AdvantagePlus Water Heaters

AdvantagePlus is a family of ultra high efficiency commercial gas water heaters with 95 percent thermal efficiency for lower operating costs

Features & Benefits

Ruud AdvantagePlus™ water heaters offer ultra high efficiency and reliability. Models are available that range from 100,000-199,000 Btu/h, with a temperature setting from 70 to 160 degrees Fahrenheit; 180 degree maximum temperature available on HE55-160 and HE55-199 models, with included booster kit.

Efficiency

- 95% Thermal efficiency
- 2" Non-CFC, polyurethane foam insulation reduces standby heat loss

Electronic Control Panel

Self-diagnostic electronic control with HSI ignition control and diagnostics.

Technology & Construction

The heart of the system is a coil heat exchanger, which is constructed of corrosion resistant, high efficiency, 90/10 cupronickel. Stainless steel tank construction requires no anode rods. Durable plastic exterior shell.

Removable Front Cover

Allows for easy access to equipment (24 inches of service clearance is recommended)

Low Cost Venting

No chimney required. Vents through standard PVC, CPVC and ABS pipes, with a vent run up to 85 feet total for exhaust and intake.

Power Direct Vent

Install as a two pipe power direct vent when air quality or negative air pressure are issues. Optional concentric vent kits are available for side or vertical venting. Optional aluminum outside vent termination kit.

CSA/ASME Rated T&P Valve

Factory installed relief valve

Ultra Low NOx Burner

Design reduces NOx emissions to less than 14 ng/J. (SCAQMD Rule 1146.2 compliant)

Clearances

Zero clearance to combustibles

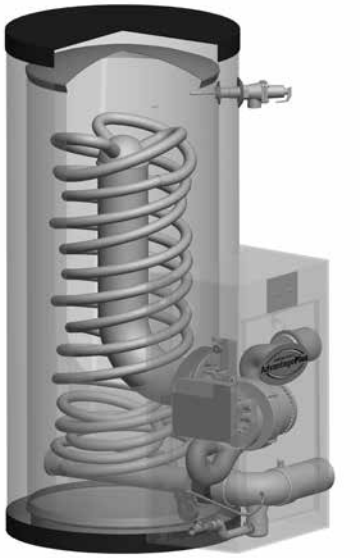
Altitude Certification

Certified up to 10,000 feet above sea level

Warranty

3-Year limited tank warranty

See Commercial Warranty Certificate for complete information.



Certification & Ratings | AdvantagePlus commercial water heaters are UL/ULCX listed and exceed the minimum efficiency requirements of ASHRAE/IES 901b-1992. They are supplied with an CSA/ASME rated temperature and pressure relief valve. The control panel is an integrated solid state temperature and ignition control device with integral diagnostics, LED fault display capability and digital display of temperature setting. All models are North Carolina Code compliant. Meet all safety and construction requirements of ANSI Z21.10.3. **Certified for 150 PSI maximum working pressure.**



Ruud AdvantagePlus

55, 80 & 119-Gallon Capacities
100,000-199,000 Btu/h
No Chimney Required
Low Water Cut-off on All Models
Power Direct Vent
Natural Gas and LP

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RECOVERY CAPACITIES

Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises

MODEL NUMBER	INPUT (BTU/H) NAT. & LP	THERMAL EFFICIENCY	UNITS	40°F *(22°C)*	50°F *(28°C)*	60°F *(33°C)*	70°F *(39°C)*	80°F *(45°C)*	90°F *(50°C)*	100°F *(56°C)*	110°F *(61°C)*	120°F *(67°C)*	130°F *(72°C)*	140°F *(78°C)*
HE55-100	100,000	95%	GPH	288	230	192	165	144	128	115	105	96	N/A	N/A
			LPH	*1090*	*872*	*726*	*623*	*545*	*484*	*436*	*396*	*363*	*N/A*	*N/A*
HE55-130 HE80-130 HE119-130	130,000	95%	GPH	374	299	249	214	187	166	150	136	125	N/A	N/A
			LPH	*1417*	*1133*	*944*	*809*	*708*	*630*	*567*	*515*	*472*	*N/A*	*N/A*
HE80-160 HE119-160	160,000	95%	GPH	461	368	307	263	230	205	184	167	154	N/A	N/A
			LPH	*1744*	*1395*	*1162*	*996*	*872*	*775*	*697*	*634*	*581*	*N/A*	*N/A*
HE80-199 HE119-199	199,000	95%	GPH	573	458	382	327	286	255	229	208	191	N/A	N/A
			LPH	*2169*	*1735*	*1446*	*1239*	*1084*	*964*	*867*	*789*	*723*	*N/A*	*N/A*
BOOSTER														
HE55-160	160,000	95%	GPH	461	368	307	263	230	205	184	167	154	142	132
			LPH	*1744*	*1395*	*1162*	*996*	*872*	*775*	*697*	*634*	*581*	*536*	*498*
HE55-199	199,000	95%	GPH	573	458	382	327	286	255	229	208	191	176	164
			LPH	*2169*	*1735*	*1446*	*1239*	*1084*	*964*	*867*	*789*	*723*	*667*	*620*

Recovery rating is based on thermal efficiencies obtained in an UL certified laboratory.

MAXIMUM DELIVERY

In U.S. Gallons and Liters (Includes useable storage and recovery for indicated times)

MODEL NUMBER	GAL.	LITERS	INPUT (BTU/H) NAT. & LP	TEMP. RISE	UNITS	5 MIN.	10 MIN.	15 MIN.	20 MIN.	30 MIN.	45 MIN.	1 HR.	2 HR.	3 HR.	MIN. TO RECOVER CONTENTS
HE55-100	55	208	100,000	100°F	GAL.	48	58	67	77	96	125	154	269	384	29
				56°C	*LTR.*	*182*	*219*	*255*	*291*	*364*	*473*	*582*	*1019*	*1455*	
HE55-130	55	208	130,000	100°F	GAL.	51	63	76	88	113	151	188	338	488	22
				56°C	*LTR.*	*193*	*240*	*288*	*335*	*430*	*571*	*713*	*1281*	*1848*	
HE80-130	80	303	130,000	100°F	GAL.	68	81	93	106	131	168	206	355	505	32
				56°C	*LTR.*	*259*	*306*	*354*	*401*	*495*	*637*	*779*	*1345*	*1912*	
HE119-130	119	450	130,000	100°F	GAL.	96	108	121	133	158	196	233	383	532	48
				56°C	*LTR.*	*363*	*410*	*457*	*504*	*599*	*750*	*882*	*1449*	*2015*	
HE55-160	55	208	160,000	100°F	GAL.	54	69	85	100	131	177	223	407	591	18
				56°C	*LTR.*	*204*	*262*	*320*	*379*	*495*	*670*	*844*	*1542*	*2241*	
HE80-160	80	303	160,000	100°F	GAL.	71	87	102	117	148	194	240	424	609	26
				56°C	*LTR.*	*270*	*328*	*386*	*444*	*561*	*735*	*909*	*1607*	*2304*	
HE119-160	119	450	160,000	100°F	GAL.	99	114	129	145	175	221	268	452	636	39
				56°C	*LTR.*	*373*	*432*	*490*	*548*	*664*	*838*	*1013*	*1710*	*2408*	
HE55-199	55	208	199,000	100°F	GAL.	58	77	96	115	153	210	268	497	726	14
				56°C	*LTR.*	*218*	*291*	*363*	*435*	*580*	*797*	*1014*	*1883*	*2751*	
HE80-199	80	303	199,000	100°F	GAL.	75	94	113	132	171	228	285	514	743	21
				56°C	*LTR.*	*284*	*357*	*429*	*501*	*646*	*863*	*1079*	*1947*	*2814*	
HE119-199	119	450	199,000	100°F	GAL.	102	121	141	160	198	255	312	542	771	31
				56°C	*LTR.*	*338*	*460*	*532*	*604*	*749*	*966*	*1183*	*2050*	*2918*	

All models have a maximum setpoint of 160°F with the exception of the HE55-160 and HE55-199 booster models. The HE55-160 and HE55-199 have a maximum setpoint of 180°F.

DIMENSIONAL INFORMATION

All dimensions shown in English and Metric

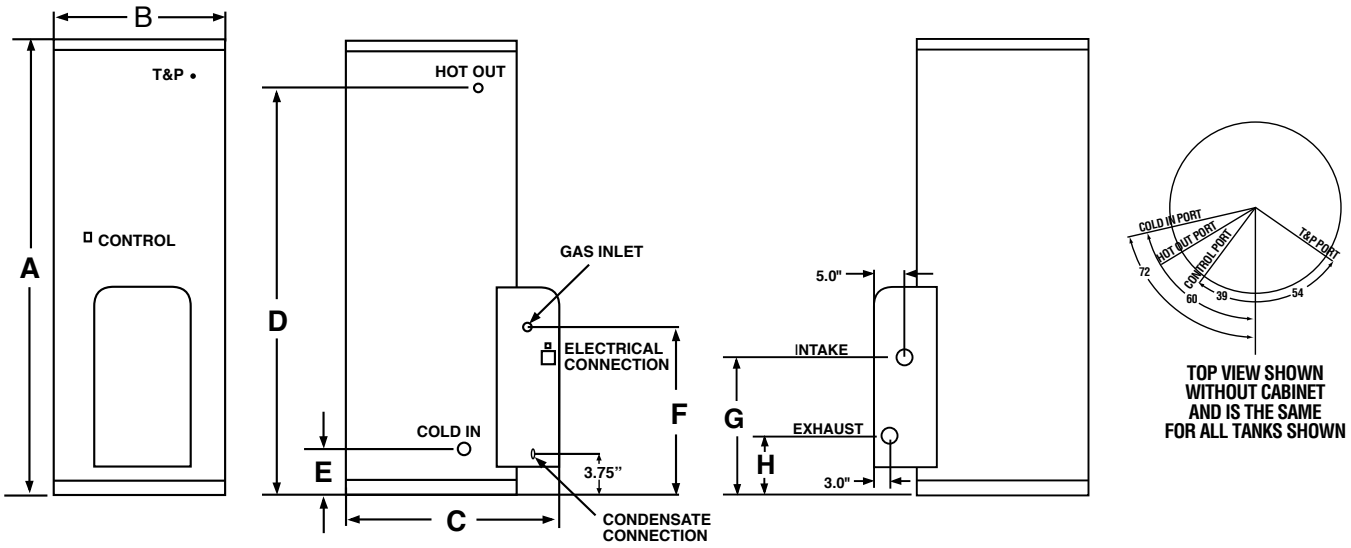
MODEL NUMBER	UNITS	A	B	C	D	E	F	G	H	VENT	WATER CONNECTIONS INLET	WATER CONNECTIONS OUTLET	APPROX SHIPPING WT.
HE55-100 HE55-130	inches	52	23-1/2	32	45	5	25-1/4	27-9/16	5-7/8	2	1	1	175 lbs.
	mm	*1321*	*597*	*813*	*1143*	*127*	*641*	*700*	*149*	*51*	*25*	*25*	*79 kgs*
HE55-160 HE55-199	inches	52	23-1/2	32	45	5	25-1/4	27- 9/16	5-7/8	3	1	1	175 lbs.
	mm	*1321*	*597*	*813*	*1143*	*127*	*641*	*700*	*149*	*76*	*25*	*25*	*79 kgs*
HE80-130 HE80-160 HE80-199	inches	72	23-1/2	32	65	5	25-1/4	20-1/4	7-3/4	3*	1-1/2	1-1/2	235 lbs.
	mm	*1854*	*597*	*813*	*1651*	*127*	*641*	*514*	*197*	*76*	*38*	*38*	*106 kgs*
HE119-130 HE119-160 HE119-199	inches	73	27	36	66-3/4	6-3/4	28-7/8	22	9-1/2	3*	1-1/2	1-1/2	405 lbs.
	mm	*1854*	*686*	*914*	*1695*	*171*	*733*	*559*	*241*	*76*	*38*	*38*	*184 kgs*

* 130,000 Btu/h models are certified to be installed with 2" venting.
All models require a 120V power source.
See use and care manual for venting details.

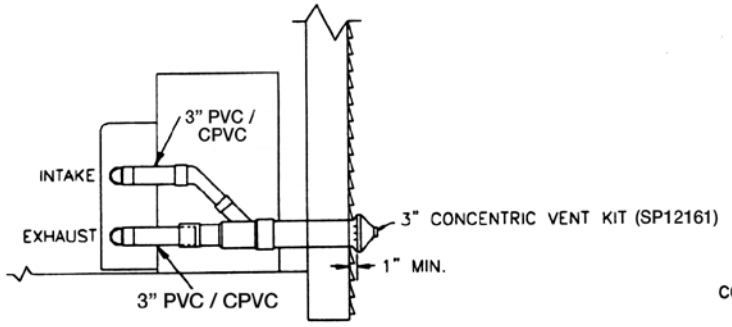
0" CLEARANCE TO COMBUSTIBLES ON ALL ADVANTAGE PLUS UNITS, HOWEVER, A 24" CONTROL PANEL SERVICE CLEARANCE IS RECOMMENDED.

MODELS WITH INPUTS OF 100,000 BTU/H AND 130,000 BTU/H ARE CERTIFIED TO VENT WITH 2" SCHEDULE 40 PVC OR CPVC PIPE.

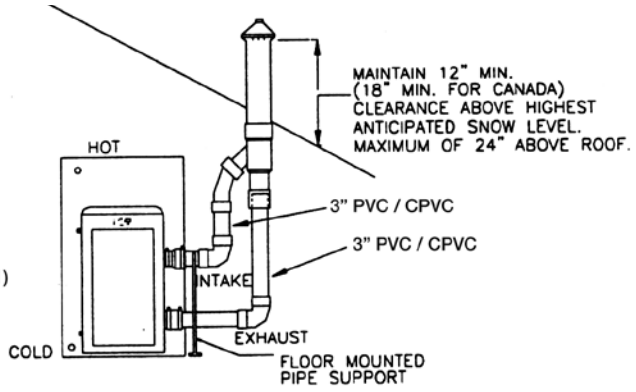
Dimensional Information



Venting Options



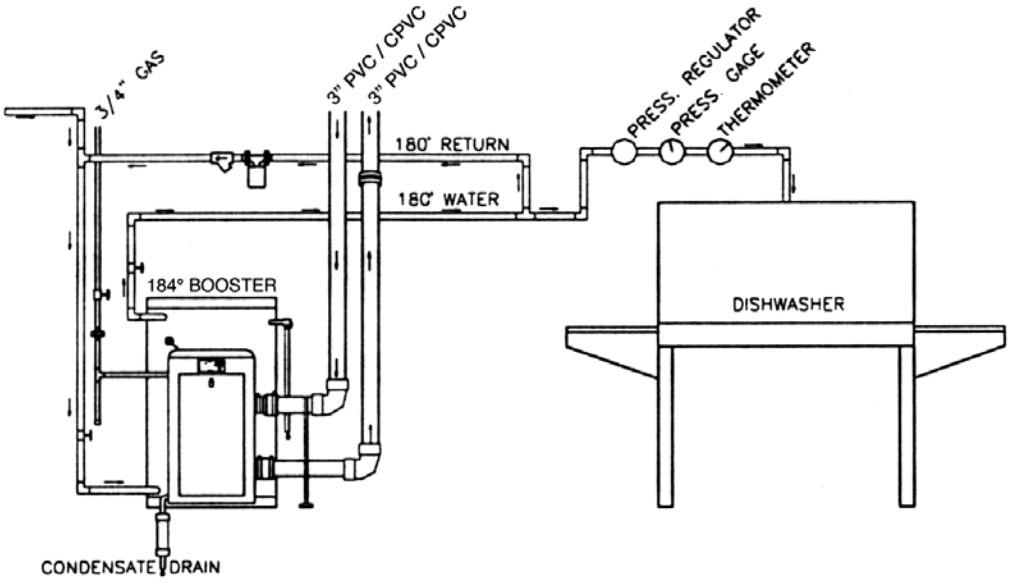
Side Venting with Concentric Vent Kit
Side View



Vertical Roof Venting with Concentric Vent Kit
Front View

NOTE: An aluminum outside vent termination kit is also available. (SP12162)

Booster for High Temperature Sanitation Rinse



The HE55-160 and HE55-199 Booster models are the only models equipped with a 180° F thermostat. Models with 180° F thermostats come standard with the Booster Installation Kit which includes all necessary components for an approved installation.

Booster Installation Kit includes:

- Nibco Tee – 1" x 1" x 1/2" (2 pieces)
- Female Adapter – 1" (2 pieces)
- Dial Thermometer (2 pieces)
- Expansion Tank – 4-1/2 Gallon
- Grundfos 3 Speed Pump with Check Valve
- Nibco 1.2" x 12" Fitting Air Chamber
- Vacuum Relief Valve
- Pressure Gauge – 0-200 PSI
- Nibco Tee 712R – 1" x 1" x 3/4" (2 pieces)
- Nibco Tee 714RR – 1" x 1/2" x 1"
- Nibco Tee – 1" x 1/2" x 1" Copper
- Reducing Coupling
- Pressure Reducing Valve
- Nibco Male Adapter – 1"

Recommended Specifications (for trade reference only)

Water Heaters shall be Ruud model number HE- _____. The Water Heaters shall be a sealed combustion system, taking only outside air for combustion and exhausting the flue gas with plastic pipe. The intake air shall be piped with plastic PVC or CPVC pipe, 3" in diameter (2" in diameter for 100,000 Btu/h and 130,000 Btu/h) and the exhaust gas shall be piped with PVC or CPVC pipe. All related intake air and exhaust gas shall be approved for zero clearance to any combustible surface.

The heaters shall be constructed of 316L stainless steel. The primary condensing heat exchanger shall be constructed of 90/10 cupronickel. The insulation is a water blown foam and shall be 2" thick with rating of R14.2 and 3" on the top of the heater rated at R21.3. Insulation shall be enclosed in a plastic shell. All components shall be located in the front of the heater for easy access for serviceability. All related hardware shall be constructed of stainless steel studs and brass nuts for serviceability. Water heater(s) shall be covered by a three year limited tank warranty against tank leaks.

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

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