Eclipse Water Heaters

Eclipse™ non-metallic electric commercial water heaters are durable, lightweight, and offer an exclusive 10-year limited warranty*

Features & Benefits

- Non-metallic, lightweight composite tank – no anode rod required
- High density polyethylene dent and scratch resistant jacket
- System Sentinel LED indicators are provided for each element to show when power is on
- Input options: 12.4, 18 or 24 kW
- Voltage options: 208, 240, or 480 VAC in either single phase or 3-phase (277 VAC in single phase only)
- Element wattages: 3100, 4500 or 6000 in each of the four voltages. The elements are low watt density design (46, 67, 90 watts/sq. in.) with titanium sheath for superior protection
- Power control circuits use two surface mounted thermostats and operate in two stages
  - Lower control is for the lower two elements, which provides recovery for most needs.
  - Upper control is for the upper two elements, which operates during high demands

Efficiency

- 98% thermal efficiency
- Well insulated for reduced standby heat loss

Performance

- Recovery rate: Up to 99 gallons GPH at a 100 degree rise
- 170° F maximum delivered temperature

Capacity & Weight

- 85 Gallons/140 lbs.
- 105 Gallons/155 lbs. See chart for shipping weight

Easy Installation & Service

- Eclipse's lightweight tank is easier to maneuver and position
- Control circuit switch provided for dry fire protection during installation
- Bowl shaped tank bottom drains completely
- Recessed drain valve is out of the way of brooms and scrubbers

Plus…

- Four titanium elements for resistance to lime build-up
- Full-port, full-flow, brass drain valve for faster draining
- Temperature and pressure relief valve at top of unit
- Water connections at the top of the tank are 1" swivel nuts. A nipple is installed on the outlet (1" x 3" long). The inlet has a vacuum valve connected with a 1 x 1 x 3/4 tee and a 1" close nipple to the swivel

Warranty

10-Year limited tank warranty

See Commercial Warranty Certificate for complete information.

Efficiency | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of ASHRAE (Part of the Federally mandated Energy Policy Act (EPact)).

Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | These products are design certified by Underwriters Laboratories (UL) to meet UL standard 1453 and UL/NSF 005 as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for 150 PSI maximum working pressure**.

Ruud Eclipse

85 & 105-Gallon Capacities
Lightweight
10-Year Limited Warranty
Electric

RECOVERY CAPACITIES Recovery at various temperature rises

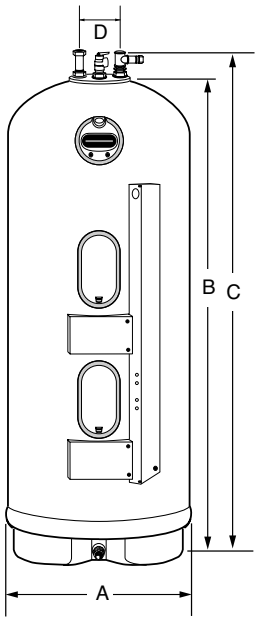
INPUT KW	EQUIVALENT BTU/HR	UNITS	TEMPERATURE RISE 40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (45°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)
12.4	42,309	GPH	126	100	84	72	63	55	50	45	42
		LPH	*478*	*379*	*318*	*273*	*239*	*209*	*190*	*171*	*159*
18	61,420	GPH	186	149	124	106	93	83	74	68	62
		LPH	*705*	*565*	*470*	*402*	*352*	*315*	*280*	*258*	*235*
24	81,893	GPH	248	199	165	142	124	110	99	90	83
		LPH	*940*	*754*	*625*	*538*	*470*	*417*	*375*	*341*	*315*

ELECTRICAL CHARACTERISTICS

INPUT KW	NUMBER OF ELEMENTS	ELEMENT WATTAGE	NUMBER OF FUSES	NUMBER OF THERMOSTATS	FULL LOAD CURRENT – IN AMPERES 208V PHASE 1	208V PHASE 3	240V PHASE 1	240V PHASE 3	277V PHASE 1	480V PHASE 1	480V PHASE 3
12.4	4	3100	8	2	60	39	52	34	45	26	17
18	4	4500	8	2	87	57	75	50	65	38	25
24	4	6000	8	2	115	76	100	66	87	50	33

DIMENSIONAL INFORMATION All dimensions shown in English and Metric

MODEL NUMBER	UNITS	A	B	C	D	APPROX. SHIP. WEIGHT
ME85	inches	28-1/4	66-1/4	70-1/4	4-1/2	170 lbs.
	mm	*718*	*1683*	*1784*	*114*	*77 kgs.*
ME105	inches	30-1/4	66-1/2	70-3/4	4-1/2	185 lbs.
	mm	*768*	*1689*	*1797*	*114*	*84 kgs.*



Recommended Specifications (for trade reference only)

Water heater(s) shall be model _____, manufactured by Ruud, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the UL seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Water heater(s) shall meet or exceed the energy factor requirements of ASHRAE. Tanks shall have a working pressure rating of 150 psi, and shall be completely assembled. Tanks shall be insulated with 2-1/2" of rigid polyurethane foam insulation. Water heater(s) shall be equipped with surface mounted thermostats. Water heater(s) shall be covered by a ten year limited 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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