CAMUS®
HYDRONICS LTD.

DYNAMAX®

gas fired stainless steel condensing boilers

for hydronic heating, hot water supply
and combination

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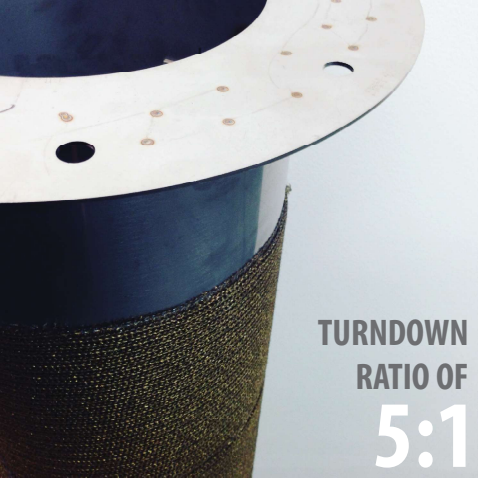
Hydronics Ltd.

Rev.02

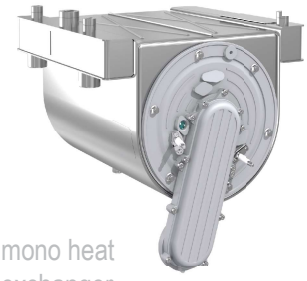


take a peek inside...

efficiencies up to **97%**

Burner

The DynaMax burner is 100% stainless steel and vertical mounted radial fired with stainless knitted metal fiber construction. The burner combusts a precise amount of premixed combustion air and gas to provide equal distribution of heat for heat transfer to the entire heat exchanger. Combustion operates with a 5:1 turn down ratio while sustaining combustion characteristics throughout the entire modulating range.



mono heat exchanger

DynaMax models 210-250 feature a MONO design heat exchanger wherein the secondary heat exchanger is separated by a divider plate from the primary heat exchanger.

Heat Exchanger

The DynaMax features an industry leading, high efficiency stainless steel heat exchanger. The heat exchanger is formulated by multi-pass all welded construction with a maximum working pressure of 160 PSI. The heat exchanger design is capable of 40°F constant system return temperatures that enables fully condensing operation.

With either design, the water always performs the concept of counter flow whereby the coolest water meets with the coolest flue gases and water temperature is gradually increased as it exits the primary heat exchanger. Each tube wraps around the shell of the heat exchanger four times before entering the opposite header. This provides sufficient residency time for energy capture. The flue gases are discharged with a Camus supplied adapter to accommodate PVC, CPVC or Stainless Steel venting. The heat exchanger features a condensate spillway to allow condensate to be properly disposed of in a Camus supplied stainless steel condensate box.

duo heat exchanger

DynaMax models 299-800 feature a DUO design where the heat exchanger is split into two distinct chambers.

Honeywell HAPI Display

The DynaMax is equipped with a multi-line user configurable LCD display which provides access to control system configuration and set up, readouts of various heater temperatures, accumulated runtime, enunciator diagnostics, flame signal readout and firing rates. The display can be accessed through a 5-way touchpad high resolution LCD control with shortcut key access with user and installer protected parameters. The display is capable of storing up to 15 automatic reset errors and 15 manual reset errors.

get connected

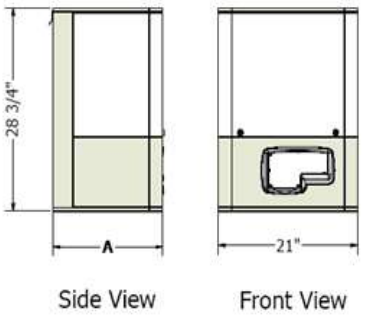
Control Panel Highlights

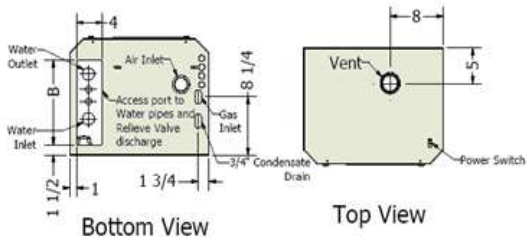
- Multi-line display
- Password access for service professionals
- 5 way intuitive user interface with shortcut access keys
- Local/Remote switch
- Building management interface through Modbus RTU (RS485) Protocol
- Optional gateway protocol converter for additional protocols: Bacnet IP, Bacnet MSTP, MetasysN2 or LonWorks
- Alarm contacts
- 15 item error history
- Indoor/Outdoor reset capable
- Dedicated DHW pump contact, 1/6 hp
- Boiler setpoint or firing rate control can be achieved by analog input signal using 4-20mA or optional 0-10Vdc remote signal
- Central heating with outdoor reset, or with room thermostat or in combination
- Domestic hot water priority with combo
- Multiple pumps and valves control
- Boiler modulates to shut down on flue gas high temperature detection

Standard Features

- All stainless steel water surfaces
- Gasketless heat exchanger design
- Approved plastic venting up to 100 feet (PVC, CPVC, PPE)
- Up to 150 PSI relief valves
- Onboard digital operating control
- Fully modulating with 5:1 turndown
- Available in Natural Gas or LP
- Thru wall exhaust vent (vertical or horizontal) with 3 air intake options:
  1) outside air sealed direct
  2) outside air
  3) Indoor air
- UL353 approved fail safe high limit @ 210°F with manual reset
- Flow proving switch
- Direct spark ignition
- Flame failure alarm contacts
- Cascade up to 8 individual appliances in daisy-chain formation
- Outdoor Sensor for models 210-290 (htg application only)
- Factory mounted boiler circulating pump
- Neutralizer Kit
- System sensor / DHW sensor
- Single point input adjustment for air and gas
- 1 to 1 air/gas ratio for perfect modulation throughout
- Extremely low NOx emissions exceeding air quality standards (<10ppm)
- Extremely low noise level of operation

Dimensions and Specifications - Wall Mount



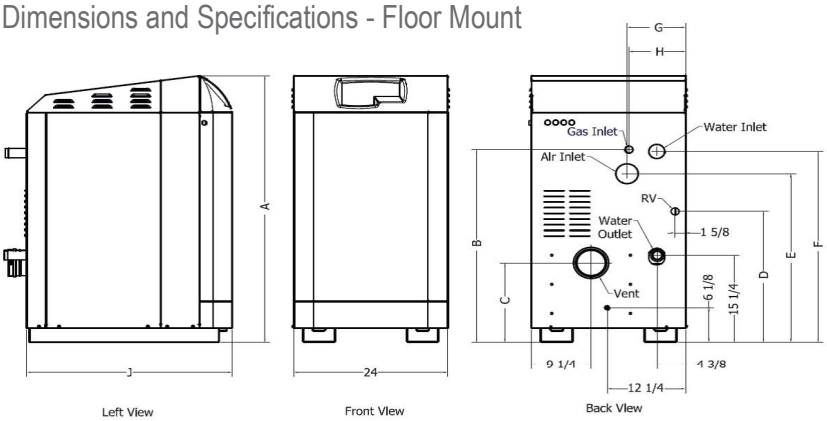


Model	Maximum Input MBTU/hr	Maximum Output MBTU/hr
200	200	186.0
250	250	232.5
210	199	186.0
260	250	232.5
290	299	278.0
399	399	371.0
500	500	465.0
600	600	558.0
700	700	651.0
800	800	744.0

Dimensions and Specifications

Model	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim."F"	Dim. "J"	Equivalent Length of Vent & Air Intake Pipes at Recommended Dia.				Water Conn. at Heater NPT	Gas Conn. at Boiler NPT
								Category IV			CAT.II Comb. Vents		
								Over 25' and up to 100'	Over 15' and up to 25'	Up to 15'			
200	23 1/2"	19"	-	-	-	-	-	3"	3"	2"	-	1"	1/2"
250	23 1/2"	19"	-	-	-	-	-	3"	3"	2"	-	1 1/4"	1/2"
210	42 1/2"	25 3/4"	14 1/4"	23"	24 1/4"	34 1/4"	32"	3"	3"	2"	4"	1"	1/2"
260	42 1/2"	25 3/4"	14 1/4"	23"	24 1/4"	34 1/4"	32"	3"	3"	2"	4"	1 1/4"	1/2"
290	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	5"	1 1/4"	3/4"
399	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	5"	1 1/2"	1"
500	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	6"	1 1/2"	1"
600	47 1/8"	36 1/4"	14"	23"	30 3/4"	38"	40 1/2"	4"	3"	3"	6"	2"	1"
700	47 1/8"	36 1/4"	14"	23"	30 3/4"	38"	40 1/2"	4" (Air), 6" (Vent)	4"	4"	7"	2"	1"
800	47 1/8"	36 1/4"	14"	23"	30 3/4"	38"	40 1/2"	5" (Air), 6" (Vent)	5"	5"	7"	2"	1"

Dimensions and Specifications - Floor Mount



Model	Shipping Weights		
	HTG	DHW	Combination
200	210	210	220
250	220	220	230
210	315	315	320
260	320	320	335
290	376	376	380
399	405	405	445
500	450	470	514
600	490	610	650
700	533	615	660
800	600	630	675

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Camus® Hydronics is taking a leading role in the development of environmentally friendly products through innovative engineering as we incorporate the very latest technologies designed to create higher efficiency levels while lowering emissions.

Camus® is continually setting new benchmarks of excellence through skillfully engineered and solidly constructed high-efficiency products designed to provide years of reliable service and comfort.

Additional specifications can be obtained by visiting our website or by calling your local Camus® representative.

The Camus® Certified seal assures you that reliability, efficiency and serviceability are built into every single unit.

CAMUS® Hydronics Ltd.