Camus | Boilers

VHF Sales, Inc.

CAMUS Hydronics Ltd.



OVERVIEW

CAMUS Hydronics manufactures a comprehensive range of commercial and industrial boilers designed to meet the heating and hot water requirements of modern buildings. From compact electric and high-efficiency condensing boilers to large-capacity water-tube systems, CAMUS offers equipment for a wide variety of hydronic applications. With multiple heat exchanger technologies, flexible installation arrangements, advanced controls, and a broad selection of heating capacities, CAMUS provides solutions for new construction, equipment replacements, and system upgrades.

Key Features & Benefits

- **High-Efficiency Heating** Available condensing boiler technologies help reduce fuel consumption and improve system efficiency, particularly in applications designed around lower return-water temperatures.
- **Multiple Heat Exchanger Technologies** Firetube, watertube, stainless steel, and copper-based heat exchanger options provide flexibility for different operating conditions and system requirements.
- **Advanced Controls & Modulation** Available modulating burners, integrated controls, and building automation interfaces support precise temperature management and efficient operation.
- **Flexible Equipment Selection** A broad range of heating capacities, footprints, fuel options, and installation configurations helps accommodate commercial and industrial projects.
- **Service & Maintenance Accessibility** Equipment designs incorporate accessible components and service features intended to simplify inspections and routine maintenance.
- **Electric & Gas-Fired Solutions** Electric resistance heating and gas-fired boiler technologies provide options for different building energy strategies and infrastructure requirements.

Source: Camus | camus-hydronics.com

Camus | AmpTron Electric Boilers

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PRODUCT LINES

AmpTron Electric Boilers

The CAMUS AmpTron Series provides fully electric hydronic heating for commercial applications. Its compact footprint and modular heating elements make it suitable for projects where installation space, electrification, and service accessibility are priorities.

Key Highkights

- Electric heating with no on-site combustion emissions
- Optional SCR control for continuous modulation
- Optional PLC/HMI with power monitoring
- Replaceable heating elements
- Compact design for retrofit applications



Models Available:

- 90 kW
- 180 kW
- 270 kW
- 360 kW
- 450 kW
- 540 kW

All available in 240, 480 or 600 volts

240VAC 60Hz, 3 Phase		
Model	Input	Total Current
AM-90	90KW	219
AM-180	180KW	437
AM-270	270KW	653

480VAC 60Hz, 3 Phase		
Model	Input	Total Current
AM-90	90KW	111
AM-180	180KW	219
AM-270	270KW	327
AM-360	360KW	437
AM-450	450KW	546
AM-540	540KW	653

600VAC 60Hz, 3 Phase		
Model	Input	Total Current
AM-90	90KW	89
AM-180	180KW	176
AM-270	270KW	262
AM-360	360KW	350
AM-450	450KW	437
AM-540	540KW	523

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Source: Camus | camus-hydronics.com

Camus | Firetube Boilers

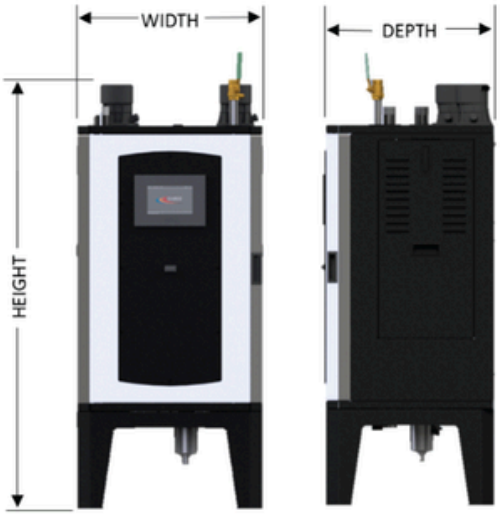
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Valiant-FT Series I

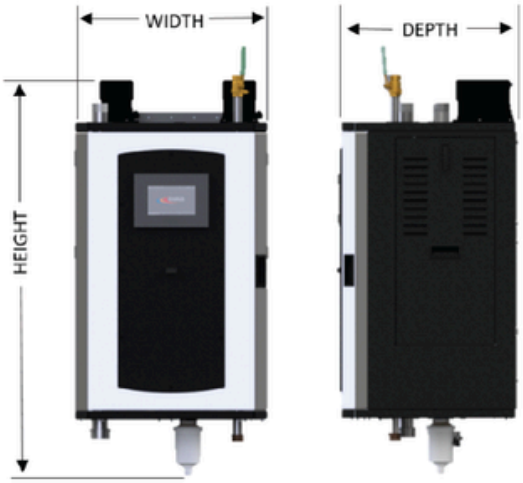
The Valiant-FT Series I is a compact condensing firetube boiler designed for smaller commercial hydronic heating applications. Available wall-hung and floor-mounted arrangements provide installation flexibility for mechanical rooms with limited space.

Key Highkights

- 80–399 MBH input range
- High-efficiency condensing operation
- Stainless steel firetube heat exchanger
- Up to 10:1 turndown
- Natural gas or propane operation
- Compact installation footprint



Floor-mounted



Wall-mounted

Serviceability in any situation

The Valiant-FT takes into consideration convenience of access to all components, as well as multiple field installation possibilities. All the components are conveniently placed inside the jacket, making them easily accessible from multiple access points from the body of the unit. Paired with the small footprint and zero inch clearance to combustibles on either side, the Valiant-FT can be installed seamlessly into any space restrictive job sites while still maintaining an ease of access to the appliance.

- Can be floor or wall mounted
- Reversible swing door (swing open left or right)
- Interchangeable location of touchscreen (top or bottom)
- Service panels on 3 sides

A top mounted stainless steel mesh burner design makes it easily removable for cleaning and access to the combustion chamber, including all burner mounted components.

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Camus | Firetube Boilers

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Valiant-FT Series II

The Valiant-FT Series II expands the Valiant product family into higher-capacity commercial applications. Its fully condensing stainless steel firetube design supports efficient hydronic heating, including systems operating at low return-water temperatures.



Venting Options

- Category II and IV venting
- Direct venting
- Standard PVC/CPVC flue vent connection
- Room air
- Horizontal & vertical venting
- Outdoor venting (Consult Factory)

Venting Materials

- PVC
- CPVC
- PPE
- AL29-4C Stainless Steel

Key Highkights

- Capable of up to 99.4% Thermal Efficiency and up to 99.2% Combustion Efficiency.
- Available in a broad capacity range, with inputs from 400 to 850 KBtu/h.
- Fully condensing vertical cylindrical counter-flow firetube design heat exchanger, with stainless steel construction and all welded design allowing constant system return temperatures as low as 40F°.
- 10:1 gas input turn-down ratio with sustained combustion characteristics throughout the entire range.
- Category II & IV venting.
- Fully factory fire-tested to obtain optimum combustion characteristics and to establish certified gas input rates.
- Safety and operating devices and controls fully configured, calibrated and factory tested.
- Complies with the energy efficiency requirements of the latest edition of the ASHRAE 90.1 Standard.
- Certified by CSA to the Requirements of ANSI Z21.13, And CSA 4.9.

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Camus | Watertube Boilers

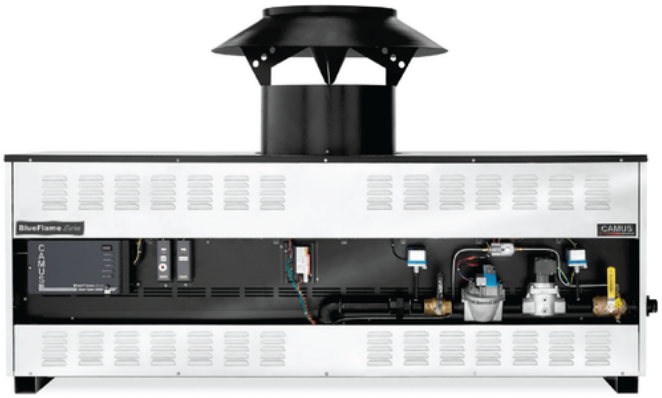
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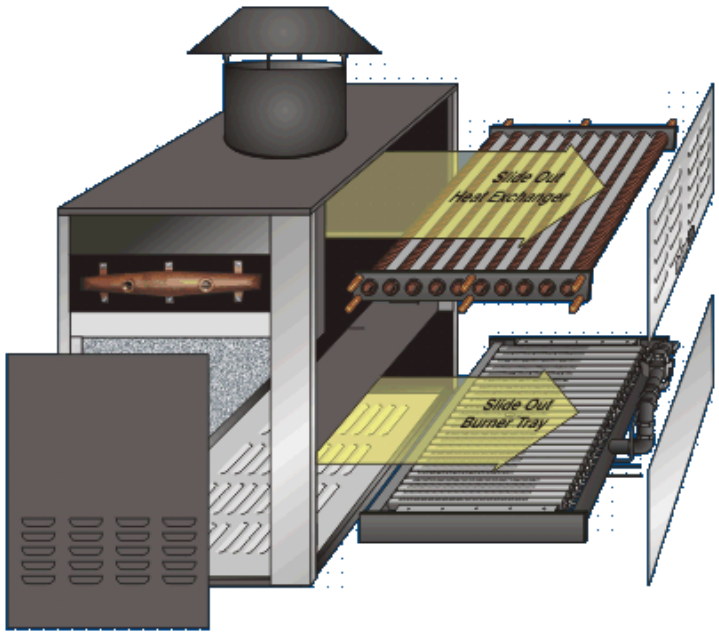
BlueFlame Series

The CAMUS BlueFlame Series provides atmospheric gas-fired heating for commercial and industrial hydronic applications. Its non-condensing design offers an alternative for projects where conventional boiler technology is appropriate.

Key Highkights

- Optional digital temperature control is extremely accurate to minimize standby losses from temperature overshoot
- Suitable for venting in low ceiling applications with use of power venter and low profile hood efficiencies up to 83%Adaptable to outdoor use
- Diagnostic lights help troubleshoot over the phone
- Slide out stainless steel burner tray
- Slide out copper tube heat exchanger
- Easy side access for inspection of combustion chamber
- High temperature ceramic fibre tiles in combustion chamber
- Very smooth and quiet operation
- Optional modulating firing mode available





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DynaFlame Series

The CAMUS DynaFlame Series provides versatile watertube heating solutions with non-condensing, near-condensing, and fully condensing configurations. Available heat exchanger materials and firing options allow equipment to be selected around specific system operating requirements.

Key Highkights

- Optional digital temperature control is extremely accurate to minimize standby losses from temperature overshoot
- Suitable for venting in low ceiling applications with use of power venter and low profile hood efficiencies up to 83%Adaptable to outdoor use
- Diagnostic lights help troubleshoot over the phone
- Slide out stainless steel burner tray
- Slide out copper tube heat exchanger
- Easy side access for inspection of combustion chamber
- High temperature ceramic fibre tiles in combustion chamber
- Very smooth and quiet operation
- Optional modulating firing mode available



Controls

In a world where we are becoming more connected, the DynaFlame is ready to enter this revolutionary phase in building automation. All DynaFlame models are equipped with standard Modbus RTU communication protocol to allow for BMS access to view boiler operation. The remote monitoring of a boiler plant allows for complete overview of various boiler-related temperatures, boiler status, pump activation, boiler error codes and more. This is not just limited to read-only parameters, as a BMS is permitted to write setpoint temperatures, enable/disable and remotely send and receive firing rate requests. To further evolve and adapt to the changing marketplace, the DynaFlame is available with BacnetIP, BacnetMSTP, MetasysN2 and LonWorks protocol support. All the features available in the Modbus RTU realm are carried into these protocol's with the use a highly advanced yet user friendly Fieldserver Protonode. The Fieldserver Protonode is equipped with Ethernet or RS485 connectivity and is BTL (BACnet Testing Laboratory) Certified. This approval assures that we carry only the highest quality products with optimum performance and utmost ease of connectivity.

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DynaForce Series

The CAMUS DynaForce Series combines fully modulating operation with a stainless steel vertical cylindrical heat exchanger. Designed for commercial and industrial hydronic systems, DynaForce provides high-efficiency heating across varying system loads.

Key Highkights

- Up to 99% thermal efficiency
- Fully modulating burner operation
- Stainless steel heat exchanger construction
- High-capacity commercial heating applications
- Condensing operation
- Integrated controls and system management capabilities



Burner and Heat Exchanger

The 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 turndown ratio while sustaining combustion characteristics throughout the entire modulating range.

Constructed of 439 grade stainless steel, this welded heat exchanger features a 12 pass design with a maximum working pressure of 160 psig (1100 kPa) and a vertical cylindrical counter-flow water tube design complete with intregal 439 grade stainless steel finned heat transfer tubes and waterways. The heat exchanger design is capable of 40°F constant system return temperatures for fully condensing operation and comes complete with condensate trap and drains,

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DynaMax Series

The DynaMax is a gas fired condensing boiler with up to 97% efficiency. Developed for residential and commercial applications, and available in floor or wall mount.

Key Highkights

- Up to 97% efficiency
- Approved plastic venting up to 100 feet
- Up to 150 PSI Relief Valves
- Onboard digital operating control
- Fully modulating with 5:1 turndown
- Stainless steel heat exchanger
- Available Natural Gas or LP
- Thru wall exhaust vent (vertical or horizontal) with 3 air intake options:
  - outside air sealed direct
  - outside air
  - indoor air
- Extremely low NOx
- Fail Safe high limit w/Manual reset
- Flow proving
- Direct spark ignition
- Zero clearance to combustibles
- Boiler Circulating pump
- Neutralizer Kit.



Wall Mount - Model numbers

- 020X (194 Mbtuh max. output)
- 025X (243 Mbtuh max. output)

Floor Mount - Model numbers

- 021X (194 Mbtuh max. output)
- 026X (243 Mbtuh max. output)
- 029X (291 Mbtuh max. output)
- 039X (387 Mbtuh max. output)
- 050X (485 Mbtuh max. output)
- 060X (582 Mbtuh max. output)
- 070X (679 Mbtuh max. output)
- 080X (776 Mbtuh max. output)

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