

POCKET GUIDE

Rheem Residential water heaters



Ask about our
ENERGY STAR®
product lines.



Gas & Electric Tankless • Gas & Electric Tank • Solar • On-Line Product Guide: rheem.com



Ask about our
ENERGY STAR®
product lines

Rheem National Customer Service

- Division Office **334-260-1500**
- Customer Service, Warranty, Parts **1-800-621-5622**
- Fax **1-800-535-9538**
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- Technical Service for Heat Pump Water Heater **1-800-995-0982**
- Email **sales@rheem.com**
- Website/On-Line Product Guide **rheem.com**



In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating and Heating & Cooling Products
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Residential water heaters
from Rheem



relax
It's Rheem®

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ENERGY STAR® Qualified Water Heaters



Exciting News!

Rheem's continued commitment to safeguarding our environment and bringing energy savings to consumers across North America has culminated in a partnership with ENERGY STAR® to provide a number of energy saving products that meet the stringent ENERGY STAR® criteria for water heaters.

What is ENERGY STAR®?

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. Results are already adding up. Americans, with the help of ENERGY STAR®, saved enough energy in 2007 alone to avoid greenhouse gas emissions equivalent to those from 27 million cars – all while saving \$16 billion on their utility bills.

Energy efficient choices can save families about a third on their energy bill with similar savings of greenhouse gas emissions, without sacrificing features, style or comfort. ENERGY STAR® helps you make the energy efficient choice.

- If looking for new household products, look for ones that have earned the ENERGY STAR®. They meet strict energy efficiency guidelines set by the EPA and US Department of Energy
- If looking for a new home, look for one that has earned the ENERGY STAR®
- If looking to make larger improvements to your home, EPA offers tools and resources to help you plan and undertake projects to reduce your energy bills and improve home comfort

ENERGY STAR® Criteria

- A minimum Energy Factor of 0.67 for gas storage type models
- A minimum Energy Factor of 0.82 for whole-home gas tankless water heaters
- A minimum First-Hour Rating requirement of 67 gallons-per-hour, to ensure models earning the label provide sufficient hot water delivery
- A minimum six-year limited warranty
- Compliance with ANSI Z21.10.1/CSA 4.1

What Products Qualify?

See the chart on the next page for residential water heater product classes that are eligible for ENERGY STAR®

ENERGY STAR® RESIDENTIAL WATER HEATER PRODUCT CLASSES				
Water Heating Category	Energy Factor	First Hour Rating	Warranty Period	Product Category Requirements
Gas Storage (Beginning 9/01/2010)	EF ≥ 0.67	FHR ≥ 67 gallons / hr	Warranty ≥ 6 years on sealed system	A nominal input of 75,000 BTU/hour or less and a rated storage volume from 20 to 100 gallons
Heat Pump Water Heater	EF ≥ 2.0	FHR ≥ 50 gallons / hr	Warranty ≥ 6 years on sealed system	A maximum current rating of 24 amperes, voltage no greater than 250 volts, and a transfer of thermal energy from one temperature to a higher temperature level for the purpose of heating water. Unit must "integrated" or "drop in" configuration.
Whole-Home Gas Tankless	EF ≥ 0.82	GPM ≥ 2.5 over a 77°F rise	Warranty ≥ 10 years on heat exchanger & 5 years on parts	A nominal input of over 50,000 BTU/hour up to 200,000 BTU/hour and a rated storage of 2 gallons or less
Solar Water Heaters	SF ≥ 0.50	N/A	Warranty ≥ 10 years on solar collector, 6 years on storage tank, 2 years on controls, and 1 year for piping and parts	OG-300 rating from the SRCC

What Rheem Products Will Qualify?

- Gas fired storage type water heaters with 0.67 EF or higher
- PowerVent models
- Whole-home gas tankless models
- Heat Pump electric models

Rheem Tankless Models

Direct Vents

- ★ RTG-53DVN
- ★ RTG-53DVP
- ★ RTG-66DVN*
- ★ RTG-66DVP*
- ★ RTG-64DVN*
- ★ RTG-64DVP*
- ★ RTG-84DVN*
- ★ RTG-84DVP*
- ★ RTG-95DVN*
- ★ RTG-95DVP*
- ★ RTGH-95DVN
- ★ RTGH-95DVP

Outdoor

- ★ RTG-53XN
- ★ RTG-53XP
- ★ RTG-66XN*
- ★ RTG-66XP*
- ★ RTG-64XN*
- ★ RTG-64XP*
- ★ RTG-84XN*
- ★ RTG-84XP*
- ★ RTG-95XN*
- ★ RTG-95XP*
- ★ RTGH-95XN
- ★ RTGH-95XP

* Model may have a -1, -2, -3 suffix

Rheem Tank Models

Gas

Short Atmospheric

- ★ PRO40SE2
- ★ PRO50SE2
- ★ 43V40SE2
- ★ 43V50SE2
- NEW! Coming 4th Quarter 2010**

Tall Atmospheric

- ★ PRO40E2
- ★ PRO50E2
- ★ PRO50-50E2
- ★ 43V40E2
- ★ 43V50E2
- ★ 43V50-50E2
- NEW! Coming 4th Quarter 2010**

Tall Hi-Input Atmospheric

- ★ 43V50-50E2
- NEW! Coming 4th Quarter 2010**

Ultra Low NOx Atmospheric

- ★ PRO40NE2
- ★ PRO50NE2
- ★ 23V40NE2
- ★ 23V50NE2
- NEW! Coming 4th Quarter 2010**

Short PowerVent

- ★ 43VP40SE2 **NEW!**
- ★ 43VP50SE2 **NEW!**

Tall PowerVent

- ★ 43VP40E2 **NEW!**
- ★ 43VP50E2 **NEW!**

PowerVent Ultra Low NOx

- ★ 42VP40FN
- ★ 42VP50FN

PowerVent Electronic Control

- ★ 43VP40E2-E **NEW!**
- ★ 43VP40SE2-E **NEW!**
- ★ 43VP50E2-E **NEW!**
- ★ 43VP50SE2-E **NEW!**

Power Direct Vent

- ★ PDV40
- ★ PDV50

Electric

Hybrid Heat Pump

- ★ HP40RH **NEW!**
- ★ HP50RH

Prestige™ High-Efficiency Condensing Tankless Series – For 3 Bathroom Homes*



NEW!

199,900 BTU
INDOOR DI-
RECT VENT

199,900 BTU
OUTDOOR

RTGH-95DV indoor direct vent and RTGH-95X outdoor natural and LP models – 11,000 - 199,900 BTU max.

9.5 gal./min at 35° F rise max.,
8.4 gal./min. at 45° F rise

Limited Warranty:

12-Year on heat exchanger, 5-Year on parts, 1-Year on labor

See Residential Warranty Certificate for complete warranty information.

- 94% efficient with stainless steel condensing heat exchanger
- 2-Pipe Direct Vent System designed for PVC Pipe, See instructions for details
- Up to 35 ft. of 3" PVC Pipe or 5 ft. of 2" PVC Pipe, See instructions for details
- **Industry Best!** .26 GPM Minimum Flow Rate, .40 GPM Minimum Activation Flow Rate
- Digital (UMC-117) remote control and 10 ft. of thermostat wire included

- EZ-Link™ cable available for high demand applications to connect two tankless units to operate as one
- Manifold up to 6 units with an optional MIC-6 manifold control board
- Manifold up to 20 units with the optional MIC-180 plus the MICS-180 manifold control assembly
- High-altitude capability – up to 9,840 ft. elevation above sea level (no chip required)
- **Exclusive!** Guardian™ overheat film wrap (OFW)
- All Rheem tankless models are third-party efficiency listed by AHRI
- Continuous hot water, energy saving and compact, space saving design
- Intelligent electronic controls designed to increase energy efficiency and safety
- Self Diagnostic System

- Digital display shows temperature setting and maintenance codes
- Built-in electric blower
- Supplied with a 120 volt power cord (indoor models only)
- Environmentally friendly Low NOx burner meets SCAQMD rule 1146 requirements
- Freeze protection to -30° F

Product appearance may differ.

* Based on simultaneous showers using 2.5 gallons per minute. Flow rates vary depending on temperature of cold water supply.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



PENDING

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.		
MODEL NUMBER	GAS INPUT BTU/HR.	TYPE	TEMP. RANGE	MIN. FLOW /ACTIVATION GPM	GPM @ 77° RISE MAX.	GPM @ 45° RISE MAX.	MAX. GPM	CONNECTION		HEIGHT	WIDTH	DEPTH	VENT DIAMETER	SHIP. WEIGHT (LBS.)	ENERGY FACTOR	% OF THERM. EFFICIENCY	D.O.E. ANN. OP. COST NAT/LP
								WATER	GAS								
★RTGH-95DVN	11,000-199,900	Indoor Direct Vent	85° to 140° F	.26/.40	4.9	8.4	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	3" PVC 2-Pipe	82	.94	94%	194/326
★RTGH-95XN	11,000-199,900	Outdoor	85° to 140° F	.26/.40	4.9	8.4	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	.94	94%	194/326

★ Energy Star compliant model.

All models are available in Natural Gas and Propane (LP). For Propane replace the N with P when ordering.

- Factory set maximum temperature is 120° F. See Use and Care Manual for setting.
- Consult factory for information on sizing the application.

Vent Termination Kits are required for Direct Vent models. Contact your distributor for details.

Proper gas pressure must be ensured to supply tankless gas water heaters – up to 199,900 BTU for RTGH-95 models. (Consult your gas supplier)

Model Number	Temperature Rise (° F)									
	35°	45°	50°	60°	70°	77°	80°	90°	100°	
RTGH-95 Water Flow (GPM)	9.5	8.4	7.6	6.3	5.4	4.9	4.7	4.2	3.8	

Above estimates are for sizing purposes only.

64 Mid-Efficiency Tankless Series – For 1-2 Bathroom Homes*



RTG-64DV indoor direct vent and RTG-64X outdoor natural and LP models – 11,000 - 150,000 BTU max.

6.4 gal./min at 35° F rise max.,
5.6 gal./min. at 45° F rise

Limited Warranty:

**12-Year on heat exchanger, 5-Year on parts,
1-Year on labor**

See Residential Warranty Certificate for complete
warranty information.

- **New!** 3"/5" Concentric Vent System with Integrated Condensate Collector
- Connects to Metal Fab Inc., 3"/5" Concentric Venting without an adapter
- **New!** Next Generation Burner Technology
- **Industry Best!** .26 GPM Minimum Flow Rate, .40 GPM Minimum Activation Flow Rate
- UMC-117 remote control and 10 ft. of thermostat wire is included

- EZ-Link™ cable available for high demand applications to connect two tankless units to operate as one
- **New!** Manifold up to 6 units with an optional MIC-6 manifold control board
- **Exclusive!** All Rheem models can be linked in up to 20 unit manifold installations by using the optional MIC-180 and MICS-180 manifold control assembly
- High-altitude capability – up to 9,840 ft. elevation above sea level (no chip required)
- **Exclusive!** Guardian OFW™ overheat film wrap
- All Rheem tankless models are third-party efficiency certified by AHRI
- Continuous hot water, energy saving and compact, space saving design
- Intelligent electronic controls designed to increase energy efficiency and safety
- Self Diagnostic System

- Digital display shows temperature setting and maintenance codes
- Built-in electric blower
- Supplied with a 120 volt power cord
- Environmentally friendly Low NOx burner meets SCAQMD rule 1146 requirements
- Freeze protection to -30° F

Product appearance may differ.

* Based on simultaneous showers using 2.5 gallons per minute. Flow rates vary depending on temperature of cold water supply.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.	
MODEL NUMBER	GAS INPUT BTU/HR.	TYPE	TEMP. RANGE	WATER FLOW RATE			CONNECTION		HEIGHT	WIDTH	DEPTH	VENT DIAMETER (INCHES)	SHIP. WEIGHT (LBS.)	ENERGY FACTOR	D.O.E. ANN. OP. COST NAT/LP
				GPM @ 77° RISE MAX.	GPM @ 45° RISE MAX.	GPM @ 35° RISE MAX.	WATER	GAS							
★RTG-64DVN	11,000 - 150,000	Indoor Direct Vent	85° to 140° F	3.3	5.6	6.4	3/4	3/4	25-5/8	13-7/8	9-7/8	3 by 5 CONCENTRIC	54	.82	\$223/\$374
★RTG-64XN	11,000 - 150,000	Outdoor	85° to 140° F	3.3	5.6	6.4	3/4	3/4	23-5/8	13-7/8	8-7/8	N/A	54	.82	\$223/\$374

★ Energy Star compliant model.

All models are available in Natural Gas and Propane (LP).

For Propane replace the N with P when ordering.

- Factory set maximum temperature is 120° F. See Use and Care Manual for setting.
- Consult factory for information on sizing the application.

Vent Termination Kits are required for Direct Vent models.

Contact your distributor for details.

Proper gas pressure must be ensured to supply tankless gas water heaters – up to 150,000 BTU for RTG-64 models. (Consult your gas supplier)

Model Number	Temperature Rise (° F)									
	35°	45°	50°	60°	70°	77°	80°	90°	100°	
RTG-64 Water Flow (GPM)	6.4	5.6	5.1	4.2	3.6	3.3	3.2	2.8	2.5	

Above estimates are for sizing purposes only.

84 Mid-Efficiency Tankless Series – For 2-3 Bathroom Homes*



RTG-84DV indoor direct vent and RTG-84X outdoor natural and LP models – 11,000 - 180,000 BTU max.

8.4 gal./min at 35° F rise max.,
6.7 gal./min. at 45° F rise

Limited Warranty:

12-Year on heat exchanger, 5-Year on parts, 1-Year on labor

See Residential Warranty Certificate for complete warranty information.

- **New!** 3"/5" Concentric Vent System with Integrated Condensate Collector
- Connects to Metal Fab Inc., 3"/5" Concentric Venting without an adapter
- **New!** Next Generation Burner Technology
- **Industry Best!** .26 GPM Minimum Flow Rate, .40 GPM Minimum Activation Flow Rate
- UMC-117 remote control and 10 ft. of thermostat wire is included

- EZ-Link™ cable available for high demand applications to connect two tankless units to operate as one
- **New!** Manifold up to 6 units with an optional MIC-6 manifold control board
- **Exclusive!** All Rheem models can be linked in up to 20 unit manifold installations by using the optional MIC-180 and MICS-180 manifold control assembly
- High-altitude capability – up to 9,840 ft. elevation above sea level (no chip required)
- **Exclusive!** Guardian OFW™ overheat film wrap
- All Rheem tankless models are third-party efficiency certified by AHRI
- Continuous hot water, energy saving and compact, space saving design
- Intelligent electronic controls designed to increase energy efficiency and safety
- Self Diagnostic System

- Digital display shows temperature setting and maintenance codes
- Built-in electric blower
- Supplied with a 120 volt power cord
- Environmentally friendly Low NOx burner meets SCAQMD rule 1146 requirements
- Freeze protection to -30° F

Product appearance may differ.

* Based on simultaneous showers using 2.5 gallons per minute. Flow rates vary depending on temperature of cold water supply.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.	
MODEL NUMBER	GAS INPUT BTU/HR.	TYPE	TEMP. RANGE	WATER FLOW RATE			CONNECTION		HEIGHT	WIDTH	DEPTH	VENT DIAMETER (INCHES)	SHIP. WEIGHT (LBS.)	ENERGY FACTOR	D.O.E. ANN. OP. COST NAT/LP
				GPM @ 77° RISE MAX.	GPM @ 45° RISE MAX.	GPM @ 35° RISE MAX.	WATER	GAS							
★RTG-84DVN	11,000-180,000	Indoor Direct Vent	85° to 140° F	3.9	6.7	8.4	3/4	3/4	25-5/8	13-7/8	9-7/8	3 by 5 CONCENTRIC	54	.82	\$223/\$374
★RTG-84XN	11,000-180,000	Outdoor	85° to 140° F	3.9	6.7	8.4	3/4	3/4	23-5/8	13-7/8	8-7/8	N/A	54	.82	\$223/\$374

★ Energy Star compliant model.

All models are available in Natural Gas and Propane (LP).

For Propane replace the N with P when ordering.

- Factory set maximum temperature is 120° F. See Use and Care Manual for setting.
- Consult factory for information on sizing the application.

Vent Termination Kits are required for Direct Vent models.

Contact your distributor for details.

Proper gas pressure must be ensured to supply tankless gas water heaters – up to 180,000 BTU for RTG-84 models. (Consult your gas supplier)

Model Number	Temperature Rise (° F)									
	35°	45°	50°	60°	70°	77°	80°	90°	100°	
RTG-84 Water Flow (GPM)	8.4	6.7	6.1	5.1	4.3	3.9	3.8	3.4	3.0	

Above estimates are for sizing purposes only.

95 Mid-Efficiency Tankless Series – For 3 Bathroom Homes*



RTG-95DV indoor direct vent and RTG-95X outdoor natural and LP models – 11,000 - 199,900 BTU max.

9.5 gal./min at 35° F rise max.,
7.4 gal./min. at 45° F rise

Limited Warranty:

12-Year on heat exchanger, 5-Year on parts, 1-Year on labor

See Residential Warranty Certificate for complete warranty information.

- **New!** 3"/5" Concentric Vent System with Integrated Condensate Collector
- Connects to Metal Fab Inc., 3"/5" Concentric Venting without an adapter
- **New!** Next Generation Burner Technology
- **Industry Best!** .26 GPM Minimum Flow Rate, .40 GPM Minimum Activation Flow Rate
- UMC-117 remote control and 10 ft. of thermostat wire is included

- EZ-Link™ cable available for high demand applications to connect two tankless units to operate as one
- **New!** Manifold up to 6 units with an optional MIC-6 manifold control board
- **Exclusive!** All Rheem models can be linked in up to 20 unit manifold installations by using the optional MIC-180 and MICS-180 manifold control assembly
- High-altitude capability – up to 9,840 ft. elevation above sea level (no chip required)
- **Exclusive!** Guardian OFW™ overheat film wrap
- All Rheem tankless models are third-party efficiency certified by AHRI
- Continuous hot water, energy saving and compact, space saving design
- Intelligent electronic controls designed to increase energy efficiency and safety
- Self Diagnostic System

- Digital display shows temperature setting and maintenance codes
- Built-in electric blower
- Supplied with a 120 volt power cord
- Environmentally friendly Low NOx burner meets SCAQMD rule 1146 requirements
- Freeze protection to -30° F

Product appearance may differ.

* Based on simultaneous showers using 2.5 gallons per minute. Flow rates vary depending on temperature of cold water supply.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.	
MODEL NUMBER	GAS INPUT BTU/HR.	TYPE	TEMP. RANGE	WATER FLOW RATE			CONNECTION		HEIGHT	WIDTH	DEPTH	VENT DIAMETER (INCHES)	SHIP. WEIGHT (LBS.)	ENERGY FACTOR	D.O.E. ANN. OP. COST NAT/LP
				GPM @ 77° RISE MAX.	GPM @ 45° RISE MAX.	GPM @ 35° RISE MAX.	WATER	GAS							
★RTG-95DVN	11,000-199,900	Indoor Direct Vent	85° to 140° F	4.4	7.4	9.5	3/4	3/4	25-5/8	13-7/8	9-7/8	3 by 5 CONCENTRIC	54	.82	\$223/\$374
★RTG-95XN	11,000-199,900	Outdoor	85° to 140° F	4.4	7.4	9.5	3/4	3/4	23-5/8	13-7/8	8-7/8	N/A	54	.82	\$223/\$374

★ Energy Star compliant model.

All models are available in Natural Gas and Propane (LP). For Propane replace the N with P when ordering.

- Factory set maximum temperature is 120° F. See Use and Care Manual for setting.
- Consult factory for information on sizing the application.

Vent Termination Kits are required for Direct Vent models. Contact your distributor for details.

Proper gas pressure must be ensured to supply tankless gas water heaters – up to 199,900 BTU for RTG-95 models. (Consult your gas supplier)

Model Number	Temperature Rise (° F)									
	35°	45°	50°	60°	70°	77°	80°	90°	100°	
RTG-95 Water Flow (GPM)	9.5	7.4	6.6	5.5	4.7	4.4	4.1	3.7	3.3	

Above estimates are for sizing purposes only.

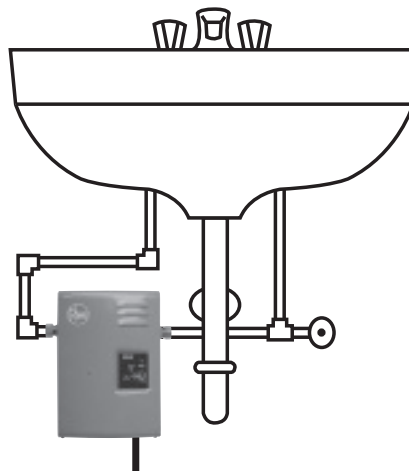
Tankless Electric Series – Continuous Hot Water on Demand



► 10-Year Limited Heat Exchanger Warranty* ► 1-Year Limited Parts Warranty*

- Ideal for point-of-use applications
- Regulates power to provide a more consistent water temperature and energy savings
- Continuous hot water on demand
- Energy efficient
- Compact design – fits almost anywhere
- On-unit temperature control
- LEDs indicate active element and standby mode
- Standard 1/2" water connection
- Rugged brass/copper heat exchanger

* See Residential Warranty Certificate for complete warranty information.



Applications

- Homes
- Apartments
- Condos
- Hospitals
- Hotels
- Boats
- Restaurants
- Offices
- Laboratories

...anywhere hot water is needed!

DIMENSIONS (inches / pounds)

MODEL	LENGTH	WIDTH	WEIGHT
RTE 3	10-1/4	5-3/8	6
RTE 7	10-1/4	5-3/8	6
RTE 9	10	7-1/4	8
RTE 13	10	7-1/4	8
RTE 18	10-1/2	11-1/4	12
RTE 27	10-1/2	11-1/4	12

• Plumbing connections: 1/2 NPT • Minimum flow rate: 1/2 gal. min.

ELECTRICAL SPECIFICATIONS

MODEL	KW	VOLTS	REQ. BREAKER	MAX POWER (AMP)	AWG WIRE
RTE 3	3	110	30	29	10
RTE 7	7	240	30	29	10
RTE 9	9	240	40	38	8
RTE 13	13	240	60	54	6
RTE 18	18	240	(2) 40	75	(2) 8
RTE 27	27	240	(2) 60	112	(2) 6

APPLICATION

APPLICATION	FLOW RATE IN GPM AT 60 PSI
Typical Shower	1.5 to 2.0 GPM Max. 2.5 GPM
Typical Bath Tub Faucet	2.0 to 3.0 GPM
Bathroom Vanity Sink Faucet	0.5 to 1.5 GPM
Kitchen Sink Faucet	1.0 to 2.2 GPM
Washer	1.5 to 3.0 GPM

TEMPERATURE RISE AND GPM FLOW

MODEL NUMBER	MINIMUM ACTIVATION FLOW RATE (GPM)	MAX. FLOW RATE (GPM)	KW @ 240V	TEMPERATURE RISE CHART (F°) AND FLOW RATES BY MODEL									
				20°	30°	40°	50°	60°	70°	80°	90°	100°	
RTE 3	0.4	1.5	—	1.5	1.0	0.7	0.5						
RTE 7	0.4	2.5	7	2.5	2.4	1.6	1.1	0.8	0.5				
RTE 9	0.4	3	9	3.0	3.0	2.2	1.5	1.0	0.7	0.5			
RTE 13	0.4	4	13	4.0	4.0	3.0	2.1	1.4	1.0	0.7	0.4		
RTE 18	0.4	5	18	5.0	5.0	3.9	2.6	1.8	1.2	0.8	0.6		
RTE 27	0.4	5	27	5.0	5.0	5.0	4.0	2.7	1.8	1.2	0.9	0.6	



**ENERGY STAR®
Phase II**

Available in 38 and 50 Gallon Tall – 40 and 50 Gallon Short Gas Models

- ▶ **8-Year Limited Tank and Parts Warranty with a Professional Installation.***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Energy Efficient Damper Design

- 24 VAC Powered flue damper
- Higher energy factors
- Lower stand-by losses
- More hot water at a lower operating cost



Self-Diagnostic System

- Integrated self-diagnostic system control takes away the guesswork

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation



Longer Life

- Patented magnesium anode rod design incorporates a special resistor which protects the tank from rust.

High Altitude Compliant

- 50 gallon 50k BTU product certified for applications up to 6,000 feet above sea level
- All other models certified for applications up to 10,200 feet above sea level

Plus...

- Environmentally friendly burner – Low NOx design for low nitrous oxide emissions
- Brass drain valve & temperature and pressure relief valve are included
- Standard 110 volt electrical outlet required for installation. Includes 19 ft. (3-prong grounded) power cord
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.	
			NAT.	LP	NAT.	LP	NAT.												
T A L L	38	★PRO40E2	40	36	40.4	36.4	68	62-3/4	57-3/4	19-3/4	14	3 or 4	8	52-1/4	3/4	140	0.69	\$264	
	50	★PRO50E2	40	36	40.4	36.4	84	63	58	21-3/4	14	3 or 4	8	52-1/2	3/4	160	0.67	\$272	
	50	★PRO50-50E2	50	—	50.5	—	87	63-1/2	58	21-3/4	14	4	8	52-1/2	3/4	160	0.67	\$272	
SHORT	40	★PRO40SE2	40	36	40.4	36.4	72	55-1/2	50-1/2	21-3/4	14	3 or 4	8	44	3/4	140	0.67	\$272	
	50	★PRO50SE2	40	36	40.4	36.4	89	55-1/2	50-1/2	23-3/4	14	3 or 4	8	44	3/4	160	0.67	\$272	

★ Energy Star compliant model.

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number. Example: PRO40PE2.

- 40 ng/J NOx Compliant

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



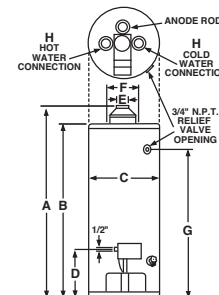
Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





Available in 38, 40 and 50 Gallon Tall – 40 and 50 Gallon Short Gas Models

- ▶ **8-Year* Limited Tank and Parts Warranty with a Professional Installation.**
- ▶ **With ProtectionPlus™ the 8-Year Limited Tank Warranty Becomes 12 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

High Altitude Compliant

- All models are certified for applications up to 6,000 feet above sea level. Some models are certified up to 10,200 feet above sea level. Check factory for listing

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	WATER CONN. CNTR.	HT. TO SIDE T&P	WATER CONN.	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANNUAL OPER. COST NAT.	
			NAT.	LP	NAT.	LP													
TALL	40	22V40 PROF	38	32	38.4	32.3	73	61-3/4	58-3/8	18-1/8	14-1/2	3 or 4	8	52-1/4	3/4	120	0.59	\$309	
	38	42V40 PROF	40	34	40.4	34.3	68	61-1/2	57-3/4	19-3/4	14-1/2	3 or 4	8	52-1/4	3/4	125	0.60	\$304	
	40	RHG PRO40-40F	40	34	40.4	34.3	68	63-1/4	59-3/4	21	14-1/2	3 or 4	8	53-1/2	3/4	135	0.62	\$294	
	50	22V50 PROF	38	36	38.4	36.4	90	61-1/2	58-1/4	20-1/8	14-1/2	3 or 4	8	51-3/8	3/4	130	0.58	\$315	
	50	42V50-40 PROF	40	36	40.4	36.4	83	61-1/2	58	21-3/4	14-1/2	3 or 4	8	52-1/2	3/4	150	0.58	\$315	
	50	RHG PRO50-40F	40	36	40.4	36.4	83	62-1/4	58-3/4	23	14-1/2	3 or 4	8	52-1/2	3/4	165	0.62	\$294	
	50	RHG PRO50-50F	50	—	50.5	—	83	62	58	21-3/4	14-1/2	4	8	52-1/2	3/4	150	0.58	\$315	
SHORT	40	42V40SPROF	40	36	40.4	36.4	72	53-7/8	50-1/2	20-1/8	14-1/2	3 or 4	8	44	3/4	130	0.59	\$309	
	40	42VR40SPROF	40	36	40.4	36.4	72	53-7/8	50-1/2	23	14-1/2	3	8	44	3/4	135	0.62	\$294	
	50	42V50SPROF	40	36	40.4	36.4	84	54-1/4	49-3/4	22-1/4	14-1/2	3	8	44	3/4	158	0.59	\$309	

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number. Example: RHG PRO40-40PF.

• Natural Gas models are 40 ng/J NOx compliant.

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.



Professional™ Heavy Duty Gas Water Heaters with the Guardian System™



Available in 48, 60, 63, 75 and 98 Gallon Tall Gas Models

- ▶ **8-Year* Limited Tank and Parts Warranty with a Professional Installation.**
- ▶ **With ProtectionPlus™ the 8-Year Limited Tank Warranty Becomes 12 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

Self-Cleaning (48, 60 & 63 gallon models only)

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion

High Altitude Compliant

- All models are certified for applications up to 7,700 feet above sea level. Some models are certified up to 10,200 feet above sea level. Check factory for listings

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Side water connections for space heating applications (48, 63, 75 & 98 gallon models only)
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES						ROUGHING IN DIMENSIONS (SHOWN IN INCHES)									ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP	NAT.	LP											
T A L L	48	RHG PRO50-65F	65	48	65.7	48.5	98	88	62-1/2	58-1/2	21-3/4	14	4	11	51-3/4	3/4	180	0.58	\$315
	60	RHG PRO60F	50	50	50.5	50.5	107	107	62	58	23	13-1/4	4	8	48-1/2	3/4	180	0.56	\$326
	63	RHG PRO65F	65	50	65.7	50.5	115	110	65	61-1/4	23	14	4	11	54-3/4	3/4	225	0.55	\$332
	75	RHG PRO75F	75.1	65	75.8	65.7	141	109	64	60	26-1/4	14-3/4	4	11	53-1/4	1	320	0.53†	N/A
	98	RHG PRO100F	75	65	75.8	65.7	135	125	67-3/4	64	27-1/4	14-3/8	4	11	57-3/16	1	350	0.49	\$372

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number: Example: RHG PRO100PF.

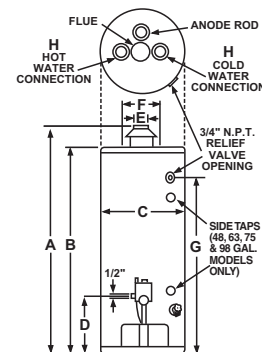
- Natural Gas models are 40 ng/J NOx compliant.

- All models feature the Guardian System.

† Energy Factor for 75 gallon LP model.

Exclusive Professional Installation Warranty

When this Rheem PROFESSIONAL water heater is installed by a licensed contractor, the consumer can upgrade his limited tank and parts warranty from 6 to 8 years by returning to Rheem the warranty registration card and a copy of the contractor's invoice. This Rheem exclusive warranty upgrade feature enhances your value as a plumbing professional. A professional installation is a better installation. Refer to the warranty certificate enclosed with each heater for specific details.





**ENERGY STAR®
Phase II**

Available in 38 and 50 Gallon Tall – 40 and 50 Gallon Short Gas Models

- ▶ **8-Year Limited Tank and Parts Warranty with a Professional Installation.***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Energy Efficient Damper Design

- 24 VAC Powered flue damper
- Higher energy factors
- Lower stand-by losses
- More hot water at a lower operating cost



Self-Diagnostic System

- Integrated self-diagnostic system control takes away the guesswork

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation



Longer Life

- Patented magnesium anode rod design incorporates a special resistor which protects the tank from rust.

High Altitude Compliant

- 50 gallon 50k BTU product certified for applications up to 6,000 feet above sea level
- All other models certified for applications up to 10,200 feet above sea level

Plus...

- Environmentally friendly burner – Low NOx design for low nitrous oxide emissions
- Brass drain valve & temperature and pressure relief valve are included
- Standard 110 volt electrical outlet required for installation. Includes 19 ft. (3-prong grounded) power cord
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)									ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.
			NAT.	LP	NAT.	LP												
T A L L	38	★43V40E2	40	36	40.4	36.4	68	62-3/4	57-3/4	19-3/4	14	3 or 4	8	52-1/4	3/4	140	0.69	\$264
	50	★43V50E2	40	36	40.4	36.4	84	63	58	21-3/4	14	3 or 4	8	52-1/2	3/4	160	0.67	\$272
	50	★43V50-50E2	50	—	50.5	—	87	63-1/2	58	21-3/4	14	4	8	52-1/2	3/4	160	0.67	\$272
SHORT	40	★43V40SE2	40	36	40.4	36.4	72	55-1/2	50-1/2	21-3/4	14	3 or 4	8	44	3/4	140	0.67	\$272
	50	★43V50SE2	40	36	40.4	36.4	89	55-1/2	50-1/2	23-3/4	14	3 or 4	8	44	3/4	160	0.67	\$272

★ Energy Star compliant model.

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number. Example: 43VR40PE2.

- 40 ng/J NOx Compliant

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



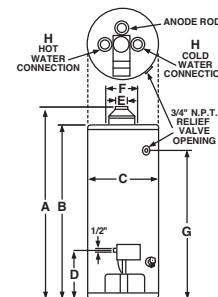
Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





Available in 29, 38, 40 and 50 Gallon Tall – 30, 40 and 50 Gallon Short Models

▶ **6-Year Limited Tank and Parts Warranty***

▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

High Altitude Compliant

- All models are certified for applications up to 6,000 feet above sea level. Some models are certified up to 10,200 feet above sea level. Check factory for listing

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.	HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	WATER CONN. CNTR.	HT. TO SIDE T&P	WATER CONN.	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.	
			NAT.	LP	NAT.	LP	NAT.												
TALL	29	22V30F	32	30	32.3	30.3	50	59-3/4	56-3/8	16-1/8	14-1/2	3	8	50-3/4	3/4	100	0.62	\$294	
	40	22V40-36F1	36	—	36.4	—	67	61-1/2	58	17-3/4	14-1/2	3 or 4	8	53	3/4	120	0.59	\$309	
	40	22V40F1	38	32	38.4	32.3	73	61-3/4	58-3/8	18-1/8	14-1/2	3 or 4	8	52-1/4	3/4	120	0.59	\$309	
	38	42V40F	40	34	40.4	34.3	68	61-1/2	57-3/4	19-3/4	14-1/2	3 or 4	8	52-1/4	3/4	125	0.60	\$304	
	40	42VR40-40F	40	34	40.4	34.3	68	63-1/4	59-3/4	21	14-1/2	3 or 4	8	53-1/2	3/4	135	0.62	\$294	
	50	42VR50-40F	40	36	40.4	36.4	83	62-1/4	58-3/4	23	14-1/2	3 or 4	8	52-1/2	3/4	165	0.62	\$294	
	50	22V50F1	38	36	38.4	36.4	90	61-1/2	58-1/4	20-1/8	14-1/2	3 or 4	8	51-3/8	3/4	130	0.58	\$315	
	50	42V50-40F	40	36	40.4	36.4	82	61-1/2	58	21-3/4	14-1/2	3 or 4	8	52-1/2	3/4	150	0.58	\$315	
	50	42V50-50F	50	—	50.5	—	81	62	58	21-3/4	14-1/2	3 or 4	8	52-1/2	3/4	150	0.58	\$315	
SHORT	30	22V30S-30F	30	—	30.3	—	50	49-3/4	46-1/4	19-3/4	14-1/2	3	8	40-1/4	3/4	98	0.61	\$299	
	40	42VR40S-40F	40	36	40.4	36.4	72	53-7/8	50-1/2	23	14-1/2	3	8	44	3/4	135	0.62	\$294	
	40	22V40SF	36	34	36.4	34.3	72	52-3/4	49-3/8	20-1/8	14-1/2	3	8	42-3/4	3/4	130	0.59	\$309	
	40	42V40SF	40	36	40.4	36.4	72	53-7/8	50-1/2	20-1/8	14-1/2	3 or 4	8	44	3/4	130	0.59	\$309	
	50	42V50SF	40	36	40.4	36.4	84	54-1/4	49-3/4	22-1/4	14-1/2	3	8	44	3/4	158	0.59	\$309	

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number. Example: 42VR40-40PF.

• Natural Gas models are 40 ng/J NOx compliant.

Rheem Guardian System Features...

Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.

Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.

Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.



Available in 48, 60, 63, 75 and 98 Gallon Tall Gas Models

- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

Self-Cleaning (48, 60 & 63 gallon models only)

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion

High Altitude Compliant

- All models are certified for applications up to 7,700 feet above sea level. Some models are certified up to 10,200 feet above sea level. Check factory for listings

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Side water connections for space heating applications (48, 63, 75 & 98 gallon models only)
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES						ROUGHING IN DIMENSIONS (SHOWN IN INCHES)									ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	WATER CONN. CNTR.	HT. TO SIDE T&P	WATER CONN.	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP	NAT.	LP											
T A L L	48	42V50-65F	65	48	65.7	48.5	98	88	62-1/2	58-1/2	21-3/4	14	4	11	51-3/4	3/4	180	0.58	\$315
	60	42V60F	50	45	50.5	45.5	107	107	62	58	23	13-1/4	4	8	48-1/2	3/4	180	0.56	\$326
	63	42V65F	65	50	65.7	50.5	115	110	65	61-1/4	23	14	4	11	54-3/4	3/4	225	0.55	\$332
	75	42V75F	75.1	65	75.8	65.7	141	109	64	60	26-1/4	14-3/4	4	11	53-1/4	1	320	0.53†	N/A
	98	42V100F	75	65	75.8	65.7	135	125	67-3/4	64	27-1/4	14-3/8	4	11	57-3/16	1	350	0.49	\$372

SPECIFY LP GAS WHEN ORDERING. Add "P" suffix to the model number: Example: 42V100PF.

- Natural Gas models are 40 ng/J NOx compliant.
- All models feature the Guardian System.

† Energy Factor for 75 gallon LP model.

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





(Concentric Vent Kit Available)

Available in 40, 50, 65 and 75 Gallon Gas Models

- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

FVIR Compliant

- Maintenance free – no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

Self-Diagnostic System

- Integrated self-diagnostic system control takes the guess work away

Environmentally Friendly Burner

- 40ng/J compliant NOx design for low nitrous oxide emissions

High Altitude Compliant

- Models are certified for applications up to 10,200 feet above sea level

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion
- Provides longer tank life than using standard magnesium anode rods

Plus...

- Durable silicon nitride ignitor (HSI)
- Standard 110 volt electrical connection
- Exceeds National Appliance Energy Conservation Act (NAECA) and ASHRAE requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



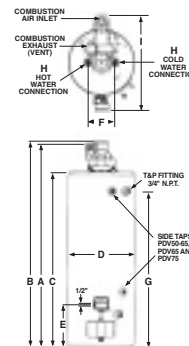
DESCRIPTION			FEATURES						ROUGHING IN DIMENSIONS (SHOWN IN INCHES)												ENERGY INFO.		
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		HT. TO TOP OF VENT	HT. TO TOP OF AIR INLET	TANK HT. C	DIAM. D	HT. TO GAS CONN. E	WATER CONN. CNTR. F	HT. TO SIDE T&P VALVE G	WATER CONN. SIZE H	FRONT TO BACK I	SHIP. WT. (LBS)	ENERGY FACTOR		AVG. ANN. OPER COSTS NAT.		
			NAT.	LP	NAT.	LP	NAT.	LP											NAT.	LP			
TALL	40	★PDV40	40	38	40.4	38.4	73	73	68-1/2	69-1/4	60-1/4	19-3/4	14	8	53-3/4	3/4	29-1/2	180	0.67	0.67	\$272		
	50	★PDV50	40	40	40.4	40.4	93	93	67-5/8	67-7/8	59-3/8	21-3/4	14	8	52-3/4	3/4	31-1/2	205	0.67	0.67	\$272		
	50	PDV50-65	65	47	65.7	47.5	111	92	67-5/8	68-3/8	59-3/8	21-3/4	14	8	52-3/4	3/4	31-1/2	210	0.62	0.62	\$294		
	65	PDV65	65	56	65.7	56.6	120	113	71-1/4	72-1/4	61-3/4	23	14-5/8	11	54	3/4	34-1/4	285	0.62	0.62	\$294		
	75	PDV75	75.1	70	75.8	70.7	139	140	70-3/8	71-1/4	60-1/2	26-1/4	15	11	53	1	36-3/4	325	—	0.62	\$495†		

★ Energy Star compliant model.

†PDV75 LP annual operating cost.

- Specify LP gas when ordering. Add "P" suffix to the model number. Example PDV40P.

SEE NEXT PAGE
FOR AIR-INLET
AND VENTING
INFORMATION



AIR-INLET AND VENTING INFORMATION 40 & 50 GALLON MODELS

Model	Vent & Combustion Air-Inlet Pipe Dia. (in.)	Min. Equivalent Acceptable Vent & Combustion Air-Inlet System Lengths (Ft.)	Max. Equivalent Acceptable Vent & Combustion Air-Inlet System Lengths (Ft.)	Termination
FROM SEA LEVEL THROUGH 5,999 FT. ABOVE SEA LEVEL				
PDV40	2	7	30	90° Elbows
PDV40	3	7	60	90° Elbows
PDV50	2	7	30	90° Elbows
PDV50	3	7	60	90° Elbows
PDV50-65	3	7	55	90° Elbows
PDV50-65	4	7	100	90° Elbows
FROM 6,000 FT. ABOVE SEA LEVEL THROUGH 7,700 FT. ABOVE SEA LEVEL				
PDV40	2	7	15	90° Elbows
PDV40	3	7	60	90° Elbows
PDV50	3	7	60	90° Elbows
PDV50-65	3	7	55	90° Elbows
PDV50-65	4	7	100	90° Elbows
FROM 7,701 FT. ABOVE SEA LEVEL THROUGH 10,200 FT. ABOVE SEA LEVEL				
PDV40	2	7	15	90° Elbows
PDV40	3	7	60	90° Elbows
PDV50	3	7	60	90° Elbows
PDV50-65	3	7	40	90° Elbows
PDV50-65	4	7	100	90° Elbows

- One 90° elbow is approximately equivalent to 5 feet of pipe.
- One 45° elbow is approximately equivalent to 2.5 feet of pipe.
- Certified for use with co-axial vent. Refer to Use and Care manual for details.
(For Canadian installations, use ULC-S636 PVC and CPVC pipe.)

AIR-INLET AND VENTING INFORMATION 65 & 75 GALLON MODELS

Model	Vent & Combustion Air-Inlet Pipe Dia. (in.)	Min. Equivalent Acceptable Vent & Combustion Air-Inlet System Lengths (Ft.)	Max. Equivalent Acceptable Vent & Combustion Air-Inlet System Lengths (Ft.)	Termination
FROM SEA LEVEL THROUGH 2,000 FT. ABOVE SEA LEVEL				
PDV65	3	8	60	90° Elbows
PDV65	4	8	100	90° Elbows
PDV75	3	8	50	90° Elbows
PDV75	4	8	100	90° Elbows
FROM 2,001 FT. ABOVE SEA LEVEL THROUGH 5,999 FT. ABOVE SEA LEVEL				
PDV65	3	8	40	90° Elbows
PDV65	4	8	100	90° Elbows
PDV75	3	8	25	90° Elbows
PDV75	4	8	100	90° Elbows
FROM 6,000 FT. ABOVE SEA LEVEL THROUGH 7,700 FT. ABOVE SEA LEVEL				
PDV65	4	8	50	90° Elbows
PDV75	4	8	50	90° Elbows

- One 90° elbow is approximately equivalent to 5 feet of pipe.
- One 45° elbow is approximately equivalent to 2.5 feet of pipe.
- Certified for use with co-axial vent. Refer to Use and Care manual for details.
(For Canadian installations, use ULC-S636 PVC and CPVC pipe.)

NEW!

Available in 40 and 50 Gallon Tall – 40 and 50 Gallon Short Gas Models



► **6-Year Limited Tank and Parts Warranty***

► **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Guardian System™

- Air/fuel shut-off system offers double protection
- Maintenance free –no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

New Quiet Blower

- Less noise than ever before

Self-Diagnostic System

- Integrated self-diagnostic system control takes away the guesswork

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

High Altitude Compliant

- Tall models certified for applications up to 7,700 feet above sea level
- Short models certified for applications up to 6,000 feet above sea level

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust
- Provides longer tank life than using standard magnesium anode rods

Plus...

- Brass drain valve & temperature and pressure relief valve are included
- Standard 110 volt electrical connection
- Exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



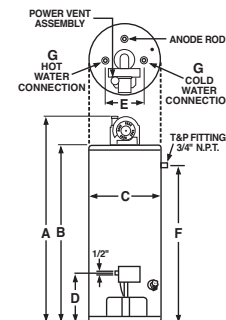
Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFO.	
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.	HT. TO TOP OF ASSEMBLY A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	WATER CONN. CNTR. E	HT. TO SIDE T&P VALVE F	WATER CONN. SIZE G	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP	NAT.										
TALL	40	★43VP40E2	40	36	40.4	36.4	68	67-3/8	59	19-3/4	14	8	53-1/2	3/4	140	0.67	\$272
	50	★43VP50E2	42	42	42.4	42.4	87	66-3/8	58	21-3/4	14	8	52-1/2	3/4	170	0.67	\$272
SHORT	40	★43VP40SE2	36	32	36.4	32.4	71	62-1/2	51-1/4	21-3/4	14	8	44-1/4	3/4	155	0.67	\$272
	50	★43VP50SE2	36	32	36.4	32.4	85	62-1/2	51-1/4	23-3/4	14	8	44	3/4	175	0.67	\$272

★ **Energy Star compliant model.**

- Specify LP gas when ordering. Add "P" to the model number. Example 43VP40PE2.
- See venting on reverse side.

**SEE NEXT PAGE
FOR MAXIMUM AND
MINIMUM VENT
LENGTHS**



TALL MODELS MAXIMUM AND MINIMUM VENT LENGTHS

VENTING INFORMATION FOR 2" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 7700'
One (1)	None	4.0	45.0	30.0
One (1)	One (1)	4.0	42.0	27.0
Two (2)	None	4.0	39.0	24.0
Two (2)	One (1)	4.0	36.0	21.0
Three (3)	None	4.0	33.0	18.0

For the 2" vent, one 90° elbow is approximately equal to 6 feet of pipe. One 45° elbow is approximately equal to 3 feet of pipe.

VENTING INFORMATION FOR 3" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 7700'
One (1)	None	5.0	95.0	75.0
One (1)	One (1)	5.0	92.5	72.5
Two (2)	None	5.0	90.0	70.0
Two (2)	One (1)	5.0	87.5	67.5
Three (3)	None	5.0	85.0	65.0

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.

SHORT MODELS MAXIMUM AND MINIMUM VENT LENGTHS

VENTING INFORMATION FOR 2" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 6000'
One (1)	None	4.0	45.0	30.0
One (1)	One (1)	4.0	42.0	27.0
Two (2)	None	4.0	39.0	24.0
Two (2)	One (1)	4.0	36.0	21.0
Three (3)	None	4.0	33.0	18.0

For the 2" vent, one 90° elbow is approximately equal to 6 feet of pipe. One 45° elbow is approximately equal to 3 feet of pipe.

VENTING INFORMATION FOR 3" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 6000'
One (1)	None	5.0	95.0	75.0
One (1)	One (1)	5.0	92.5	72.5
Two (2)	None	5.0	90.0	70.0
Two (2)	One (1)	5.0	87.5	67.5
Three (3)	None	5.0	85.0	65.0

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.



Available in 60 and 75 Gallon Models

► 6-Year Limited Tank and Parts Warranty*

► With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.

Guardian System™

- Air/fuel shut-off system offers double protection
- Maintenance free – no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

Plus...

- New Quiet Blower
- Self-Diagnostic System
- Environmentally Friendly Low NOx Burner

- High Altitude Compliant – Tall models are certified for applications up to 7,700 feet above sea level
- Self-Cleaning – EverKleen™ patented system fights sediment build-up
- Reduces fuel costs and provides more hot water
- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion for longer life
- Standard 110 volt electrical connection
- Exclusive Rheemglas® lining
- Exceeds National Appliance Energy Conservation Act (NAECA) and ASHRAE requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H. NAT.	HT. TO TOP OF ASSEMBLY	TANK HT.	DIAM.	HT. TO GAS CONN.	WATER CONN. CNTR.	HT. TO SIDE T&P VALVE	WATER CONN. SIZE	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP											
TALL	60	42VP60FW	55	50	55.6	50.5	104	69-1/4	58	22-1/4	14	8	51-1/4	3/4	205	0.62	\$294
	75	42VP75FW	75	70	75.8	70.7	130	72	60-1/8	26-1/4	14-3/4	11	53-1/4	1	330	0.59	\$309

- Specify LP gas when ordering. Add "PF" suffix to the model number. Example 42VP60PFW.
- 75 gallon model features side water connections for space heating applications.

- Natural Gas models are 40 ng/J NOx compliant.

Minimum vent length for 3" vent pipe is one (1) foot of vertical pipe, one (1) 90° elbow, and four (4) feet of horizontal pipe.

MAXIMUM VENTING INFORMATION FOR 3" VENT

NUMBER OF 90° ELBOWS WITH VENT	NUMBER OF 45° ELBOWS	MAXIMUM VENT PIPE LENGTH IN FEET 0' - 2000'	MAXIMUM VENT PIPE LENGTH IN FEET 2001' - 7700'
One (1)	None	45	35
One (1)	One (1)	42.5	32.5
Two (2)	None	40	30
Two (2)	One (1)	37.5	27.5
Three (3)	None	35	25

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.

Minimum vent length for 4" vent pipe is one (1) foot of vertical pipe, one (1) 90° elbow, and four (4) feet of horizontal pipe.

MAXIMUM VENTING INFORMATION FOR 4" VENT

NUMBER OF 90° ELBOWS WITH VENT	NUMBER OF 45° ELBOWS	MAXIMUM VENT PIPE LENGTH IN FEET 0 - 7700'
One (1)	None	95
One (1)	One (1)	92.5
Two (2)	None	90
Two (2)	One (1)	87.5
Three (3)	None	85
Three (3)	One (1)	82.5
Four (4)	None	80
Four (4)	One (1)	77.5
Five (5)	None	75

For the 4" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.

NOTICE: The mixing of 3" and 4" vent pipe is not recommended. If 4" pipe is used, a 2" to 4" reducer fitting is recommended at the rubber coupling.

This water heater is supplied with a 3" Schedule 40 PVC 90° vent terminal. When venting with 4" pipe, a Schedule 40 PVC 90° vent terminal must be used. Screens for both 3" and 4" vent terminals have been included.

PowerVent with Electronic Control Induced Draft Gas Water Heaters



NEW!

Available in 40 and 50 Gallon Tall – 40 and 50 Gallon Short Gas Models

▶ **6-Year Limited Tank and Parts Warranty***

▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

PV Electronic Control

Available hot water display:

The LCD screen provides a simple three-level bar graph for an at-a-glance indication of how much hot water remains in the tank

- **Adjustable set-point:** The homeowner can adjust the water temperature up or down at the LCD
- **Automatic "scald warning":** Setting the water temperature above 120°F triggers an alert calling attention to a potential hot-water risk
- **Vacation mode option:** a homeowner can make the adjustment remotely at the LCD device
- **Control lockout:** the user must depress the "up" and "down" temperature buttons for five seconds to unlock the control
- **"Service Needed" indicator:** The user or service technician can display the specific failure codes and quickly identify problems in need of remedy, saving service time and cost

Guardian System™

- Air/fuel shut-off system offers double protection
- Maintenance free – no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

Plus...

- New Quiet Blower
- Self-Diagnostic System
- Environmentally Friendly Low NOx Burner
- High Altitude Compliant – Tall models certified for applications up to 7,700 feet above sea level and short models up to 6,000 feet above sea level
- Self-Cleaning – EverKleen™ patented system fights sediment build-up; reduces fuel costs and provides more hot water

- Patented magnesium anode rod design incorporates a special resistor protects the tank from corrosion for longer life
- Standard 110 volt electrical connection
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



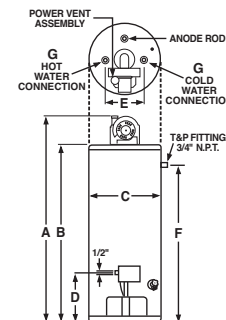
Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.		
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.	HT. TO TOP OF ASSEMBLY A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	WATER CONN. CNTR. E	HT. TO SIDE T&P VALVE F	WATER CONN. SIZE G	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP											
TALL	40	★43VP40E2-E	40	36	40.4	36.4	68	67-3/8	59	19-3/4	14	8	53-1/2	3/4	140	0.67	\$272
	50	★43VP50E2-E	42	42	42.4	42.4	87	66-3/8	58	21-3/4	14	8	52-1/2	3/4	170	0.67	\$272
SHORT	40	★43VP40SE2-E	36	32	36.4	32.4	71	62-1/2	51-1/4	21-3/4	14	8	44-1/4	3/4	155	0.67	\$272
	50	★43VP50SE2-E	36	32	36.4	32.4	85	62-1/2	51-1/4	23-3/4	14	8	44	3/4	175	0.67	\$272

★ Energy Star compliant model.

- Specify LP gas when ordering. Add "P" to the model number. Example 43VP40PE2-E.
- See venting on reverse side.

**SEE NEXT PAGE
FOR MAXIMUM AND
MINIMUM VENT
LENGTHS**



TALL MODELS MAXIMUM AND MINIMUM VENT LENGTHS

VENTING INFORMATION FOR 2" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 7700'
One (1)	None	4.0	45.0	30.0
One (1)	One (1)	4.0	42.0	27.0
Two (2)	None	4.0	39.0	24.0
Two (2)	One (1)	4.0	36.0	21.0
Three (3)	None	4.0	33.0	18.0

For the 2" vent, one 90° elbow is approximately equal to 6 feet of pipe. One 45° elbow is approximately equal to 3 feet of pipe.

VENTING INFORMATION FOR 3" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 7700'
One (1)	None	5.0	95.0	75.0
One (1)	One (1)	5.0	92.5	72.5
Two (2)	None	5.0	90.0	70.0
Two (2)	One (1)	5.0	87.5	67.5
Three (3)	None	5.0	85.0	65.0

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.

SHORT MODELS MAXIMUM AND MINIMUM VENT LENGTHS

VENTING INFORMATION FOR 2" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 6000'
One (1)	None	4.0	45.0	30.0
One (1)	One (1)	4.0	42.0	27.0
Two (2)	None	4.0	39.0	24.0
Two (2)	One (1)	4.0	36.0	21.0
Three (3)	None	4.0	33.0	18.0

For the 2" vent, one 90° elbow is approximately equal to 6 feet of pipe. One 45° elbow is approximately equal to 3 feet of pipe.

VENTING INFORMATION FOR 3" VENTS

NUMBER OF 90° ELBOWS WITH VENT TERMINAL	NUMBER OF 45° ELBOWS	MINIMUM PIPE LENGTH REQ. (FT.)	MAXIMUM PIPE LENGTH(FT.) 0' - 2000'	MAXIMUM PIPE LENGTH(FT.) 2000' - 6000'
One (1)	None	5.0	95.0	75.0
One (1)	One (1)	5.0	92.5	72.5
Two (2)	None	5.0	90.0	70.0
Two (2)	One (1)	5.0	87.5	67.5
Three (3)	None	5.0	85.0	65.0

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.



NEW LONGER VENTING

Available in 40 and 50 Gallon Tall Gas Models

- ▶ **NEW FVIR Compliant!** ▶ **NEW LP Models Available!**
- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

- Adjustable coaxial vent allows flexibility of installation – uses outside air for combustion and requires no electrical power
- Aluminum vent and cap base to prevent staining of building exterior
- Brass drain valve
- Factory installed temperature and pressure relief valve
- R-Foam® insulation for superior heat retention
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Heat saving flue baffle design
- Gas control and combination thermostat
- Piezo ignition
- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion

- High temperature silicone bands reduce venting installation time
- Internal air tube for reduced footprint
- Meets ANSI Z21.10.1 requirements for Flammable Vapor Ignition Resistance (FVIR)
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES						DIMENSIONS							ALTITUDE RATING		ENERGY INFO.	
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		HT. TO VENT A	TANK HT. B	DIAMETER C	HT. TO GAS CONN. D	VENT SIZE E	HT. TO SIDE T&P F	SHIP. WT. (LBS)	UP TO "X" FEET ABOVE SEA LEVEL		ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP	NAT.	LP								NAT.	LP		
TALL	40	22DV40F	38	30	38.4	30.3	66	64	68-1/4	59-3/4	19-3/4	14-1/4	6	51-5/8	155	2,000*	7,700	0.59	\$309
	50	22DV50F	38	34	38.4	34.3	80	79	68	59-1/2	21-3/4	14-1/4	6	52-1/2	165	6,000	6,000	0.58	\$315

• Specify LP gas when ordering. Add "PF" suffix to the model number. Example 22DV40PF

VENTING – ROUGHING IN DIMENSIONS (INCHES)			SIDE VENTING (G) WITH INCLUDED VENT KIT		SIDE VENTING (G) WITH OPTIONAL VENT KIT		OPTIONAL HEIGHT (A) WITH VENT KIT
TYPE	MODEL NUMBER	4 FEET VENTING AVAILABLE	MIN.	MAX.	MIN.	MAX.	
TALL	22DV40F	Horizontal	9-1/8	19-1/8	9-1/8	48**	68-1/4 – 107-3/4†
	22DV50F	& Vertical	8-1/8	18-1/8	8-1/8	48**	68 – 107†

* High altitude model available upon request: 22DV40HF

** Horizontal Vent Kit #SP20131. Venting dimensions are approximate.

† Vertical Vent Kit #SP20132. Venting dimensions are approximate.

• Natural Gas models are 40 ng/J NOx compliant.

• If side wall is combustible material, 1" clearance must be included in adjustment range.

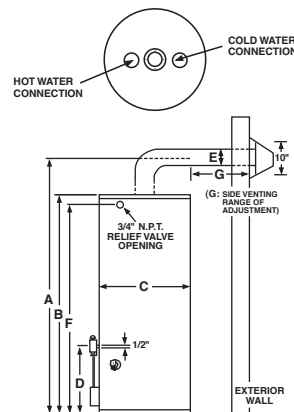
NEW LONGER VENTING!

• Up to 4 feet above the water heater and 4 feet from an outside wall.

Order Horizontal Vent Kit: #SP20131

Order Vertical Vent Kit: #SP20132

Rheem Exclusive Adjustable Coaxial Vent Allows Flexibility of Installation...
You may orient the Fury DV for easiest service access, because the adjustable coaxial vent can swivel 360 degrees.



Fury DV (Vertical Vent Option) Direct Vent Gas Water Heaters



Available in 40 and 50 Gallon Tall Gas Models

- ▶ **FVIR Compliant!** ▶ **LP Models Available!**
- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

- Adjustable coaxial vent kits allow flexibility of installation – uses outside air for combustion and requires no electrical power
- Brass drain valve
- Factory installed temperature and pressure relief valve
- R-Foam® insulation for superior heat retention
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Heat saving flue baffle design
- Gas control and combination thermostat
- Piezo ignition

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from corrosion
- Internal air tube for reduced footprint
- Meets ANSI Z21.10.1 requirements for Flammable Vapor Ignition Resistance (FVIR)
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.

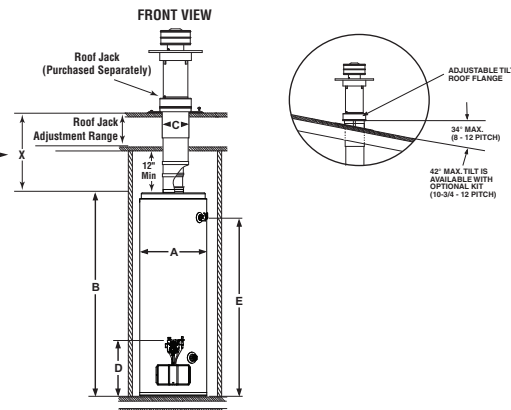


DESCRIPTION			FEATURES						DIMENSIONS						ALTITUDE RATING		ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		DIAMETER A	TANK HT. B	VENT SIZE C	HT. TO GAS CONN. D	HT. TO SIDE T&P E	SHIP. WT. (LBS)	UP TO "X" FEET ABOVE SEA LEVEL		ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP	NAT.	LP							NAT.	LP		
TALL	40	22DV40F-VX	36	30	36.4	30.3	66	65	19-3/4	59-3/4	5	14-1/4	51-5/8	155	7,700	7,700	0.59	\$309
	50	22DV50F-VX	36	32	36.4	32.3	80	80	21-3/4	59-1/2	5	14-1/4	52-1/2	165	7,700	7,700	0.59	\$309

- Specify LP gas when ordering. Add "PF" suffix to the model number. Example 22DV40PF-VX
- Natural Gas models are 40 ng/J NOx compliant.

THESE UNITS CAN ONLY BE INSTALLED WITH THE ROOF JACKS LISTED BELOW.		
CO-AXIAL ROOF JACK SIZING TABLE		
34° MAX. (8 - 12 PITCH) ROOF JACK KIT PART NUMBER	42° MAX. (10-3/4 - 12 PITCH) ROOF JACK KIT PART NUMBER	ROOF JACK ADJUSTMENT RANGE (SEE X)
AP14363A	AP14334A	24 - 37 Inches
AP14363B	AP14334B	33 - 68 Inches
AP14363C	AP14334C	45 - 97 Inches
AP14363D	AP14334D	60 - 130 Inches
AP14363E	AP14334E	72 - 160 Inches

Roof Jacks must be ordered separately with this direct vent water heater and installed in accordance with the instructions furnished with the heater. No other roof jack or vertical vent kit is approved for installation with this heater.





**ENERGY STAR®
Phase II**

Available in 40 and 50 Gallon Tall Gas Models

- ▶ **8-Year Limited Tank and Parts Warranty with a Professional Installation.***
- ▶ **SCAQMD Rule 1121 Compliant: 10ng/J NOx Emissions**
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Energy Efficient Damper Design

- 24 VAC Powered flue damper
- Higher energy factors
- Lower stand-by losses
- More hot water at a lower operating cost

Self-Diagnostic System

- Integrated self-diagnostic system control takes away the guesswork

Environmentally Friendly Burner

- Ultra Low NOx radiant burner design
- Stainless steel construction
- 10 ng/J NOx emissions

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Longer Life

- Patented magnesium anode rod design incorporates a special resistor which protects the tank from rust.

High Altitude Compliant

- All models certified for applications up to 10,200 feet above sea level

Plus...

- Brass drain valve & temperature and pressure relief valve are included
- Standard 110 volt electrical outlet required for installation. Includes 19 ft. (3-prong grounded) power cord

- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE NAT.	FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.	
TALL	40	★PRO40NE2	36	36.4	71	65	60	21	17-3/8	3 or 4	8	54	3/4	150	0.68	\$268	
	50	★PRO50NE2	36	36.4	93	64-3/4	59-3/4	23	17-3/8	3 or 4	8	53-3/4	3/4	180	0.68	\$268	

★ Energy Star compliant model.

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



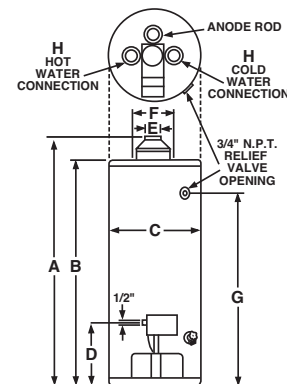
Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





Available in 28, 38, 40, 48, 50 and 60 Gallon Tall – 38 Gallon Short Gas Models

- ▶ **8-Year Limited Tank and Parts Warranty***
- ▶ **SCAQMD Rule 1121 Compliant: 10 ng/J NO_x Emissions**
- ▶ **With ProtectionPlus™ the 8-Year Limited Tank Warranty Becomes 12 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection

- Maintenance free – no filter to clean

Environmentally Friendly Burner

- Ultra Low NO_x radiant burner design
- Stainless steel construction
- 10 ng/J NO_x emissions

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs

- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

High Altitude Compliant

- All models are certified for applications up to 10,200 feet above sea level

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE NAT.	FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	WATER CONN. CNTR.	HT. TO SIDE T&P	SHIP. WATER CONN.	ENERGY WT. (LBS)	AVG. ANN. FACTOR NAT.	OPER. COST NAT.	
T A L L	28	22V30 PROFN	30	30.3	53	59	56-1/4	16-1/8	17-3/8	3 or 4	8	50	3/4	105	0.62	\$294	
	38	22V40 PROFN	38	38.4	72	60-5/8	57-3/4	18-1/8	17-3/8	3 or 4	8	51-5/8	3/4	125	0.60	\$304	
	40	RHG PRO40FN	38	38.4	73	63	60-1/8	21	17-3/8	3 or 4	8	54	3/4	140	0.62	\$294	
	48	22V50 PROFN	40	40.4	91	60-5/8	57-7/8	20-1/8	17-3/8	3 or 4	8	51-3/4	3/4	135	0.58	\$315	
	50	RHG PRO50FN	36	36.4	91	62-5/8	59-7/8	23	17-3/8	3 or 4	8	53-5/8	3/4	170	0.62	\$294	
	60	RHG PRO60FN	45	45.5	107	63-1/4	59-3/4	23	17-3/8	4	8	53	3/4	205	0.56	\$326	
SHORT	38	22V40S PROFN	36	36.4	68	51-7/8	49-1/8	20-1/8	17-3/8	3 or 4	8	43	3/4	135	0.60	\$304	

Rheem Professional Ultra Low NO_x with Guardian System Features...



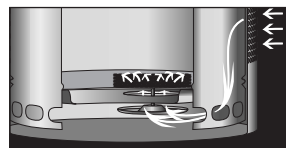
Ultra Low NO_x Burner

Environmentally friendly radiant burner significantly reduces NO_x emissions. Stainless steel construction for increased durability and longevity.



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrester from becoming clogged by lint, dust and oil.

Exclusive Professional Installation Warranty

When this Rheem PROFESSIONAL water heater is installed by a licensed contractor, the consumer can upgrade his limited tank and parts warranty from 6 to 8 years by returning to Rheem the warranty registration card and a copy of the contractor's invoice.

This Rheem exclusive warranty upgrade feature enhances your value as a plumbing professional. A professional installation is a better installation.

Refer to the warranty certificate enclosed with each heater for specific details.



Available in 40 and 50 Gallon Tall Gas Models

- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **SCAQMD Rule 1121 Compliant: 10ng/J NOx Emissions**
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Energy Efficient Damper Design

- 24 VAC Powered flue damper
- Higher energy factors
- Lower stand-by losses
- More hot water at a lower operating cost

Self-Diagnostic System

- Integrated self-diagnostic system control takes away the guesswork

Environmentally Friendly Burner

- Ultra Low NOx radiant burner design
- Stainless steel construction
- 10 ng/J NOx emissions

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Longer Life

- Patented magnesium anode rod design incorporates a special resistor which protects the tank from rust.

High Altitude Compliant

- All models certified for applications up to 10,200 feet above sea level

Plus...

- Brass drain valve & temperature and pressure relief valve are included
- Standard 110 volt electrical outlet required for installation. Includes 19 ft. (3-prong grounded) power cord

- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE NAT.	FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.	
TALL	40	★23V40NE2	36	36.4	71	65	60	21	17-3/8	3 or 4	8	54	3/4	150	0.68	\$268	
	50	★23V50NE2	36	36.4	93	64-3/4	59-3/4	23	17-3/8	3 or 4	8	53-3/4	3/4	180	0.68	\$268	

★ Energy Star compliant model.

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



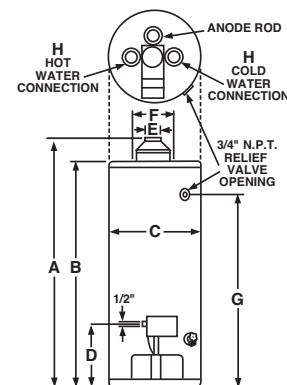
Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





Available in 28, 38, 40, 48, 50 and 60 Gallon Tall – 38 Gallon Short Gas Models

- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **SCAQMD Rule 1121 Compliant: 10 ng/J NO_x Emissions**
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean

Environmentally Friendly Burner

- Ultra Low NO_x radiant burner design
- Stainless steel construction
- 10 ng/J NO_x emissions

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Easy to Light

- No matches required

Energy Efficient

- More hot water at low operating cost

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

High Altitude Compliant

- All models are certified for applications up to 10,200 feet above sea level

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Exclusive Rheemglas® lining
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



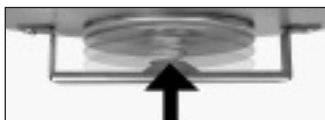
DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE NAT.	FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.	
T A L L	28	22V30FN	30	30.3	53	59	56-1/4	16-1/8	17-3/8	3 or 4	8	50	3/4	105	0.62	\$294	
	38	22V40FN	38	38.4	72	60-5/8	57-3/4	18-1/8	17-3/8	3 or 4	8	51-5/8	3/4	125	0.60	\$304	
	40	22VR40FN	38	38.4	73	63	60-1/8	21	17-3/8	3 or 4	8	54	3/4	140	0.62	\$294	
	48	22V50FN	40	40.4	91	60-5/8	57-7/8	20-1/8	17-3/8	3 or 4	8	51-3/4	3/4	135	0.58	\$315	
	50	22VR50FN	36	36.4	91	62-5/8	59-7/8	23	17-3/8	3 or 4	8	53-5/8	3/4	170	0.62	\$294	
	60	42V60FN	45	45.5	107	63-1/4	59-3/4	23	17-3/8	4	8	53	3/4	205	0.56	\$326	
SHORT	38	22V40SFN	36	36.4	68	51-7/8	49-1/8	20-1/8	17-3/8	3 or 4	8	43	3/4	135	0.60	\$304	

Rheem Ultra Low NO_x with Guardian System Features...



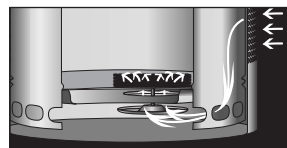
Ultra Low NO_x Burner

Environmentally friendly radiant burner significantly reduces NO_x emissions. Stainless steel construction for increased durability and longevity.



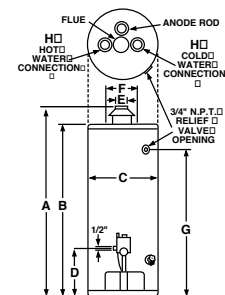
Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.





Available in 40 and 50 Gallon Tall Gas Models

- ▶ **6-Year Limited Tank and Parts Warranty***
- ▶ **SCAQMD Rule 1121 Compliant: 10 ng/J NO_x Emissions**
- ▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean

Environmentally Friendly Burner

- Ultra Low NO_x radiant burner design
- Stainless steel construction
- 10 ng/J NO_x emissions

Self-Cleaning

- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

Flammable Vapor Detection Sensor

- Protective control system that disables the heater in the presence of flammable vapor accumulation

Longer Life

- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

High Altitude Compliant

- All models are certified for applications up to 5,999 feet above sea level

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

Plus...

- Durable spark-to-pilot ignitor
- Brass drain valve and temperature and pressure relief valve are included
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE NAT.	FIRST HOUR DEL. G.P.H. NAT.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	WATER CONN. CNTR. E	HT. TO SIDE T&P F	WATER CONN. G	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COST NAT.
TALL	40	★42VP40FN	36	36.4	72	69-3/4	60	21	17-3/8	8	54	3/4	170	0.67	\$272
	50	★42VP50FN	38	38.4	94	69-1/2	59-3/4	23	17-3/8	8	53-3/4	3/4	200	0.67	\$272

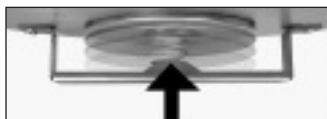
★ Energy Star compliant model.

Rheem Ultra Low NO_x with Guardian System Features...



Ultra Low NO_x Burner

Environmentally friendly radiant burner significantly reduces NO_x emissions. Stainless steel construction for increased durability and longevity.



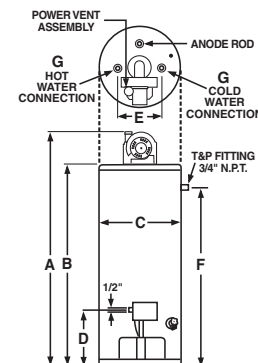
Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrester from becoming clogged by lint, dust and oil.





Available in 30, 40 and 50 Gallon Models

► 5-Year Limited Tank Warranty* ► 1-Year Limited Parts Warranty*

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

Standard Features:

- Optional base kits for replacement of pre-FVIR units
- Side inlet temperature and pressure relief valve opening
- Two hole top for anode rod and hot water outlet
- Factory installed temperature and pressure relief valve – side location
- Altitude certification up to 6,000 ft. above sea level. High altitude models available
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life

- Patented R-Foam® insulation process for superior heat retention
- Piezo ignitor – easy light pilot, no matches required
- Anode rod equalizes aggressive water action
- Cold water inlet – side connection allows for quick, economical hook-up
- Optional leg kit for replacement units

* See Residential Warranty Certificate for complete warranty information.

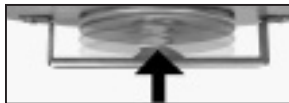
The Warrior is CSA certified for manufactured home use, meets ANSI Standards and complies with HUD safety and construction standards.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES						ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFORMATION			
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H.		HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	WATER CONN. CNTR.	HT. TO SIDE T&P	SHIP. WT. (LBS)	ENERGY FACTOR	AVG. ANN. OPER. COSTS		
			NAT.	LP	NAT.	LP	NAT.	LP										NAT.	LP	
T A L L	30	22V30FT	32	30	32.3	30.3	48	–	59-3/4	56-3/8	16-1/8	14-1/2	3	8	50-3/4	100	0.61	\$299	\$503	
	40	22V40FT	34	32	34.3	32.3	59	–	61-3/4	58-3/8	18-1/8	14-1/2	3	8	51-3/8	120	0.59	\$309	\$520	
	50	22V50FT	38	36	38.4	36.4	65	–	61-1/2	58-1/4	20-1/8	14-1/2	3	8	51-3/8	130	0.58	\$315	\$529	

Rheem Guardian System Features...



Exclusive Combustion Shut-off System

Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.



Flame Arrestor Plate

A specially-designed flame arrestor prevents ignition of vapors outside the combustion chamber.



Maintenance Free

Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.

Roof jack must be ordered separately with 30, 40 and 50 gallon atmospheric models and must be in accordance with instructions furnished with the heater. Clamps and secure strapping are packed in water heater carton.

Roof Jack Part No.	Roof Opening to Floor Dimension	Roof Jack Adjustment Range
AP12118B*	98" Min./126" Max.	16" Min./32" Max.
AP12118C*	112" Min./154" Max.	30" Min./60" Max.
AP12118D*	130" Min./189" Max.	48" Min./95" Max.
AP12119B†	94" Min./106" Max.	12"

* Adjustable length roof jacks

† Fixed length roof jacks



Draft Diverter

Improved design provides efficient heating with down-draft protection.



Available in 30, 40 and 50 Gallon Models

► 5-Year Limited Tank Warranty* ► 1-Year Limited Parts Warranty*

- No external vented door is required
- All combustion air comes from outside the home
- Provides maximum design freedom since it can be placed anywhere within the home
- Hot water outlet located at top
- Factory installed temperature and pressure relief valve – side location.
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Field convertible controls for natural gas or LP operation
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements
- Piezo ignitor – easy light pilot
- Certified for manufactured (HUD) and modular construction
- Anode rod equalizes aggressive water action
- Cold water inlet – side connection allows for fast, economical hook-up

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										ENERGY INFORMATION		
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT/ LP	RECOVERY IN G.P.H. 90° RISE NAT/LP	FIRST HOUR DEL. G.P.H. NAT/LP	HT. TO VENT	TANK HT.	DIAM.	HT. TO GAS CONN.	VENT SIZE	ROOF JACK VENT SZ.	HT. TO SIDE T&P	WATER CONN.	SHIP. WT. (LBS)	ENERGY FACTOR NAT/LP	AVG. ANN. OPER. COSTS		
																NAT.	LP	
T A L L	30	21VR30DV	30	30.3	51	57	57	17-3/4	14-1/2	3	5	51-1/2	20	110	0.61	\$299	\$503	
	40	21VR40DV	30	30.3	60	57-1/2	57-1/2	19-3/4	14-1/2	3	5	51-1/2	20	125	0.59	\$309	\$520	
	50	21VR50DV	32	32.3	67	57	57	21-3/4	14-1/2	3	5	51-1/2	20	150	0.58	\$315	\$529	

THE WARRIOR DV IS U.L. CERTIFIED FOR MANUFACTURED HOME USE, MEETS ANSI STANDARDS FOR MODULAR HOME CONSTRUCTION, AND COMPLIES WITH HUD SAFETY AND CONSTRUCTION STANDARDS.

ROOF JACKS

12" Non Adjustable & Air Inlet	AP12032E
15-32" Adjustable & Air Inlet	AP12032B
30-60" Adjustable & Air Inlet	AP12032C
48-95" Adjustable & Air Inlet	AP12032D

AIR INLETS

6" Non Adjustable	AP12019B
11-22" Adjustable	AP12017B

EXTENSION PIPE KIT

Roof Jack Extension Pipe Kit	AP12021
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- Roof jack and air inlet must be ordered separately with 30, 40 and 50 gallon direct vent models and must be in accordance with instructions furnished with the heater. No other roof jack or air inlet assemblies are approved for installation with this heater. Clamps and secure strapping are packed in water heater carton.

Adjustable Roof Jack Vent

New design allows adjustment to roof pitches of up to 5/12". Four roof jacks available to accommodate roof thickness of 12" up to 95".

Direct Combustion Air Inlet

Air is drawn directly into combustion chamber through air inlet fixed to base; 1/2" screen for rodent protection.





Available in 40 and 50 Gallon Tall Gas Models

- ▶ **NEW FVIR Compliant!**
- ▶ **NEW Roof Jack Flange Adjustment Range Available up to 34° (8 - 12)**
- ▶ **NEW Smaller Foot Print – No External Air Tube**
- ▶ **5-Year Limited Tank Warranty*** ▶ **1-Year Limited Parts Warranty***

- Installed side mounted T&P valve
- Can be installed anywhere in the home
- Field convertible controls for natural gas or LP operation
- 3/4" hot and cold top connections
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements
- Piezo ignitor – easy light pilot
- Easily fits into a standard drain pan

- All models are certified for applications up to 7,700 feet above sea level.
- Exclusive Rheemglas® lining
- Certified for manufactured (HUD) and modular construction

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)					ENERGY INFORMATION		
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR.		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H. NAT.	DIAM. A	TANK HEIGHT B	VENT SIZE C	WATER CONNECTION	SHIP. WT. (LBS)	ENERGY FACTOR NAT./LP	AVG. ANN. OPER. COSTS	
			NAT.	LP	NAT.	LP								NAT.	LP
TALL	40	22V40FDVX	36	30	36.4	30.3	66	19-3/4	59-3/4	5	3/4	155	0.59	\$309	\$520
	50	22V50FDVX	36	32	36.4	32.3	78	21-3/4	59-1/2	5	3/4	165	0.59	\$309	\$520

Note: For 1 year tank warranty, substitute "I" for "V" in model number. Example: 22I40FDVX.

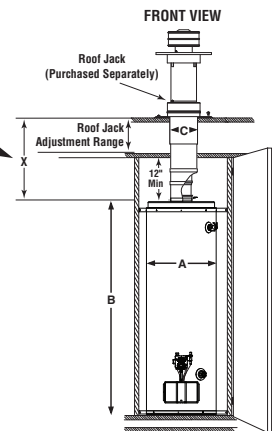
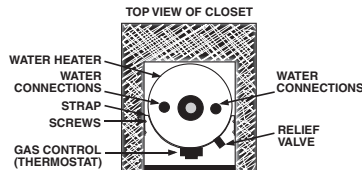
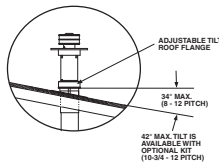
THE WARRIOR DVX IS ANSI AND U.L. CERTIFIED FOR USE IN MODULAR HOME CONSTRUCTION AND MANUFACTURED HOME USE. THIS UNIT COMPLIES WITH HUD SAFETY AND CONSTRUCTION STANDARDS.

CO-AXIAL ROOF JACK SIZING TABLE

34° MAX. (8-12 PITCH) ROOF JACK KIT PART NUMBER	ROOF JACK ADJUSTMENT RANGE (SEE X)
AP14363A	24 - 37 Inches
AP14363B	33 - 68 Inches
AP14363C	45 - 97 Inches
AP14363D	60 - 130 Inches
AP14363E	72 - 160 Inches

NOTE: 42° Max. adjustment roof jacks available.

Roof Jacks must be ordered separately with this direct vent water heater and installed in accordance with the instructions furnished with the heater. No other roof jack or vertical vent kit is approved for installation with this heater.





Available in 40, 50, 65 and 80 Gallon Tall – 30 and 50 Gallon Medium – 30, 38, and 47 Gallon Short Models

- ▶ **8-Year* Limited Tank and Parts Warranty with a Professional Installation.**
- ▶ **With ProtectionPlus™ the 8-Year Limited Tank Warranty Becomes 12 Years! SEE PAGE 98.**

- Brass drain valve
- Stainless steel lower heating element
- EverKleen™ self cleaning device
- Premium grade anode rod
- Temperature and pressure relief valve included
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Isolated tank design reduces conductive heat loss
- Electric junction box located above heating elements for easy installation
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Compliant with many electric utility incentive programs
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) and C.E.C. requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION			FEATURES		DIMENSIONS				ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	HEIGHT (IN)	HEIGHT TO WATER CONN.	DIAMETER (IN.)	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
T A L L	40	RHE PRO40-2	56	21	46-3/4	46-3/4	22-1/4	104	0.95	\$492
	40	RHEH PRO40-2	57	21	59-1/4	59-1/4	17-3/4	96	0.92	\$508
	50	RHE PRO52-2	67	21	57	57	22-1/4	123	0.95	\$492
	65	RHE PRO66-2	71	21	58-3/4	58-3/4	23	160	0.92	\$508
	80	RHE PRO80-2	88	21	59	59	24-1/2	181	0.92	\$508
M E D.	30	RHEM PRO30-2	44	21	36	36	19-3/4	80	0.93	\$503
	50	RHEM PRO52-2	62	21	46	46	24-1/4	128	0.93	\$503
S H O R T	30	RHES PRO30-2	42	21	30	30	22-1/4	83	0.93	\$503
	38	RHES PRO40-2	46	21	31-1/2	31-1/2	23	108	0.92	\$508
	47	RHES PRO50-2	55	21	32	32	26-1/4	149	0.91	\$514

- Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 4500 watt upper and lower heating elements.
- **If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.**
- Special Wiring Options – A limited number of special wiring options are available. Consult factory for price and availability.
- All models equipped with heat traps.

Recovery = wattage/2.42 x temp. rise °F.

Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$



Available in 40, 50, 85 and 105 Gallon Electric Models

▶ Lifetime Limited Tank Warranty* ▶ 6-Year Limited Parts Warranty*

- Seamless, blow-molded, polybutene tank – impervious to rust and corrosion
- Multiple layers of filament wound fiberglass give the tank unmatched strength
- Polyurethane insulation helps reduce energy consumption
- The highest energy factors (EF) available!
- Pipe wrap energy saving kit included to achieve maximum energy savings
- Recessed drain valve is out of the way of brooms and scrubbers
- Tough molded polyethylene outer shell resists dents and scratches
- Bowl shaped bottom allows complete sediment draining
- High temperature polysulfone dip tubes
- Thermally fused upper element provides protection against “dry-firing” – titanium lower element for superior resistance to lime build-up

- Factory installed conduit between element control boxes
- All plastic tank eliminates the need for an anode rod
- Factory installed temperature and pressure relief valve
- Factory installed vacuum relief valve

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION			FEATURES		DIMENSIONS				ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER †	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	HEIGHT (IN)	HEIGHT TO WATER CONN.	DIAMETER (IN.)	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
T A N K	40	MR40245	52	20	61-1/2	65-1/2	21-3/4	90	0.94	\$497
	50	MR50245	61	20	62-3/4	66-3/4	23-1/2	100	0.94	\$497
	85	MR85245	91	20	66-1/4	70-1/4	28-1/4	134	0.92	\$508
	105	MR105245	104	20	66-3/4	70-3/4	30-1/4	152	0.91	\$514
SHORT	50	MSR50245	54	20	43-1/4	47-1/4	28-1/4	95	0.90	\$520

†Canadian models have different model numbers than U.S. models. Add a “C” before the model number (e.g., CMR85245) when ordering.

- Water heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 4500 watt upper and lower heating elements.
- 3000 and 3800 watt elements available. If heating elements of different wattages than those shown are demanded, they must be specifically requested.
- For height to top of T&P and heat traps add 3-1/2" to the height to water connection.
- Maximum test pressure: 300 PSI
- Maximum working pressure: 150 PSI

Recovery = wattage/2.42 x temp. rise °F.

Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$

Your Marathon is warranted not to leak for as long as you own your home*...

The Marathon offers this no-leak promise because of its superior, non-metallic PermaGuard tank construction... A seamless blow molded polybutene inner tank with a filament wound fiberglass outer tank for maximum strength. Superior performance, high-efficiency and low operating cost...for a lifetime*!

* See Residential Warranty Certificate at your dealer for complete warranty information.



Available in 85 and 105 Gallon Electric Models

▶ 10-Year Limited Tank Warranty* ▶ 5-Year Limited Parts Warranty*

- Specifically designed for installation in harsh environments and a warranty to back it up!
- Titanium elements for superior corrosion resistance offering the longest life in severe water conditions
- Thermostat delivers water temperature consistently at 170° F and up to 175° F for high temperature applications
- Seamless, blow-molded, polybutene tank – impervious to rust and corrosion
- Multiple layers of filament wound fiberglass give the tank unmatched strength
- Tough molded polyethylene outer shell resists dents and scratches
- Full port, full flow brass drain valve for faster draining and complete sediment removal
- Recessed drain valve is out of the way of brooms and scrubbers

- High temperature polysulfone dip tube
- All plastic tank eliminates the need for an anode rod
- Factory installed temperature and pressure relief valve
- Factory installed vacuum relief valve

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION			FEATURES		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	TANK HEIGHT	HEIGHT TO WATER CONN.	DIAMETER	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
TALL	85	MHD85238	87	17.3	66-1/4	70-1/4	28-1/4	134	0.92	\$508
	105	MHD105238	101	17.3	66-3/4	70-3/4	30-1/4	152	0.91	\$514

- Water heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 3800 watt upper and lower heating elements.
- For height to top of heat traps add 3-1/2" to the height to water connection.
Maximum test pressure: 300 PSI
Maximum working pressure: 150 PSI

Recovery = wattage/2.42 x temp. rise °F.
Example: $\frac{3800W}{2.42 \times 90^\circ} = 17.3 \text{ GPH}$

Rheem offers this 10-Year promise because of the superior, non-metallic tank construction of the Marathon.

The unit utilizes a seamless blow molded inner tank with a structural fiberglass shell for maximum strength.

Superior structural performance with high efficiency ... for any environment*!

* See Residential Warranty Certificate at your dealer for complete warranty information.

Hybrid Heat Pump Electric Water Heaters



Available in 40 and 50 Gallon Models

► 10-Year Limited Tank and Parts Warranty*

- High 2.0 Energy Factor (EF)
- 3 Operation modes
 - Energy Saver (heat pump)
 - High Demand (heat pump with element backup)
 - Electric Heat Only (two elements)
- 2-1/2" Non-CFC foam insulation
- Premium restored anode rod protection, extends tank life
- Exclusive Rheemglas® tank lining
- Factory installed T&P valve
- Brass drain valve
- Easy access side connections
- Standard 3/4" NPT water inlet, outlet, and condensate drain connections
- 21" diameter, fits through access doors
- Easily replaces a standard electric water heater
- Stainless steel resistor elements

- Heat pump operating range 40° F to 120° F
- Built in freeze/overheat protection
- Easy access, top mounted washable air filter

* See Residential Warranty Certificate for complete warranty information.



User Friendly Integrated Touch Pad Controls



HANLEY WOOD
Stimulus approved seal
provided by Hanley Wood



Energy Factor and Average Annual Operating Costs based on 2007 D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.

	DESCRIPTION				DIMENSIONS (SHOWN IN INCHES)			ENERGY INFORMATION	
	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING GPH	RECOVERY IN GPH @90° F RISE	HEIGHT A	DIAMETER B	APPROX. SHIP WT. (LBS)	ENERGY SAVER	AVG. ANN. OPER. COST
NEW!	40	★HP40RH	56	21	65-1/2	21	190	2.0 EF	\$234
	50	★HP50RH	67	21	75-1/2	21	200	2.0 EF	\$234

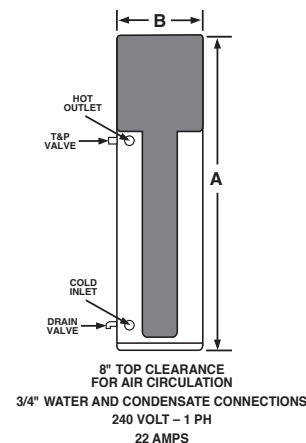
★ Energy Star compliant model.

How Rheem Hybrid Heat Pump Water Heaters Work

Rheem air-source heat pump water heaters work much like a refrigerator in reverse. The heat pump extracts the heat from warm air, intensifies the heat with a compressor, delivers the heat to the water, and exhausts the cooler air. Because it uses the warm ambient air temperature to do most of the work, it is a very efficient way to heat water.

Select The Right Installation Site

For best heat pump operation, the temperature in your region should average 40 degrees or above. Choose a warm installation site like an attic, garage or basement. Because a heat pump tends to cool the area where they are located, any type of air-source heat pump works more efficiently in a warm location. The heat pump will need 1,000 cubic feet of air space around it (approx. 10x10x10 ft. room).





Available in 30, 40, 50, 65, 80 and 120 Gallon Tall – 30 and 50 Gallon Medium – 20, 30, 38 and 47 Gallon Short Models

▶ **6-Year Limited Tank and Parts Warranty***

▶ **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years! SEE PAGE 98.**

- EverKleen™ self cleaning device
- Brass drain valve
- Temperature and pressure relief valve included
- Isolated tank design reduces conductive heat loss
- High efficiency resistored heating elements
- Anode rod equalizes aggressive water action
- Electric junction box located above heating elements for easy installation
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Meets or exceeds requirements of the National Appliance Energy Conservation Act (NAECA)



HIGH EFFICIENCY MODELS FEATURE:

- High performance and lower operating cost
- Compliant with many electric utility incentive programs

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



TYPE	DESCRIPTION		FEATURES		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFORMATION	
	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	TANK HEIGHT	HEIGHT TO WATER CONN.	DIAMETER	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
TALL	40	83VR40-2	56	21	46-3/4	46-3/4	22-1/4	104	0.95	\$492
	50	83VR52-2	67	21	57	57	22-1/4	123	0.95	\$492
	65	83VR66-2	71	21	58-3/4	58-3/4	23	160	0.92	\$508
	80	83VR80-2	88	21	59	59	24-1/2	181	0.92	\$508
MED.	50	83MVR52-2	62	21	46	46	24-1/4	128	0.93	\$503
TALL	30	82V30-2	48	21	45-3/4	45-3/4	17-3/4	80	0.93	\$503
	40	82V40-2	53	21	46-1/2	46-1/2	19-3/4	95	0.92	\$508
	40	82VH40-2	57	21	59-1/4	59-1/4	17-3/4	96	0.92	\$508
	50	82V52-2	67	21	57	57	19	107	0.91	\$514
	65	82V66-2	71	21	58-1/2	58-1/2	21	150	0.89	\$525
	80	82V80-2	88	21	59	59	23	177	0.86	\$544
	120	82V120-2	99	21	62-1/2	62-1/2	28-1/4	324	0.85	\$550
MED.	30	82MV30-2	44	21	36	36	19-3/4	80	0.93	\$503
	50	82MV52-2	62	21	46	46	21-3/4	117	0.90	\$520
SHORT	20	82SV20-2	—	21	31-1/2	31-1/2	17	62	N/A	N/A
	30	81SVB30-2*	42	21	30	30	19-3/4	90	0.93	\$503
	30	82SV30-2	42	21	30	30	22-1/4	83	0.93	\$503
	38	82SV40-2	45	21	31-1/2	31-1/2	23	108	0.92	\$508
	38	82SVB40-2*	45	21	31-1/2	31-1/2	23	108	0.93	\$503
	47	82SV50-2	55	21	32	32	26-1/4	149	0.91	\$514

* Water heater dimensions prior to installing insulation blanket that is included with water heater.

- Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 4500 watt upper and lower heating elements.
- **If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.**
- Single element models available on special order (6000W max.). Substitute "-1" for "-2" in model number.
- Special Wiring Options – A limited number of special wiring options are available. Consult factory for price and availability.
- All models equipped with heat traps.

Recovery = wattage/2.42 x temp. rise °F.

Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$



Available in 15 and 20 Gallon Electric Models

- ▶ **Residential Use: Lifetime Limited Tank Warranty, 6-Year Limited Parts Warranty***
- ▶ **Light Duty Commercial Use: 10-Year Limited Tank Warranty, 1-Year Limited Parts Warranty***

- Seamless, blow-molded, polybutene tank – impervious to rust and corrosion
- Multiple layers of filament wound fiberglass give the tank unmatched strength
- Polyurethane insulation helps reduce energy consumption
- The most energy efficient in its class
- Recessed brass drain valve is out of the way of brooms and scrubbers
- Tough molded polyethylene outer shell resists dents and scratches
- Bowl shaped bottom allows complete sediment draining
- High temperature polysulfone dip tubes
- All plastic tank eliminates the need for an anode rod
- Thermally fused element to protect tank against “dry-fire”; low watt, density for long life
- Factory installed temperature and pressure relief valve
- Factory installed vacuum relief valve
- Inlet and outlet connections are 3/4" NPT
- Water tight grommets keep out overhead moisture and condensation

* See Residential Warranty Certificate for complete warranty information.



DESCRIPTION		FEATURES		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFORMATION	
GAL. CAP.	MODEL NUMBER†	ELEMENT WATTAGE	VOLTAGE	TANK HEIGHT	HEIGHT TO WATER CONN.	TANK DIAMETER	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
15	MR15120	2000	120	31-3/4	35-3/4	21-3/4	58	N/A	N/A
20	MR20120	2000	120	30-1/2	34-1/2	23-1/2	61	N/A	N/A
20	MR20230	3000	240	30-1/2	34-1/2	23-1/2	61	N/A	N/A

†Canadian models have different model numbers than U.S. models. Add a “C” before the model number (e.g., CMR20230) when ordering.

Marathon Point-of-Use water heaters are built to the same specifications as our full-size Marathons. These point-of-use water heaters are great for applications where the larger water heaters won't fit, or for special uses such as:

- Apartments and condo's
- Restrooms in offices and commercial buildings
- Cabins, camps and recreational property
- Lavatories in large homes away from central water heating system

The Marathon Point-of-Use Water Heater Warranty

RESIDENTIAL USE

LIFETIME/6 YEARS*

Privately owned, single family dwellings – the tank is warranted not to leak “for as long as you own your home”. If the home is sold, the warranty reverts to fifteen years from the date of the installation and the second owner receives coverage for the time remaining. Parts are warranted for 6 years from the date of manufacture or 5 years from the effective date, whichever is greater.

LIGHT DUTY COMMERCIAL USE

10 YEARS/1 YEAR*

Apartments, condominiums, restrooms in office and commercial buildings, multifamily housing or any light duty commercial/industrial use – the tank is warranted for 10 years from the date of installation. Parts are warranted for 1 year from the date of manufacture.

* See Marathon Point-of-Use Warranty Certificate at your dealer for complete warranty information.



2-1/2 Gallon



6, 10, 15, 20
and 30 Gallon

Available in 2-1/2, 6, 10, 15, 20 and 30 Gallon Models

► 6-Year Limited Tank and Parts Warranty*

- Space-saving design for installation in limited spaces
- High efficiency heating element
- Temperature and pressure relief valve included
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

2-1/2 gallon model features:

- 120 volt model with 3 prong cord set... simply plug it in! 240 volt model includes a junction box for easy installation of 1/2" or 3/4" conduit
- Wall bracket for easy wall mount installations
- Corrosion resistant 1/4 turn drain valve

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)						ENERGY INFORMATION	
GAL. CAP.	MODEL NUMBER	HEIGHT	HT. TO HOT WATER OUTLET	DIAMETER	HT. TO SIDE T&P	HT. TO COLD WATER INLET	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
2.5	81VP2S	14	14	9-3/4	—	—	22	N/A	N/A
6	81VP6S	15-1/4	12-1/2	15-3/4	11-1/2	4-1/4	36	N/A	N/A
10	81VP10S	23	20-1/2	15-3/4	19-1/2	4-1/4	46	N/A	N/A
15	81VP15S	24-1/4	22	17-3/4	21	4-1/2	54	N/A	N/A
20	81VP20S	25-1/4	22-3/4	19-3/4	21-3/4	5	69	N/A	N/A
30	82VP30-1*	30	23	21-3/4	23	2-3/4	91	0.93	\$503

* For double element, substitute "-2" suffix for "-1". Not available in 120 volt. Available with 2-wire (single phase) outlet only. (6000 watt max.).

• **2.5 gallon model:** 1/2" N.P.T. inlet and outlet. Relief valve connection 3/4".

Available with 120 or 240 volt AC single phase only, 120v (1440w) 240v (1500w)

Power cord supplied with 120 volt models only.

Optional 14" diameter safety catch pan with 1" side drain outlet available (Part No. AS-21990A-G).

• **6 through 30 gallon models:** 3/4" N.P.T. outlet, inlet, anode rod. T & P valve connections. Not available with 3 phase wiring.

Water heaters furnished standard with 120 volt AC, 2000 watt single element.

Special wiring options – a limited number of wiring options are available. Consult factory for price and availability.

CONSTRUCTION DETAILS: The cold water enters the tank a few inches from the bottom. Both hot and cold water lines may be connected directly to the water heater without special nipples or tees. The relief valve simply screws into the opening provided.



Available in 40 Gallon Model

► 6-Year Limited Tank and Parts Warranty*

- Brass drain valve
- 36" high top features a four inch high integral back splash
- Baked enamel top is acid and heat resistant
- High efficiency screw-in type heating elements
- Temperature and pressure relief valve included
- Recessed base and channel in back panel permit water heater to fit snugly against wall
- Cold water inlet, hot water outlet, relief valve and electrical connections at top of tank for easy access and fast economical installation
- Rheemglas® tank lining resists corrosion and prolongs tank life

- Direct immersion resistored heating elements are completely immersed – all the heat goes into the water
- Extra thick fiberglass insulation
- Automatic thermostat keeps water at desired temperature
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

* See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION			FEATURES		DIMENSIONS				ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	WIDTH (IN.)	HEIGHT (IN)	HEIGHT TO WATER CONN.	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
	40	88H-40D	45	21	25	36	33	156	0.88	\$531

- Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 4500 watt upper and lower heating elements.
- **If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.**
- Special Wiring Options – A limited number of special wiring options are available. Consult factory for price and availability.

Recovery = wattage/2.42 x temp. rise °F.

Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$



Available in 20, 30, 40 and 50 Gallon Side Connect Models

► 5-Year Limited Tank Warranty* ► 1-Year Limited Parts Warranty*

- Lifeguard™ stainless steel element**
- Isolated tank design reduces heat loss
- High efficiency heating elements
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Anode rod equalizes aggressive water action
- Automatic temperature control thermostat
- Over-temperature protector automatically cuts off power in excess temperature situations
- Electrical junction box (for 1/2" and 3/4" conduit) placed above heating elements for easy installation

- Meets H.U.D. Safety and Construction Standards, ASHRAE 90A-80 and National Appliance Energy Conservation Act (NAECA) requirements

Design evaluated in accordance with Part 3280.707(d)(1) or (2) of HUD Mobile Home Construction and Safety Standards for Energy Efficiency.

* See Residential Warranty Certificate for complete warranty information.

** Double element models upper element only.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.



DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFORMATION	
T Y P E	GAL. CAP.	MODEL NUMBER	FIRST HOUR RATING G.P.H.		RECOVERY IN G.P.H. @ 90° RISE		TANK HEIGHT	HEIGHT TO WATER CONN.	DIAMETER	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
			3500 WATTS	4500 WATTS	3500 WATTS	4500 WATTS						
SIDE CONNECT												
T A L L	20	72V20-1	—	—	—	—	31-1/2	25-1/2	17-3/4	62	N/A	N/A
	30	72V30-2	41	46	16	21	45-1/2	39-3/4	17-3/4	70	0.93	\$503
	40	72V40-2	47	51	16	21	46-3/4	40-1/4	19-3/4	94	0.93	\$503
	50	72V52-2	51	56	16	21	57	50-3/4	19-3/4	108	0.91	\$514

- If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.
- Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 3500 watt or 4500 watt heating elements. 71-20 furnished with standard 120 volt AC, single phase, 2000 watt heating element.
- Special Wiring Options – A limited number of special wiring options are available. Consult factory for price and availability.
- For single element, substitute “-1” suffix for “-2”.

Recovery = wattage/2.42 x temp. rise °F.

Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$

Available in 80 and 119 Gallon Capacities

- ▶ **6-Year Limited Tank Warranty*** ▶ **10-Year Limited Collector Warranty****
- ▶ **2-Year Limited Pump and Control Warranty****

The System

- Closed loop glycol design
- Single and double collector systems
- Included: Solaraide™ HE tank, collectors, controller, multi-speed pump, mixing valve, glycol solution, thermal expansion tank (for glycol loop)
- Sold separately: 18 AGW sensor wire, tilt mount kits (consult factory for mounting options)
- OG-300 Certification by SRCC (Pending on RS80-40BP model)

The Heat Exchanger Tank

- All models have at least 40 gallons of hot water storage at all times
- Double wall heat exchanger: copper tubing wrap-around design
- Single element backup heating source
- 3/4" Water and collector loop connections

The Collectors

- Flat plate design
- Black paint absorber coating
- OG-100 certified by SRCC

* See Residential Warranty Certificate for complete warranty information.

**See SolPak Warranty Certificate for complete system warranty information.



SYSTEM INFORMATION			COLLECTOR INFORMATION											WATER HEATER INFORMATION			
STORAGE CAPACITY (US GAL)	SYSTEM MODEL NUMBER	SOLAR ENERGY FACTOR*	NUMBER OF COLLECTOR PANELS	ABSORBER COATING	WIDTH (INCHES)	LENGTH (INCHES)	DEPTH (INCHES)	AREA SQ. FT. (GROSS)	DRY WEIGHT (LBS)	FLUID CAPACITY (US GAL)	DESIGN FLOW RATE (GPM)	MAX FLOW RATE (GPM)	MAX. OPERATING PRESSURE	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX. WEIGHT (LBS)	ELEMENT WATTAGE
80	RS80-40BP	2.4	1	Black Paint	48-1/8	122-1/4	3-1/4	40.81	141	1.2	1.04	12	160	58-3/4	24-1/2	222	4500 W
80	RS80-48BP	2.6	2	Black Paint	36-1/8	98-1/4	3-1/4	24.61	80	.78	0.62	12	160	58-3/4	24-1/2	222	4500 W
119	RS120-64BP	3.2	2	Black Paint	48-1/8	98-1/4	3-1/4	32.79	106	1.0	0.83	12	160	62	28-1/4	380	4500 W

* As rated by the Solar Rating & Certification Corporation (SRCC)

Get a Federal Tax Credit up to 30% of the cost of equipment and installation with a Solar Water Heater.

Applies to existing or new residential construction. Tax credit available through Dec. 2016. See your Tax Advisor for details.

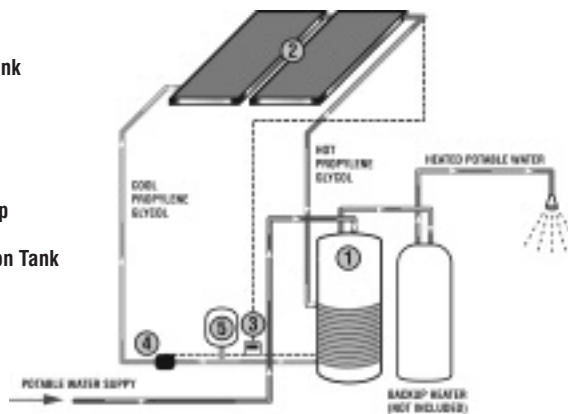
① Heat Exchange Tank

② Collectors

③ Controller

④ Multi-Speed Pump

⑤ Thermal Expansion Tank



Available in 85 and 105 Gallon Capacities

- ▶ **Lifetime Limited Tank Warranty*** ▶ **10-Year Limited Collector Warranty****
- ▶ **5-Year Limited Tank Parts Warranty*** ▶ **2-Year Pump Controller Warranty****

The System

- Closed loop glycol system
- Double collector systems
- Included: Marathon tank, collectors, pump controller, mixing valve, glycol solution (3 gallons), thermal expansion tank (for glycol loop) and more
- Sold separately: 18 AGW sensor wire, tilt mounting kits (consult factory for mounting options)

The Tank

- Strong, polybutene material built to last as long as the solar system
- Unique, corrosion resistant design will never rust
- Lightweight and easy to install
- Electrical element backup heating source

The Collectors

- Two sizes: 3'x8' and 4'x8'
- Flat plate design
- Black paint absorber coating
- OG-100 certified by SRCC

* See Residential Warranty Certificate for complete warranty information.

** See System Warranty Certificate for complete warranty information.



SYSTEM INFORMATION			COLLECTOR INFORMATION											WATER HEATER INFORMATION**			
STORAGE CAPACITY (US GAL)	SYSTEM MODEL NUMBER	SOLAR ENERGY FACTOR	NUMBER OF COLLECTOR PANELS	ABSORBER COATING	WIDTH (INCHES)	LENGTH (INCHES)	DEPTH (INCHES)	AREA SQ. FT. (GROSS)	DRY WEIGHT (LBS)	FLUID CAPACITY (US GAL)	DESIGN FLOW RATE (GPM)	MAX FLOW RATE (GPM)	MAX. OPERATING PRESSURE	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX. WEIGHT (LBS)	ELEMENT WATTAGE
85	RHSME85-48P	*	2	Black Paint	36-1/8	98-1/4	3-1/4	24.61	80	.78	0.62	12	150	66-1/4	28-1/4	134	4500 W
105	RHSME105-64P	*	2	Black Paint	48-1/8	98-1/4	3-1/4	32.79	106	1.0	0.83	12	150	66-3/4	30-1/4	152	4500 W

*Rating by the Solar Rating & Certification Corporation (SRCC) pending.

**240V AC

1 Storage Tank

2 Collectors

3 Solar Control System



The Pump Controller

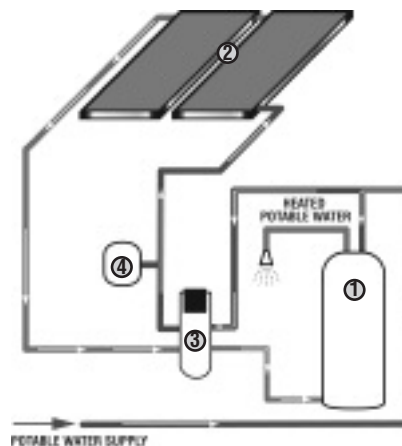
- Combines a variable speed solar collector circulator, storage tank circulator, digital controller and heat exchanger in a single unit
- Digital display with energy monitoring
- Flexible, programmable inputs/outputs

4 Thermal Expansion Tank

Get a Federal Tax Credit up to 30% of the cost of equipment and installation with a Solar Water Heater.

Applies to existing or new residential construction. Tax credit available through Dec. 2016. See your Tax Advisor for details.

Solar Control System	
Volts AC	120
Hz	60
Phase	1
Amps	2
Height	18-3/8"
Width	6-3/4"
Ship Weight (lbs)	26.5



Available in 80 and 119 Gallon Capacities

- ▶ **6-Year Limited Tank Warranty*** ▶ **10-Year Limited Collector Warranty****
- ▶ **2-Year Pump and Control Warranty****

The System

- Open loop design
- No glycol required
- Single and double collector systems
- Included: Solaraide™ storage tank, collectors, controller, multi-speed pump, mixing valve, freeze protection valve, air release valve, check valve
- Sold separately: 18 AGW sensor wire, tilt mount kits (consult factory for mounting options)
- OG-300 Certification by SRCC (Pending)

The Tank

- Single element back-up heating source
- 3/4" water and collector loop connections

The Collectors

- Two sizes: 4' x 8' and 4' x 10'
- Flat plate design
- Black paint absorber coating
- OG-100 certified by SRCC

* See Residential Warranty Certificate for complete warranty information.

** See SolPak Warranty Certificate for complete system warranty information.



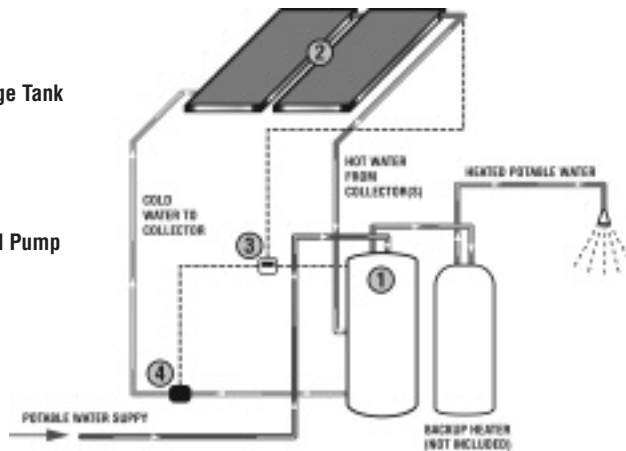
SYSTEM INFORMATION			COLLECTOR INFORMATION											WATER HEATER INFORMATION			
STORAGE CAPACITY (US GAL)	SYSTEM MODEL NUMBER	SOLAR ENERGY FACTOR*	NUMBER OF COLLECTOR PANELS	ABSORBER COATING	WIDTH (INCHES)	LENGTH (INCHES)	DEPTH (INCHES)	AREA SQ. FT. (GROSS)	DRY WEIGHT (LBS)	FLUID CAPACITY (US GAL)	DESIGN FLOW RATE (GPM)	MAX FLOW RATE (GPM)	MAX. OPERATING PRESSURE	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX. WEIGHT (LBS)	ELEMENT WATTAGE
80	RSO80-40BP	2.3	1	Black Paint	48-1/8	98-1/4	3-1/4	40.81	150	1.2	1.04	25	160	58-3/4	24-1/2	192	4500 W
119	RSO120-64BP	1.8	2	Black Paint	122-1/4	98-1/4	3-1/4	32.79	106	1.0	0.83	12	150	62	28-1/4	336	4500 W

* As rated by the Solar Rating & Certification Corporation (SRCC)

Get a Federal Tax Credit up to 30% of the cost of equipment and installation with a Solar Water Heater.

Applies to existing or new residential construction. Tax credit available through Dec. 2016. See your Tax Advisor for details.

- ① Solar Storage Tank
- ② Collectors
- ③ Controller
- ④ Multi-Speed Pump





RS47-21BP



RS80-42BP

Closed loop passive solar water heating systems

► 5-Year Limited Warranty*

- Passive design, requires no pumps or controllers
- Available in 2 system configurations
- Complete system includes tank, collector(s), installation kit, and heat transfer fluid
- 5-year limited warranty*
- Closed loop, indirect heat exchange
- Magnesium alloy anode rod for prolonged tank life
- Black polyester powdercoat collector absorber surface
- 35 multi-flow risers for faster heat transfer
- Steel tank with vitreous enamel tank lining
- Propylene Glycol heat transfer fluid and antifreeze protection
- Immersion, copper sheath backup element
- Can be used in stand alone or pre-heat applications

* See Residential Warranty Certificate for complete warranty information.



DESCRIPTION						ROUGHING IN DIMENSIONS					
GAL. STORAGE CAP.	SYSTEM MODEL NUMBER	COLLECTOR PANELS	WORKING PRESSURE (TANK)	DELIVERY CAPACITY (SOLAR)	BACKUP ELEMENT SPECIFICATIONS	SYSTEM (IN INCHES)		TANK (IN INCHES)	COLLECTOR (IN INCHES)	APPROX. SYSTEM WEIGHT	
						LENGTH	WIDTH			EMPTY	FULL
47	RS47-21BP	1	145 PSI	42.3 GAL.	2.4kw, 240V	97-1/2	58-1/2	58.5 x 20.1 x 20.1	76.3 x 40.3 x 3.04	236 LBS.	641 LBS.
80	RS80-42BP	2	145 PSI	68 GAL.	2.4kw, 240V	97-1/2	91	90.9 x 20.1 x 20.1	76.3 x 40.3 x 3.04	402 LBS.	1,079 LBS.

Get a Federal Tax Credit up to 30% of the cost of equipment and installation with a Solar Water Heater.

Applies to existing or new residential construction. Tax credit available through Dec. 2016. See your Tax Advisor for details.



Available in 80 and 120 Gallon Models

► 10-Year Limited Tank Warranty* ► 6-Year Limited Parts Warranty*

- Incoloy stainless steel 4.5 KW heating element
- Single wall heat exchanger
- 1-1/2" Porcelain coated internal coil
- Brass drain valve
- Two factory installed – heavy-duty magnesium anode rods
- Element position allows for 40 gallons of hot water storage on the 80 gallon model and 50 gallons of hot water storage on the 120 gallon models
- 1" NPT connections
- 2" Non-CFC foam insulation
- Immersion well for probe type sensors

* See Residential Warranty Information Brochure for complete warranty information.



DESCRIPTION					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)									SHIPPING WEIGHT (LBS.)
MODEL NUMBER	ELECTRIC ELEMENT	NUMBER OF COILS	COIL SURFACE (SQ. FT.)	STORAGE (GAL.)	A	B	C	D	E	F	G	H	I	
RSID-80	4.5 KW	1	14.14	75	24	64	57-1/8	57-1/8	31-1/2	19-1/4	6-1/2	5	34-1/4	307
RSID-120	4.5 KW	1	14.14	110	28	65	57-3/4	57-3/4	33-3/4	16-1/4	8-3/4	6-1/2	36-1/4	407

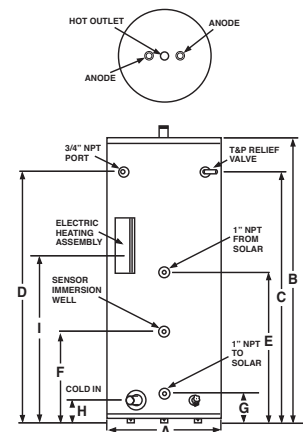
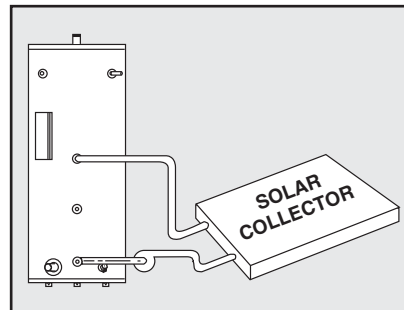
Warning: Installation should be in accordance with all national and/or local codes.

Caution: The recommended maximum hot water temperature setting for normal residential use is 120°F. Manufacturer recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding.

Pressures: (all) Working pressure, 150 psi; testing pressure, 300 psi

Electrical Rating: 4.5KW, 240V

PRESSURE DROP THROUGH COIL (Feet of H ₂ O)		
Flow Rate	Head Loss (Feet)	
	75 Gallon	110 Gallon
2 GPM	.2	.2
3 GPM	.3	.3
4 GPM	.5	.5
5 GPM	.6	.6



Marathon® Thermal Storage Tanks



Available in 50, 85 and 105 Gallon Models; 2 Port and 3 Port Configurations

► **Lifetime Limited Tank Warranty*** ► **6-Year Limited Parts Warranty***

Designed for Alternative Energy Applications

- Specifically designed for installation as a thermal storage tank
- Backup electrical element provides 40 gallons or more of heated water
- Large water connections for lower pressure drop

Built to Last!

- Seamless, blow-molded, polybutene tank – impervious to rust and corrosion
- Titanium sheath elements for superior resistance to lime build-up
- Multiple layers of filament wound fiberglass give the tank unmatched strength
- Tough molded polyethylene outer shell resists dents and scratches

Designed for Easy Installation

- Water port fittings located at front of storage tank for convenient access
- Full port, full flow brass drain valve for fast draining
- Factory installed temperature and pressure relief valve and vacuum relief valve

Additional features

- Thermally fused element provides protection against “dry-firing”
- Bowl shaped bottom allows for complete sediment removal
- Recessed drain valve is out of the way of brooms and scrubbers

*See Warranty Certificate for complete details.



DESCRIPTION			FEATURES	ROUGHING IN DIMENSIONS (SHOWN IN INCHES)					
T Y P E	GAL. CAP.	MODEL NUMBER †		TANK HEIGHT A	HEIGHT TO WATER CONN. B	DIAMETER C	HEIGHT TO LOWER PORT D	HEIGHT TO UPPER PORT E	APPROX. SHIP WT. (LBS.)
T A L L	50	MTS50200	N/A	62-3/4	66-3/4	23-1/2	13-1/2	46	100
	85	MTS85200	N/A	66-1/4	70-1/4	28-1/4	14-1/2	49-1/2	134
	105	MTS105200	N/A	66-3/4	70-3/4	30-1/4	15	50	152
	85	MTS85245	4500	66-1/4	70-1/4	28-1/4	14-1/2	N/A	134
	105	MTS105245	4500	66-3/4	70-3/4	30-1/4	15	N/A	152
	85	MTS85345	4500	66-1/4	70-1/4	28-1/4	14-1/2	26-1/2	134
	105	MTS105345	4500	66-3/4	70-3/4	30-1/4	15	27-1/2	152

†Canadian certified models have different model numbers than U.S. models. Add a “C” before the model number (e.g., CMTS85245) when ordering.

†Canadian certified models are not available on thermal storage tanks without backup elements (e.g., MTS50200, MTS85200, MTS105200)

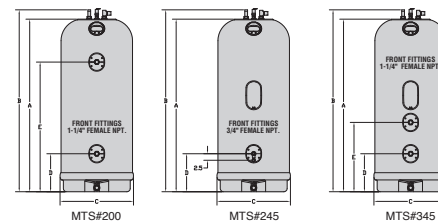
- Storage tanks furnished with elements are standard 240 volt AC.
- Maximum test pressure: 300 PSI
- Maximum working pressure: 150 PSI
- Maximum water temperature: 180° F

- ALL TOP FITTINGS 3/4" FEMALE NPT.
- TOP FITTINGS SPACED 5-3/4" APART.

Your Marathon is warranted not to leak for as long as you own your home!*

Rheem offers this no-leak promise because of the superior, non-metallic tank construction of the Marathon. The unit utilizes a seamless blow molded inner tank with a structural fiberglass shell for maximum strength. Superior structural performance with high efficiency ... for a lifetime*!

* See Warranty Certificate at your dealer for complete details.





Available in 80 and 120 Gallon Models

► 6-Year Limited Tank and Parts Warranty*

- Brass drain valve
- Choice of two models...storage tank or single element water heater
- Temperature and pressure relief valve included
- Collector feed and return fittings located at front of tank for convenient installation
- Isolated tank design for better heat retention
- High efficiency heating element
- Rheemglas® tank lining resists corrosion and prolongs tank life
- Heat exchanger: copper tubing wrapped around and secured to the tank. Double wall, vented design for positive leak detection

- Cold water inlet brings cold water to tank bottom to prevent mixing with heated water
- Anode rod equalizes aggressive water action for prolonged tank life
- Cold water inlet, hot water outlet, relief valve and anode rod at top of tank for easy access and fast, economical installation
- Automatic temperature control
- Over temperature protector

* See Residential Warranty Certificate for complete warranty information.



DESCRIPTION				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)			ENERGY INFORMATION
T Y P E	GAL. CAP.	MODEL NUMBER	ELEMENT WATTAGE UPPER	HEIGHT (IN.)	DIAMETER (IN.)	APPROX. SHIP WT. (LBS.)	APPROX. R- FACTOR
	80	81V80HE-1	4500 W*	58-3/4	24-1/2	222	R-17.3
	80	81V80HE-T	Storage only	58-3/4	24-1/2	222	R-17.3
	120	82V120HE-1	4500 W*	62	28-1/4	380	R-17.3
	120	82V120HE-T	Storage only	62	28-1/4	380	R-17.3

- * Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring and 4500 watt heating element.
- If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.
- To prevent corrosion, proper pH levels in transfer fluid must be maintained.
- Solaraide models meet all current state requirements for solar storage tanks.
- The tanks are Rheemglas lined and are designed to operate up to 150 PSI.

A special 1/2" NPT opening is provided for installation of a "probe type" thermostat.

COPPER COIL DATA (Type L Copper)

Maximum pressure = 150 PSI

Tube I.D. = 5/8"

Solaraide HE Tank Capacity	Coil Capacity Gallons	Length of Tubing Around Tank (Ft)
80 Gallons	2.2	120
120 Gallons	2.6	143
PRESSURE DROP THROUGH COIL (Feet of H ₂ O)		
Flow Rate	Head Loss (Feet)	
	80 Gallon	120 Gallon
1 GPM	1.3	1.6
2 GPM	4.8	5.7
3 GPM	10.0	12.0



Available in 75 Gallon Capacity

► 6-Year Limited Tank and Parts Warranty*

For Use in Residential Closed Loop Solar Water Heating Applications

- Single tank solar solution
- Double wall, high efficient solar heat exchanger
- Fast recovery for high demand applications
- Energy efficient – free hot water from the sun
- Front solar connections for easy installation
- Brass drain valve and temperature and pressure relief valve are included

Guardian System™

- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean
- Standard replacement parts

Environmentally Friendly Burner

- Low NOx design for low nitrous oxide emissions

* See Residential Warranty Certificate for complete warranty information.



DESCRIPTION			FEATURES			ROUGHING IN DIMENSIONS (SHOWN IN INCHES)										
T Y P E	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/HR. NAT.	RECOVERY IN G.P.H. 90° RISE	FIRST HOUR DELIVERY G.P.H. NAT.	HT. TO VENT A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CNTR. F	HT. TO SIDE T&P G	WATER CONN. H	HT. TO HEAT EXCHANGER INLET	HT. TO HEAT EXCHANGER OUTLET	SHIP WT. (LBS)
TALL	75	RSG75	75.1	75.8	75.8	64	60	26-1/4	32	4	11	53-1/4	1	31	12	340

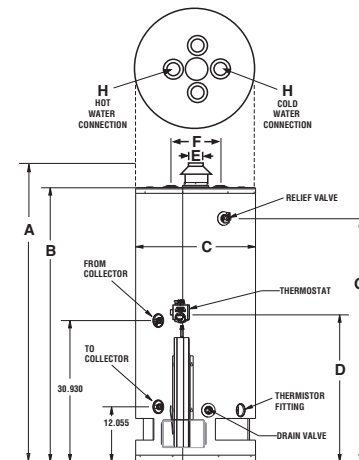
- To prevent corrosion, proper pH levels in transfer fluid must be maintained.
- Solaraide models meet all current state requirements for solar storage tanks.

COPPER COIL DATA (Type L Copper)

Maximum pressure = 150 PSI

Tube I.D. = 5/8"

HE Tank Capacity	Coil Capacity Gallons	Length of Tubing Around Tank (Ft)
75 Gallons	2.2	120
PRESSURE DROP THROUGH COIL (Feet of H ₂ O)		
Flow Rate		Head Loss (Feet)
		75 Gallon
1 GPM		1.3
2 GPM		4.8
3 GPM		10.0





Available in 80 and 120 Gallon Universal Side/Top Connect Models

► 6-Year Limited Tank and Parts Warranty*

- New flexible design allows installation of the collector feed & return in either the side or top connection ports
- Brass drain valve
- Special threaded stud located near the outlet for attachment of tank sensors
- Temperature and pressure relief valve included
- High efficiency heating element
- Rheemglas® tank lining resists corrosion and prolongs tank life
- Anode rod equalizes aggressive water action for prolonged tank life

- Cold water inlet, hot water outlet, relief valve and anode rod at top of tank for easy access and fast, economical installation
- Automatic temperature control
- Over temperature protector

*See Residential Warranty Certificate for complete warranty information.

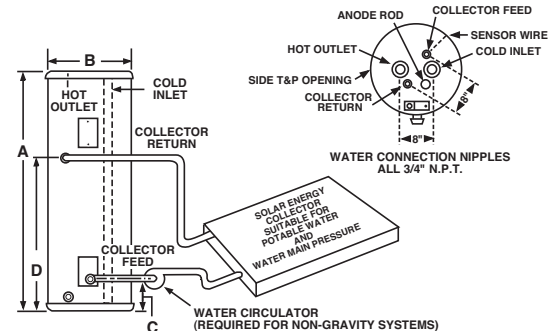


DESCRIPTION				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFO.	
T Y P E	GAL. CAP.	MODEL NUMBER	ELEMENT WATTAGE UPPER	HEIGHT A	DIAMETER B	HEIGHT TO COLLECTOR FEED C	HEIGHT TO COLLECTOR RETURN D	APPROX. SHIP WT. (LBS.)	APPROX. R- FACTOR
UNIVERSAL SIDE/TOP CONNECT									
T A N K	80	81VR80U-1	4500 W*	58-3/4	24-1/2	3	38-1/4	192	R-17.3
	120	81VR120U-1	4500 W*	62	28-1/4	3-3/4	38-1/2	336	R-16.7
	80	81VR80U-T	Storage Only	58-3/4	24-1/2	3	38-1/4	192	R-17.3
	120	81VR120U-T	Storage Only	62	28-1/4	3-3/4	38-1/2	336	R-16.7

* Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring and 4500 watt heating element.

- If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.
- Solaraide models meet all current requirements for solar storage tanks.
- The tanks are Rheemglas lined and are designed to operate up to 150 PSI.

This unit uses the potable water within the tank for circulation through the solar system.



Indirect Water Heaters

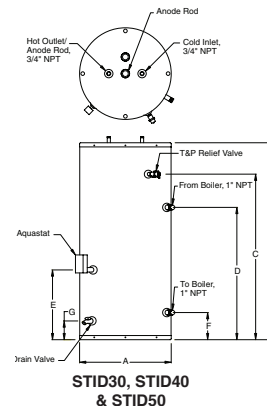
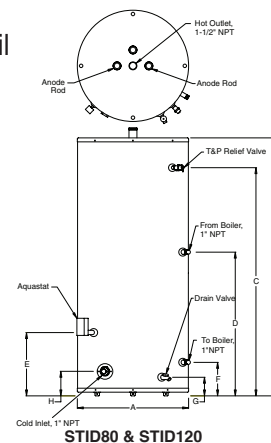


Available in 30, 38, 45, 75 and 110 Gallon Models

► Lifetime Residential Limited Warranty*

- Heavy gauge steel tank
- High temperature porcelain enamel protect all tank and coil
- Factory installed automatic temperature controls
- Factory installed brass drain valve
- Temperature and pressure relief valve
- 1-1/2" coil diameter
- 2" Non-CFC foam insulation
- Two heavy-duty magnesium anode rods
- Factory installed dielectric nipples

* Refer to Warranty Section of Use & Care Manual.



DIMENSIONAL INFORMATION

MODEL NUMBER	UNITS	A	B	C	D	E	F	G	H	APPROX. SHIPPING WEIGHT
STID30	inches	22	35-3/4	27-3/4	18-1/2	11-3/4	6-1/2	4-1/2	N/A	180 lbs
STID40	inches	22	42-3/4	34-3/4	31-1/2	16-3/4	6-1/2	4-1/2	N/A	226 lbs
STID50	inches	22	48-3/4	39-3/4	31-1/2	16-3/4	6-1/2	4-1/2	N/A	231 lbs.
STID80	inches	24	64-1/8	57-1/8	33	19-1/4	8	5	5	297 lbs.
STID120	inches	28	65-1/4	57-3/4	33-3/4	16-1/4	8-3/4	5	6-1/2	397 lbs.

Note: First Hour Rating = First Draw + Continuous Draw

Warning: Installation should be in accordance with all national and/or local codes.

In the absence of local codes, refer to NFPA 54 or ANSI Z.21.10.1.

Caution: The recommended maximum hot water temperature setting for normal residential use is 120°F. Rheem recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding.

Pressures (all):
Test pressure, 300 psi;
working pressure, 150 psi

Standard Voltage (all): 120V, 60 Hz, 1P
T&P valve installed

FIRST HOUR RATING (gal) @ Coil Output (Btu/hr)

MODEL NUMBER	TANK CAPACITY (GAL)	FIRST DRAW (GAL)	HEAT SOURCE FRICTION LOSS* (FT. W.C.)	180°F, 8 GPM**	180°F, 10 GPM**	180°F, 12 GPM**	200°F, 8 GPM**	200°F, 10 GPM**	200°F, 12 GPM**
STID30	30	25	2	110 @ 55,000	114 @ 57,000	117 @ 59,000	132 @ 69,000	136 @ 71,000	139 @ 73,000
STID40	38	33	3	153 @ 77,000	165 @ 84,000	177 @ 92,000	183 @ 96,000	195 @ 104,000	207 @ 111,000
STID50	45	40	3	160 @ 77,000	172 @ 84,000	184 @ 92,000	190 @ 96,000	202 @ 104,000	214 @ 111,000
STID80	75	70	5	200@83,000	212 @ 91,000	224 @ 98,000	233 @ 104,000	245 @ 112,000	257 @ 119,000
STID120	110	102	5	232@83,000	244 @ 91,000	256 @ 98,000	265 @ 104,000	277 @ 112,000	289 @ 119,000

All data obtained through testing in accordance with GAMA INDIRECT-FIRED WATER HEATERS TESTING STANDARD IWH-TS-1_MARCH 2003

* At 8 GPM **Coil Input (temperature, flow rate). Ratings based on 77°F rise with 58°F inlet potable water.

The *best* water heater warranty in the industry comes in the *smallest* box!

Part Number: SP20079 (Sold only in 6 package quantity)



► For use on Rheem® Residential Fury, Professional, PowerVent and Direct Vent models*

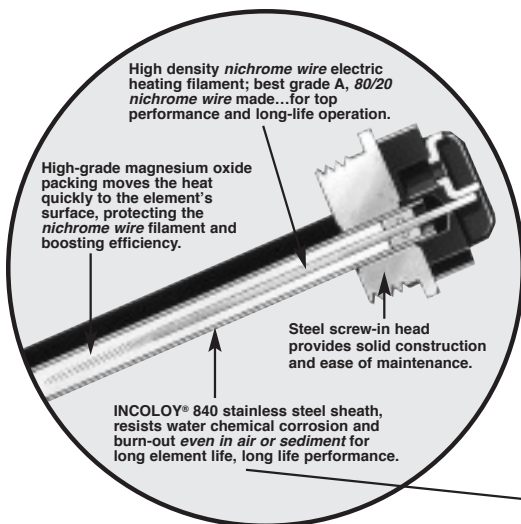
- Kit contains:
 - High quality magnesium anode rod with plastic lined nipple (hot side)
 - Plastic lined nipple (cold side)
 - Warranty certificate with installation instructions
 - ProtectionPlus™ label for heater
- Provides up to 135% additional anodic protection
- With just two water heaters, you have the option of selling four warranty periods
- Effectively have four water heaters in little more space than two

* Not for use on: Warrior, Warrior DV, Marathon, Point-of-Use, or Table Top models.



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Lifeguard™ Electric Element



Designed for the future, the LIFE GUARD™ electric water heater element is as close to a lifetime element as space-age technology can produce*.

Patented resistor design** helps prolong anode rod and tank life... A Rheem Exclusive!

* See Residential Warranty Certificate for complete warranty information.

** Registered trade-mark of International Nickel Co.

Low watt density design delivers full watt-rated heating power to a larger surface area, eliminating high heat concentrations and prolonging element life.



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- **Fights Sediment Build-Up**
- **Helps Preserve Operating Efficiency**
- **Helps Improve Tank Life**
- **Provides Increased Deliverability**

Sediment build-up in a water heater creates layers of non-conducting material between the water and the energy that heats the water.

This causes a reduction of heat transfer which increases tank bottom temperatures and decreases water temperatures. When this occurs, the results are decreased water heater efficiency and decreased tank life.

The EverKleen™ system helps to dislodge this sediment by channeling water through a specially developed inlet tube. This tube creates a high-velocity spiraling water stream which strikes the bottom of the water heater tank with sediment “busting” force.

The spiraling effect also creates better mixing throughout the water heater tank which reduces the effects of stacking. Stacking occurs when frequent small draws of water create different temperatures throughout the tank resulting in increased peak temperatures at the top of the tank. The EverKleen™ system greatly reduces peak temperatures, thus increases first hour deliverability.

Included at no extra charge on all Rheem Fury and Professional™ models.

Accessories

CATCH PAN KIT

Available in 5 sizes to help protect any installation area from possible water damage. Each 2" deep drain pan is manufactured of aluminum and fitted with a 1" drain outlet. Provides that extra level of “protection assurance” that many homeowners and apartment dwellers are looking for. Available in 18", 20", 22", 24", and 26½" diameters. Our specially designed, tapered side wall allows for “one-inside-the-other” stacking and minimal storage area. Available with side drain outlet.



Catch pan must conform to local codes.

WALL MOUNTING KIT

For Point-of-Use Electric Water Heaters

This wall mounting kit for point-of-use electric water heater installations provides an easy way to mount the unit off the floor, out of the way for more usable floor space in a small area. It's been designed for use with 6, 10, 15, and 20 gallon models (AS-36111) and all walls with 16" stud centers. All necessary parts are included in this easy to install, time-and-money saving kit.

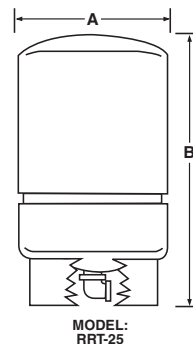
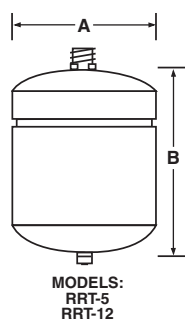


Therm-X-Guard Thermal Expansion Tanks



Eliminates problems associated with thermal expansion in closed loop systems.

- 5 year limited tank warranty
- Suitable for water heaters up to 120 gallon capacity and supply pressure to 80 PSI.



Model Number*	Maximum Operating Conditions		(Vt) Total Volume (Gallons)	Diameter (A)	Height (B)	System Connection	Standard Factory Pre-charge	Diaphragm Material	Liner Material
	Operating Temperature	Working Pressure (PSIG)							
RRT-5	200°F (93°C)	150 (10.5 kg/cm ²)	2.0	8"	12 ⁵ / ₈ "	3/4" NPTM – BRASS	40 PSIG (2.8 kg/cm ²)	Butyl Rubber	Polypropylene
RRT-12	200°F (93°C)	150 (10.5 kg/cm ²)	4.4	11"	15"	3/4" NPTM – BRASS	40 PSIG (2.8 kg/cm ²)	Butyl Rubber	Polypropylene
RRT-25	200°F (93°C)	150 (10.5 kg/cm ²)	10.3	15 ³ / ₈ "	15 ¹ / ₄ "	1" NPTF – BRASS	40 PSIG (2.8 kg/cm ²)	Butyl Rubber	Polypropylene