NORITZ

ecoTOUGH™
Super Efficient. Reliable.

CONDENSING TANKLESS GAS WATER HEATER

Installation Manual

Models

NRCP1112-DV / NRCP982-DV (Eco TOUGH)

- **Natural Gas(NG) / Liquid Propane Gas (LP)**

Intertek

ENERGY STAR

AHRI CERTIFIED® www.ahridirectory.org

LEAD FREE Safe Drinking Water Act SDWA Section 1417

Low NOx Approved by SCAQMD 14ng/J or 20ppm (Natural Gas Only)

UPC

NSF®

Thank you for purchasing this Noritz Tankless Gas Water Heater.
Before using, please:
Read this guide completely for operation instructions.
Completely fill out the warranty registration card (included separately) and mail the detachable portion to Noritz America Corporation. Keep this guide (and the remainder of the warranty registration card) where it can be found whenever necessary.
Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54- latest edition and/or CSA B149.1, Natural Gas and Propane Installation Code (NSCNGPIC).
Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.

⚠ WARNING

If the information in these instructions is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or death.

– Do not store or use gasoline or other inflammable vapors and liquids in the vicinity of this or any other appliance.
– WHAT TO DO IF YOU SMELL GAS
  • Do not try to light any appliance.
  • Do not touch any electrical switch; do not use any phone in your building.
  • Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  • If you cannot reach your gas supplier, call the fire department.

– Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Rev.03/16

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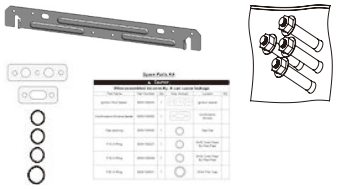
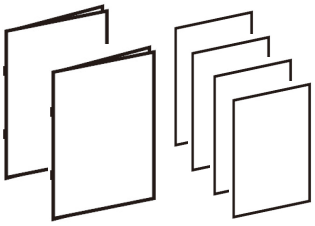
1-1. Included Accessories

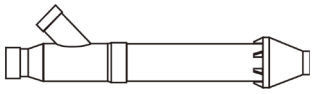
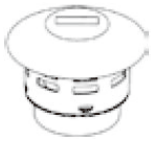
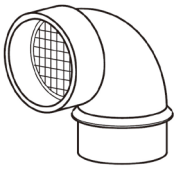
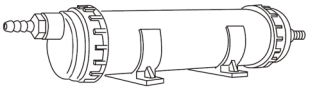
The following accessories are included with the unit. Check for any missing items before starting installation.

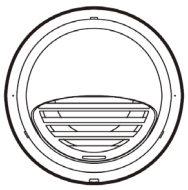
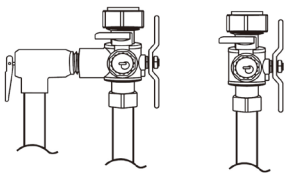
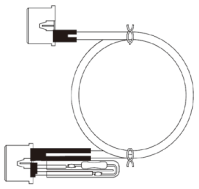
Part	Shape	Q'ty
Water Heater		1
Anchors / Wall mounting bracket / Emergency Kit		1 each

Part	Shape	Q'ty
Owner's Guide, Warranty Card, Installation Manual, Technical Data Sheet, Quick Installation Guide, Part List		1 each
Vent screens with Finishing (3")		2

1-2. Optional Accessories

The accessories listed below are not included with the unit, but may be necessary for installation.

Part	Shape	Q'ty
PVC Terminal VK3-H-PVC		1
VK3-PVC-VAS		1
PVC Terminal PRC-1		1
SV Conversion Kit (#SV-CK-3) •90 Elbow (With Inlet Screen)		1
Neutralizer (NC-1) (For 1 water heater)		1

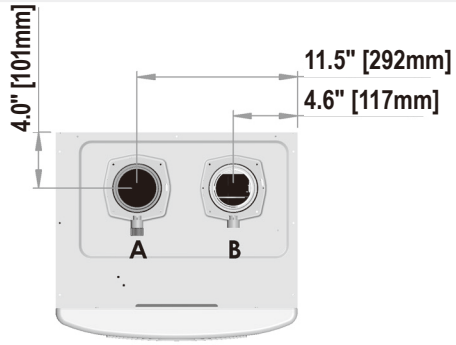
Part	Shape	Q'ty
Horizontal Hood Termination PVT-HL		1 each
Isolation Valves (includes pressure relief valve)		1 each
Vent screens with Finishing (2") (After market)		2
Quick Connect Cord QC-NRCP		1

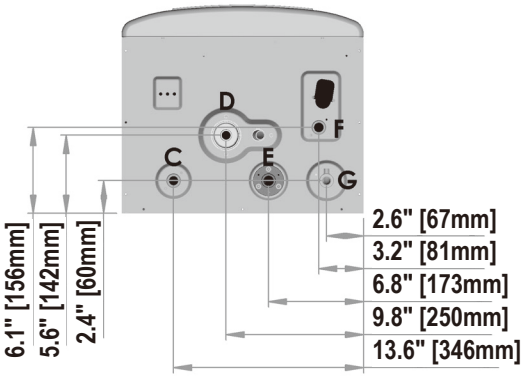
2-1. Specifications

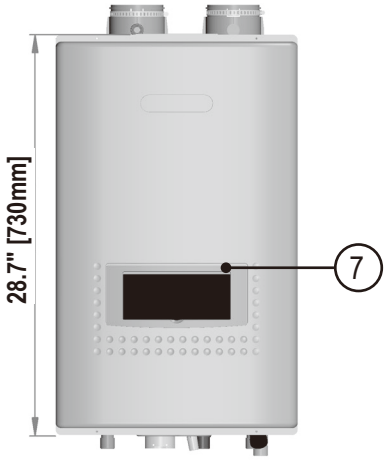
Specifications may be changed without prior notice.The capacity may differ slightly, depending on the water pressure, water supply, piping conditions, and water temperature.

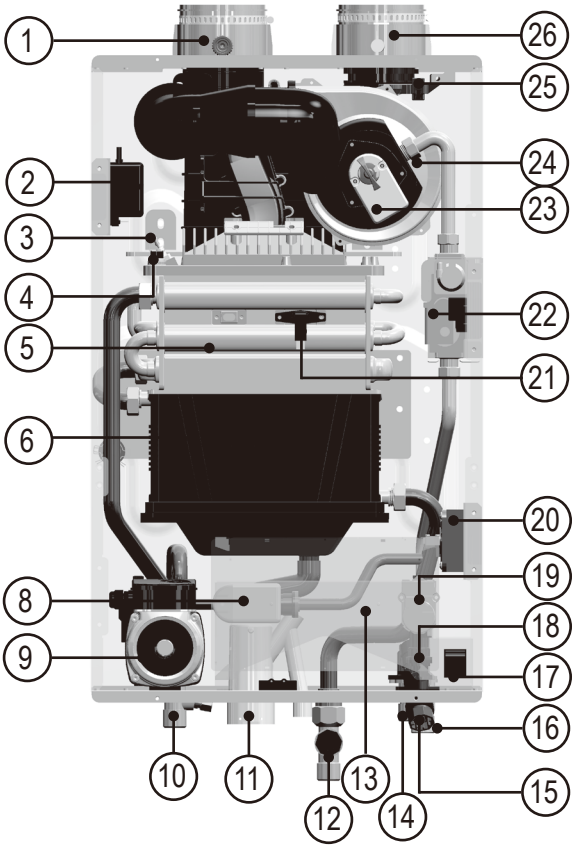
Model Name			NRCP1112-DV		NRCP982-DV	
Gas Input Rate	MAX		199,000 Btu/h		180,000 Btu/h	
	MIN		18,000 Btu/h		18,000 Btu/h	
	High Altitude (2,500~4,500ft)		180,000 Btu/h		180,000 Btu/h	
Hot Water Capacity	35°F Rise		11.1 Gal		10.1 Gal	
	45°F Rise		8.7 Gal		7.8 Gal	
	77°F Rise		5.1 Gal		4.6 Gal	
Installation			Indoor Wall Hung			
Flue System			Sealed Combustion Direct Vent, Single Vent			
Max Vent Run			2"(50ft) / 3"(100ft) Schedule 40 PVC, CPVC, PP			
Orifice Size	NG (Gas / Needle)		0.381"(9.7mm) / 0.389"(9.9mm)			
	LP (Gas / Needle)		0.307"(7.8mm) / 0.315"(8.0mm)			
Gas Supply Pressure	NG		3.5″ WC to 10.5″ WC			
	LP		8.0″ WC to 14″ WC			
Manifold Pressure	Gas Type		NG	LP	NG	LP
	Low Fire	2" VENT	-0.03 WC	-0.06 WC	-0.03 WC	-0.06 WC
		3" VENT	-0.03 WC	-0.06 WC	-0.03 WC	-0.06 WC
	High Fire	2" VENT	-0.04 WC	-0.07 WC	-0.04 WC	-0.07 WC
		3" VENT	-0.04 WC	-0.07 WC	-0.04 WC	-0.07 WC
Power Supply	Main Supply		120V 60Hz			
	Maximum Power Consumption		172W(82W+90W_PUMP)			
Ignition System			Direct Electronic Ignition / Automatic Flame Sensing			
Burner System			Premixed Metal Fiber Burner			
Gas Valve System			Air ratio valve			
Minimum Flow Activation Flow			0.5 GPM			
Internal Pipe Material			STS 304, Copper Tubing			
Dimensions			W17.3" – H28.7" – D14.8"			
Weight			85 lbs			
Water Holding Capacity			Under 2 Gallon			
Control Panel / Main Controller			P-950C / NGTH-9700C			
Water Pressure	MAX		Hot water 150 psi			
	MIN		15 psi			
Materials	Casing		Cold Rolled Carbon Steel			
	Heat Exchanger		Heat Exchanger : STS 304			
Safety Devices			Flame Sensor, Overheat Cut Off Limit Switch , Gas Leak Detector sensor, Water Leak Detector Sensor Exhaust Temperature Sensor, Water Temperature Sensor			

2-2. Dimensions & Connections









	Description	Size
A	Exhaust	3"
B	Air Intake	3"
C	Hot Water	3/4"
D	Condensate	1/2"
E	Recirculation Return	3/4"
F	Cold Water	3/4"
G	Gas	3/4"

NO	Name of Component
1	Exhaust
2	Igniter
3	Ignition Plug
4	Burner High Limit Switch
5	Primary Heat Exchanger
6	Secondary Heat Exchanger
7	Control Panel
8	Water Mixing Valve
9	Recirculation Pump
10	Hot Water Connection
11	Condensate Trap
12	Recirculation Return Connection with Filter
13	Computer Board
14	Cold Water Connection
15	Cold Water Filter
16	Gas Connection
17	Manual Power Switch
18	Flow Sensor
19	Water Control Valve
20	Air Pressure Switch
21	Flame Sensor
22	Gas Valve
23	AGM (Air Gas Mixer)
24	Fan Motor
25	Internal Air Intake Filter
26	Air Intake