

NORTH AMERICA



Gallant Solo Features

- Light weight construction for wall mounting
- Approved for zero clearance to combustibles
- 4" PVC, CPVC, PP, or AL29-4C venting up to 100 equivalent feet
- Limited 5 year warranty on parts, except igniter
- Limited 10 year warranty on heat exchanger

Approvals

- 95% AFUE Efficiency
- ENERGY STAR Qualified
- ANSI Z21.13 and CSA 4.9 Boiler Standards Compliance
- ASME Boiler Certification ASME "H" Stamp

Stainless Steel Fire Tube Heat Exchanger

- 439 Stainless Steel heat exchanger construction for corrosion resistance
- Low pressure drop minimizes circulator size
- High water content provides stable temperature control
- Self cleaning flue ways reduce maintenance
- Suitable for use with propylene glycol up to 50% concentration

Engineering Submittal Gallant Solo 299

CTRLMax Control System

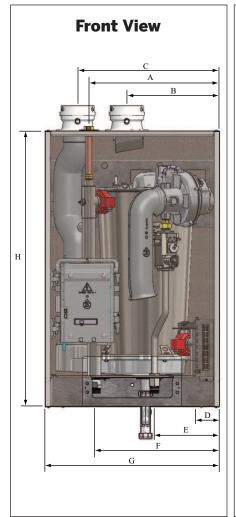
- Graphical display with 6 navigation buttons
- EZ Setup allows quick and easy boiler settings adjustment
- Presets allow quick configuration of 4 circulator outputs
- Each circulator output is fully configurable for custom applications
- Outdoor temperature reset to maximize efficiency
- Accepts two space heating call inputs with independent outdoor reset curves
- Simultaneously heat dual temperature heating systems with built-in mixing valve control
- Domestic hot water priority with optional time-out
- Integrated cascade control for up to 6 Prestige boilers
- 0-10 VDC Modulation input
- Modbus building management system (BMS) interface, LonWorks® and BACnet® interface optional
- Adjustable warm weather shutdown
- Adjustable boiler freeze protection
- Logging function records sensor readings for system optimization and troubleshooting
- Describes lockouts in plain english and suggests solutions while storing last 8 errors

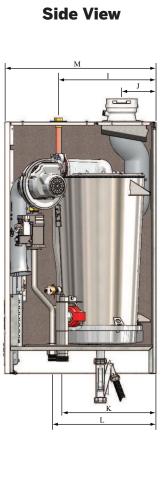
Standard Equipment

- Stainless steel premix burner
- Direct spark ignition with variable speed blower
- Full modulation with turndown ratio of 4.1:1
- Automatic air vent
- ASME 30 PSI pressure relief valve
- Integrated pressure and temperature gauge
- Outdoor temperature sensor
- Automatic low water cutoff feature with early warning
- High temperature manual reset limit safety control
- Terminal block for circulator output
- Low voltage terminal strip with removable jumpers for manual or automatic reset limits
- Swing out control for easy access and servicing
- Alarm and flame status contacts
- Polypropylene condensate pan and internal flue pipe
- Polypropylene vent/air connections with test ports

| Project / Location: | Date: |
|----------------------------------|-------|
| Consulting Engineer / Architect: | |
| Mechanical Contractor: | |

Boiler Dimensions





| Letter | Connection | Dimension in [mm] | | |
|--------|--|---------------------------------------|--|--|
| A | 3/4" NPSC Pressure Relief Valve | 18-5/8" [473] | | |
| В | 4" Combustion Air Inlet | 13-1/4" [336] | | |
| С | 4" Vent Outlet | 20-1/4" [514] | | |
| D | 1-1/2" NPT Boiler Return | 3-1/4" [82] | | |
| E | 1" NPT Gas Connection | 9-1/4" [236] | | |
| F | 1-1/2" NPT Boiler Supply | 17-7/8" [454] | | |
| G | Boiler Width | 24-7/8" [632] 39-3/8" [1000] | | |
| Н | Boiler Height | | | |
| I | 3/4" NPSC Pressure Relief Valve | 15-1/4" [388] | | |
| J | 4" Combustion Air Inlet & 4" Vent Outlet | 5-3/8" [136] | | |
| К | 1" NPT Gas Connection | 16-1/4" [412] | | |
| L | 1-1/2" NPT Boiler Return & Supply | 14-5/8" [372] | | |
| М | Boiler Depth | Depth 23-5/8" [600] | | |

Boiler Specifications

| Model | Fuel | Input Modulation (MBH) | AFUE | DOE Heating Capacity (MBH) | Net AHRI (MBH) | Boiler Water Volume (gal) | Power | Shipping Weight (Lbs) |
|----------|--------------------|------------------------------|------|-------------------------------|----------------------|------------------------------|----------------------|-----------------------|
| Solo 299 | Natural Propane | 72.5 - 299 | 95% | 278 | 242 | 7.4 | 120/1/60 FLA: 10A | 210 |

Pressure Drop Curve vs Grundfos Circulators

