

CAMUS[®]
HYDRONICS LTD.



DYNAMAX[®]

gas fired stainless steel condensing boilers

for hydronic heating, hot water supply
and combination





**TURNDOWN
RATIO OF
5:1**

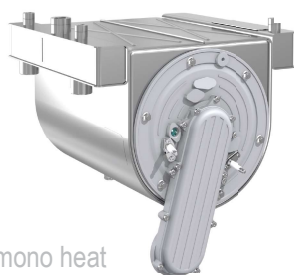
take a peek inside...

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 21X-25X 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 29X-80X 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

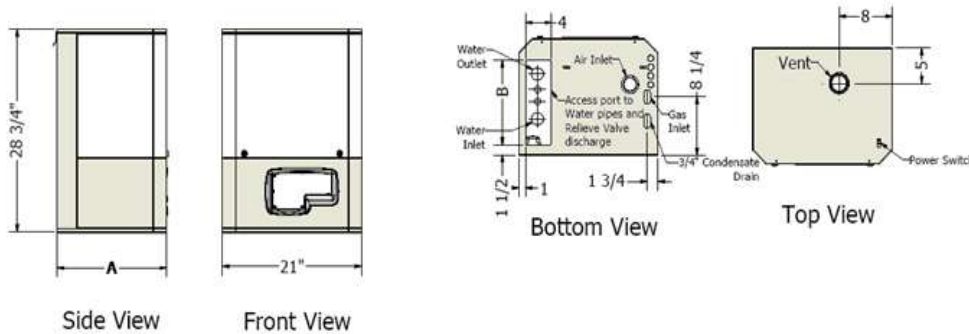
- Indoor/Outdoor reset capable
- Dedicated DHW pump contact, 1/6 hp
- Boiler setpoint or firing rate control can be achieved by analog input signal using 4-20mA or optional 0-10Vdc remote signal
- Central heating with outdoor reset, or with room thermostat or in combination
- Domestic hot water priority 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 211-291 (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
20X	200	186.0
25X	250	232.5
21X	199	186.0
26X	250	232.5
29X	299	278.0
39X	399	371.0
50X	500	465.0
60X	600	558.0
70X	700	651.0
80X	800	744.0

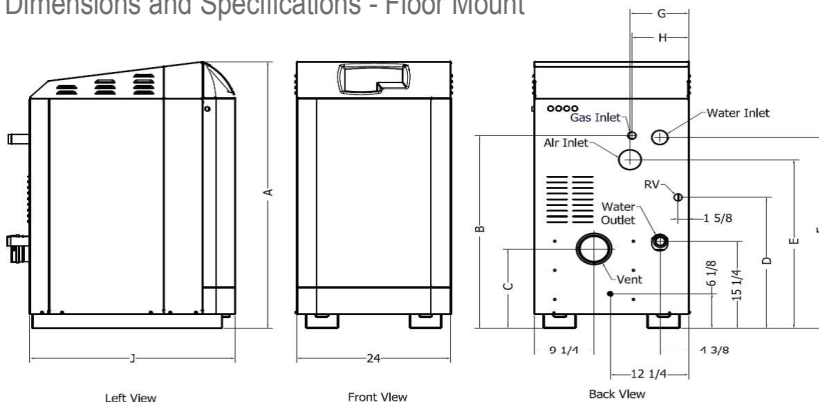
Note:

For Hydronic Heating Boilers, replace X with 1
 For Domestic Hot Water Boilers, replace X with 2
 For Combination HTG/DHW Boilers, replace X with 3

Dimensions and Specifications	Equivalent Length of Vent & Air Intake Pipes at Recommended Dia.											Water Conn. at Heater NPT	Gas Conn. at Boiler NPT	
	Model	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"	Dim. "J"	Category IV					CAT.II Comb. Vents
									Over 25' and up to 100'	Over 15' and up to 25'	Up to 15'			
	20X	23 1/2"	19"	-	-	-	-	-	3"	3"	2"	-	1"	1/2"
	25X	23 1/2"	19"	-	-	-	-	-	3"	3"	2"	-	1 1/4"	1/2"
21X	42 1/2"	25 3/4"	14 1/4"	23"	24 1/4"	34 1/4"	32"	3"	3"	2"	4"	1"	1/2"	
26X	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"	
29X	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	5"	1 1/4"	3/4"	
39X	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	5"	1 1/2"	1"	
50X	47 1/8"	34 7/8"	14"	23"	29 7/8"	33 7/8"	32"	4"	3"	3"	6"	1 1/2"	1"	
60X	47 1/8"	36 1/4"	14"	23"	30 3/4"	38"	40 1/2"	4"	3"	3"	6"	2"	1"	
70X	47 1/8"	36 1/4"	14"	23"	30 3/4"	38"	40 1/2"	4" (Air), 6" (Vent)		4"	4"	7"	2"	1"
80X	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

Dimensions and Specifications - Floor Mount



Model	Shipping Weights		
	HTG	DHW	Combination
20X	210	210	220
25X	220	220	230
21X	315	315	320
26X	320	320	335
29X	376	376	380
39X	405	405	445
50X	450	470	514
60X	490	610	650
70X	533	615	660
80X	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.

