

ECO-KING



ECO-KING PROUDLY INTRODUCES:

HEET 199

A NEW GENERATION TANKLESS WATER HEATER

Eco-King Heet 199 boasts 97.5% efficiency, with a unique single pass stainless-steel heat exchanger. The exchanger has wide passageways for durability, superior water heating and corrosion resistance. The HEET has an easy-to-use control that spans the entire Eco-King product family from residential to commercial.

COMBUSTION DESIGN

10:1 turndown ratio with electronically controlled continuous combustion monitoring for clean efficient combustion. All models are natural gas fired and field convertible to propane.

VENTING

Two vent connector with analyzer test ports. It is rated for combined vent lengths up to 150 ft

INCLUDED ITEMS

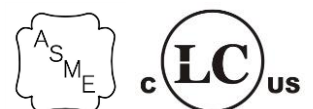
Internal Grundfos pump ensures unparalleled temperature stability
An internal water hammer absorber.
150psi ASME rated pressure relief valve
Set of 3/4" isolation valve / flush kit for easy servicing in the future.



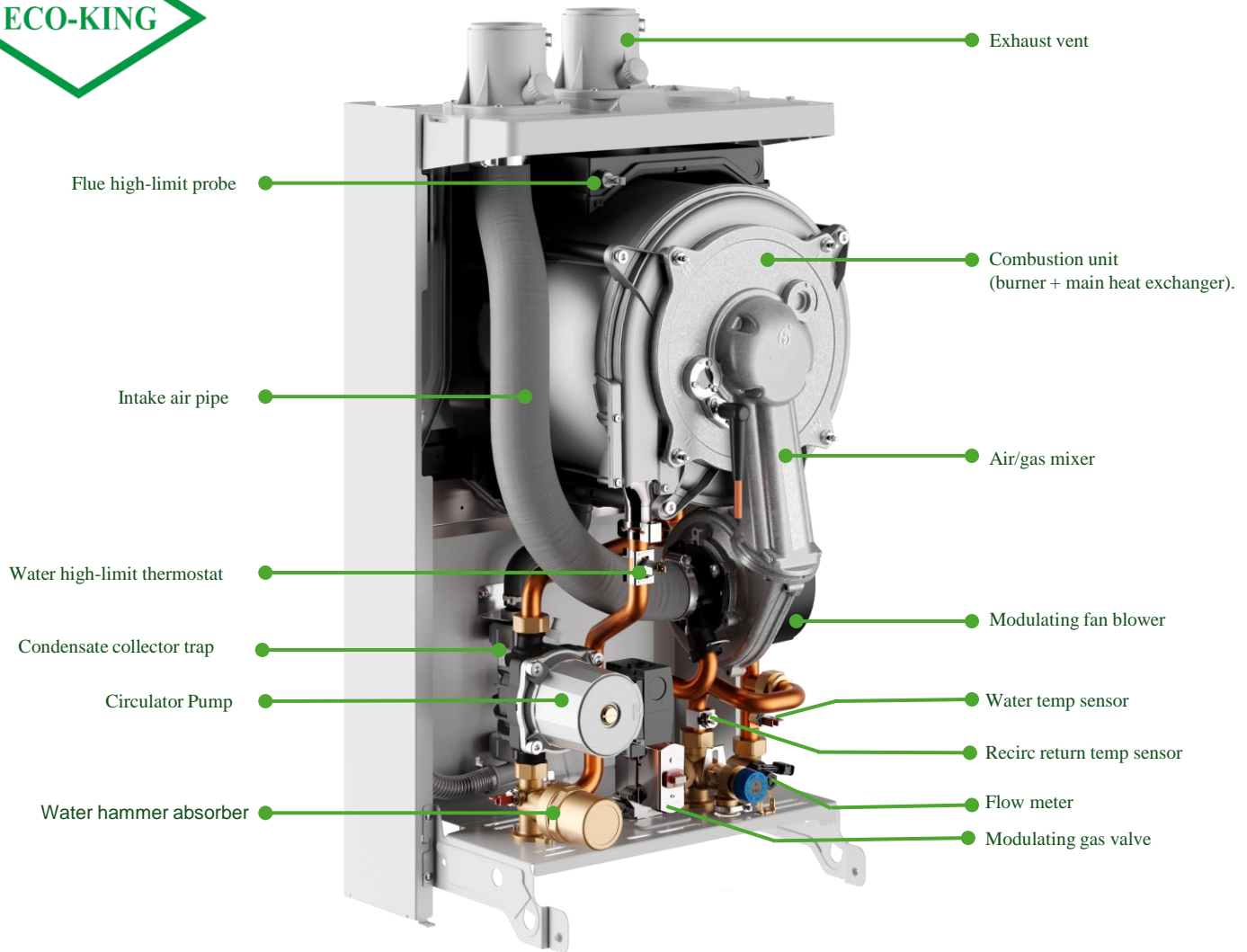
WARRANTY

Main Heat Exchanger 12 years and 2-year parts warranty

More info at: www.kingheatingproducts.com



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Technical Information

Description		u.m.	Heet 199	
Height - Width - Depth		in. (mm)	29-1/8"x15-3/4"x15" (740x400x380)	
Weight		lbs. (kg)	79 (36)	
Sound Level		dB	63	
Vent connection		in. (mm)	2" (51)	
Maximum heat input		btuh (kW)	199,000 (58.3)	
Minimum heat input		btuh (kW)	19,900 (5.8)	
Maximum heat output		btuh (kW)	193,958 (56.8)	
Minimum heat output		btuh (kW)	18,815 (5.5)	
Electrical Ratings	Power supply voltage	V - Hz	120 - 60	
	Overall electric power max	W	160	
	Overall electric power min	W	65	
	Electric power board in stand-by	W	5	
	Fuse rating	A	3.15	
Gas table			Natural Gas	Propane (LPG)
			Heet 199	Heet 199
Nominal supply pressure	in. w.c. (mbar)		7.0" w.c. (17.4)	11.0" w.c. (27.4)
Minimum supply pressure	in. w.c. (mbar)		3.5" w.c. (8.7)	8.0" w.c. (19.9)
Gas orifice diameter	in. (mm)		5/16" (8.0)	1/4" (6.3)
Maximum gas flow rate	cu. ft./hr (m ³ /h)		196.3 (5.56)	-
	lbs/hr (kg/h)		-	9.19 (4.17)
Minimum gas flow rate	cu. ft./hr (m ³ /h)		19.6 (0.56)	-
	lbs/hr (kg/h)		-	0.92 (0.42)
Nominal pressure hydrogen mixture (CH4=80%/H2=20%)	mbar		7.0" w.c. (17.4)	-

DHW	Flow rate @ temperature rise Δt 35°F (19°C)	gpm (l/min)	11.3 (42.9)	
	Flow rate @ temperature rise Δt 45°F (25°C)	gpm (l/min)	8.6 (32.6)	
	Flow rate @ temperature rise Δt 67°F (37°C)	gpm (l/min)	5.8 (22.0)	
	Flow Restrictor	gpm (l/min)	5.8 (22.0)	
	Domestic hot water minimum flow rate	gpm (l/min)	0.8 (3)	
	Recovery Rating	GPH (lph)	235	
	Pressure relief valve rating	psi (bar)	150 (10.3)	
	Minimum DHW pressure	psi (bar)	2.3 (0.16)	
	Domestic hot water temperature (min-max)	°F (°C)	99 - 140 (37 - 60)	
	Water Connections			
	Inlet	in.	3/4"	
Outlet	in.	3/4"		
Return	in.	3/4"		
Gas Connection				
Combustion	NG CO air free min - max lower than (°)	ppm	15 - 200	
	CO ₂ min - max	%	9.0	
	Exhaust temperature (min - max) (°)	°F (°C)	140 - 120 (60 - 49)	
	Flue temperature high limit	°F (°C)	149 (65)	
	LPG CO air free min - max lower than (°)	ppm	15 - 350	
	CO ₂ min - max (°)	%	10.5	
	Exhaust temperature (min - max) (°)	°F (°C)	140 - 104 (60 - 40)	
	Flue temperature high limit	°F (°C)	149 (65)	