

2010 Professional Catalog

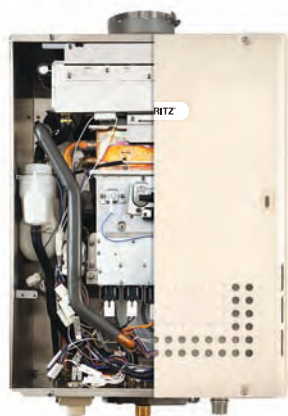


Noritz Residential



Tankless...Endless Comfort

Condensing Technology

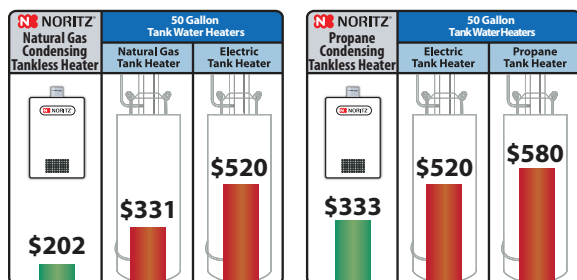


Greenest Noritz

If "green" is your thing, then look no further. Noritz condensing units are over 93% efficient and because they are condensing, less expensive PVC venting can be used.

(NRC111-SV)

AVERAGE YEARLY OPERATING COSTS



Based on FTC Energyguide 16 CFR Part 305, using prices of \$1.218/therm for Natural Gas, \$1.87/ gal. for LP Gas, and 10.65 cents/kWh for electricity as published in the 08/29/2007 DOE Federal Register Notice, Vol. 72 No.167.

Save Energy. Save Money.

With a Noritz tankless water heater, you'll save energy and thus, money. Our on-demand systems require no standing pilot light and can save about half the cost of your current water heating bill since there is no re-heating of water as with traditional water heaters.

Built-in PVC Adapter

- Zero clearance to combustibles
- 3" or 4" PVC

Stainless Steel Heat Exchanger

- Residual heat used to pre-heat incoming water
- Durable & high strength
- Corrosion resistant

Copper Heat Exchanger

- Commercial grade copper
- 25% thicker piping
- Unique efficient heat distribution design

Temperature Settings from 100°F-180°F

Neutralizer Included

	Condensing NRC111-SV	Condensing NRC111-DV	NR111-SV	NR111-DV
Dimensions	24.2" (H) x 18.3" (W) x 9.4" (Depth)	24.4" (H) x 18.4" (W) x 9.4" (Depth)	24.2" (H) x 18.3" (W) x 9.4" (Depth)	24.2" (H) x 18.3" (W) x 9.4" (Depth)
Weight/ Connections	74 lbs./ 3/4" Water inlet & outlet, gas	74 lbs./ 3/4" Water inlet & outlet, gas	62 lbs./ 3/4" Water inlet, outlet & gas	62 lbs./ 3/4" Water inlet, outlet & gas
Gas Consumption	NG Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 250,000 Btuh- Min. 11,000 Btuh	Max. 250,000 Btuh- Min. 11,000 Btuh
	LP Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 250,000 Btuh- Min. 11,000 Btuh	Max. 250,000 Btuh- Min. 11,000 Btuh
Capacity Range	0.5-11.1 Gal./min.	0.5-11.1 Gal./min.	0.5-11.1 Gal./min.	0.5-11.1 Gal./min.
Energy Factor	0.91 (NG), 0.93 (LP)	0.92 (NG), 0.94 (LP)	NA*	NA*
Thermal Efficiency	93%	93.3% (NG), 93.9% (LP)	84%	84%
Temperature Settings	100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F
Included Accessories	Remote Control & Cord, Anchoring Screws, Condensate Neutralizer, Power Cord Kit	Remote Control & Cord, Anchoring Screws, Condensate Neutralizer, Factory Installed Power Cord	Remote Control & Cord, Anchoring Screws, Power Cord Kit	Remote Control & Cord, Anchoring Screws, Factory Installed Power Cord



Tankless Advantage With a properly sized Noritz, you won't have to worry about running out of hot water. You will also be heating that water efficiently, saving energy and money.



Endless Hot Water

Since a Noritz tankless heats water on demand, the incoming water is heated as it passes through the heat exchanger, which delivers endless hot water.



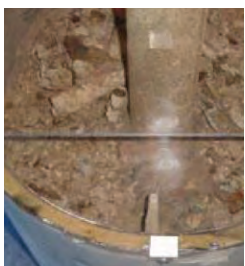
Safety

Comfort and safety is one of the highest priorities when it comes to Noritz. Our units are equipped with safety features to prevent scalding water from exiting your fixtures.



Higher Volume

Two identical units* can be linked together to double the output or for even higher demands. Up to 24 units* can be linked together to maximize output. (*Select models only.)



Clean Water

With a tankless, you won't be using hot water that is stored in a tank that can accumulate scale and rust over time, or even worse possible Legionella bacteria.

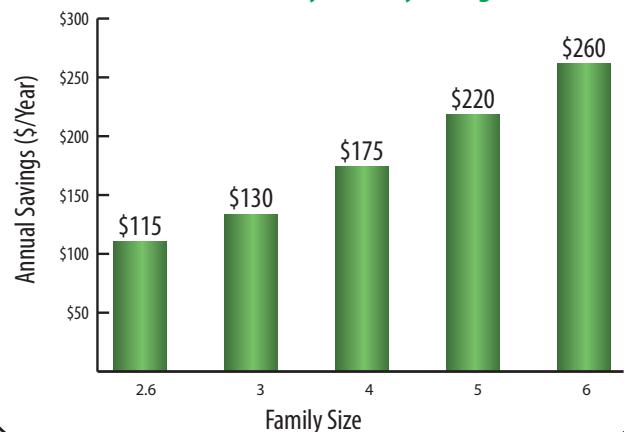
Tankless Is Green™

ENERGY STAR Qualified

Noritz residential models meet or exceed the criteria set forth for ENERGY STAR qualification. With ENERGY STAR certification, you can rest with confidence a Noritz tankless will save energy and money.



How Much Can Your Family Save By Going Tankless?



On Demand.

Tankless water heaters heat water only when needed, eliminating the wasteful energy use of reheating stored hot water, which is standard with tank-type water heaters.

NR111-OD	NR98-SV	NR98-DVC	NR98-OD
24.2" (H) x 18.3" (W) x 9.4" (Depth)	23.6" (H) x 13.8" (W) x 9.4" (Depth)	23.6" (H) x 13.8" (W) x 10.2" (Depth)	23.6" (H) x 13.8" (W) x 9.4" (Depth)
62 lbs./ 3/4" Water inlet, outlet & gas	47 lbs./ 3/4" Water inlet, outlet & gas	55 lbs./ 3/4" Water inlet, outlet & gas	47 lbs./ 3/4" Water inlet, outlet & gas
Max. 250,000 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 12,000 Btuh	Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 12,000 Btuh
Max. 250,000 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 12,000 Btuh	Max. 199,900 Btuh- Min. 11,000 Btuh	Max. 199,900 Btuh- Min. 12,000 Btuh
0.5-11.1 Gal./min.	0.5-9.8 Gal./min.	0.5-9.8 Gal./min.	0.5-9.8 Gal./min.
NA*	0.83 (NG), 0.83 (LP)	0.82 (NG), 0.84 (LP)	0.82 (NG), 0.86 (LP)
84%	84%	84%	84%
100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F	100-150°F (in 5°F Intervals), 160, 170, 180°F
Remote Control & Cord, Anchoring Screws	Remote Control & Cord, Anchoring Screws, Power Cord Kit	Built-in Remote Controller, Anchoring Screws, Factory Installed Power Cord	Remote Control & Cord, Anchoring Screws

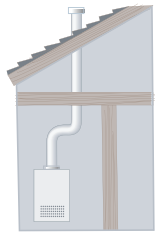
* The US Dept. of Energy considers any water heater that is 200,000 BTU/h or greater to be a "commercial" water heater, and therefore does not allow such products to be rated with an Energy Factor, which is based on residential usage.

Noritz Residential



Flexible Installation

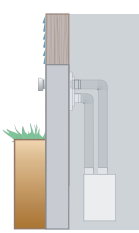
With the compact size and broad selection, Noritz tankless water heaters can be installed virtually anywhere. Indoor or outdoor, Noritz has the unit, venting and accessories needed for the job.



Vertical vent termination



Horizontal vent termination



Basement DV installation



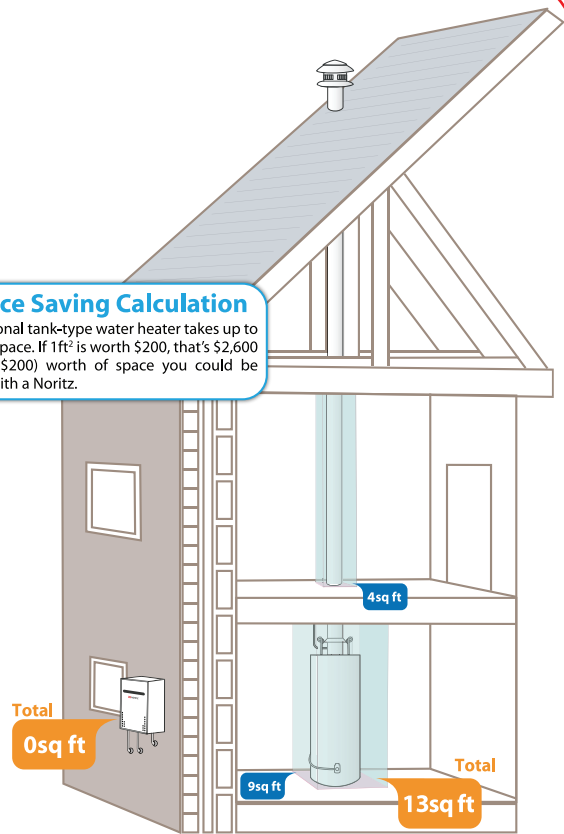
Outdoor installation



Recess box installation

Space Saving Calculation

A traditional tank-type water heater takes up to 13ft² of space. If 1ft² is worth \$200, that's \$2,600 (13ft² x \$200) worth of space you could be saving with a Noritz.



Sizing Reference

Temp Rise (°F)	(NC380) Series	NR111 (NC250) Series	NRC111 (NCC199) Series	NR98 (NC199) Series	NR71 Series	NR66 Series
30	13.2	11.1	11.1	9.8	7.1	6.6
35	13.2	11.1	10.6	9.2	7.1	6.6
40	13.2	10.5	9.3	8.4	7.1	5.7
45	13.2	9.3	8.4	7.5	6.3	5.3
50	12.5	8.4	7.4	6.7	5.8	4.6
55	11.3	7.6	6.8	6.1	5.2	4.2
60	10.4	7.0	6.2	5.6	4.8	3.8
65	9.6	6.5	5.8	5.2	4.4	3.5
70	8.9	6.0	5.3	4.8	4.1	3.3
75	8.3	5.6	5.0	4.5	3.8	3.1
80	7.8	5.3	4.6	4.2	3.6	2.9
85	7.9	4.9	4.4	4.0	3.4	2.7
90	6.9	4.7	4.1	3.7	3.2	2.6
95	6.6	4.4	3.9	3.5	3.0	2.4
100	6.2	4.2	3.7	3.4	2.9	2.3

(For peak flow rates in shaded areas, contact Noritz for proper setting.)

Model	Summer Water Supply 70°F			Winter Water Supply 45°F		
(NC380)	5.3 Showers			13.2 GPM	4.2 Showers	10.4 GPM
NR111 (NC250)	4.4 Showers			11.1 GPM	2.8 Showers	7.0 GPM
NRC111 (NCC199)	4.1 Showers			10.6 GPM	2.5 Showers	6.2 GPM
NR98 (NC199)	3.7 Showers			9.2 GPM	2.2 Showers	5.6 GPM
NR71	2.8 Showers			7.1 GPM	1.9 Showers	4.8 GPM
NR66	2.6 Showers			6.6 GPM	1.5 Showers	3.8 GPM

(Model numbers in parenthesis are commercial models. Assuming a standard 2.5 GPM shower head and 105°F output water temperature.)

	NR71-SV	NR71-OD	NR66-SV*	NR66-OD*
Dimensions	23.6" (H) x 13.8" (W) x 6.7" (Depth)	23.6" (H) x 13.8" (W) x 6.7" (Depth)	20.5" (H) x 13.8" (W) x 6.7" (Depth)	20.5" (H) x 13.8" (W) x 6.7" (Depth)
Weight/ Connections	41 lbs./ 3/4" Water inlet, outlet & gas	41 lbs./ 3/4" Water inlet, outlet & gas	36 lbs./ 3/4" Water inlet, outlet & gas	36 lbs./ 3/4" Water inlet, outlet & gas
Gas Consumption	NG SV Max. 180,000 Btuh- Min. 25,000 Btuh	Max. 180,000 Btuh- Min. 25,000 Btuh	NG SV Max. 140,000 Btuh- Min. 20,000 Btuh	Max. 140,000 Btuh- Min. 20,000 Btuh
	LP SV Max. 180,000 Btuh- Min. 25,000 Btuh	Max. 180,000 Btuh- Min. 25,000 Btuh	LP SV Max. 140,000 Btuh- Min. 20,000 Btuh	Max. 140,000 Btuh- Min. 20,000 Btuh
Capacity Range	0.5-7.1 Gal./min.	0.5-7.1 Gal./min.	0.5-6.6 Gal./min.	0.5-6.6 Gal./min.
Energy Factor	0.83 (NG), 0.83 (LP)	0.82 (NG), 0.83 (LP)	0.82 (NG), 0.84 (LP)	0.83 (NG), 0.84 (LP)
Thermal Efficiency	83%	83%	83%	83%
Temperature Settings	120, 130, 140°F w/o remote	120, 130, 140°F w/o remote	120, 130, 140°F w/o remote	120, 130, 140°F w/o remote
Included Accessories	OD Anchoring Screws, PowerCord Kit	Anchoring Screws	OD Anchoring Screws, Power Cord Kit	Anchoring Screws

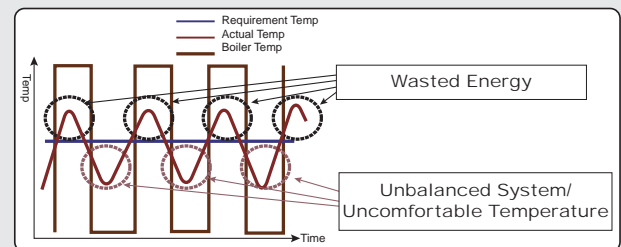
*Only available in the U.S.



1st ASME certified tankless hydronic boilers for residential & commercial applications.

Advanced features include:

- Commercial-grade copper heat exchanger made thicker to help resist corrosion.
- Pipe with larger diameter specifically designed for the boiler dramatically reduces pressure loss through the multi-pass heat exchanger.
- Standard integrated priority controls for DHW and hydronic heating systems from a single controller on the front panel.
- Two temperature settings; 1 for the DHW and 1 for the heating system.
- High temperature capability (up to 180°F). Nine temperature option settings.
- Low maintenance – minimal moving parts (fan and flow switch only).
- Durable, fully solid state controls.



Noritz Fully Modulating Burners

The fully modulating burner on the NH Series tracks the needs of the system precisely and provides only the amount of energy required to maintain the system's set point, reducing fuel consumption significantly.

Noritz NH Series





The Noritz NH Series boiler is energy efficient & space saving.

Traditional Boilers



Traditional non-condensing/ non-modulating boilers take up valuable floor space and wastes energy.

		NH199-DV		NH150-DV
Dimensions		24.2" (H) x 18.3" (W) x 9.4" (Depth)		24.2" (H) x 18.3" (W) x 9.4" (Depth)
Weight/ Connections		65 lbs./ 1" Water inlet & outlet, 3/4" gas		65 lbs./ 1" Water inlet & outlet, 3/4" gas
Gas Consumption NG	DV	Max. 199,900 Btuh- Min. 55,500 Btuh	DV	Max. 150,000 Btuh- Min. 55,500 Btuh
Gas Consumption LP		Max. 199,900 Btuh- Min. 55,500 Btuh		Max. 150,000 Btuh- Min. 55,500 Btuh
Standard Output		45,500- 163,100 Btuh		45,500- 122,400 Btuh
AFUE		82.7% (NG), 83% (LP)		83% (NG), 82.8% (LP)
Included Accessories		Pressure & Temperature Gauge, Safety Relief Valve, Anchoring Screws, Terminals		Pressure & Temperature Gauge, Safety Relief Valve, Anchoring Screws, Terminals

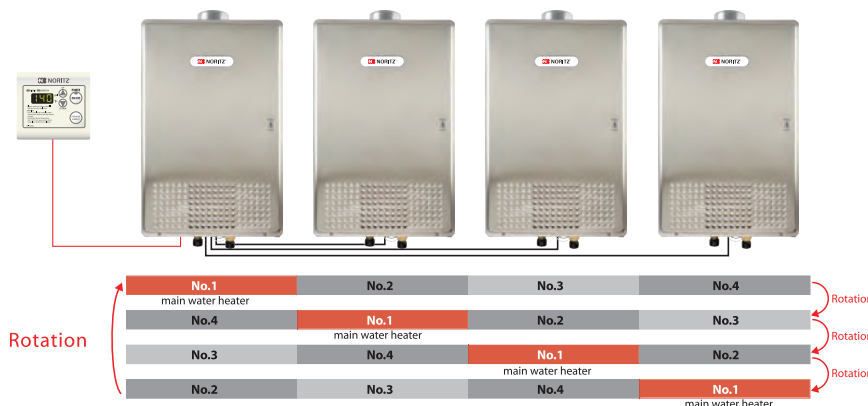
Noritz Commercial



The Noritz Commercial Advantage

Modular

The Noritz modular system is based on a single self-contained, interchangeable unit that can combine and communicate with like units to meet any hot water demand.



Modulation

Noritz fully modulating technology can track any hot water demand with pin point accuracy, only using the energy necessary to heat the water that is used.

Fully Modulating Burner

Noritz's fully modulating burner technology is the most precise and efficient method of heating high fluctuating demands of water.

Single Unit

23 : 1 Turndown Ratio

11,000- 250,000 BTU Range

24 Units (Modular)

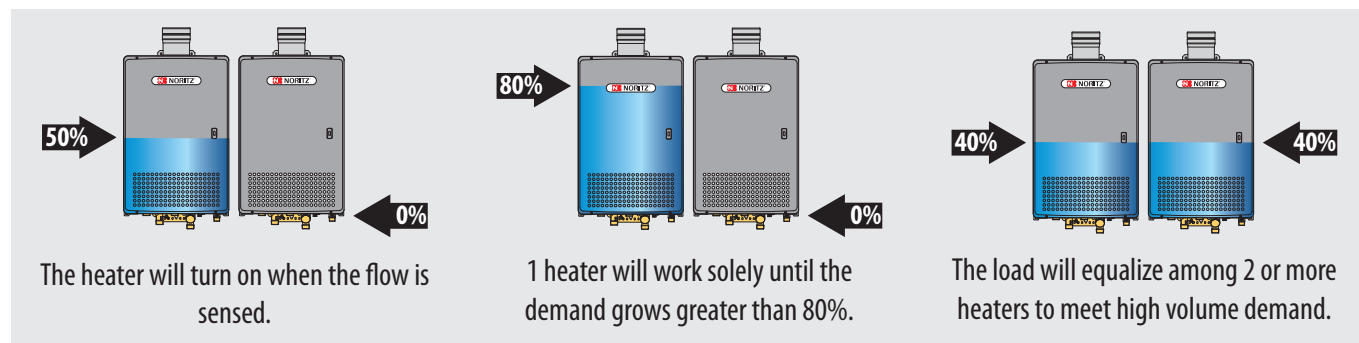
545 : 1 Turndown Ratio

11,000- 6 Million BTU Range

(Specs based on NC250 model)

Intelligent System

In a multi-system setup, the Noritz commercial units will communicate with one another and work in unison to even out the load on each individual unit, maximizing output and system life. With the ability to modulate between multiple units with the use of a system controller makes Noritz commercial water heaters the most efficient water heating system on the market today.



NC380-SV-ASME

SV



NC250-SV-ASME

SV



DV

NC250-DV-ASME

Dimensions	29.7" (H) x 19.1" (W) x 11.8" (Depth)	Dimensions	24.4" (H) x 18.4" (W) x 9.4" (Depth)	Dimensions	24.4" (H) x 18.4" (W) x 9.4" (Depth)
Weight/ Connections	105 lbs./ 1" Water inlet & outlet, 3/4" gas	Weight/ Connections	62 lbs./ 3/4" Water inlet & outlet, gas	Weight/ Connections	62 lbs./ 3/4" Water inlet & outlet, gas
Gas Consumption	NG	Max. 380,000 Btuh- Min. 22,500 Btuh	Gas Consumption	NG	Max. 250,000 Btuh- Min. 11,000 Btuh
	LP	Max. 380,000 Btuh- Min. 22,500 Btuh		LP	Max. 250,000 Btuh- Min. 11,000 Btuh
Capacity Range	0.7-13.2 Gal./min.	Capacity Range	0.5-11.1 Gal./min.	Capacity Range	0.5-11.1 Gal./min.
Thermal Efficiency	80% (NG), 84% (LP)	Thermal Efficiency	84%	Thermal Efficiency	84%
Temperature Settings	100-150°F (in 5°F Intervals), 160, 170, 181.4°F	Temperature Settings	100-150°F (in 5°F Intervals), 160, 170, 181.4°F	Temperature Settings	100-150°F (in 5°F Intervals), 160, 170, 181.4°F
Included Accessories	Remote Control & Cord, Anchoring Screws	Included Accessories	Remote Control & Cord, Anchoring Screws	Included Accessories	Remote Control, & Cord, Anchoring Screws

Concentric Venting for DVC Models DVC

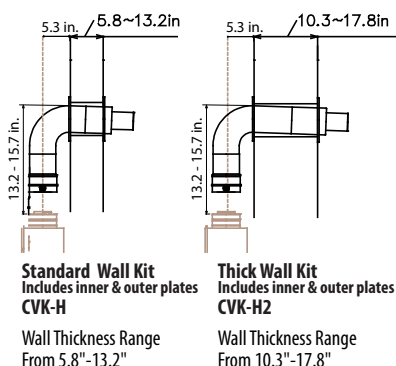


Features:

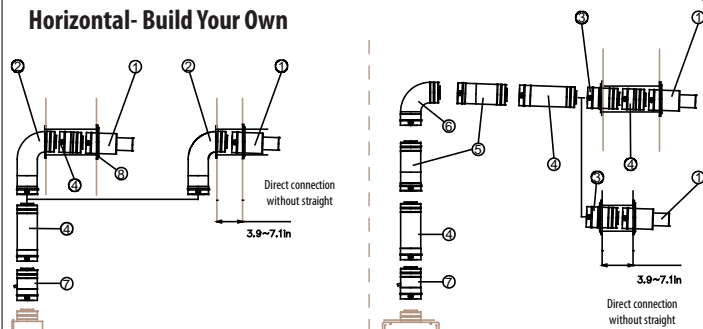
- Push-on connection.
- Single-wall penetration.
- No need to cut- adjustable for easy installations.
- Zero clearance to combustibles.
- Use of superior anti-corrosion material 316L for outlet port.
- Heat and chemical resistant fluorine rubber O-ring for secure sealing.

Horizontal Installation

Horizontal- Kits



Horizontal- Build Your Own



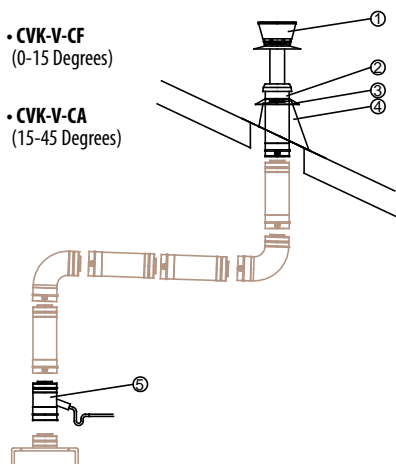
No	1	2	3	4	5	6	7
Description	Straight Bird Screen w/ Outer Plate	90° Adj w/ Wall Flange	Straight Vent Pipe w/ Wall Flange	Straight	Adjustable	45/ 90 Degree	Drain Tee
Part Number	CVT-5	CVF-90ELB	CVF	CVP-4/12/24/36STR	CVP-11/16/40ADJ	CVP-45/90ELB	CDT-V

Vertical Installation

Vertical Kit Cold Weather

• **CVK-V-CF**
(0-15 Degrees)

• **CVK-V-CA**
(15-45 Degrees)



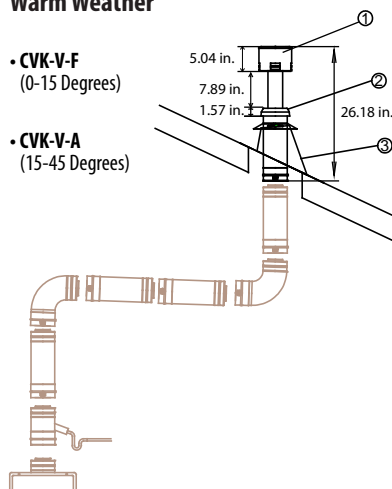
CVK-V-CF Contents		
No	Description	Part Number
1	Rain Cap	CRC
2	Air Intake Pipe W/ Snap Connection	CAIP1
3	Storm Collar	CSCR
4	Flat Roof Flashing (0-15 Degree)	CFRF
5	Drain Tee	CDT-V

CVK-V-CA Contents		
No	Description	Part Number
1	Rain Cap	CRC
2	Air Intake Pipe W/ Snap Connection	CAIP1
3	Storm Collar	CSCR
4	Angled Roof Flashing (15-45 Degrees)	CARF
5	Drain Tee	CDT-V

Vertical Kit Warm Weather

• **CVK-V-F**
(0-15 Degrees)

• **CVK-V-A**
(15-45 Degrees)

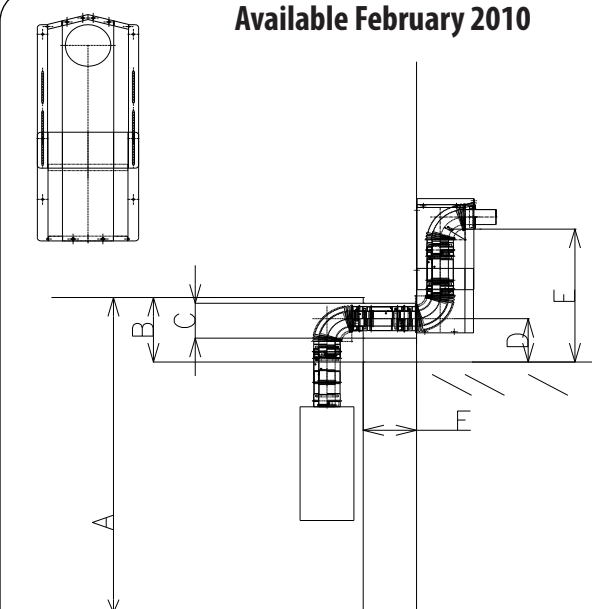


CVK-V-F Contents		
No	Description	Part Number
1	Rain Cap w/ Air Intake Pipe	CRCAL
2	Storm Collar	CSCR
3	Flat Roof Flashing (0-15 Degrees)	CFRF

CVK-V-A Contents		
No	Description	Part Number
1	Rain Cap w/ Air Intake Pipe	CRCAL
2	Storm Collar	CSCR
3	Angled Roof Flashing (15-45 Degrees)	CARF


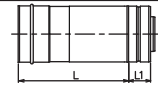
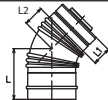

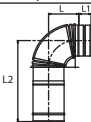
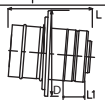
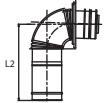
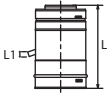
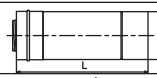
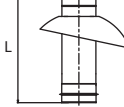
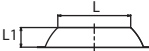
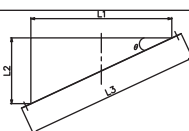
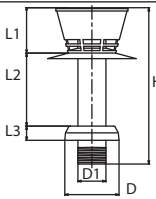
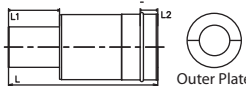


Snorkel Kit

Available February 2010



Snorkel Kit Contents		
No	Description	Part Number
1	Termination elbow	CVT-SNRK-90ELB
2	90 degree elbow	CVP-90ELB
3	90 degree adjustable elbow	CVP-90ADJELB
4	Vertical vent pipe	CVP-16ADJ
5	Horizontal vent pipe	CVP-11ADJ
6	Snorkel case	CVK-SNRK-C-SUS
7	Screw set	SS-8
8	Support strap	SS5-3ADJ

Concentric Venting for DVC Models

Part Name	Type	Description	Drawing	Diameter		Dimensions (inches)				Part Number	Qty/Box
CONCENTRIC VENT PIECES	Rigid	4" Straight		Inner	Outer	L1	L				
		3"		5"	2.0	3.3	CVP-4STR	6			
					2.0	11.8	CVP-12STR	6			
					2.0	23.6	CVP-24STR	6			
					2.0	35.4	CVP-36STR	6			
	Adjustable Vent Length	11" Adjustable		3"	5"	2.0	8.3-11.2		CVP-11ADJ	6	
		2.0				11.0-16.7		CVP-16ADJ	6		
		2.0				22.8-40.6		CVP-40ADJ	6		
	Elbow	45 Degree		Inner	Outer	L1	L2	L			
		3"		5"	2.0	2.2	5.3	CVP-45ELB	6		
		90 Degree		3"	5"	2.0	4.9	8.1	CVP-90ELB	6	
		90 Degree Adjustable Elbow		Inner	Outer	L1	L2	L			
				3"	5"	2.0	12.6~15.8	4.9	CVP-90ADJELB	6	
	Wall Piece	Straight Vent Pipe w/ Wall Flange		Inner	Outer	L1	L	D			
		3"		5"	2.0	8.7	8.7	CWF	6		
		90 Degree Adjustable Elbow w/ Wall Flange		3"	5"	12.6~15.8			CWF-90ELB	6	
	Condensation Drain	Vertical Drain Tee		Inner	Outer	L1	L				
				3"	5"	0.47	8.3		CDT-V	6	
	Roof Pieces (up to 55 degrees with optional piece)	Air Intake Pipe with Thread*		3"	5"	18.5			CAIP	1	
		Roof Flashing Pipe*		3"	5"	23.6			CRFP	1	
		0 – 20 Degrees * (pitch roofs 4/12 pitch & less)				3.0	10.9		CRF-20	1	
		20-40 Degrees (5/12 – 10/12 pitch)				L1	L2	L3	θ		
						17.3	8.1	25.3	20°	CRFA-40 (req. CRF-20)	1
		40-55 Degrees (11/12 pitch and 17/12)				17.3	14.5	29.1	40°	CRFB-55 (req. CRF-20)	1
		Rain Cap*				H	L1	L2	L3	D1	D
						19.9	4.9	10.6	1.6	3.1	6.0
										CRC	1
	Termination	Straight Bird Screen w/ Outer Plate (FP-5-OUT)		Inner	Outer	L1	L2	L			
				3"	5"	3.9	1.1	11.0	CVT-5	6	
	Others	Concentric Vent Outer Plate				L1	L2	L			
						0.6		8.7	FP-5-OUT	1	
		Support Strap 2		SIZE		D	A	H	C		
						5.0	6.0	6.8	1"	SSS-1	5 Sets
				7.8	2"			SSS-2	5 Sets		
	9.8			4"	SSS-4			5 Sets			
11.8	6"	SSS-6	5 Sets								

Note: The DVC water heater and vent pipe are considered one system and have been approved as such. The DVC-Vent Line is approved for use on Noritz products only. *CRF-20 is required for installation.

Stainless Steel Venting for SV and DV Models SV DV



The Line-up: 3", 4" & 5"

Noritz N-Vent is available in three sizes: 3", 4" and 5". N-Vent is UL-Listed and ideal for tankless installations such as direct vent, horizontal, vertical and outdoor applications. Adjustable venting offers flexibility for different vent runs.

Easy Connection

Noritz supplies easy-to-connect venting components—the most simple in the industry to install. Unlike other brands, there's no need to tighten as the Noritz N-Vent has a Quick-Snap feature that allows for an easy connection while forming a tight seal. In addition, Noritz offers a special appliance adapter that connects N-Vent components to other manufacturers' tankless heaters or boilers.



UL Listed



Noritz N-Vent is UL approved Category III venting. Underwriter's Laboratories (UL), an independent not-for-profit product safety testing and certification organization is one of the most recognized safety agencies in the world. N-Vent is approved for tankless and boiler stainless steel exhaust installations at a fraction of the industry standard cost.

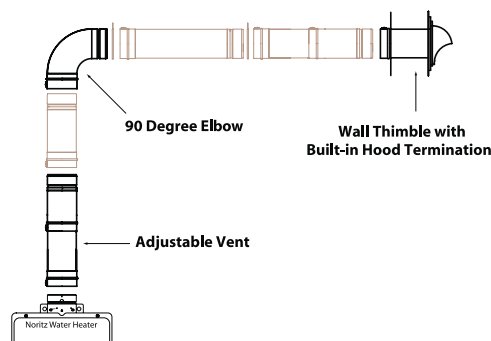
The N-Vent Termination Kits

N-Vent Horizontal Vent Kit

VK4-H-*

Specifications & Features

- Stainless Steel
- 4" Diameter
- Flexibility for different wall thicknesses
- Easy installation
- Professional appearance



Part Number Based on Wall Thickness as Follows:

Wall Thickness	*Venting Kit Number
4.1" - 7.4"	VK4-H-8-1
7.4" - 14"	VK4-H-14-1

Horizontal Kit Contains:

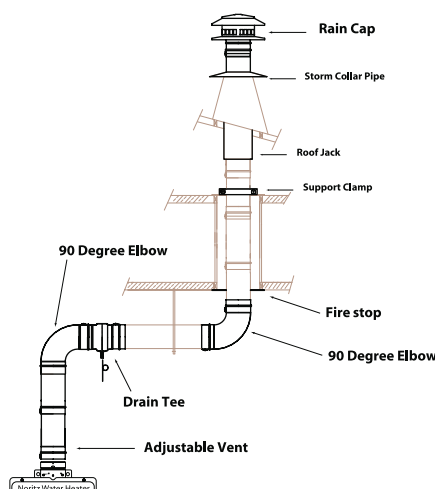
Description	Part Number	Quantity
Wall Thimble with Built-in Hood Termination	WT4-H-#-1 (# Based on wall thickness)	1
90 Degree Elbow	VP4-90ELB)	1
7" - 9.4" Adjustable Vent	VP4-9.4ADJ	1

N-Vent Vertical Vent Kit

VK4-V1

Specifications & Features

- Stainless Steel
- 4" Diameter
- Easy installation
- Professional appearance



Vertical Kit Contains:

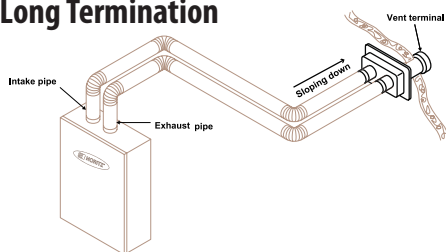
Description	Part Number	Quantity
Drain Tee	DT4	1
90 Degree Elbow	VP4-90ELB	2
Firestop	FS4	1
Support Clamp	SC4	1
Roof Jack	RJ4	1
Storm Collar Pipe	SCP4	1
Rain Cap	RC4	1
9" - 13.4" Adjustable Vent	VP4-13.4ADJ	1

Stainless Steel Venting for SV and DV Models SV DV

N-Vent Direct Vent Long Termination

Specifications & Features

- Stainless Steel
- 4" Diameter
- Easy installation
- Professional appearance



Use a listed Category III vent adaptor to connect the flue collar to the vent system. Use Category III vent pipe for the entire length of the exhaust pipe.

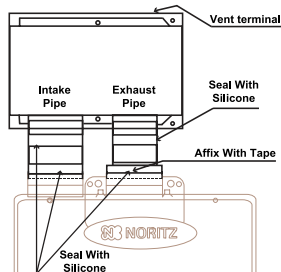
Part Name	Type	Wall Thickness	Dimensions (inches)		Part Number	Qty/ Box
Vent Termination	Long		Sleeve**	Termination** (L2)		
		3.5"- 5.1"	3.5"- 5.0"	7.0"- 8.5"	VT4-TL-5	1
		5.1"- 8.3"	5.0"- 8.0"	8.5"- 12.0"	VT4-TL-8	1
		8.3"- 14.6"	8.0"- 15.0"	12.0"- 18.0"	VT4-TL-14	1
		14.6"- 27.2"	15.0"- 27.0"	18.0"- 30.5"	VT4-TL-27	1

**Sleeve and termination (L2) can be adjusted in increments of 0.4 inch

N-Vent Direct Vent Short Termination

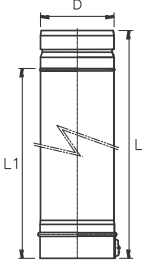
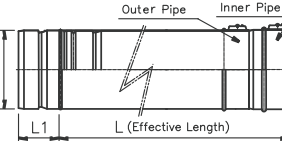
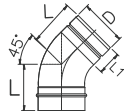
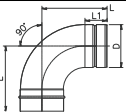
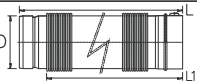

Specifications & Features

- Stainless Steel
- 4" Diameter
- Easy installation
- Professional appearance

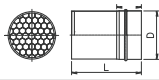
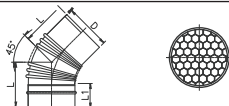
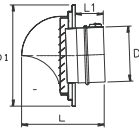
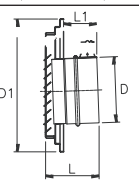
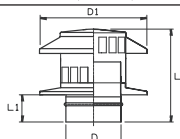
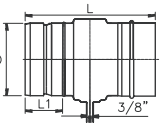
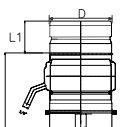
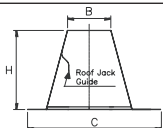
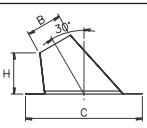
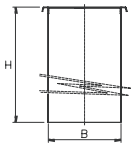
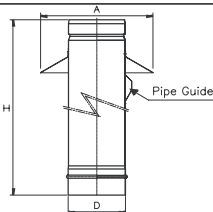
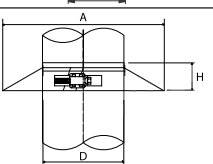


Part Name	Type	Wall Thickness	Dimensions (inches)		Part Number	Qty/ Box
Vent Termination	Long		Sleeve**	Termination** (L2)		
		3.5"- 5.1"	3.5"- 5.0"	7.0"- 8.5"	VT4-TS-5	1
		5.1"- 8.3"	5.0"- 8.0"	8.5"- 12.0"	VT4-TS-8	1
		8.3"- 14.6"	8.0"- 15.0"	12.0"- 18.0"	VT4-TS-14	1
		14.6"- 27.2"	15.0"- 27.0"	18.0"- 30.5"	VT4-TS-27	1

Components included in the Termination Kits are shown in bold and listed in the charts. Note: Additional venting components will be needed to complete most vent runs. **Sleeve and termination (L2) can be adjusted in increments of 0.4 inch

Part Name	Type	Description	Drawing	Size	Dimensions				Part Number	QTY/Box		
VENT PIPE	Rigid	6" Straight 12" Straight 24" Straight 36" Straight 48" Straight		3	3.0			12.0	14.0	VP3- 12STR	6	
								24.0	26.0	VP3-24STR	6	
								35.4	37.4	VP3-36STR	6	
								48.0	50.0	VP3-48STR	6	
				4	4.0			6.0	7.9	VP4- 6STR	6	
								11.8	13.9	VP4- 12STR	6	
								23.6	25.7	VP4-24STR	6	
								35.5	37.5	VP4-36STR	6	
				5	5.0			48.0	50.1	VP4-48STR	6	
								6.0	8.6	VP5- 6STR	6	
								11.8	14.5	VP5- 12STR	6	
								23.6	26.3	VP5-24STR	6	
				5	5.0			35.5	38.1	VP5-36STR	6	
								48.0	50.7	VP5-48STR	6	
	Adjustable Vent Length	7"- 9.4" Adjustable 9"- 13.4" Adjustable 13"- 21.4" Adjustable 36"- 60" Adjustable				3	3.0	2.0	6.8" - 9.1"		VP3- 9.4ADJ	6
									9.5" - 14.6"		VP3- 13.4ADJ	6
				15.4" - 26.5"					VP3- 21.4ADJ	6		
				36.0" - 60.0"					VP3-60.0ADJ	6		
	4	4.0	2.1	6.8" - 9.1"		VP4- 9.4ADJ	6					
				9.5" - 14.6"		VP4- 13.4ADJ	6					
				15.4" - 26.5"		VP4- 21.4ADJ	6					
				36.0" - 60.0"		VP4- 60.0ADJ	6					
	5	5.0	2.7	6.8" - 9.1"		VP5- 9.4ADJ	6					
				9.5" - 14.6"		VP5- 13.4ADJ	6					
				15.4" - 26.5"		VP5-21.4ADJ	6					
				Elbow	45 Degrees		3	3.0	2.0	3.6	VP3- 45ELB	6
	4	4.0	2.1				4.0	VP4- 45ELB	6			
	5	5.0	2.7				5.4	VP5- 45ELB	6			
	Elbow	90 Degrees		3	3.0	2.0	5.2	VP3- 90ELB	6			
				4	4.0	2.1	6.2	VP4- 90ELB	6			
				5	5.0	2.7	7.9	VP5- 90ELB	6			
	Flexible	18" Flexible		4	4.0	17.7		19.8	VP4- 18FLEX	6		
				5	5.0	17.7		20.4	VP5-18FLEX	6		
	Adapter	Appliance Adapter			D	L1	L	D1				
				3	3.0	1.2	4.9	3.2	VP3-ADAPT-1	6		
				4	4.0	1.2	4.9	4.0	VP4-ADAPT-1	6		

Stainless Steel Venting for SV and DV Models SV DV

Part Name	Type	Description	Drawing	Size	Dimensions (inches)			Part Number	Qty/Box	
VENT TERMINATION	Horizontal	Straight Birdscreen			D	L1	L			
				3	3.0	2.0	5.9	VT3-S	6	
				4	4.0	2.1	6.2	VT4-S	6	
		5	5.0	2.0	7.9	VT5-S	6			
		45 Degree Birdscreen		4	4.0	2.1	4.0	VT4-S45	6	
5	5.0			2.7	5.4	VT5-S45	6			
VENT TERMINATION	Horizontal	Hood			D	L1	L	D1		
				3	3.0	1.8	5.5	3.2	VT3-SH	6
				4	4.0	2.1	6.1	7.4	VT4-SH	6
		5	5.0	2.8	6.6	7.4	VT5-SH	6		
		Louver		4	4.0	2.1	3.2	7.4	VT4-SL	6
				5	5.0	2.8	3.7	7.4	VT5-SL	6
	Vertical	Rain Cap		3	3.0	2.0	6.8	6.3	RC3	6
				4	4.0	2.0	6.6	7.8	RC4	6
				5	5.0	2.0	7.2	11.0	RC5	6
CONDENSATION DRAIN	Horizontal	Drain Tee				L1	L			
				3	3.0	2.0	7.1		DT3	6
				4	4.0	2.1	7.2		DT4	6
				5	5.0	2.7	8.0		DT5	6
	Vertical	Vertical Drain Tee		3	3.0	2.0	5.1		DT3-V	6
				4	4.0	2.1	5.1		DT4-V	6
				5	5.0	2.7	6.2		DT5-V	6
ROOF PIECE		Flat Roof Flashing			B	H	C			
				4	5.3	11.5	17.0		FRF4	6
				5	6.3	11.5	18.0		FRF5	6
		Angled Roof Flashing		3	5.0	6.0	16.0		ARF3	1
				4	6.0	6.0	17.0		ARF4	1
				5	7.0	6.0	18.0		ARF5	1
		Roof Jack		3	4.0	18.0			RJ3	6
				4	5.0	18.0			RJ4	6
				5	6.0	18.0			RJ5	6
		Storm Collar Pipe			D	A	H			
				4	4.0	7.8	23.6		SCP4	1
				5	5.0	8.9	25.2		SCP5	1
		Storm Collar		3	3.0	7.8	3.0		SCR3	6
				4	4.0	7.9	4.0		SCR4	6

Stainless Steel Venting for SV and DV Models SV DV

Part Name	Type	Description	Drawing	Size	Dimensions (inches)			Part Number	Qty/Box					
WALL PENETRATION	Horizontal	Wall Thimble			D	B	C							
				3	3.1	4.0	6.0	WT3	1					
				4	4.0	7.0	10.0	WT4	1					
				5	5.0	10.7	12.2	WT5	1					
WALL TERMINATION	Horizontal	Adjustable Wall Thimble w/ Built-in Hood Termination		Size	D	B	C	E	F	G				
				3	3.0	6.5	9.0	5.0- 6.0	0- 3.1	WT3-H-6	1			
								7.0- 9.0	0- 5.8	WT3-H-9	1			
								9.0- 14.5	0- 8.1	WT3-H-14	1			
				4	4.0	7.1	10.0	5.8	11.0	4.1- 7.8	1.5	0- 4.8	WT4-H-8-1	1
								6.0- 7.0			WT4-H-6	1		
								7.0- 8.0			WT4-H-7	1		
								8.0- 10.3		0- 5.6	WT4-H-10	1		
								10.5- 14.5		0- 11.1	WT4-H-14	1		
				5	5.0	10.7	12.2	5.0- 6.0					WT5-H-5	1
								6.0- 7.0					WT5-H-6	1
								7.0- 8.0					WT5-H-7	1
								8.0- 10.3		0- 6.6			WT5-H-10	1
								10.5- 14.5		0- 9.6			WT5-H-14	1
OUTDOOR VENT CAP		Vent Cap			B		H							
					7.9		6.2			VC-3	6			
					7.9		6.2			VC-4-1	6			
					18.9		7.6			VC-132	1			
SUPPORT		Strap		Size	D	A	H	C						
				3	3.0	4.0	4.6	1"		SS3-1	5 Sets			
							5.6	2"		SS3-2	5 Sets			
							6.6	3"		SS3-3	5 Sets			
							7.6	4"		SS3-4	5 Sets			
				4	4.0	4.7	5.7	1"		SS4-1	5 Sets			
							6.6	2"		SS4-2	5 Sets			
							8.7	4"		SS4-4	5 Sets			
							10.7	6"		SS4-6	5 Sets			
				5	5.0	6.0	6.8	1"		SS5-1	5 Sets			
							7.8	2"		SS5-2	5 Sets			
							9.8	4"		SS5-4	5 Sets			
							11.8	6"		SS5-6	5 Sets			
		Clamp		Size	D		C							
				3	3.0		6.0			SC3	5 Sets			
				4	4.0		6.0			SC4	5 Sets			
				5	5.0		7.0			SC5	5 Sets			
DIRECT VENT TERMINATION	Short	3.5" - 5.1"		Sleeve**	Termination** (L2)									
		5.1" - 8.3"		3.5" - 5.0"	7.0" - 8.5"				VT4-TS-5	1				
		8.3" - 14.6"		5.0" - 8.0"	8.5" - 12.0"				VT4-TS-8	1				
		14.6" - 27.2"		8.0" - 15.0"	12.0" - 18.0"				VT4-TS-14	1				
				15.0" - 27.0"	18.0" - 30.5"				VT4-TS-27	1				
	Long	3.5" - 5.1"		3.5" - 5.0"	7.0" - 8.5"				VT4-TL-5	1				
		5.1" - 8.3"		5.0" - 8.0"	8.5" - 12.0"				VT4-TL-8	1				
		8.3" - 14.6"		8.0" - 15.0"	12.0" - 18.0"				VT4-TL-14	1				
		14.6" - 27.2"		15.0" - 27.0"	18.0" - 30.5"				VT4-TL-27	1				
	Direct Vent	Vent Sleeve Cover		D	L1	D1								
				7.84	.281	4.84		FP-4	1					
FIRE STOP	Vertical	Fire Stop		D		C								
				3.4		15.0		FS3	6					
				4.4		18.0		FS4	6					
				5.4		20.4		FS5	6					

**Sleeve and termination (L2) can be adjusted in increments of 0.4"

PVC Venting for Condensing Models



3" PVC Concentric Horizontal Termination Kit

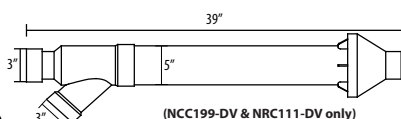
VK3-H-PVC

Specifications & Features:

3" Diameter for intake/exhaust

5" Diameter for termination

Easy Installation



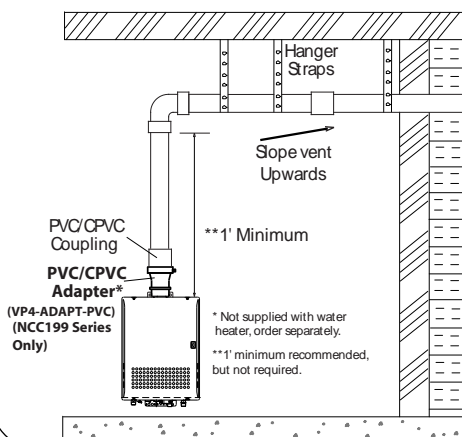
(NCC199-DV & NRC111-DV only)

NCC199 & NRC111 PVC Vent Pieces

Description	Part Number
Outdoor Vent Cap ¹	VC-4C
PVC Adapter ² (For NCC199 Series Only)	VP4x3-ADAPT-PVC (3") VP4-ADAPT-PVC (4")
Bird Screen for PVC ²	VT3-PVCS (3") VT4-PVCS (4")
Short Termination Adapter ³	VT4-TS-ADAPT

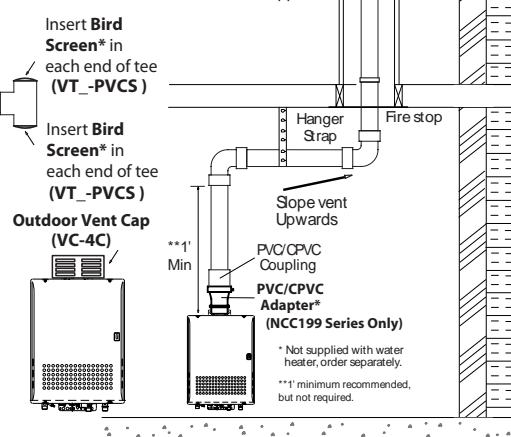
¹for NCC199 & NRC111 only. ²items required for use with PVC venting. ³for NCC199-DV only.

Horizontal Vent Termination- PVC/CPVC Materials Only



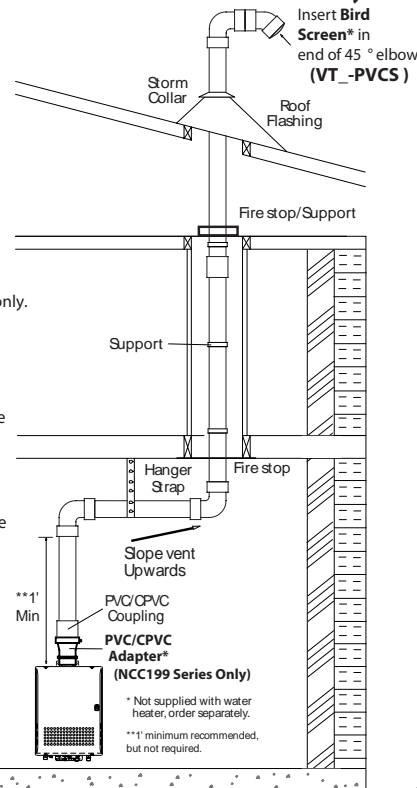
PVC/CPVC Coupling
PVC/CPVC Adapter*
(VP4-ADAPT-PVC)
(NCC199 Series Only)

* Not supplied with water heater, order separately.
**1' minimum recommended, but not required.



* Not supplied with water heater, order separately.
**1' minimum recommended, but not required.

Vertical Vent Termination PVC/CPVC Materials Only



Follow all vent system requirements in accordance with relevant local or state regulation, or, in the absence of local or state code, the National Fuel Gas Code ANSI Z233.1/NGPA 54- latest edition.

Warranty

12 Years

Residential Warranty

Noritz offers a 12-year residential warranty on the heat exchanger, a 5-year warranty on parts and 1-year reasonable labor. (Labor will be paid to an authorized Noritz Service Representative on pre-approved warranty repairs.)

5 Years

Commercial Warranty

Noritz offers a 5-year warranty on the heat exchanger and a 5-year warranty on parts.

10 Years

Boiler Warranty

Noritz offers a 10-year warranty on the heat exchanger and a 1-year warranty on parts.

Tax Credit/ Rebate Information

Federal Tax Credit



The Federal tax credit allows homeowners who install any of our ENERGY STAR models to claim 30% of the full purchase and installation price up to a maximum of \$1500. Units must be installed by December 31, 2010.

Local Utility Rebates



Many local utility companies are recognizing the benefits of tankless water heaters and are encouraging this through rebates. Check with your installer, local utility company or www.noritz.com/1500 for available rebates.

Accessories



Remote Controller

Pipe Cover

Isolation Valves

Recess Box

ScaleShield

Outdoor Junction Box

Temp/ Pressure Gauge

Accessories	Descriptions	Part Number	NR66		NR71		NR98			NRC111 NCC199		NR111 NC250			NC199		NC380	NH	
			SV	OD	SV	OD	SV	DVC	OD	SV	DV	SV	DV	OD	DVC	OD	SV	150	199
Remote Controller	Remote Controller	RC-7649M RC-7650M (CAN)	✓	✓	✓	✓	✓*		✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*		
Remote Controller Cord	10' Length	RC-CORD10	✓	✓	✓	✓	✓*		✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*		
	26' Length	RC-CORD26	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		
RC Outdoor Junction Box	RC-OJB	0700757	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓		✓		
Pipe Covers	Pipe Cover	PC-1S	✓	✓	✓	✓													
	Pipe Cover	PC-2S					✓		✓										
	Pipe Cover	PC-3S								✓ NRC111	✓ NRC111	✓	✓	✓					
	Stainless Steel	PC-3S-SUS								✓ NCC199	✓ NCC199				✓	✓			
	Stainless Steel	PC-4S-SUS															✓		
	Pipe Cover	PC-5S						✓											
Quick-Connect Cable	2-units only	QC-1					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
System Controller	Up to 6 units	SC-201-6M								✓ NCC199	✓ NCC199	✓	✓	✓	✓***	✓***	✓		
	Up to 12 Units	SC-201-12M								✓ NCC199	✓ NCC199	✓	✓	✓			✓		
	Up to 24 Units	SC-201-24M								✓ NCC199	✓ NCC199	✓	✓	✓			✓		
Isolation Valves	Isolation Valves (Includes Pressure Relief Valve)	IK-WV-7-TH	✓	✓	✓	✓	✓	✓	✓	✓	✓								
		IK-WV-7-SW	✓	✓	✓	✓	✓	✓	✓	✓	✓								
		IK-WV-8-TH										✓	✓	✓	✓	✓			
		IK-WV-8-SW										✓	✓	✓	✓	✓			
		IK-WV-9-TH															✓	✓	✓
		IK-WV-9-SW															✓	✓	✓
	Isolation Valve Adapter	IK-AK-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Recess Box	NR66-OD	RB-500		✓															
	NR71-OD	RB-600				✓													
	NR98-OD	RB-700						✓											
	NR111-OD	RB-900												✓					
ScaleShield	ScaleShield	SS-HB-1	✓	✓	✓	✓	✓	✓	✓	✓	✓								
		SS-HB-2										✓	✓	✓	✓	✓	✓**		
ScaleShield Refill Cartridges	1 Each	HBC-1	✓	✓	✓	✓	✓	✓	✓	✓	✓								
	1 Each	HBC-2										✓	✓	✓	✓	✓	✓**		
Temp/Pressure Gauge	(75 PSI, 320° F)	TPG1-30																✓*	✓*
Safety Relief Valve	Safety Relief Valve	HTGSRV-1																✓*	✓*
Anti-Freeze	Concentrate (2.68 Gal)	HGA-1																✓	✓

SV= Standard Vent, DV= Direct Vent, OD= Outdoor Model, DVC= Concentric Vent

* Included with heater purchase. ** Two units required. *** RC-Cords will need to be purchased.



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