



BUILDER'S GUIDE

2017

VERSION 1

NORITZ



THE NORITZ STORY

What We're All About

Noritz has been an innovator in the water heating industry for over 60 years offering the highest level of products throughout the world. We introduced the first modern, electronically controlled tankless water heater in 1981 and we remain the leader in energy savings and superior hot water delivery today. We continue to innovate new products and generate new ideas that exceed the demand of the US market.

Noritz prides itself in the highest quality of product and outstanding customer service that make doing business easier than ever before. Serving both homeowners & new construction users across the U.S. and Canada, Noritz America offers the most dynamic breadth of tankless gas water heaters to meet the varying needs of its broad base of consumers.

Find out more by visiting our website today www.noritz.com

Backed by 60 Years of Tankless Technology

FULL LINE OF ECO FRIENDLY TANKLESS WATER HEATER & COMBI BOILERS

SCALE DETECTION

Product quality that lasts is our strength. Only Noritz water heaters offer scale detection software that can dramatically prolong the life of your water heater and eliminate the possibility of catastrophic failure. Here is how it works. The software detects scale build up in the heat exchanger over time and warns the homeowner with a warning code before any damage is done that the water heater needs to be serviced. It will allow for homeowner use for a short period of time in order to get a service man out to the house. The service will be completed correctly bringing your heater back to its original status and allow for many more years of enjoyment. The next time scale builds up it will present a code again. This will never allow for catastrophic damage leaving homeowners hefty bills for expensive damage. The timing will vary depending on water quality.

MOBILE HOME APPROVED

Have a project that includes mobile homes? We have the solution with multiples heaters approved for mobile home use.



Title 24

Noritz has what you need to meet your title 24 needs.
Ask us how we can help!

Maximize Your Title 24 Points/Credits

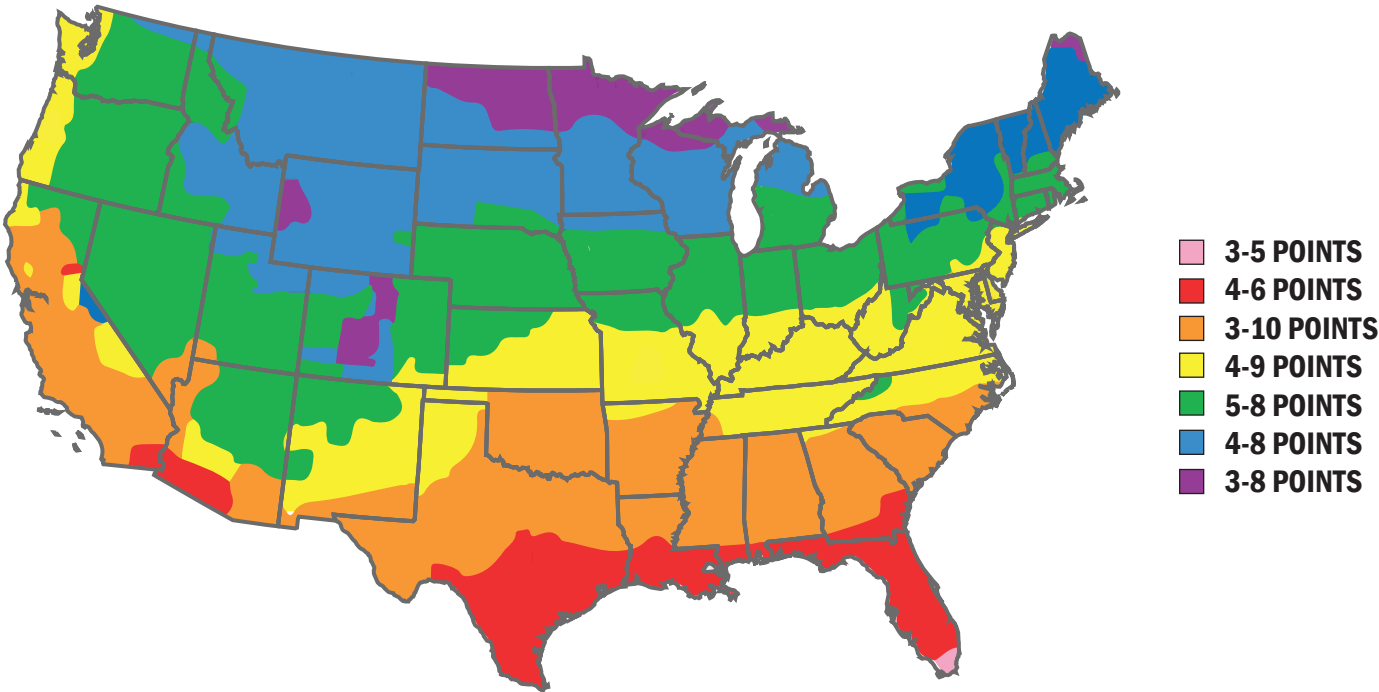
What is Title 24?

Title 24 is a California Energy Commission mandate that adopts and implements energy efficiency standards for both residential and nonresidential buildings. The Standard is meant impose cost effective (for the life cycle of the building) criteria to set a minimum level of building efficiency. This covers all aspects of building construction, including lighting, appliances, insulation, windows and doors, and controls. The overall purpose of the program is to ensure building construction, system design, and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. Applies to all new construction and building alterations.

HERS

Lower your HERS home index score by using the most efficient heaters in the market.

NR	MID	.82
NRC	HIGH	.92
NRCP	ULTRA	.96



Combi Boiler

- Corrosion Resistant
- Self Regulating Flow
- PVC, CPVC and PP Venting Capable
- 11:1 Turndown Ratio
- 1/2 Inch Gas Line
- High-Grade Stainless Steel Heat Exchangers
- Outdoor Temperature Reset Sensor
- External Pump Terminal
- Scalding Prevention for DHW Safety
- Up to 9.2 gpm
- High Capacity Internal Pump
- Maintains Set DHW Temp. in All Conditions

95% AFUE



WHOLE HOME HEATING SOLUTION

Noritz is excited to offer a new level of excellence to consumers with hydronic heating in their home can now install one water-heating appliance to meet both domestic hot water and space-heating needs. The CB Combination (Combi) Boiler from Noritz utilizes high-efficiency condensing technology to deliver hot water to both plumbing and hydronic heating applications even for larger homes.

SPECIFICATIONS

Model Name		CB180-DV	CB199-DV
Gas Input Rate (Domestic Hot Water Mode)	Max	180,000 BTUH	199,000 BTUH
	Min	18,000 BTUH	18,000 BTUH
Gas Input (Heating Mode)	Max	100,000 BTUH	120,000 BTUH
	Min	18,000 BTUH	18,000 BTUH
Hot Water Capacity Flow Rate	35 ° F Rise	9.2 GPM	9.2 GPM
	45 ° F Rise	7.2 GPM	7.7 GPM
	77 ° F Rise	4.2 GPM	4.5 GPM
Installation	Indoor Wall Hung		
Flue Sytem	Sealed Combustion Direct Vent, Single Vent		
Gas Pressure	NG	3.5" WC-10.5" WC	
	LP	8.0" WC-14.0" WC	
Combustion System	Combustion System	AFR Controlled	
	Burner	Pre-mix Metal Knit	
	Gas Valve	Negative Pressure	
	Minimum BTUH Control	AGM	
	Direction	Downward	
Heat Exchanger	Primary	SS304 (Austenite) : Heating	
	Secondary	SS304 (Austenite) : Heating	
	Plate Type Heat Exchanger	SS304 (Austenite)	
DHW Heating Priority		DHW Priority	

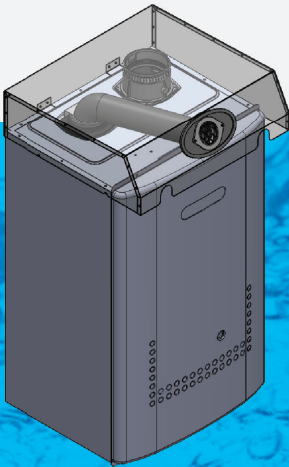


NRCP

RESIDENTIAL TANKLESS WITH PUMP

95% EF

- Built In Recirculation Pump
- 2" or 3" PVC, CPVC, PP Venting Options
- 2 Superior Grade Stainless Steel Heat Exchangers
- 1/2 Inch Gas Line
- Customizable Internal & External Recirculation
- Quick Connect & Common Venting with 2 units
- Built In Remote Controller
- Learning mode
- Precise recirculation control
- Internal or external recirc settings
- Diagnostic troubleshooting tool



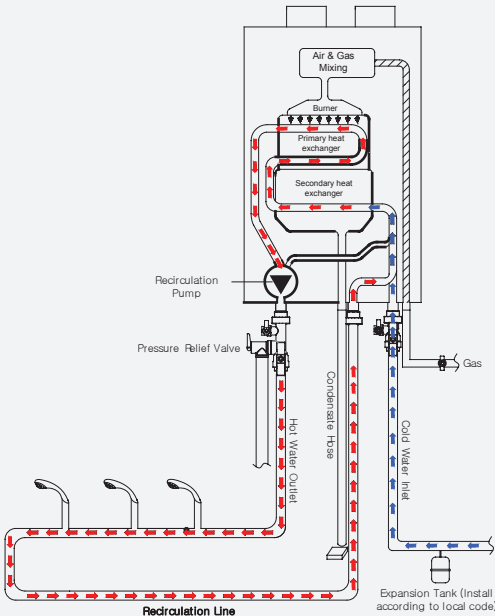
NEW OUTDOOR VENT KIT
AVAILABLE



Integrated On Demand Pump "T24"

FASTER HOT WATER

Noritz NRCP series heaters offer the latest cutting edge technology in tankless water heaters that will get you hot water fast! The NRCP1112 is an indoor condensing tankless water heater that can produce up to 11 gallons of hot water per minute. The NRCP features an internal pump that can be used in two different modes. External mode, combined with a return line, can keep the water in the pipes warm resulting in lower wait times for hot water.



SPECIFICATIONS

Model Name		NRCP982-DV	NRCP1112-DV
BTU Input Range		18,000-180,000	18,000-199,900
Max Flow Rate - Min Flow Rate		10.1 GPM - 0.5 GPM	11.1 GPM - 0.5 GPM
Flow Rate at $\Delta T =$	35 °F	9.6 GPM	10.6 GPM
	45 °F	7.8 GPM	8.6 GPM
	80 °F	3.8 GPM	4.7 GPM
Vent Line	2" PVC, CPVC, PP	Up to 50 FT.	
	3" PVC, CPVC, PP	Up to 100 FT.	
Venting - SV Conversion		CONVERSION KIT REQUIRED	
Weight		85 LBS.	
Pressure Drop		15 PSI @ 6 GPM	
Gas Supply Pressure		NG: 3.5" - 10.5" LP: 8.0" - 14.0"	
Connection Sizes	Water Inlet	3/4"	
	Hot Water Inlet	3/4"	
	Gas Inlet	3/4"	
	Condensing Drain	1/2"	
Max External Recirculation Loop	1/2" LINE	200 FT.	
	3/4" LINE	500 FT.	
Energy Factor		.95 EF	
Warranty		12 YRS HEAT EXCHANGER, 5 YRS. PARTS, 1 YR LABOR	
Temperature Settings		100 - 140 °F (IN 5 °F INTERVALS)	

Product

NRC	CONDENSING MODELS			
				
Model	NRC111	NRC98	NRC71	NRC66
Vent Type	☐ DV ☐ OD ☐ SV CONVERSION	☐ DV ☐ OD ☐ SV CONVERSION	☐ DV ☐ OD ☐ SV CONVERSION	☐ DV ☐ OD ☐ SV CONVERSION
Dimensions (inches)	24.2 X 18.3 X 9.4	24.2 X 18.3 X 9.4	DV: 23.6 X 13.8 X 6.7 OD: 20.5 X 13.8 X 6.7	DV: 23.6 X 13.8 X 6.7 OD: 20.5 X 13.8 X 6.7
Weight (lbs)	66 lbs.	66 lbs.	DV: 41 lbs. OD: 40 lbs.	DV: 39 lbs. OD: 36 lbs.
Min./Max. Btuh	16,000 - 199,900	16,000 - 180,000	15,000 - 157,000	15,000 - 120,000
Energy Factor	LP: 0.91, NG: 0.92	LP NG DV 0.92 0.91 OD 0.92 0.92	0.94	LP: 0.93, NG: 0.91
Max. Hot Water Capacity	35°F Rise: 11.1 gpm	35°F Rise: 9.8 gpm	35°F Rise: 7.1 gpm	35°F Rise: 6.6 gpm
Water Inlet	3/4"			
Hot Water Outlet	3/4"			
Gas Inlet (1/2 in capable)	3/4" (1/2 in. up to 40 ft)	3/4" (1/2 in. up to 50 ft)	3/4" (1/2 in. up to 70 ft)	1/2" (1/2 in. up to 100 ft)
Temp. Settings	100 - 140°F (in 5°F intervals)	100 - 140°F (in 5°F intervals)	115 - 140°F (in 5°F intervals)	115 - 140°F (in 5°F intervals)
Default Temp. Option	120, 130, 140°F	120, 130, 140°F	120, 130, 140°F	120, 140°F
Warranty	12-year warranty on heat exchanger, 5-year warranty on parts & 1-year reasonable labor*			
Ultra Low NOx	yes			
Quick Connect	yes	yes	no	no
Remote Included	yes	yes	digital display	digital display
Min/Max Flow Rate	0.5 GPM/11.1 GPM	0.5 GPM/9.8 GPM	0.5 GPM/7.1 GPM	0.5 GPM/6.6 GPM
High Altitude Approved	up to 8,000 ft			
Mobile Home Approved	yes			

*Refer to our warranty terms & conditions for more details.

☐ SV CONVERSION utilizes SV-CK-3

Line Up

NR	DURABLE MODELS		AFFORDABLE MODELS		
	 Low NOx	 Low NOx	 Low NOx	 Low NOx	
Model	NR98		NR83	NR66	NR50
Vent Type	SV DVC OD		DVC	OD	OD
Dimensions (inches)	SV/OD: 24.2 X 13.8 X 9.4 DVC: 24.2 X 13.8 X 11		24.2 X 13.8 X 9.4	20.5 X 13.8 X 6.7	20.5 X 13.8 X 6.7
Weight (lbs)	SV/OD: 54 lbs. DVC: 59 lbs.		49 lbs.	35 lbs.	32 lbs.
Min./Max. Btuh	16,000 - 199,900		18,000 - 180,000	15,000 - 140,000	15,000 - 120,000
Energy Factor	LP NG SV 0.88 0.83 DVC 0.88 0.82 OD 0.88 0.84		LP: 0.82, NG: 0.85	LP: 0.87, NG: 0.85	LP: 0.86, NG: 0.85
Max. Hot Water Capacity	35°F Rise: 9.8 gpm		35°F Rise: 8.3 gpm	35°F Rise: 6.6 gpm	35°F Rise: 5.0 gpm
Water Inlet	3/4"				
Hot Water Outlet	3/4"				
Gas Inlet (1/2 in. capable)	3/4" (1/2 in. up to 40 ft)		3/4" (1/2 in. up to 50 ft)	3/4" (1/2 in. up to 80ft)	1/2" (1/2 in. up to 100 ft)
Temp. Settings	100 - 140°F (in 5°F intervals)		100 - 140°F (in 5°F intervals)	115 - 140°F (in 5°F intervals)	115 - 140°F (in 5°F intervals)
Default Temp. Option	120, 130, 140°F		120, 140°F	120, 130, 140°F	120, 130, 140°F
Warranty	12-year warranty on heat exchanger, 5-year warranty on parts & 1-year reasonable labor*				
Ultra Low NOx	yes				
Quick Connect	yes		yes	no	no
Remote Included	yes		yes	digital display	digital display
Min/Max Flowrate	0.5 GPM/9.8 GPM		0.5 GPM/8.3 GPM	0.5 GPM/6.6 GPM	0.5 GPM/5.0 GPM
High Altitude Approved	up to 8,000 ft				
Mobile Home Approved	yes				

REFERENCES

Temp Rise (°F)	(NC380) Series	NRC111 (NCC199) NRCP1112 Series	NRC98 NR98 (NC199) NRCP982 Series	NR83 Series	NRC71 Series	NRC66 NR66 EZTR40 Series	NR50 Series	CB180	CB199
30	13.2	11.1	9.8	8.3	7.1	6.6	5.0	9.1	9.1
35	13.2	10.6	9.2	8.1	7.1	6.6	5.0	9.1	9.1
40	13.2	9.3	8.4	7.6	7.1	5.7	5.0	9.1	9.1
45	13.2	8.4	7.5	6.7	6.3	5.3	4.2	7.5	8.4
50	12.5	7.4	6.7	6.1	5.8	4.6	3.9	6.7	7.4
55	11.3	6.8	6.1	5.4	5.2	4.2	3.5	6.1	6.8
60	10.4	6.2	5.6	5.0	4.8	3.8	3.3	5.6	6.2
65	9.6	5.8	5.2	4.7	4.4	3.5	3.0	5.2	5.8
70	8.9	5.3	4.8	4.3	4.1	3.3	2.8	4.8	5.3
75	8.3	5.0	4.5	4.1	3.8	3.1	2.6	4.5	5.0
80	7.8	4.6	4.2	3.8	3.6	2.9	2.5	4.2	4.6
85	7.3	4.4	4.0	3.6	3.4	2.7	2.3	4.0	4.4
90	6.9	4.1	3.7	3.4	3.2	2.6	2.2	3.7	4.1
95	6.6	3.9	3.5	3.2	3.0	2.4	2.1	3.5	3.9
100	6.2	3.7	3.4	3.0	2.9	2.3	2.0	3.4	3.7

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

MODEL	SUMMER WATER SUPPLY (70°F)		WINTER WATER SUPPLY (45°F)	
	5.3 SHOWERS AT 13.2 GPM		4.2 SHOWERS AT 10.4 GPM	
NC380				
NRC111, NCC199 NRCP1112, CB199	4.1 SHOWERS AT 10.6 GPM		2.5 SHOWERS AT 6.2 GPM	
NRC98, NR98, NC1991, NRCP982, CB180	3.7 SHOWERS AT 9.2 GPM		2.2 SHOWERS AT 5.6 GPM	
NR83	3.3 SHOWERS AT 8.1 GPM		2.0 SHOWERS AT 5.0 GPM	
NRC71	3.1 SHOWERS AT 7.8 GPM		2.0 SHOWERS AT 4.8 GPM	
NR66	2.6 SHOWERS AT 6.6 GPM		1.5 SHOWERS AT 3.8 GPM	
NRC66, EZTR40	2.6 SHOWERS AT 6.6 GPM		1.5 SHOWERS AT 3.8 GPM	
NR50	2.0 SHOWERS AT 5.0 GPM		1 SHOWER AT 3.3 GPM	

Assuming a standard 2.5 GPM shower head and 105°F output water temperature.
NC380, NC199 & NCC199 are commercial models.

VENT TYPE	RESIDENTIAL MODELS											COMMERCIAL MODELS		
	NR83	NR98		NRC66	NRC71	NRC98	NRC111	EZTR40	NRCP	CB180	CB199	NCC199	NC199	NC380
	DVC	DVC	SV	DV	DV	DV	DV	SVF	DV	DV	DV	DV	DVC	SV
4" CAT III VENT			✓											
5" CAT III VENT														✓
CONCENTRIC SS VENT	✓	✓											✓	
2" Flex Pipe								✓						
2" PVC VENT									✓	✓				
3" PVC VENT				✓	✓	✓	✓		✓	✓	✓	✓		
4" PVC VENT						✓	✓					✓		

OD models do not require venting.

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NEW BUILDER PACK

BNR83DVC & BNR98DVC

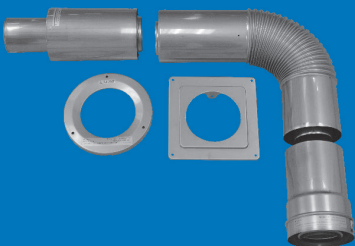


Home Size	Southern climate: 2-3 baths Northern climate: 1-2 baths	Southern climate: 3-4 baths Northern climate: 2 baths
Indoor Unit Dimensions	23.6" (H) x 13.8" (W) x 9.4" (D)	23.6" (H) x 13.8" (W) x 9.4" (D)
Weight	49 lbs.	58 lbs.
Gas Consumption	Min. 18,000 btuh Max. 180,000 btuh	Min. 16,000 btuh Max. 199,000 btuh
(NG & LP)	Natural Gas/Propane	Natural Gas/Propane
Capacity Range	0.5-8.3 Gal./min.	0.5-9.8 Gal./min.
Energy Factor	DVC: 0.82 (NG), 0.82 (LP)	DVC: 0.82 (NG), 0.82 (LP)
Thermal Efficiency	85%	84%
Temperature Settings	100-140° F (in 5° F Intervals) 9 options	100-140° F (in 5° F Intervals) 9 options



HEATER AND ACCESSORIES BUNDLED

CVK-H-F



IK-WV-200-1-TH-LF



BUNDLED ACCESSORIES



ACCESSORIES



COVER UP

Pipe Cover

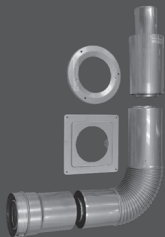
Increase the aesthetic appeal of your installation with our pipe cover accessory.



HIDE IT

Recess Box

Flush mount and conceal an outdoor heater in new construction.



HORIZONTAL INSTALL

Vent Pipe Horizontal Kit

The Complete horizontal vent kit for stainless steel concentric venting.



GO CONCENTRIC

PVC Concentric Termination

Terminate two 3 inch PVC vents into a single pipe horizontally or vertically.



GO VERTICAL

PVC Concentric Vertical Adapter Kit

This PVC adapter used in conjunction with the VK3-H-PVC allows for vertical venting.



GO HORIZONTAL

Plastic Horizontal Termination

Allows for horizontal venting. Not approved for Canada.



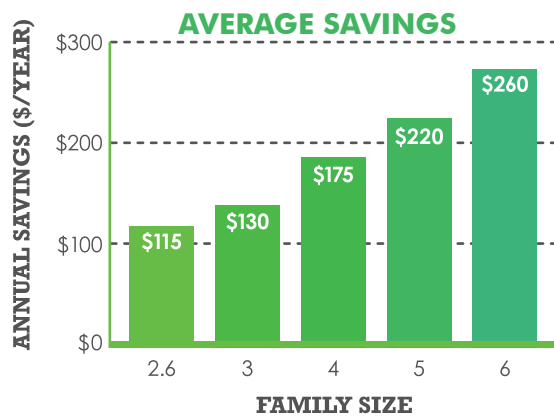
CONVERT IT

DV to SV Conversion Kit

Convert any Direct Vent heater to Single Vent.



THE NORITZ ADVANTAGE



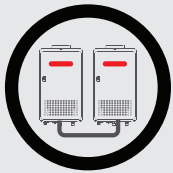
Source: http://www.energystar.gov/index.cfm?c=gas_tankless.pr_savings_benefits

REBATE PROGRAM



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/rebates for any available rebates in your area.

REDUNDANCY



Noritz Tankless water heaters can be linked to create redundancy, even with a unit not in operation, hot water will be delivered. By linking two units or more together you will also increase longevity to your units as they will rotate the primary unit after 8 hours of run time.

EFFICIENCY



Because of the modulating technology, a Noritz system heats water using only the energy necessary to meet the demand, reducing energy consumption significantly and saving on water heating costs. Innovative technology gives us higher efficiency and allows Noritz to offer PVC vented units making installation even easier.

VERSATILE INSTALLATION



Noritz units can be installed indoor or outdoor and because of its size and weight, they can be wall hung, making spaces once thought impossible, possible.



REST ASSURED WITH OUR
WARRANTY

12 YEARS HEAT EXCHANGER

1 YEAR LABOR

5 YEARS PARTS

QUESTIONS?

CONTACT US

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