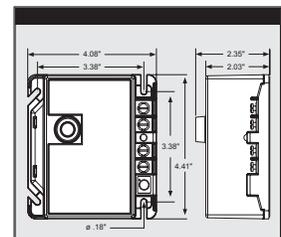
- Controls oil burner, oil valve (if desired) and the ignition transformer in response to a call for heat .
- Solid state flame sensing circuit .
 - LED on terminal strip indicates system lockout.
 - Enclosed safety switch with external reset button.
 - Mounts on standard 4" x 4" junction box; select models may be mounted directly on burner housing.
 - 69-45610 Cadmium Sulfide Flame Detector and 24 VAC thermostat required.
 - Direct replacement for popular competitive models.

Specifications

- Ignition Type: Intermittent
- Timing, Safety Switch: 15, 30 or 45 seconds
- Mounting Bracket: For mounting on a standard 4" x 4" junction box or direct mounting on burner housing.
- Electrical Rating; Contacts (full load):
7.4 A @ 120 VAC; 3.7 A @ 240 VAC
- Electrical Rating; Contacts (locked rotor):
44.4 A @ 120 VAC; 22.2 A @ 240 VAC
- Dimensions:
- 4 3/8 in. high x 4 1/8 in. wide x 2 1/2 in. deep
 - 111 mm high x 104 mm wide x 64 mm deep
- Temperature Range: -30°F to +130°F
- Approvals - Underwriters Laboratories Inc

Oil Primary Control - Intermittent Ignition

Part #	Safety Timing	Replaces
24-ICM1501	15 Sec	Honeywell: R8184G4066, R8184G1161, R8184G1294
24-ICM1502	30 Sec	Honeywell: R8184G4074, R8184G1179, R8184G1302, R8184G4033
24-ICM1503	45 Sec	Carlin: 48245 - Tempstar/Heil: 1147017 - White Rodgers: 668-401 Honeywell: R8184G4009, R8184G1138, R8184G1427, R8184G4025



Wolverine® Universal Hot Surface Igniter

Wolverine® hot surface igniters feature protective, dynamic, and informative packaging. Wolverine® hot surface igniters are 100% tested and completely reliable. They are compatible with all OEM furnaces. Universal hot surface igniters allow a contractor to reduce truck stock and replace hundreds of OEM igniters with just one SKU.

Part #	Description	Order Mult
IGN-2	Wolverine Hot Surface Igniter by TrueStart, Universal, Silicon Nitride	6
IGN-2-6P	Wolverine Hot Surface Igniter by TrueStart, Universal, Silicon Nitride - Contractor Pack, pack of 6	1



TrueStart™ Hot Surface Igniters

TrueStart® hot surface igniters feature protective, dynamic, and informative packaging. TrueStart® hot surface igniters are 100% tested and completely reliable. They are compatible with all OEM furnaces. TrueStart® hot surface igniters are available as direct replacement for OEM (silicon carbide) or as a universal igniter (silicone carbide or silicon nitride). Universal hot surface igniters allow a contractor to reduce truck stock and replace hundreds of OEM igniters with just one SKU.

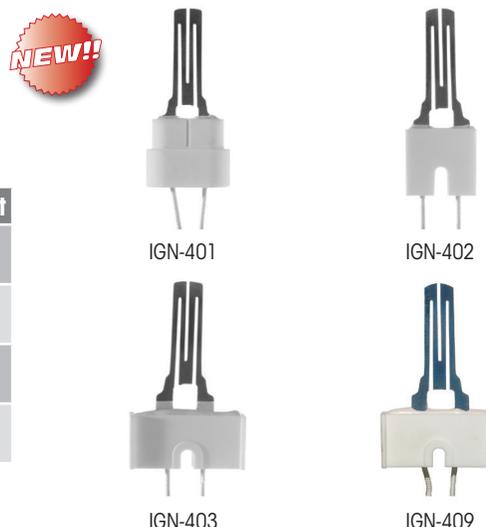
Part #	Description	Order Mult
IGN-1R	TrueStart Hot Surface Igniter, Universal, Round, Silicon Nitride	6



Direct Replacement Igniters

TrueStart® hot surface igniters feature protective, dynamic, and informative packaging. TrueStart™ hot surface igniters are 100% tested and completely reliable. They are compatible with all OEM furnaces. TrueStart® hot surface igniters are available as direct replacement for OEM silicon carbide igniters.

Part #	Description	Order Mult
IGN-401	TrueStart Hot Surface Igniter, Direct Replacement, Silicon Carbide	6
IGN-402	TrueStart Hot Surface Igniter, Direct Replacement, Silicon Carbide	6
IGN-403	TrueStart Hot Surface Igniter, Direct Replacement, Silicon Carbide	6
IGN-409	TrueStart Hot Surface Igniter, Direct Replacement, Silicon Carbide	6



Universal Silicon Carbide Igniters

TrueStart® hot surface igniters feature protective, dynamic, and informative packaging. TrueStart™ hot surface igniters are 100% tested and completely reliable. They are compatible with all OEM furnaces. TrueStart® hot surface igniters are available as a universal silicon carbide igniter.

Part #	Description	Order Mult
IGN-001	TrueStart Hot Surface Igniter, Universal, Silicon Carbide	6



TrueStart FC-74® Pilot Burners

TrueStart® pilot burners are a direct replacement for Carrier/BDP pilot burners. Available in 2 wire and 3 wire versions. The 3 wire is also field convertible to a 2 wire. TrueStart® pilot burners are not manufactured by Carrier Corporation.

NEW!!



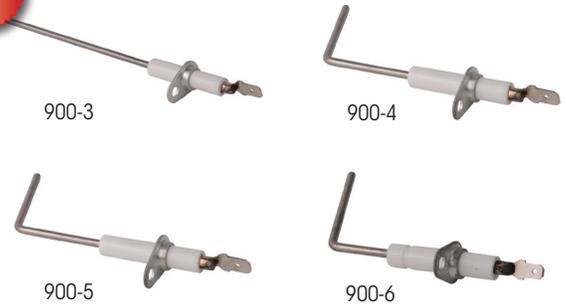
FC-74

Part #	Description	Order Mult
FC-73	2 Wire Pilot - Replacement for the Carrier 732. 2 wire pilot burner commonly known as Carrier/BDP part number LH33JZ053	1
FC-74	3 Wire Pilot - Replacement for the Carrier 740A. 3 wire pilot burner commonly known as Carrier/BDP part number LH680005	1

TrueStart™ Hot Surface Igniters

TrueStart® flame sensors are a direct replacement for Carrier/BDP flame sensors, cross reference part numbers are detailed in the item descriptions. TrueStart® flame sensors are not manufactured by Carrier Corporation.

NEW!!



Part #	Description	Order Mult
900-3	TrueStart FLAME SENSOR replaces Carrier LH33WZ516	1
900-4	TrueStart FLAME SENSOR replaces Carrier LH33WZ517	1
900-5	TrueStart FLAME SENSOR replaces Carrier LH33WZ518	1
900-6	TrueStart FLAME SENSOR replaces Carrier LH33WZ520	1

TrueStart® Spark Electrode

Replacement pilots and accessories for selected Carrier/BDP units. Full 2 year warranty. Made in America.

NEW!!



FC-87

Part #	Description	Order Mult
FC-87	Spark Electrode -Replacement for the Carrier/BDP 871 Spark Electrode commonly known as Carrier/BDP part number LH680512	1

High Heat Spray Paint

High Heat Spray Paint

An ultra high temperature coating formulated to resist temperatures up to 1300°F. Great for use on boilers, furnaces, steam pipes, chimney collars, compressors and engine manifolds. Product meets most recent VOC legislation and is currently compliant.

NEW!!



Part #	Description	Order Mult
799-040	High Heat Spray Paint - Aluminum - 12 oz.	6
799-041	High Heat Spray Paint - Black - 12 oz.	6

Features:

- Fast easy installation - less than 30 min.
- Low conductivity - high efficiency.
- High sound absorption.
- Lightweight: 5% of conventional firebrick.
- High heat resistance (up to 2300°F).
- Superior to steel brick or castable chambers.
- Individually sealed & packaged.
- Comes with instructions.
- Wall thickness 1/2" nominal.

Wet Paks

- Seamless design complete with a bottom.
- Pliable yet self supporting in a vertical position.



Wet Pak Sheets

Part #	G.P.H	Inside Diameter	Dimensions	Weight
63-1WETPAK	1.25	Flat Sheet Sizes	14" x 48" x 0.5"	9.0 lbs.
63-2WETPAK	2.50		1 pc. 14" x 48" x 0.5" & 1 pc. 16" x 16" x 0.5"	10.0 lbs.



Wet Pak Sheet

Preshaped Wet Pak

Preshaped Wet Paks

Part #	G.P.H	Inside Diameter	Outside Diameter	Height	Weight
63-09WETPAK	0.50 to 0.75	8"	9"	15.5"	4.0 lbs.
63-12WETPAK	1.25 to 1.50	11"	12"	15.5"	6.5 lbs.
63-13WETPAK	1.50 to 2.00	12"	13"	15.5"	7.0 lbs.
63-14WETPAK	2.00 to 2.50	13"	14"	15.5"	7.5 lbs.
63-16WETPAK	2.50 to 2.75	15"	16"	15.5"	8.5 lbs.



Pre Dried

- Formed to a uniform thickness & density while maintaining a hardness which has exceptional handling strength.
- Easy to cut means more versatility in nozzle opening placement.

Pre Dried

Part #	G.P.H.	Inside Diameter	Outside Diameter	Height	Weight
63-D09	0.50 to 0.75	8"	8"	12.25"	2.25 lbs.
63-DP09	0.65 to 0.85	9"	10.5"	15"	5.0 lbs.
63-DP11	1.00 to 1.25	11"	12.5"	15"	6.5 lbs.
63-D13	1.50 to 2.00	12"	13"	14"	4.25 lbs.
63-D14	2.00 to 2.50	13"	14"	16"	5.0 lbs.
63-DP13	1.35 to 1.75	13"	14.5"	15"	8.25 lbs.
63-DP20	2.25 to 3.00	12" x 19.5"	14.5" x 22"	16"	17 lbs.

OEM Replacements

63-D20	Grimsby 97 - 77	10.5" x 10.5"	11.5" x 11.5"	12"	3 lbs.
63-D21	Grimsby 117 - 77	10.5" x 10.5"	11.5" x 11.5"	12"	3 lbs.
63-D24	Grimsby W - 196	9.125" x 9"	10.125" x 10"	10.25"	3 lbs.



63-DP9, DP11, DP13 & DP15 Models

63-DP16 & DP20 Models



Part #	Description
AS-NS2-0000-03	Air Switch

The NS2 Switch has a glass-filled polycarbonate housing containing a sensing diaphragm and an integral snap-acting switch with three male 90° quick-connect terminals. The switch can be actuated by a pressure or vacuum air flow or the differential between two air flows. The field adjustable set point range of this switch is 0.10"w.c. to 10.0"w.c. Using the switch accessories contained in this kit, the NS2 switch can be applied to a wide variety of residential and light commercial HVAC applications.

Kit Includes:

- (1) FIELD ADJUSTABLE NS2-0000-00 SWITCH
- (1) BLACK SET POINT ADJUSTMENT SCREW
- (1) HEXAGON KEY WRENCH
- (5) COLOUR-CODED SPRINGS
- (4) COLOUR-CODED ORIFICES
- (1) HALF STRAP MOUNTING BRACKET
- (1) ANGLE BRACKET
- (1) MOUNTING SCREW FOR OPTIONAL BRACKETS
- (2) #6-3/8 MOUNTING SCREW FOR OPTIONAL BRACKETS

Operating Range - .10"w.c. to 10"w.c.
 Max Pressure Rating - 14"w.c.
 Mounting - vertical or custom angle
 Operating Temp. - -40°C to 88°C
 Sample Line Connections - Black positive, Gray negative
 Sample Medium - Air and by-products of combustion that will not degrade silicone or polycarbonate
 Product Life - 100,000 Cycles

Universal Humidifier Solenoid



Part #	Description
71-UHS24	Universal Humidifier Solenoid

Introducing the first universal solenoid replacement. This one unit will replace over 32 different direct OEM solenoids in the field. Just wrench in the appropriate fittings on the inlet and outlet, and even change water flow from left to right or right to left. Replaces many Aprilaire, General, Honeywell, Skuttle, and many other models for a fraction of the cost.

Kit Includes:

- SOLENOID
- 1/4" COMPRESSION x 1/8" MPT WITH FILTER SCREEN
- 3/16" BARB x 1/8" MPT
- 1/8" MPT x 1/4" COMPRESSION
- 1/8" MPT x 5/16" COMPRESSION
- 1/4" INSERT (FOR PLASTIC TUBE)
- 1/4" DELRIN SLEEVE (FOR PLASTIC TUBE)

Cross Reference

- Aprilaire - #4040
- General - #990-53
- Honeywell - #32001639-002
- Skuttle - #A01-0814-148

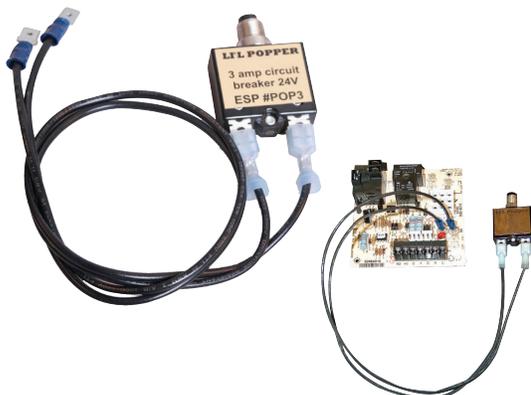
Easy Leveler



Part #	Description
79-EL10	Adjustable furnace legs

Revolutionary furnace leveling system created for the perfectionist. Four sturdy bolt-adjusted leg extensions supplied with mounting materials. Simply turn the lag bolted insert clockwise or counter clockwise to raise or lower each corner of the furnace

LI'L Popper



LI'L Popper control circuit breaker saves the technician dozens of blown fuses while he diagnoses control circuit failures. Simply plug the leads in to the ATC fuse receptacle on the board, and manually reset the LI'L Popper each time the breaker blows. Has a quick setting thermal cut out. Self adhering backing allows the contractor to leave the unit on the job site overnight if he is out of fuses. Free counter display by request. Alligator clip versions are available.

Control Board Circuit Breaker

Part #	Description
12-POP3	3 Amp control board circuit breaker
12-POP5	5 Amp control board circuit breaker

Furnace Mounting Blocks

Each furnace mounting block can support 40% more weight than competitive products – over 500 pounds! Easy peel and stick installation

Part #	Description	Order Mult
FB-1	Furnace Mounting Blocks	72

NEW!!



FB-1

Boiler Bracket

Our boiler bracket works well with all wall hung boilers and tankless hot water heaters available.

Part #	Description	Order Mult
QSBB1000	Boiler Bracket Wall Hung	1
QSBB2000	Boiler Bracket Leg Kit	1

NEW!!



QSBB1000



QSBB2000



QUICK SWIVEL FLUSH MOUNT W/ "H" BRACKET

Our Quick Swivel is made of 14-gauge steel able to hold 200 lbs. The swivel allows for 360° rotation for setting the perfect direction of air flow.

Part #	Description	Order Mult
QSWI3000	Swivel Flush H Bracket	1
QSWI3001	Swivel Flush H Bracket 36" Spd	1
QSWI3002	Swivel Flush H Bracket 17" Spd	1

NEW!!



QSWI3000

QUICK SWIVEL FLUSH MOUNT W/"I" BRACKET

Our Quick Swivel is made of 14-gauge steel able to hold 200 lbs. The swivel allows for 360° rotation for setting the perfect direction of air flow.

Part #	Description	Order Mult
QSWI4000	Swivel Flush w/Bracket	1
QSWI5000	Swivel Flush Heavy Duty	1
QSWI6000	Swivel Flush w/2 "I" Brackets	1

NEW!!



QSWI4000



Rubberized Cork Insulation Tape



Wraptite Rubberized Cork Insulation Tape

Formulated to provide insulation and to prevent condensation on hot or cool pipes, fittings and tubing used in heating, air conditioning, refrigeration and plumbing applications. Cork Insulation Tape adheres well to most clean, dry surfaces and to itself, making it possible to apply more than one layer without adding fasteners or adhesives.

It is sufficiently soft and pliable enabling it to be molded around most fittings or connections. The material retains its flexibility and adhesion after prolonged exposure to UV and over a service temperature range of -29°C to 88°C (-20°F to 190°F). Cork Insulation Tape is black in colour and has a grainy, rubber-like consistency which is non-toxic and non-asbestos.

Cork Tape

Part #	Description
84-PT-30	1/8" x 2" x 30' Roll

Foam Insulation Tape



Wraptite Foam Insulation Tape

Foam Insulation Tape is designed to seal, insulate and isolate vibration in air conditioning and refrigeration applications. The soft, flexible, closed cell sponge tape with paper covered self-adhesive backing seals out air and moisture while reducing heat loss or transfer. Cold water pipes, valves, chilled water and refrigeration lines can be wrapped to prevent sweating or condensation while hot water pipes and pipe heaters can be wrapped to insulate against heat loss.

Easily applied by hand, Wraptite Foam Insulation Tape adheres well to most clean, dry surfaces and to itself, making it possible to apply more than one layer. The formulated operating temperature of Wraptite Foam Insulation Tape is between -34°C to 82°C (-30°F to 180°F) with the ability to intermittently tolerate temperature of 98°C (210°F).

Foam Tape

Part #	Description
84-FT-30	1/8" x 2" x 30' Roll

Slugs & Cords



Wraptite Slugs & Cords

Sealing slugs & cord are soft, permanently pliable, water-resistant sealants having a wide variety of applications. The product has the unique quality of retaining the same consistency throughout its application range of -7°C to 60°C (20°F to 140°F). Non-asbestos and non-hardening, remains flexible to -7°C (20°F).

Sealing slugs & cords are used widely in the air conditioning and refrigeration industries to seal around outer cases, behind hinges and under breaker strips. They can be used to seal out air or moisture around utility panels, cables, ducts, window frames and metal joints. This product adheres to metal, wood, glass, plastic and most clean surfaces to provide an effective barrier against water, moisture, dirt and dust. It is non-staining, non-bleeding, odorless and can be painted.

Slugs & Cords

Part #	Description
84-PC-30	3/8" x 25' Cord
84-PS-30	2 lb. Slug
84-PS30-B	50 lb. Bulk Slug



Solder Paste Flux

Solder Paste Flux

Clean fit solder paste flux is used in all industries and is a non-aggressive formula used to sweat copper and brass fittings. Not for electronic use unless so stated. The all purpose formula stays stiff in hot weather and stays soft and sticky, even in cold weather.

Solder Paste Flux

Part #	Description
61-70705	1 lb. tub.
61-71030	2 oz. (carded)
61-71031	Solder paste flux kit: includes 2 oz. flux, abrasive cloth, acid brush.



61-71030
Illustrated

MILL-ROSE



Solder Paste Flux

Cool Gel Spray

Heat dissipating spray helps prevent heat damage to components and surrounding materials during soldering, brazing, and welding. It protects painted and finished surfaces from discoloration due to adjacent torch operations. This product also reduces the danger of fire to surrounding surfaces such as studs, drywall, and insulation. The unique non-staining gelled formula sticks to surfaces without dripping or running off and leaves no residue. Safe, nontoxic, and odorless spray liberally on adjacent surfaces needing protection. The spray pattern is adjustable from stream to mist. One quart spray bottles sold in cases of 12.



Part #	Description
15-11509	Cool Gel Spray 12/cs

Bloc-It Paste

Heavy paste effectively absorbs surface heat and protects adjoining surfaces that may be damaged by excessive heat. Typically used to protect rubber, plastic, distortion, painted and finished surfaces during soldering, brazing or welding. Safe to use, Bloc-It is nontoxic, harmless to skin, odorless, and does not contain asbestos. Wipe off with cloth or wash with water, Bloc-It will not leave stains. 10 oz. tubes sold in cases of 24.



Part #	Description
15-11511	Bloc-It Heat Absorbing Paste - 10oz 12/cs

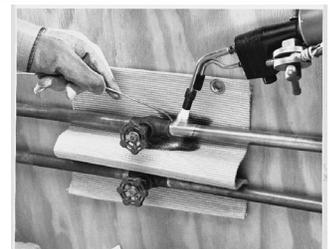
Heat Shields

Torch-Guard Solder Heat Shield

Torch-Guard's high strength (asbestos free) silica-based woven fibre stands up to and blocks intense heat to ensure flame resistance and liability protection. Flexible and easy to work with, Torch Guard provides heat resistance up to 2000°F or 1500°F continuous use. Soak Torch Guard in water and it may be used for higher temperatures particularly when folded over.

- Applications
- Shield studs, walls, floors and other surfaces from flames, sparks or molten splash during soldering and brazing installations.

Heat Resistant to 2000°F & Flexible



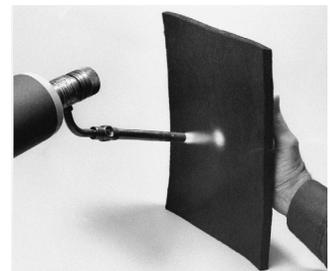
The Insurance Pad™

The Insurance Pad is the ultimate heat shield. Use wet or dry where ever higher temperature protection is required, up to 2500°F. The Insurance Pad is a fibrous felt heat shield with the safest specs in the industry. Repeated use of the product actually increases its heat resistance.

Part #	Description
61-71036	6" x 9"
61-71038	9" x 12"

- Applications
- Ideal for use with propane, MAPP gas, acetylene/ air and higher temperature torches.

Heat Resistant to 2500°F



Shop Rags & Silicone

Service & Shop Wipers

Reclaimed rags are sold by net weight for maximum value. Buttons and zippers have been removed. Service & shop wipers use a highly specialized packaging system, which compresses wiping rags into small, compact, clear plastic packages. These packages hold numerous benefits over corrugated boxes.

Heavy Duty Service & Shop Rags

Coloured rags equivalent to soft, thick, fleece like sweatshirt material.

Part #	Description	Weight
13-546-5	5 lbs. service size pack.	5 (lbs.)
13-546-10	10 lbs. service size pack.	4.5 kg (10 lbs)
13-546-25	25 lbs. shop size pack.	11.3 kg (25 lbs)

Medium Duty Service & Shop Rags

Coloured rags, similar to balbriggan or Polo cotton T-shirt material.

Part #	Description	Weight
13-536-10	10 lbs. service size pack.	4.5 kg (10 lbs)
13-536-25	25 lbs. shop size pack.	11.3 kg (25 lbs)

Light/ Medium Duty Service & Shop Rags

Lightly coloured, near white cotton blend rags, similar to dress shirts or linen sheet material.

Part #	Description	Weight
13-538-10	10 lbs. service size pack.	4.5 kg (10 lbs)
13-538-25	25 lbs. shop size pack.	11.3 kg (25 lbs)

Heavy Duty

Soft, general purpose wiping cloths are an ideal medium weight rag for absorbing or cleaning liquids, oils and grease. Perfect for auto shops and HVAC/R contractors.

Medium Duty

Low cost, no lint, light weight general purpose shop rags. A good general purpose, medium quality wiper at a relatively low cost.

Light/Medium Duty

Low cost, no lint, light weight general purpose shop rags. A good general purpose wiper at a relatively low cost.

Package Features

- Compact: 50% space savings.
- Save money on storage.
- Save money on transport.
- Waterproof.
- Stackable.
- Hassle-free dispensing design.



Silicone

Features :

- NSF Approved • 100% Silicone • 100% RTV



302 (GP) General Purpose Available in multiple colours The ideal multiple purpose silicone sealant for all weather applications



302 (HT) High Temperature Withstands temperatures of 260°C(500°F) constant and 316°C(600°F) intermittent An ideal silicone for extreme temperature applications

Part #	Colour	Size (ml/oz)	Cs. Qty
83-30281	White	83/2.8(squeeze tube)	24
83-30280	Clear	83/2.8(squeeze tube)	24
83-30283	Black	83/2.8(squeeze tube)	24
83-30201	White	300/10.15	12
83-30200	Clear	300/10.15	12
83-30202	Aluminium	300/10.15	12
83-30203	Black	300/10.15	12
83-30205	Almond	300/10.15	12

Part #	Colour	Size (ml/oz)	Cs. Qty
83-30289	Red- HT	83/2.8 (Squeeze Tube)	24
83-30293	Black-HT	83/2.8 (Squeeze Tube)	24
83-30209	Red-HT	300/10.15	12
83-30213	Black-HT	300/10.15	12

Caulking Guns

113 Series

Economy grade
310ml/10.15oz
Clean out tool on barrel



15-CG000113

138 Series

Professional grade
310ml/10.15oz
Clean out tool on handle



15-CG000138

Spray Nine - Premium Multi-Purpose Cleaner/ Degreaser/ Disinfectant

Spray Nine - The First & Still The Best!

Spray Nine cleans hard surfaces such as stainless steel, plastic, tile, rubber, vinyl, fiberglass, porcelain and formica with "spray on, wipe off" ease.

Digs Out Tough Soils Fast!

Enriched with a powerful germicidal, Spray Nine can be used to disinfect and deodorize hospitals, nursing homes, schools, and other institutions where housekeeping is of prime importance. Also controls mold and mildew while destroying bacterial odors.

30 second disinfecting time*!

When used as directed, Spray Nine will disinfect hard non-porous surfaces such as walls, floors, tables, chairs and countertops. Spray Nine kills many bacteria and destroys powerful odors. Used as a hospital grade disinfectant, Spray Nine has been registered by Health and Welfare Canada to kill HIV-1 virus (associated with AIDS), Salmonella, Staphylococci, and Pseudomonas on inanimate surfaces in just 30 seconds. Used regularly, Spray Nine greatly reduces the risk of cross infection.

* Most disinfectant products require a 10 minute contact time to kill germs.



Spray Nine

Part #	Description	Package
15-C26822	650 ml pump bottle	12/ctn
15-26832	946 ml spray bottle	12/ctn
15-26804	4 L jug	4/ctn

Degreasers / Multi Purpose

Spray Nine - Industrial Multi-Purpose Cleaner/ Degreaser Spray Nine Industrial - The In-process Cleaning & Degreasing Solution!

No other product removes really tough industrial soils as quickly and effectively from manufacturing equipment, engines and machinery to countertops, floors and even washrooms as Spray Nine Industrial. The ready to use formula saves time, labour and money by effectively serving as a all in one cleaner.

Spray Nine - Industrial

Part #	Description	Package
15-13532	946 ml spray bottle	12/ctn



15-13532
Illustrated

Penetrating Oil & Lubricants

Break • Away Fast Penetrating Oil

Break•Away is a pure oil-based product that penetrates faster and lubricates longer. It leaves a thicker, longer lasting film vs. light duty solvent-based water displacement formulas. Brake•Away is famous for completing the cycle of lubrication and reducing the coefficient of friction on hot or cold moving parts. Whether it be freeing frozen parts, lubricating moving components or protecting tools and equipment from rust or corrosion, Brake•Away's fast penetrating oil is your anywhere, anytime solution. Contains no ozone depleting CFC's. (pin point applicator straw included).

Part #	Description	Package
15-C10	369g aerosol can style	12/ctn

15-C10
Illustrated



Silicone Spray Synthetic Polymer Lube - The Heavy Duty, Industrial Grade Lubricant!

Silicone Spray's industrial grade formula is an extra heavy-duty concentrate of high quality silicone for maximum performance. Silicone Spray lubricates mechanical parts, conditions rubber, waterproofs and protects against rust or corrosion. Silicone is a stain-free synthetic polymer lubricant that virtually dries to the touch. It reduces friction and lubricates without petroleum oil or grease. Contains no ozone depleting CFC's. (pin point applicator straw included).

Part #	Description	Package
15-C33	450 ml aerosol can style	12/ctn

15-C33
Illustrated



White Grease Heavy Duty Lithium Plus Teflon®

White Grease is a uniquely blended grease that sprays on as a liquid, penetrates and then sets up as a lubricating grease to reduce wear, stop squeaks and repel moisture. Once set-up White Grease remains soft and pliable without drying out. Excellent for applications with close tolerances where metal to metal or metal to plastic lubrication and lasting protection are desired. White Grease works well in both high or low temperatures and in all types of weather. Contains no ozone depleting CFC's. (pin point applicator straw included).

Part #	Description	Package
15-C34	443.5 ml aerosol can style	12/ctn

15-C34
Illustrated



Lubricants & Protectants

EZ Telescopic Oiler The Finest All-Purpose Industrial Oil

The telescoping Spout That Reaches Everywhere! Telescopic Oiler's are specially formulated to reduce wear on moving parts. The oil contains superior additives with anti-rust properties preventing corrosion. The convenient retractable spout makes it easy to get to those hard to reach places.

Part #	Description	Package
10-ZS75	118 ml telescopic bottle	12/ctn

10-ZS75
Illustrated



EZ Rust Breaker The Finest All-Purpose Industrial Oil

Alltemp's Rust Breaker is specially formulated to quickly loosen rust and frozen parts. Rust Breaker's demisting agents act as a penetrating oil and superior rust inhibitor. The telescoping spout reaches everywhere! The convenient retractable spout makes it easy to get to those hard to reach places.

Part #	Description	Package
10-RB75	118 ml telescopic bottle	12/ctn

10-RB75
Illustrated



Features

- Hi-impact plastic guards.
- Horizontal and vertical mounting.
- Heavy duty lock and key.
- Comes with complete mounting hardware.
- Each model includes a ring & solid base.
- Colour - clear cover with off white base.

Reduce Inventory!
Our thermostat guards come complete with hardware, ring and solid bases.



Mounting Base Types
All mounting bases are plastic.



77-PG3
Illustrated



585-TG6
Illustrated



585-TG2
Illustrated



77-PG12
Illustrated

Plastic Thermostat Guards

Part #	Base	Inside Dimensions			Cross Reference	
		L	W	D		
77-PG3	Ring	3.75"	3.50"	2.62"	BTG-EK	F29-0252
	Solid	4.00"	4.00"	2.50"	ECST	029-0178 029-0179
585-TG2	Ring	5.25"	4.62"	3.12"	BTG-K	F29-0251
	Solid	5.75"	5.00"	2.81"	KCBT	F29-0257
585-TG6	Ring	6.31"	3.62"	3.06"	BTG-RK	F29-0253
	Solid	6.62"	4.12"	2.75"	RCBT	029-0143
77-PG12	Ring	8.18"	4.62"	3.56"	BTG-UK	F29-0254
	Solid	8.50"	5.00"	3.87"	UCBT	029-0198

Metal Thermostat Guards

Features

- Durable metal guards.
- Horizontal and vertical mounting.
- Heavy duty lock and key.
- Comes with complete mounting hardware.
- Each model includes a ring & solid base.*
- Colour - off white cover with off white base.

Mounting Base Types
77-MG3 Plastic
77-MG6 Plastic
77-MG9 Metal
77-MG12R Metal
77-MG12S Metal

Reduce Inventory!
Our thermostat guards come complete with hardware, ring and solid bases.



77-MG3
Illustrated



77-MG9
Illustrated



77-MG6
Illustrated



77-MG12R - Hinged
Illustrated

Metal Thermostat Guards

Part #	Base	Inside Dimensions			Cross Reference	
		L	W	D		
77-MG3	Ring	5.31"	4.31"	3.00"	BTG-KWM	KMRT
	Solid	5.62"	5.12"	2.87"	BTG-KM	KMST
77-MG6	Ring	6.31"	3.62"	3.18"	BTG-EM	EMST
	Solid	6.62"	4.12"	3.75"	BTG-RM BTG-RWM	RMRT
77-MG9	Ring	6.75"	4.50"	3.43"	BTG-UWM	UMRT
	Solid	7.18"	5.25"	3.43"	BTG-UM	UMST
77-MG12R*	Ring	6.12"	3.81"	3.12"	BTG-54VLW	F29-0256
77-MG12S*	Solid	6.37"	4.25"	3.00"	BTG-54VL	F29-0255

* Hinged metal guards do not come with both bases.

Clipstrip™

Clipstrip™ is a powerful pocket light available in 140 lumens that includes a magnetic clip. It is available in yellow or camo and AAA batteries are included.



111112 111116

Part #	Discription	Order Mult.
111112	Clipstrip Pocket Light	12
111116	Clipstrip Pocket Camo Light	12

Clipstrip2™

Clipstrip2™ is a powerful pocket light available in 140 lumens that includes a magnetic clip. It is available in yellow or camo and AAA batteries are included.



111118

Part #	Discription	Order Mult.
111118	Clipstrip 2 Pocket Light	9

Clipstrip™ Aqua

Clipstrip™ Aqua is a waterproof light with 180 lumens and includes a magnetic clip and floats. It is available in yellow and comes with a rechargeable 2200 mAh lithium-ion battery. Sold individually.



111113

Part #	Discription	Order Mult.
111113	Clipstrip Aqua Light	1

PIVOT™

The PIVOT™ is a light that has a 360° swivel hook with 240 lumens and magnetic base and back. Three AA batteries included.



111114

Part #	Discription	Order Mult.
111114	Pivot Pivoting Worklight	9

PIVOT™33

The Pivot™ 33 is a light that has a 360° swivel hook with 160 lumens and magnetic back and pivoting base. Lights on front and top with three AA batteries included. Available in yellow or camo.



24-458 24-460

Part #	Discription	Order Mult.
24-458	Pivot 33 Worklight	9
24-460	Pivot 33 Worklight, Camo	9

Clip-On Zoom Light

The Clip-On Zoom Light provided 150 lumens, 90° pivoting capability coupled with the ability to zoom from broad to narrow. It includes a magnetic base and includes three AAA batteries.



111128

Part #	Discription	Order Mult.
111128	Clip-On Zoom Worklight	8

HEMImini™

The HEMImini™ has up to 1000 lumens of power (4 hours - full power) with a 4400 mAh lithium-ion rechargeable battery. It includes a 180 degree swivel hook with an optional magnetic cover (410339).



111128 410239

Part #	Discription	Order Mult.
114301	HEMImini Worklight	1
410239	Magnetic Cover for HEMImini Worklight	1

PIVOT™mini

The PIVOT™ mini is a light that has a 360° swivel hook with 120 lumens and magnetic back and base. Lights on front and top with three AAA batteries included. Available in yellow or camo.



111115

Part #	Discription	Order Mult.
111115	PIVOT mini Pivoting Worklight	12
111117	PIVOT mini Pivoting Worklight, Camo	12

PIVOT™ Tough-Light

The PIVOT™ Tough Light has 150 lumens with a hanging hook and magnetic base. It also has 180 degree pivoting capability with three AAA batteries included.

Part #	Discription	Order Mult.
111123	PIVOT Tough-Light Worklight	8



Cliplight Extends

The Cliplight Extends has 120 lumens at the top and 140 lumens in the front with a pivoting head. The light comes with a telescopic system and magnetic base. Four AAA batteries included.

Part #	Discription	Order Mult.
111130	Cliplight Extends Worklight	8



HEMIPLUS™ 2

The HEMIPLUSTM 2 has up to 1200 lumens of power (4 hours - full power) with a 4400 mAh lithium-ion rechargeable battery. It includes a metal hook and removable magnetic cover.

Part #	Discription	Order Mult.
114302	HEMIPLUS 2 Worklight	1



Spotlight

The Spotlight is a cordless work light solution with up to 1200 lumens of power (3 hours - full power) with a 4000 mAh lithium-ion rechargeable battery. It includes two adjustable joints on magnetic stand for different angles. It has three power modes including a dimmer.

Part #	Discription	Order Mult.
111121	Spotlight Cordless Worklight	1



Duct Straps

Duct Strap - Woven Polypropylene

Webbed duct strap possessing high tensile and abrasion resistance. This can be used for flex duct as it is easy to cut and staple to joists. The product is chemical resistant and tested to meet UL Standard 2043.



710-100



Part #	Description	Order Mult.
710-100	1-3/4" x 100 Yards - Black	24
710-101	1-3/4" x 100 Yards - Silver	24
710-102	3" x 100 Yards - Black	8
710-103	3" x 100 Yards - Silver	8

Duct Strap - Metallic - Roll

Galvanized duct strap in a convenient cardboard dispenser is not only easy to drill or nail, but also solid strapping. Plenum rated.



710-001



Part #	Description	Order Mult.
710-001	26 Gauge - 1" x 100'	1
710-002	30 Gauge - 1" x 100'	1
710-003	30 Gauge - 1-1/2" x 100'	1
710-004	26 Gauge - 1-1/2" x 100'	1
710-005	22 Gauge - 1" x 100'	1

Tapes

Stick-E-Tape

Self adhesive aluminum tape with temperature range of 40 degree F to 200 degree F. Easily painted. Excellent vapor barrier; effective UV and water shield over urethane foam. Preferred duct and pipe wrap.



50302



Part #	Description	Order Mult.
50302	AFT-701-2 - 2" x 50' Roll	24

Aluminum Foil Tape

Prevents heating and cooling losses. Blocks odors and moisture. Easy to handle. Use for HVAC and refrigeration systems. 35 degree F to plus 260 degree F working temperatures. 3-5 year shelf life. Made in USA.



640-AF2



Part #	Description	Order Mult.
640-AF2	2" Aluminum Foil Tape - 50 yds.	24
640-AF25	2-1/2" Aluminum Foil Tape - 50 yds.	20
640-AF3	3" Aluminum Foil Tape - 50 yds.	16

Foil Scrim Kraft Tape

Non tearable, diamond patterned backing with an aggressive rubber based adhesive system for consistently dependable performance. Made in the USA.



640-FSK2



Part #	Description	Order Mult.
640-FSK2	Foil Scrim Kraft Tape - 2" - 50 Yards	24
640-FSK3	Foil Scrim Kraft Tape - 3" - 50 Yards	16

Flex Duct Tape

Specially designed to meet new UL181B FX code for flex duct. Higher adhesion and tack than traditional cloth duct tapes. Conformable, hand tearable foil; 3 mil thickness. 2 in. x 120 yds. Code identification printed on the tape. Acrylic adhesive for superior performance in extreme environments. (35°F to 260°F)



640-FD2S



Part #	Description	Order Mult.
640-FD2S	Flex Duct Tape - Silver - 2"	24
640-FD2B	Flex Duct Tape - Black - 2"	24
640-FD3S	Flex Duct Tape - Silver - 3"	16

Cloth Duct Tapes

High tack, excellent strength. Superior performance in sealing air handling systems. Heavy cloth content for easier tearing and additional strength. Made in the USA.



PC-622-S



Part #	Description	Order Mult.
PC-622-S	2" x 60 Yards - Premium Grade - Silver	24
PC-622-B	2" x 60 Yards - Premium Grade - Black	24
PC-609-S	2" x 60 Yards - Industrial Grade - Silver	24
PC-609-B	2" x 60 Yards - Industrial Grade - Black	24
PC-600-S	2" x 60 Yards - Contractor Grade - Silver	24
PC-600-B	2" x 60 Yards - Contractor Grade - Silver	24
PC-857	2" x 60 Yards - Metallized UL181B-FX Flex Duct Tape	24

UL Listed Foil Tape

Unique acrylic adhesive for airtight bonds on joints and seams of fiberglass duct systems. Flexible, easy to use. Meets or exceeds performance standard AFLS 100 73 and UL 181 A P.



Part #	Description	Order Mult.
640-UL25	UL 181 Listed Foil Tape - 2-1/2" - 60 Yards	16
640-UL3	UL 181 Listed Foil Tape - 3" - 60 Yards	16

DiversiTech Gas Connectors 1/2" OD

Combining flexibility, durability, and functionality, DiversiTech stainless steel gas connectors are CSA design certified and 100% leak tested for quality and security. DiversiTech gas connectors are durable and reliable to give you everything you need. Available in a variety of sizes and lengths.



D20-3132-18



Part #	Description	Order Mult.
D20-3132-18	18" long, 1/2" OD x 3/8" ID, M x F	12
D20-3132-24	24" long, 1/2" OD x 3/8" ID, M x F	12
D20-3132-36	36" long, 1/2" OD x 3/8" ID, M x F	12
D20-3132-48	48" long, 1/2" OD x 3/8" ID, M x F	12

Epoxy Coated Gas Connectors

Yellow coated gas connectors include an epoxy coating for added durability and extra protection from corrosion, chemical stains from common household products and plumbing repairs.



DC30-3132-18



Part #	Description	Order Mult.
DC30-3132-18	18" long, 5/8" OD x 1/2" ID, M x F	12
DC30-3132-24	24" long, 5/8" OD x 1/2" ID, M x F	12
DC30-3132-36	36" long, 5/8" OD x 1/2" ID, M x F	12
DC30-3132-48	48" long, 5/8" OD x 1/2" ID, M x F	12

DiversiTech Gas Connectors 5/8" OD

Combining flexibility, durability, and functionality, DiversiTech stainless steel gas connectors are CSA design certified and 100% leak tested for quality and security. DiversiTech gas connectors are durable and reliable to give you everything you need. Available in a variety of sizes and lengths.



D30-3131-18



Part #	Description	Order Mult.
D30-3131-24	24" long, 5/8" OD x 1/2" ID, M x M	12
D30-3131-36	36" long, 5/8" OD x 1/2" ID, M x M	12
D30-3131-48	48" long, 5/8" OD x 1/2" ID, M x M	12
D30-3132-18	18" long, 5/8" OD x 1/2" ID, M x F	12
D30-3132-24	24" long, 5/8" OD x 1/2" ID, M x F	12
D30-3132-36	36" long, 5/8" OD x 1/2" ID, M x F	12
D30-3132-48	48" long, 5/8" OD x 1/2" ID, M x F	12

Flue Caps

Flue Caps

PVC Flue Caps are an affordable way to protect today's high efficiency furnaces from dirt, moisture and other debris.

- Protection for high efficiency furnaces
- Universal flue cap fits 1.5", 2" and 3" PVC pipe
- Reduces draft inducer motor rust
- Helps to eliminate pressure switch service calls
- Resistant to UV radiation and oxidative degradation
- CSA approved for use in 90% AFUE heating applications



EC-1



Part #	Description	Order Mult.
EC-1	E capp Flue Cap	12



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