

SPECIFICATION SHEET NO.

9802

JANUARY 2011



**SPECIFICATION DATA SHEETS
GREENSTAR 9800[®] SERIES WATER HEATERS**

-Models-

GS98H065

GS98H100

GS98H150

GS98H200

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Specification Data:

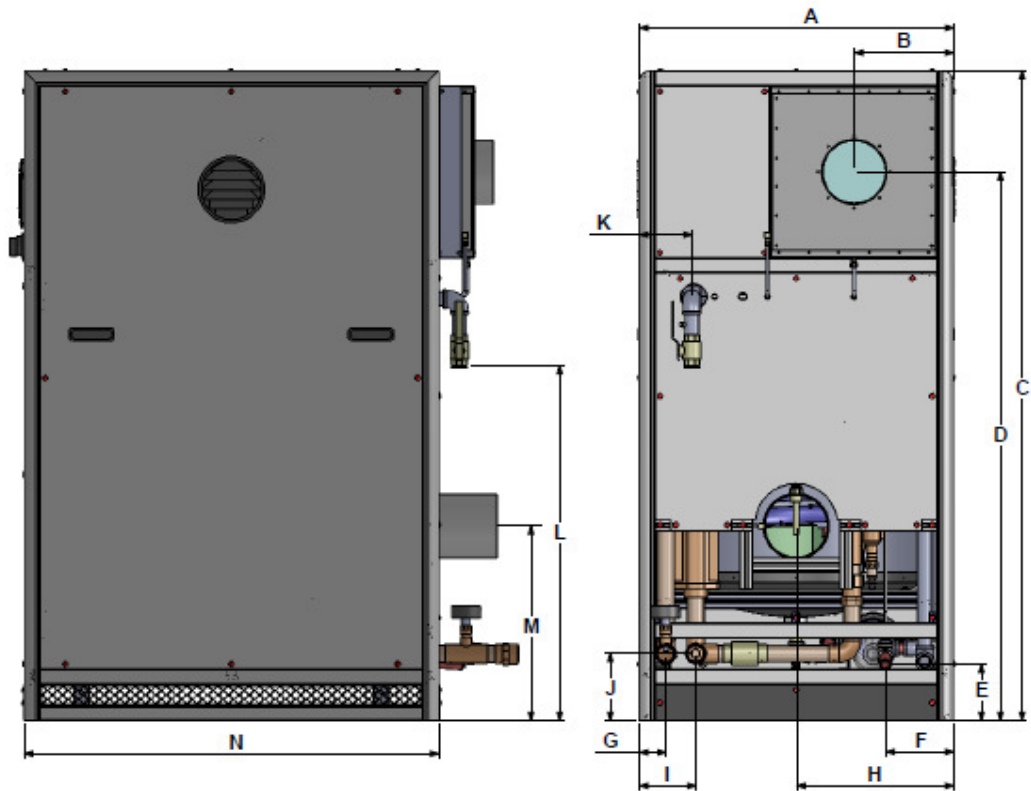
Description	Model Number			
	GS98H065SNG	GS98H100SNG	GS98H150SNG	GS98H200SNG
Input @ Full Fire BTU/hr	650,000	1,000,000	1,500,000	2,000,000
Input @ Minimum Fire BTU/hr	86,667	133,333	200,000	266,667
Output @ Full Fire BTU/hr	598,000	920,000	1,380,000	1,840,000
Modulation Turndown	7.5:1.0	7.5:1.0	7.5:1.0	7.5:1.0
Standard NO _x Rating (ppm)	18	18	18	18
Water Flow Rate in Unit (gpm)	30	30	60	60
Min. Inlet Gas Pressure (in. WC)	4	4	4	4
Max. Inlet Gas Pressure (in. WC)	14	14	14	14
Recovery @ Max (100°F rise) (GPH)	733	1,128	1,693	2,257
Temperature Rise (°F / °C)	40/(4.4)	60/(15.5)	45/(7.2)	60/(15.5)
Maximum Venting Equivalent (ft/m)	100 (30.5)	100 (30.5)	100 (30.5)	100 (30.5)
Electrical Connection (V/Hz/A/Ph)	120/60/30/1	120/60/30/1	120/60/30/1	120/60/30/1
Amp Draw (amps)	20	20	30	30
Width "A" (in/cm)	30.3 (77.0)	30.3 (77.0)	34.3 (87.1)	34.3 (87.1)
Height "C" (in/cm)	63.0 (160.0)	63.0 (160.0)	77.5 (196.9)	77.5 (196.9)
Depth "N" (in/cm)	40.0 (101.6)	40.0 (101.6)	47.75 (121.3)	47.75 (121.3)
Shipping Weight (lb/kg)	720 (326)	720 (326)	1,170 (531)	1,170 (531)

Standard Controls and Features:

<ul style="list-style-type: none"> • Up to 98% efficiency • 4 models: GS98065, GS98100, GS98150, GS98200 • Modulation with 7.5:1.0 turndown • Low NO_x of less than 18ppm • Small footprint • Hot surface igniter with proven reliability • UV flame detector • Honeywell S7910 control • Honeywell S7999B display • Operating and high limit thermostats • Low and high gas pressure switches (manual reset) • High exhaust pressure switch • Water flow switch • CSD-1 standard • Air inlet safety switch 	<ul style="list-style-type: none"> • Combustion air inlet filter • Proprietary coated copper-fin heat exchanger • Main gas valve • Electric power filter • ASME Section IV, 160 psi, stamped • ETL and ETL-C certification • Heat exchanger warranty: 10 years • Thermal shock warranty: 20 years • Cabinet installed circulation pump • BMS communication capable • Zero sidewall clearance necessary • Variable speed blower • Condensate neutralizer • Digital temperature control accurate to +/- 1% • No proprietary components
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Options:

<ul style="list-style-type: none"> • Ultra low NO_x (< 9ppm) with 4:1 turndown • Outdoor weather sealing • BMS interface module • Low water cut-off (probe type) 	<ul style="list-style-type: none"> • Power conditioner (additional capabilities) • Low gas pressure (>4 but <7 in. W.C.) • Outdoor temperature sensor
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Description	Model Number			
	GS98H065SNG	GS98H100SNG	GS98H150SNG	GS98H200SNG
Width "A" (in/cm)	30.3 (77.0)	30.3 (77.0)	34.3 (87.1)	34.3 (87.1)
Height "C" (in/cm)	63.0 (160.0)	63.0 (160.0)	77.5 (196.9)	77.5 (196.9)
Depth "N" (in/cm)	40.0 (101.6)	40.0 (101.6)	47.75 (121.3)	47.75 (121.3)
Gas Cock Location "K" (in/cm)	5.1 (13)	5.1 (13)	3.9 (9.9)	3.9 (9.9)
Gas Cock Location "L" (in/cm)	34.4 (87.4)	34.4 (87.4)	49.4 (125.5)	49.4 (125.5)
Gas Cock Connection	1.0 (2.5) FNPT	1.0 (2.5) FNPT	1.25 (3.2) FNPT	1.25 (3.2) FNPT
Cold Water Inlet Location "I" (in/cm)	6.5 (16.5)	6.5 (16.5)	10 (25.4)	10 (25.4)
Cold Water Inlet Location "J" (in/cm)	6 (15.2)	6 (15.2)	6 (15.2)	6 (15.2)
Cold Water Inlet Connection	1.5 (3.8) MNPT	1.5 (3.8) MNPT	2 (5.1) MNPT	2 (5.1) MNPT
Hot Water Outlet Location "G" (in/cm)	2.5 (6.4)	2.5 (6.4)	3.4 (8.6)	3.4 (8.6)
Hot Water Outlet Location "J" (in/cm)	6 (15.2)	6 (15.2)	6 (15.2)	6 (15.2)
Hot Water Outlet Connection	1.5 (3.8) MNPT	1.5 (3.8) MNPT	2 (5.1) MNPT	2 (5.1) MNPT
Combustion Air Inlet Location "B" (in/cm)	9.5 (24.1)	9.5 (24.1)	9.5 (24.1)	9.5 (24.1)
Combustion Air Inlet Location "D" (in/cm)	53.2 (135.1)	53.2 (135.1)	67.5 (171.4)	67.5 (171.4)
Combustion Air Inlet Diameter (in/cm)	6.0 (15.2)	6.0 (15.2)	8.0 (20.3)	8.0 (20.3)
Exhaust Vent Outlet Location "M" (in/cm)	18.9 (48)	18.9 (48)	27.3 (69.3)	27.3 (69.3)
Exhaust Vent Outlet Location "H" (in/cm)	15.2 (38.6)	15.2 (38.6)	17.2 (43.7)	17.2 (43.7)
Exhaust Vent Outlet Diameter (in/cm)	6 (15.2)	6 (15.2)	8 (20.3)	8 (20.3)
Condensate Drain Location "E" (in/cm)	5.4 (13.7)	5.4 (13.7)	5.4 (13.7)	5.4 (13.7)
Condensate Drain Location "F" (in/cm)	6.5 (16.5)	6.5 (16.5)	5.4 (13.7)	5.4 (13.7)
Condensate Drain Diameter (in/cm)	.75 (1.9)	.75 (1.9)	.75 (1.9)	0.75 (1.9)
Shipping Weight (lb/kg)	720 (326)	720 (326)	1,170 (531)	1,170 (531)
Operating Weight (lb/kg)	750 (340)	750 (340)	1,230 (559)	1,230 (559)

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