



- Gas-Fired
- High Efficiency
- Wall Mount
- Energy Star Rated*

Models VGH-299 CH, VGH-399 CH and VGH-500 CH

VGH FEATURES AND BENEFITS

Star/bar Standard Boiler Equipment

- Boiler control
- On/off power switch
- Supply and return water temperature sensors
- Integrated pressure sensor
- Integrated flow rate sensor
- Flue gas temperature sensor
- Integrated flue gas check valve (on some models)
- Internal automatic air vent
- Fully serviceable from the front of the boiler
- Stainless steel cabinet with light weight molded removable front door
- Sealed boiler cabinet reduces chances for debris entering the premix fan
- Integrated probe low water cutoff
- Outdoor air sensor
- Condensate trap
- Boiler drain

Boiler Equipment

- Manual gas shutoff ball valve
- High limit with manual reset
- Adjustable high limit with automatic reset
- Temperature and pressure gauge
- Locking safety bracket for wall installation


High Voltage Terminals

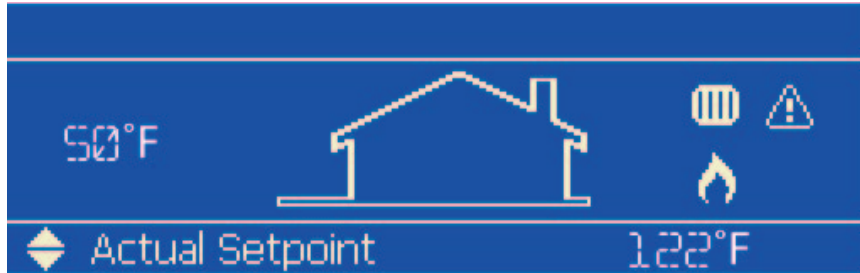
- Boiler circulator contact
- DHW circulator contact
- System circulator contact
- 3 DHW Indirect Tank 3 Way Valve contact
- Alarm contact

Low Voltage Terminals

- Universal safety contact set 1
- Universal safety contact set 2
- Gas pressure switch safety contact
- Low water cutoff safety contact
- Cascade connection
- PWM circulator control
- 0-10 VDC input contact
- Thermostat/OpenTherm terminal
- Modbus
- DHW sensor/aquastat/Flow switch contact
- System Sensor
- Outdoor Sensor



* AFUE VGH-299 CH is Energy Star Rated 



Boiler Controls

Large backlit LCD screen with easy to read full text information, programming and errors

Circulator Controls

- PWM control for variable speed circulators
- Boiler circulator
- System circulator
- DHW circulator
- Circulator exercise function
- Circulator overrun function
- Additional alternate functionality for air dampers and 3-way valves

Additional Features

- Two level frost protection
- Short cycle protection
- Adjustable maximum and minimum power
- Temperature Boost function
- Multiple levels of security
- Two levels of frost protection

Outdoor Reset

- Easy to setup and program outdoor reset curves with graphically displayed curves
- Warm weather shutdown
- Night setback

Multiple DHW Control Options:

- DHW Priority
- CH Priority
- Parallel DHW and CH operation
- DHW priority with time out to CH
- DHW plate heat exchanger control option
- Anti-legionella program when used with indirect tank sensor

Boiler Data Logging

- Error logging with time and date stamp
- Boiler history logging

Cascade Program Options

- Integrated cascade control
- Cascade control of up to 16 boilers
- Remote operation and heat demand indication from each boiler
- Four cascade program modes
- Cascade control for both heating and DHW
- Boiler sequencing and rotation control

External Control and BMS Options

- Modbus connection standard
- 0-10 VDC remote flow temperature (set point) control
- 0-10 VDC remote boiler input control
- Accessory communication modules available

Data Logging

- Real time and date clock
- Days of operation
- Heating burner runtime hours
- DHW burner runtime hours
- Successful ignition attempts
- Failed ignition attempts
- Flame failures
- Last 15 lockout errors
- Hours since last service
- Hours until next service
- Total days of boiler operation



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