

# H5 + H6

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LARGE FIREPLACES



BUILT FOR EFFICIENT,  
CLEAN RADIANT HEAT.

**valor** Radiant  
Gas Fireplaces

# H5



# H6

**A LARGE FORMAT FIREPLACE, COMPACT IN DESIGN, WITH A GENEROUS VIEWING AREA— FITS WHERE THE H6 CAN'T.**

**OUR LARGEST FORMAT FIREPLACE WITH A 40% LARGER VIEWING AREA THAN THE H5, YET COMPACT FOR ITS SIZE.**

Engineered for easy installation, the H5 offers flexible venting options and slim engine depth for smooth installation. A variety of design options.

Although grand in presence, the firebox design features tapered sides and shallow depth for smoother installation. Select design options.

## FEATURES

- Efficient heat** performance, based on designs proven in people's homes for nearly forty years.
- Zero Clearance fireplace**, ideal for new construction and home renovations; and can also be used as an insert.
- The ValorStat Max Remote** is convenient, reliable and easy to use, helping you program direct warmth.
- The Secondary Heat Exchanger** naturally enhances the convected heat. No fan required.
- Zone heating** brings the comfort of radiant and convective warmth to the spaces you frequent most in your home, without the need for ducting or forced air.
- HeatShift™** transfers convective heat upwards through hidden ducts and back into the room, so valued artwork, a TV and construction materials stay cooler. Valor recommended option.
- Double-sided aluminum-coated steel** firebox and trims prevent rusting and wear—the H5 and H6 are even suited to the outdoors!
- High-grade, powder coated paint** is used on all our fireplaces to maintain their appearance and ensure long-lasting enjoyment—inside and out.

## CUSTOMIZE YOUR DESIGN

**H5 surrounds** offer **eight finishes**, including Black, Nickel, Bronze, Vintage Iron, Brushed Nickel, Hammered Copper, Hammered Oiled Bronze and Hammered Vintage Iron.

**H6 surrounds** are available in **two** of our most popular powder-coated finishes—Black and Bronze.



Made for new construction or major reno. Insert Ok.



**HeatShift™**  
recommended



Outdoor compatible



H6 with HeatShift™ Traditional Logs, NEW Herringbone liner and 1" 4-sided Fixed Frame in Black powder coat finish.

# H5 OPTIONS

## 1" X 4-SIDED



Decorative Glass	1104DGS
Fluted Black liner	1125FBL
Reflective Glass Panel	1105RGB
Powder Coated Black Fixed Frame	1130FFK

## 3¼" X 3-SIDED



Traditional Logs	1150JL
Red Brick liner	1110VRL
3-sided Powder Coated Black surround	1135TSB

## 4" X 4-SIDED



Pebble Beach Driftwood	1101DWK
Herringbone liner	1175HBL
4" Powder Coated Black surround	1140FSB2



Traditional Logs	1150JL
Fluted Black liner	1125FBL
4" Powder Coated Nickel surround	1140FSPN2



Murano Glass	1103DGM
Fluted Black liner	1125FBL
Reflective Glass Panel	1105RGB
4" Plated Brushed Nickel surround	1140FSN2



Traditional Logs	1150JL
Fluted Black liner	1125FBL
4" Bronze Powder Coated surround	1140FSZ2

All Edgemont surrounds are approximately 2¼" in frame width, and include a backing plate.

## EDGEMONT



Pebble Beach Driftwood	1101DWK
Plain Black liner	116OPBL
Plated Brushed Nickel front	1135TSBEN



Pebble Beach Driftwood	1101DWK
Plain Black liner	116OPBL
Bronze front	1135TSBEZ

## EDGEMONT HAMMERED



Pebble Beach Driftwood	1101DWK
Plain Black liner	116OPBL
Hammered Vintage Iron front	1184EHV



Traditional Logs	1150JL
Fluted Black liner	1125FBL
Hammered Copper front	1184EHC



Pebble Beach Driftwood	1101DWK
Plain Black liner	116OPBL
Hammered Oiled Bronze front	1184EHOB

## EDGEMONT DOUBLE DOOR



Traditional Logs	1150JL
Red Brick liner	1110VRL
Vintage Iron Doors front	1149EDV



Traditional Logs	1150JL
Ledgestone liner	1115LSL
Bronze Powder Coated Doors front	1149EDZ

# H6 OPTIONS

## 1" X 4-SIDED



Traditional Logs 1400LSK  
 Herringbone liner 1475HBL  
 1" 4-sided Fixed Frame in Black powder coat 1430FFK



Decorative Glass 1400DGS  
 Reflective Glass liner 1470RGL  
 1" 4-sided Fixed Frame in Black powder coat 1430FFK

## 4" X 4-SIDED



Pebble Beach Driftwood 1400DWK  
 Fluted Black liner 1425FBL  
 4" 4-sided surround in Black powder coat 1440FSB

## 3 1/4" X 3-SIDED



Traditional Logs 1400LSK  
 Red Brick liner 1410VRL  
 3 1/4" 3-sided surround in Black powder coat 1435TSB

## 4" X 4-SIDED



Traditional Logs 1400LSK  
 Ledgestone liner 1415LSL  
 4" 4-sided surround in Bronze powder coat 1440FSZ



Murano Glass 1400DGM  
 Fluted Black liner 1425FBL  
 4" 4-sided surround in Black powder coat 1440FSB



H6 with 1" Black Powder Coat Fixed Frame, Fluted Black liner and Pebble Beach Driftwood—featuring HeatShift™.

## COMPONENTS

## H5

## H6

DIRECT VENT ENGINE	Natural Gas	1100JN	1400KN <b>improved!</b>
	Propane	1100JP	1400KP <b>Better fire and tougher engine</b>
	Natural Gas	1150JLN <i>Traditional</i>	
	Propane	1150JLP <i>Logs only</i>	

FIRE BEDS	Traditional Logs	1150JL <i>burner only</i>	1400LSK
	Pebble Beach Driftwood	1101DWK	1400DWK
	Murano Glass	1103DGM	1400DGM
	Decorative Glass	1104DGS	1400DGS

LINERS	Red Brick	1110VRL	1410VRL
	Ledgestone	1115LSL	1415LSL
	Fluted Black	1125FBL	1425FBL
	Plain Black	1160PBL	1460PBL
	Reflective Glass	1170RGL	1470RGL
	Herringbone	1175HBL	1475HBL

## SURROUNDS

1", 4-sided	Black Powder Coat Fixed Frame	1130FFK	1430FFK	H5: 26 3/8"h x 35 3/4"w H6: 31 1/2"h x 41 3/4"w
	Brushed Nickel	1135TSBEN		31 7/8"h x 41 7/8"w with Black backing plate
Edgemont 2 1/4", 4-sided	Bronze	1135TSBEZ		
	Hammered Copper	1184EHC		
	Hammered Oiled Bronze	1184EHOZ		
	Hammered Vintage Iron	1184EHV		
	Doors, Vintage Iron	1149EDV		
Doors, Bronze	1149EDZ			
3 1/4", 3-sided	Black Powder Coat	1135TSB	1435TSB	H5: 30 3/8"h x 40 1/4"w H6: 36 3/4"h x 46 1/4"w
	Black Powder Coat	1140FSB2	1440FSB	32 1/2"h x 41 1/2"w
4", 4-sided	Bronze Powder Coat	1140FSZ2	1440FSZ	
	Brushed Nickel Plate	1140FSN2		
	Nickel Powder Coat	1140FSPN2		

OPTIONAL	Reflective Glass Rear Panel	1105RGL	1405RGP	for Fluted or Plain Black liner
	Decorative Rock	1506DRK	1506DRK	for Pebble Beach Driftwood
	 Outdoor Conversion Kit	GV60CKO	GV60CKO	Bring H5 and H6 outdoors!
	Remote Blower	1270RBK	1270RBK	as part of Zone Heating
	Circulating Fan	1195CFK	1195CFK	

## EFFICIENCY RATINGS

H6	Model	Fuel	High	Low	EnerGuide Rating*	Max. Output* (w/out fan)
	1400KN	NG	36,000	19,000	71%	26,928
	1400KP	LPG	36,000	15,000		

H5	Model	Fuel	High	Low	EnerGuide Rating*	Max. Output* (w/out fan)
	1100JN	NG	28,000	13,000	70%	20,720
	1100JP	LPG				
	1150JLN	NG	30,000	16,000	71%	22,857
	1150JLP	LPG				

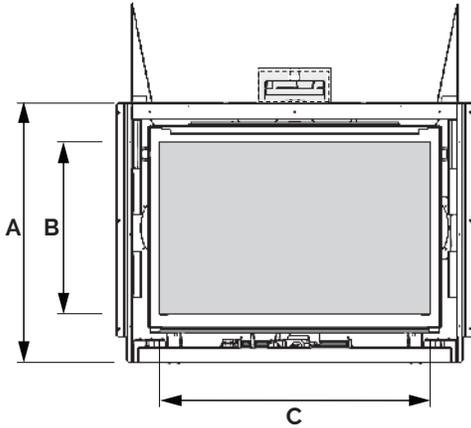
### About our efficiency ratings

While the North American fireplace industry is largely self-regulated, at Valor we use recognized Canadian and US government testing methods to determine our energy efficiencies, and ensure our products perform in your home as rated.

Visit [valorfireplaces.com/efficiency](http://valorfireplaces.com/efficiency) for more information.

EnerGuide Ratings and Outputs have been determined without a fan/blower, using the CSA P4.1-17 test method (2017).

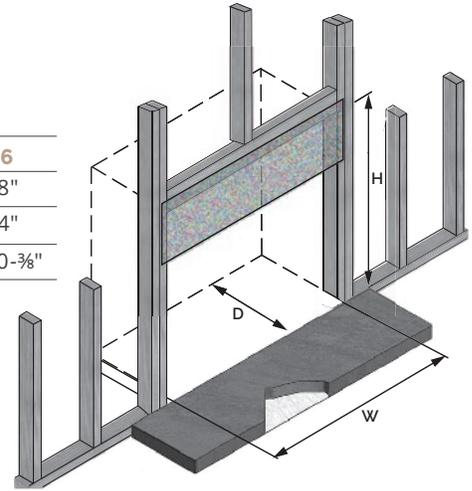
## DIMENSIONS



	H5	H6
A	29"	34-1/2"
B	19-1/4"	25-1/2"
C	30"	36-1/8"

## FRAMING

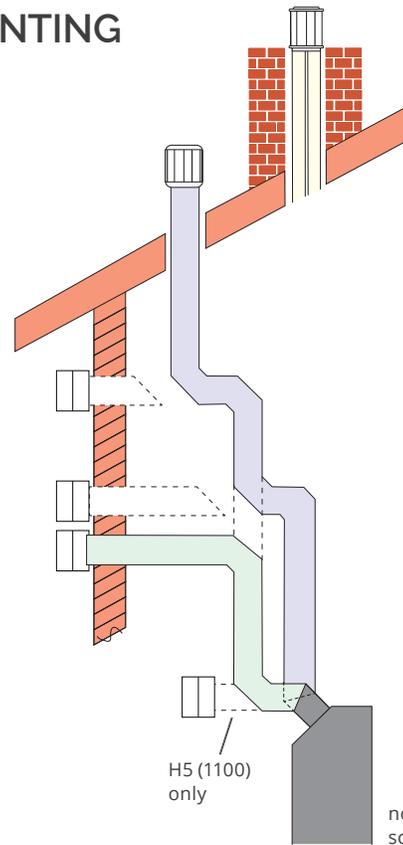
	H5	H6
H	40"	48"
W	38"	44"
D	16-1/2"	20-3/8"



Zero Clearance  
new construction,  
or major reno.  
OK as insert.

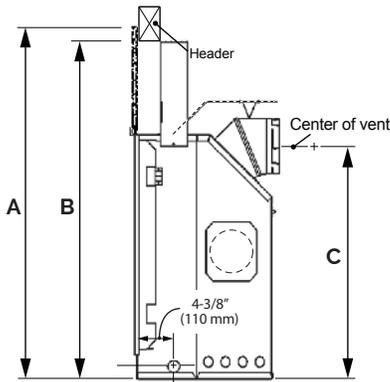
Always refer to the  
manual for complete  
installation instructions.

## VENTING

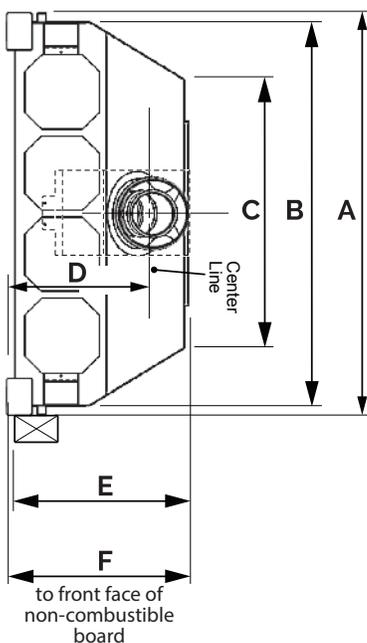


### Venting requirements

- Total length of vent pipe can't exceed 40 feet.
- Maximum of 4 x 90 degrees elbows or equivalent (2 x 45 degrees—90 degrees).
- H6 and H5 (1150) require minimum 24" vertical rise with horizontal termination.
- H5 (1100) allows maximum 12" pipe length with no vertical rise.



	H5	H6
A	41 1/2" min.	49 1/2" min.
B	40"	48"
C	27 1/2"	32 3/8"



	H5	H6
A	38"	43 3/8"
B	36 1/8"	42 1/4"
C	25 1/4"	27 3/8"
D	13 3/4"	15 5/8"
E	16 1/2"	19 7/8"
F	17"	20 3/8"

# HeatShift™

## KEEPS WALL COOLER

- Valor's unique HeatShift transfers convective heat upwards through hidden ducts and back into the room—completely bypassing the wall and surface areas above the fireplace—so valued artwork, a TV or construction materials stay cooler.

## IMPROVES OVERALL PERFORMANCE

- A raised heat outlet improves convection airflow—reducing wall temperatures and improving overall performance—circulating warm air back into the room at a higher elevation.
- Harnessing convective warmth, up to 60% of fireplace heat flows through HeatShift and back into the room. The remaining radiant heat emanates from the fireplace, warming people and their space.

## NO ELECTRICITY OR FAN REQUIRED

- HeatShift elevates heat naturally using gravity and Valor product ingenuity—no need for a fan or electricity. No power—no problem.

## MORE OPTIONS FOR CONSTRUCTION

- Run heat sensitive finishing materials right up to the fireplace surround, including drywall, wood, tile, and stone.
- Install mantels at a one-to-one ratio of depth to height from the fireplace surround when using HeatShift.

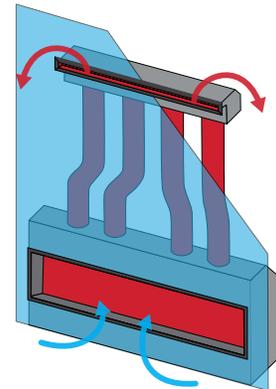
## MEETS NORTH AMERICAN BUILDING CODES

- Unlike many competitor products in the field, HeatShift utilizes standard construction techniques, meeting code requirements across North America.
- Built and designed in North America for American and Canadian homes.

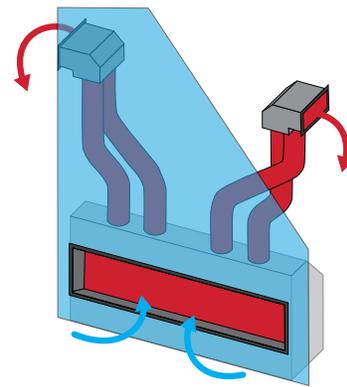
## ZONE HEATING

- Looking to heat other areas in your home? HeatShift's Remote Blower option helps manage your heat effectively by distributing warmth to other spaces in your home—such as bedrooms, hallways or utility rooms.

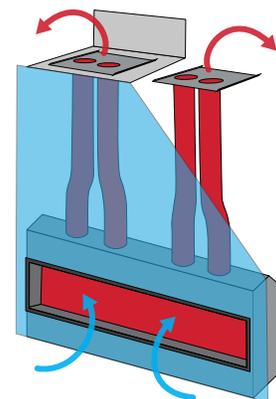
## FLEXIBLE HEATSHIFT™ OPTIONS:



Front wall plenum  
48" or 38"



Side grilles (see back cover.)



Top outlet

# WHY CHOOSE A VALOR®?

## RADIANT HEAT

Like heat from the sun, **Valor** fireplaces distribute radiant warmth directly to your living space. Radiant heat satisfies human comfort needs, using up to 25% less energy compared to traditional forced air systems. Valor warmth efficiently replaces the chill from cold windows and doors with steady, even heat to people and objects in the room.



### PACIFIC NORTHWEST DESIGN, DEVELOPMENT & DISTRIBUTION

Locally owned and operated in the Pacific Northwest, every **Valor**® fireplace is designed, developed and manufactured exclusively for North America. With a proven product family history, Valor continues to introduce unique fireplaces that stand the test of time.

### EASY CONTROL

Standard with every fireplace, our **ValorStat** remote gives you full control of your experience. Adjust the flame and heat to meet your desired comfort level as the room warms or as the outside temperature falls—truly a fireplace for all seasons.



### THE COMFORT ZONE

Reduce your furnace's output of hot air into empty rooms and unused spaces.

Zone heating requires no ducting or forced air, and delivers radiant and convective warmth to the spaces you frequent the most. Where you want it—when you want it.



### BURN CLEAN, ENGINEERED GREEN

**Valor**® specializes in the design of clean heat solutions for your home.

Our fireplaces use natural gas, the cleanest fireplace fuel you can burn, with the lowest particulate levels and lowest levels of greenhouse gases on the market.



### PRODUCT VERSATILITY

**Valor**® products are extremely diverse in their application and design. Whether new construction or home renovation, we offer a wide range of options to help you select the right fireplace for your personal heating needs.



### SAVINGS

**Valor**® designs innovative fireplaces that include many cost-saving features: for example, pilot flame that automatically turns off if your fireplace is inactive for over five days, saving energy and lowering overall home heating costs.

Keep forgetting to turn down your fireplace? Set the **ValorStat** to automatically turn down after six hours.



### NO POWER, NO PROBLEM.™

If the power fails in the winter, your home can get cold fast.

**Valor**® fireplaces are fully functional heaters that don't require electricity. Our fireplaces provide the perfect mixture of radiant and convective heat, eliminating the need for a fan. No power, no problem.



### NO FAN NECESSARY

We firmly believe that you shouldn't have to put up with the constant buzz of a fan to be warm. That's why we designed glowing fires to radiate heat and secondary heat exchangers to naturally circulate warm air by convection throughout the room. While a fan is an option, you'll likely find it unnecessary.



### RELIABILITY

With over 100 years in the heating industry, we take pride in providing high-quality, safe products.

Every **Valor**® product undergoes extensive safety testing so it's no surprise that many customers own more than one Valor fireplace in their lifetime.



## FIREPLACE SAFETY — USE RADIANT HEAT SAFELY

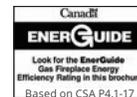
Fireplace surfaces, in particular the glass viewing window, are extremely hot during operation and will remain hot for a period of time after the fireplace is turned off. Contact with the hot glass can cause severe burns. Close adult supervision is required if there are young children, or at-risk individuals in the house. Included with your purchase, a **Valor**® barrier screen is recommended at all times. Install an approved after-market safety gate to keep toddlers, young children and at-risk individuals a safe distance from the fireplace.

For more information please visit [valorfireplaces.com/safety](http://valorfireplaces.com/safety).

### WARNING

This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



### Proudly made in North America

Designed and manufactured by Miles Industries Ltd. 2020  
Copyright Miles Industries Ltd. 2020

Note: Natural gas, in its original state, contains Benzene.

H5 with Pebble Beach Driftwood, Fluted Black liner and 1" Black Fixed Frame, featuring HeatShift side grilles.



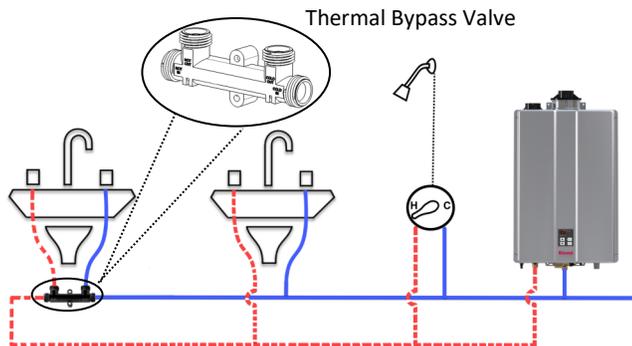
(WITH INTEGRATED RECIRCULATION PUMP)



■ **CIRC-LOGIC RECIRCULATION TECHNOLOGY**

Rinnai Circ-Logic recirculation technology allows users to set recirculation patterns that coincide with their hot water usage patterns. Hot water is available when needed, without the expense of circulating it during times of inactivity. Two recirculation modes are available:

- **Dedicated Mode** - With a dedicated return line, the integrated pump recirculates water from the tankless water heater through the return line and back to the heater.
- **Crossover Mode** - In applications where a dedicated return line is not available or is difficult to install, ThermaCirc360® technology allows for the simple installation of a **Thermal Bypass Valve** (included with purchase) at the fixture farthest away from the water heater.



■ **EASE OF INSTALLATION AND SERVICEABILITY**

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Simple Gas Conversion

**SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER**

<b>Installation Type</b>	External (Outdoor) Applications
<b>Model Numbers</b>	RUR199e (REU-NP3237W-US) RUR160e (REU-NP2530W-US)
<b>Approved Gas Types</b>	Natural and Propane
<b>Uniform Energy Factor (UEF)</b>	0.93
<b>Energy Factor (EF) (Canada)</b>	0.96
<b>High Altitude Approved</b>	Up to 10,200 ft (3,109 m)
<b>Water Flow Control</b>	Water Flow Sensor, Electronic Water Control and Bypass Control
<b>Controller</b>	Standard: MC-91-2US Required for Recirculation: MC-195T-US or Control-R™ Wi-Fi Module (Included)
<b>Certifications</b>	AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®

**Warranty**

- Heat Exchanger: 15 years or 12,000 operation hours, whichever occurs first
- All Other Parts and Components: 5 Years
- Reasonable Labor: 1 Year

**Safety Devices**

Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Frost Protection

**Included with Purchase**

Tankless Water Heater, Control-R™ Wi-Fi Module, Thermal Bypass Valve, Pressure Relief Valve and Adapter, Isolation Valve Kit, Integrated Controller, and Recirculation Pump Cable

**Additional Features**

- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Ultra Low NOx
- Tankless Rack System™ Compatible
- 1/2 in. (13 mm) Gas Line Compatible

**OPTIONAL ACCESSORIES**

Room Air Screen, Condensate Neutralizer, ScaleCutter, Drain Down Kit, Additional Controllers, Pipe Cover, Recirculation Pump, DPS/MIS Switch, EZConnect™ Cables, Wireless Accessories, and many more. Visit [rinnai.us](http://rinnai.us) for a complete list of accessories.



CERTIFIED TO ANSI Z21.10.3 – CSA 4.3

# SENSE™ TECHNICAL SPECIFICATIONS

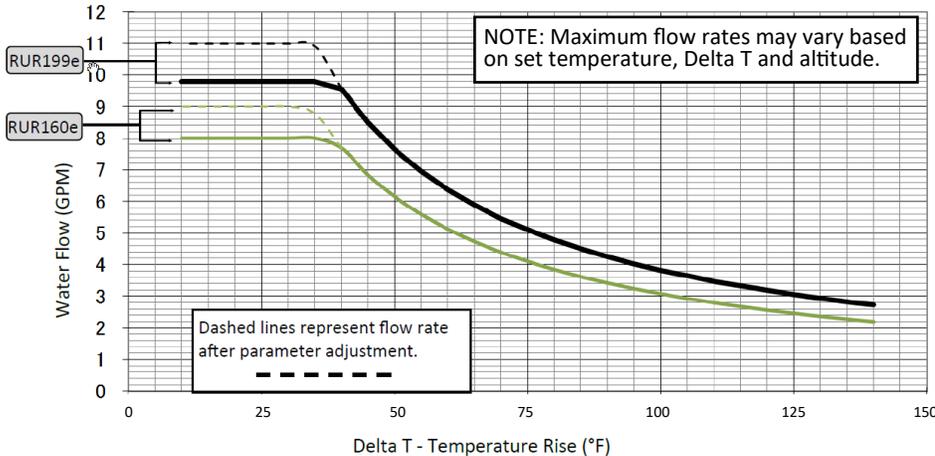
SPECIFICATION		RUR199e	RUR160e
Dimensions - w, h, d		18.5 in. x 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm)	
Minimum Gas Consumption Btu/h		15,000	
Maximum Gas Consumption Btu/h		199,000	160,000
Flow Rate <sup>1</sup> (Min - Max)		0.26 - 9.8 GPM (1.0 - 37 L/min)	0.26 - 8.0 GPM (1.0 - 30 L/min)
Max Flow Rate with Parameter Adjustment		11 GPM (42 L/min)	9 GPM (34 L/min)
Weight		73 lb (33 kg)	71 lb (32 kg)
Sound Level		53 dB	52 dB
Electrical	Normal	81 W	49 W
	Standby	1.3 W	
	Freeze Protection	198 W	
	Max Current	4 Amps	
	Fuse	10 Amps	
Temperature		<ul style="list-style-type: none"> <li>Minimum: 98° F (37° C) Default</li> <li>120° F (49° C) Crossover Mode</li> <li>Maximum: 120° F (49° C) Default</li> <li>140° F (60° C) With Parameter Adjustment</li> </ul>	
By-Pass Flow Control		Electronic	
Gas Supply Pressure <sup>2</sup>		<ul style="list-style-type: none"> <li>Natural: 3.5 in. w.c. - 10.5 in. w.c.</li> <li>Propane: 8.0 in. w.c. - 13.5 in. w.c.</li> </ul>	
Ignition System		Direct Electronic Ignition	
Electronic Connections		<ul style="list-style-type: none"> <li>Appliance: AC 120 Volts, 60Hz.</li> <li>Temperature Controller: DC 12 Volts (Digital)</li> </ul>	
Water Supply Pressure		<ul style="list-style-type: none"> <li>Minimum: 50 PSI (Recommended 60-80 PSI for max performance)</li> <li>Maximum: 150 PSI</li> </ul>	
Controller Cable		Non-Polarized Two Core Cable (Minimum 22 AWG)	
Service Connections		<ul style="list-style-type: none"> <li>Gas Supply: 3/4 in. (19 mm) NPT</li> <li>Cold Water Inlet: 3/4 in. (19 mm) NPT</li> <li>Hot Water Outlet: 3/4 in. (19 mm) NPT</li> <li>Condensate Drain: 1/2 in. (13 mm) NPT</li> </ul>	
Clearances		<ul style="list-style-type: none"> <li>Top: 2 in. (51 mm)*</li> <li>Bottom/Ground: 12 in. (305 mm)</li> <li>Front: 0 in.**</li> <li>Back: 0 in.</li> <li>Sides: 2 in. (51 mm)**</li> <li>Front Exhaust: 24 in. (610 mm)</li> </ul>	

\* 0 in. from vent components  
 \*\* Clearance for servicing is 24 in. (610 mm) in front of water heater  
 \*\*\* Add 0.25 in. (6.35 mm) for recess box

<sup>1</sup> Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature. Minimum activation flow is 0.4 GPM (1.5 L/min).  
<sup>2</sup> The maximum gas supply pressure must not exceed the value specified by the manufacturer.

# SENSE™ WATER FLOW CURVE

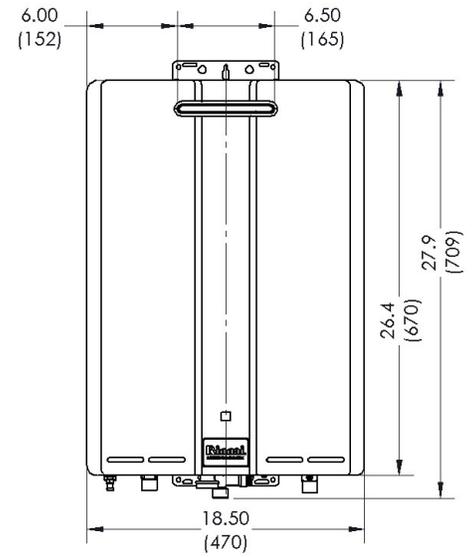
Flow curves apply only to incoming water temperatures of 70° F (21° C) or less. For incoming water temperatures greater than 70° F (21° C), please contact Rinnai.



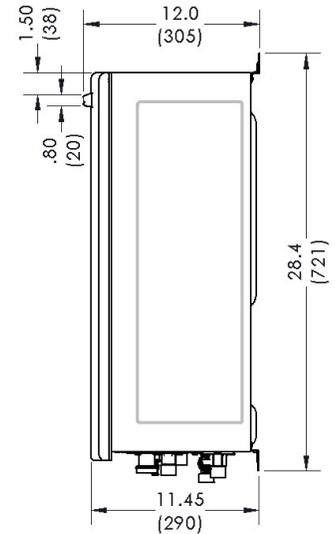
# SENSE™ DIMENSIONS

in. (mm)

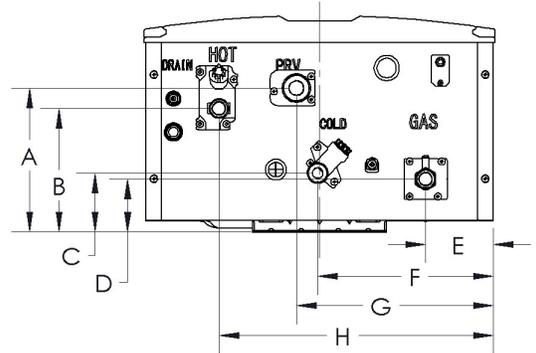
## FRONT



## SIDE

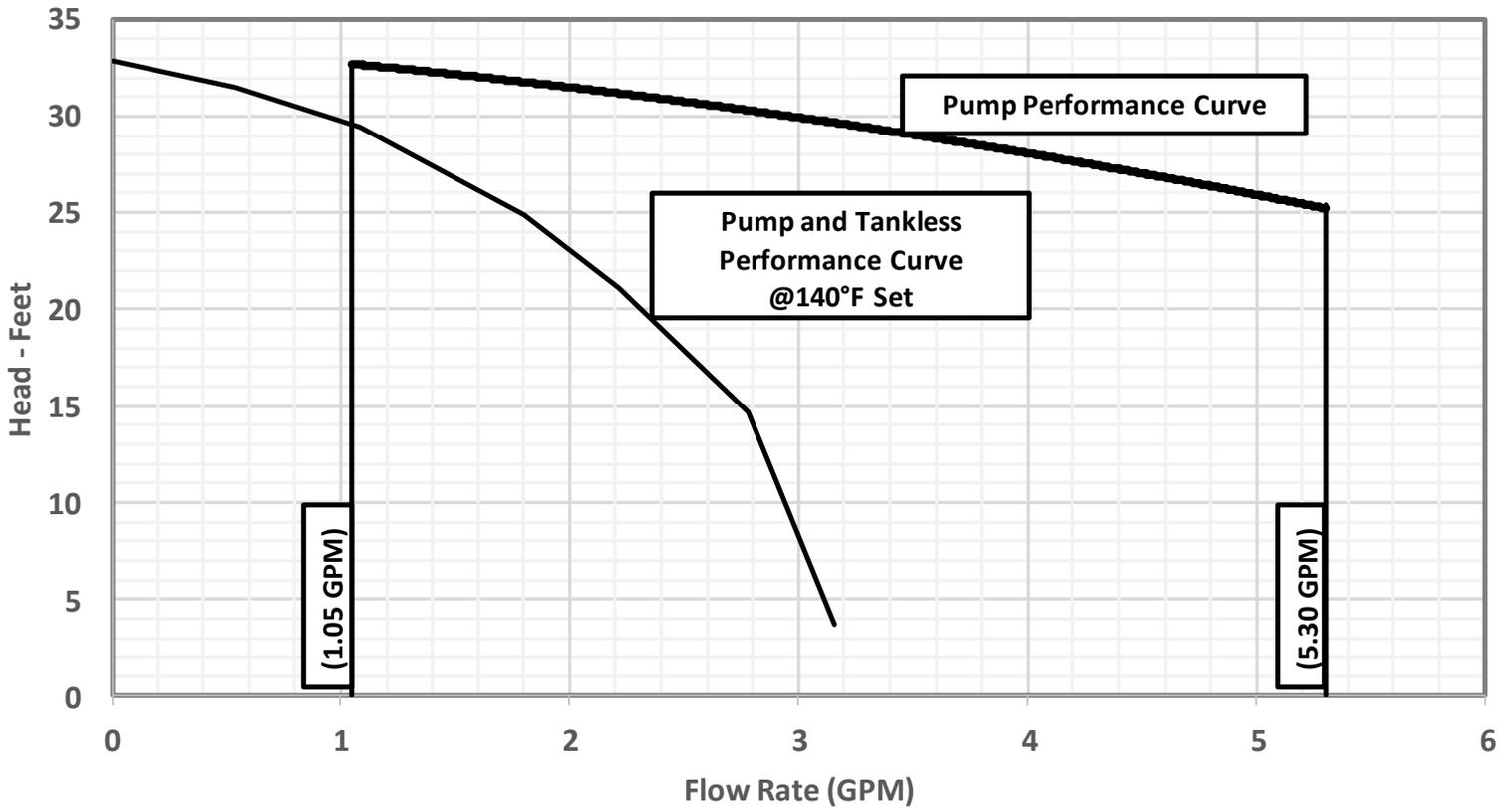


## BOTTOM



Connection		in.	mm
COLD	F	9.27	235
	C	3.11	79
HOT	H	14.49	368
	B	6.52	166
GAS	E	3.57	91
	D	2.79	71
PRV	G	10.40	264
	A	7.60	193

# SENSEI™ PUMP PERFORMANCE AND PUMP + TANKLESS PERFORMANCE CURVE



The RUR pump has an operation range of 1.05 GPM to 5.30 GPM

## Internal Recirculation Pump Control

### Internal Pump

### Maximum Recirculation Pipe Lengths

Built-in Rinnai Circ-Logic: Recirculation program cycles internal pump

Integrated pump and bypass technology allow for recirculation through a dedicated return line or thermal bypass valve.

- 400 equivalent feet for 3/4 in. pipe diameter
- 100 equivalent feet for 1/2 in. pipe diameter

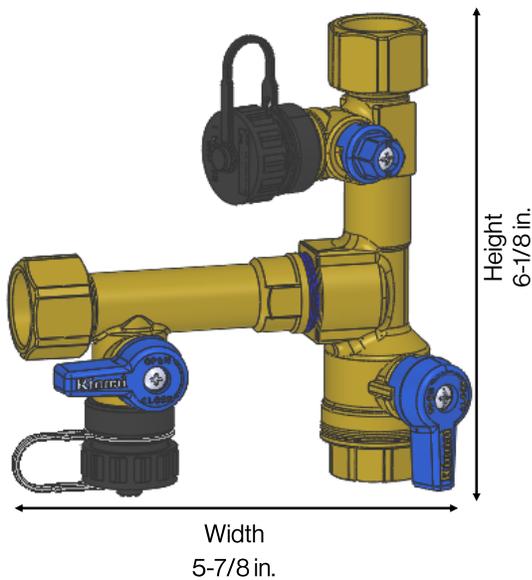
*Take equivalent elbow lengths into consideration when calculating pipe length.*

**For dedicated return lines:** Total length includes both hot water supply and dedicated return lines.

**Cross-over mode:** Total length includes both hot water supply and cold water piping length from the tankless water heater to the thermal bypass valve. Cross-over mode requires the use of a thermal bypass valve (included).



## Dedicated Recirculation Valve For Rinnai Tankless Water Heaters



### SPECIFICATIONS

<b>Item</b>	Dedicated Recirculation Valve (DRV)
<b>Part Number</b>	107000450
<b>Purpose</b>	To simplify tankless water heater installations that use a dedicated return line for recirculation
<b>Designed For</b>	<ul style="list-style-type: none"> <li>Tankless water heaters with recirculation capability</li> <li>Plumbing systems that use a dedicated circulation return line (Not intended for plumbing systems using a thermal bypass valve/crossover valve for recirculation)</li> </ul>
<b>Tankless Water Heater Models</b>	RL75i/e, RL94i/e, RLX94i/e, RU130i/e, RU160i/e, RU180i/e, RU199i/e, RUR160i/e, and RUR199i/e
<b>Dimensions</b>	Width: 5-7/8 in. Height: 6-1/8 in.
<b>Weight</b>	2 lb / 0.9 kg (Assembled)
<b>Material</b>	Lead-Free Brass
<b>Connection Size</b>	3/4 in. NPT

### Valve Components

The Dedicated Recirculation Valve consists of the following two components:

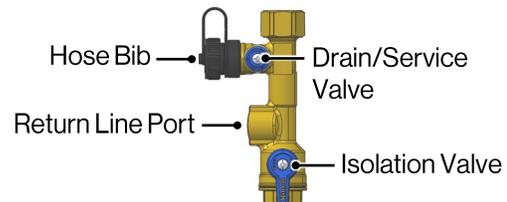
#### Return Line Valve



Integrated check valve on the recirculation port prevents backflow into the return line.

Dedicated return line drain/hose bib allows for easy air purging of the dedicated return line.

#### Cold Water Valve



Integrated isolation valve and drain valve allow for isolation and draining of the tankless water heater.

Turn page for more information

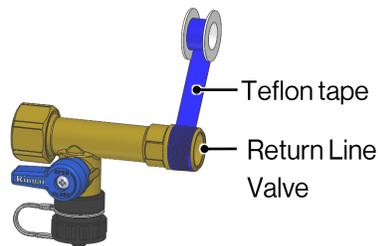


## Assembly

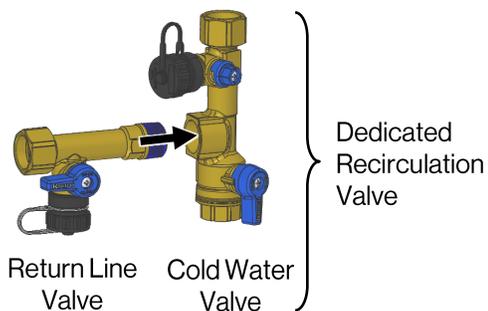
You Will Need:

- Return Line Valve and Cold Water Valve (included with purchase)
- Teflon Tape (field-supplied)

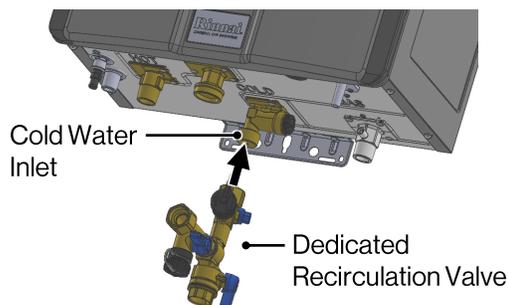
- 1 Apply **Teflon tape** to the threads on the **Return Line Valve**.



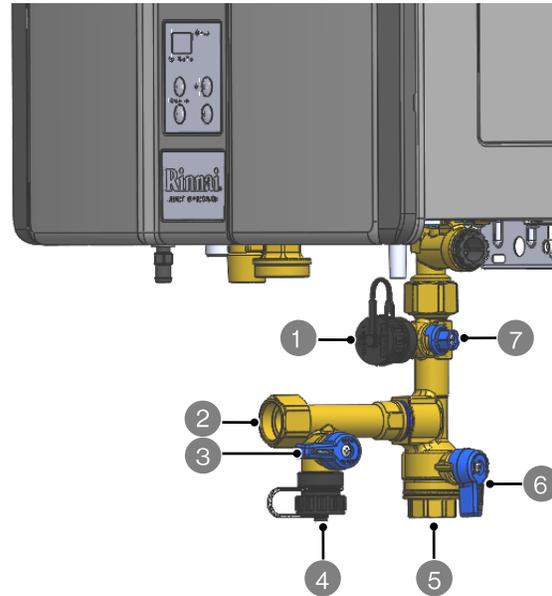
- 2 Thread the **Return Line Valve** into the **Cold Water Valve** (to form the Dedicated Recirculation Valve).



- 3 Thread the **Dedicated Recirculation Valve** onto the cold water inlet of the tankless water heater.



## Parts Overview



1	Water Heater Drain/Service Connection
2	Recirculation Return Line Connection (3/4 in. NPT)
3	Recirculation Return Line Drain Valve
4	Dedicated Return Line Drain
5	Cold Water Inlet Connection (3/4 in. NPT)
6	Cold Water Isolation Valve
7	Drain/Service Valve

Installation must conform to the "Rinnai Tankless Water Heater Installation and Operation Manual" that is shipped with the unit, local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

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