



*This product meets a stringent set of our company's internally defined sustainability standards*

# SFB<sup>TM</sup> SUPERFLOW BOILER



# HEAT

HIGH EFFICIENCY  
CONDENSING BOILER  
SFB 99-1, SFB 120-1

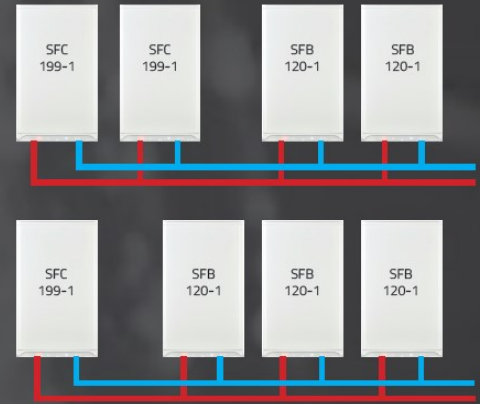


# IBC<sup>®</sup>

# Unique Wireless Cascade Feature

The Superflow™ SFB includes an innovative wireless cascade feature which allows up to 8 units to operate together for instances where a single Superflow™ unit is not large enough. Create a cascade system using multiple SFB units to meet your space heating needs with the added benefits of greater efficiency and redundancy. The Superflow™ wireless cascade system is very easy to setup and flexible enough for your most demanding applications.

- Wireless communication means cascade system setup is as simple as enabling the built-in cascade function on up to 8 units and connecting the system sensor. No communication cables required.
- Cascade multiple Superflow™ units for any space heating and/or DHW applications.
- Wireless communication provides the ultimate in cascade system redundancy. The cascade system continues to operate during maintenance or repair of a cascaded unit.



Wireless cascade multiple configurations up to 8 units.\*

# INNOVATION

## Easy Maintenance

1. Pump (ECM)
2. Burner Fan
3. Heat Exchanger
4. Rear Flue Duct
5. Gas Valve
6. Touch Pad Control
7. Condensate Trap
8. Air Intake
9. Inlet Gas Line
10. Outlet Gas Tube



## 4 Moving Parts

Fan, Pump, Gas Valve, and Damper

The Superflow™ SFB contains cutting-edge, solid-state electronics to control its gas valve, fan, and ignition. By doing so, we've succeeded in reducing the number of moving parts, made service simple, and increased reliability.

\*Diagrams and images for visual representation only. Consult Installation & Operation Manual for further information.



Excellent value for money, the SFB™ offers an economical solution to all home heating needs without sacrificing reliability. A compact, reliable, high efficiency boiler that features a unique aluminum heat exchanger with copper waterways.



## SIMPLE

Mount > Connect > Plug In > Enjoy endless heat

- Copper waterways embedded in a cast aluminum block
- A total of 4 moving parts - Unparalleled in the industry (*Fan, Pump, Gas Valve, and Damper*)
- Illuminated touchscreen control display panel
- Contractor friendly: Standardized connection sizes and universal internal parts
- 2" vent lengths up to 65'
- 2" vent adapter
- Standard pipe connections
- Extended pipe fittings

## RELIABLE

- Will accept a 0-10 VDC signal from external control system
- Innovative state of the art electronic control
- Compatible with standard Propylene Glycol

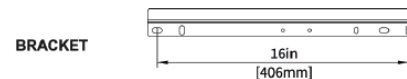
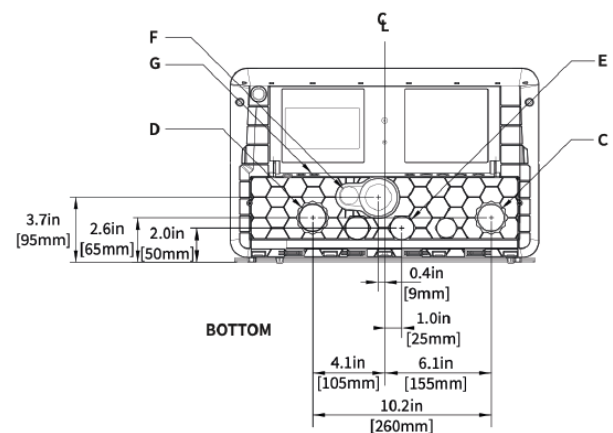
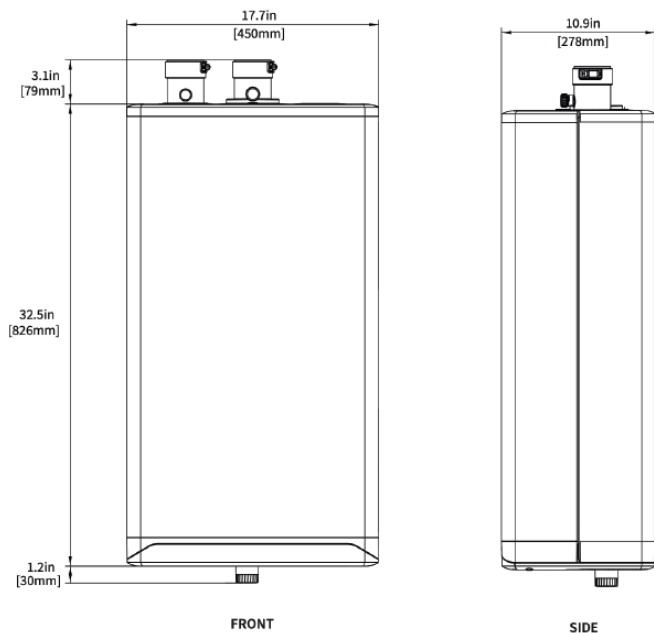
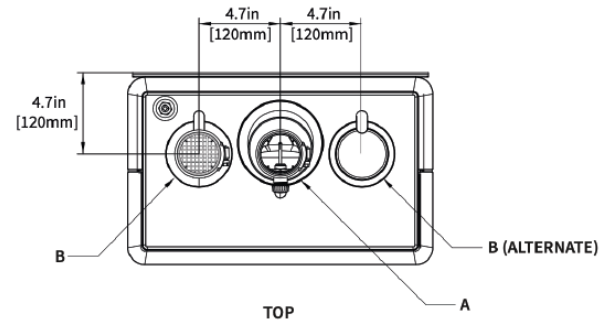
## EFFICIENT

- Up to 96% AFUE with full ASME-rated heat exchanger
- Wireless cascade up to 8 units
- Packaged with a high efficiency variable speed pump (ECM) for increased efficiency
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Advanced modulating temperature control

# SFB - BOILER

## Dimensions

DESCRIPTION	DIMENSION
A Exhaust Outlet	2" Schedule 40 PVC
B Combustion Air Inlet	2" Schedule 40 PVC
C Heating Water Inlet (Return)	1" Male NPT
D Heating Water Outlet (Supply)	1" Male NPT
E Gas Inlet	3/4" Male NPT
F Condensate Outlet	3/4" Hose
G Control Wiring Entrance	7/16" Rubber Plug



## Touch Panel Control Indicators

The **SFB Superflow™** controller functions as an interactive touch-sensitive panel with buttons that light up, showing indicators such as numbers, icons, or letters. Some of these lit indicators signify boiler operational status. Other indicators enable you to program the boiler.



TOUCH PANEL	FUNCTION	TOUCH PANEL	FUNCTION
1. Numerical Display	Main display	6. Radiator	Space heating indicator
2. Plus & Minus	Temperature adjustment	7. Wrench	Service / Reset
3. Flame	Burner ON indicator	8. Return Arrow	Enter / Save
4. Dot	Power ON indicator	9. Numerical Display	Service display
5. Faucet	DHW indicator		



## INNOVATIVE Labyrinth Heat Exchanger Design

Our SFB SUPERFLOW™ utilizes our patented, tried-and-tested heat exchanger technology that incorporates a fully integrated copper coil, ensuring maximum heat transfer and minimal heat loss.

The cold water supply flows directly through the heat exchanger, condenses flue gasses fully, and extracts as much heat as possible.



# SFB - BOILER

## Technical Information



SPECIFICATIONS	SFB 99-1	SFB 120-1
CSA Input (Natural Gas or Propane) - MBH	15.5-99	13.6-120
CSA Input (Natural Gas or Propane) - KW	4.5-29	4-35.2
CSA Output - MBH	14.8-89	13-108
CSA Output - KW	4.3-26.1	3.8-31.7
A.F.U.E.	96%	95%
Min. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	4	4
Max. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	14	14
Power (120Vac/60Hz) - Watts at Full Fire w/ Internal Pump	126	126
Weight (empty) - lbs/Kg	85/39	85/39
Pressure Vessel Water Content - USG/Liters	0.5/1.9	0.5/1.9
Max. Boiler Flow Rate - GPM/LPM	10/37.8	11/41.6
Min. Boiler Flow Rate - GPM/LPM	2/7.6	2/7.6
Max. Operating Pressure - Space Heating Coil - psig	43.5	43.5
Approved Installation Altitude - ASL	10,000	10,000
Ambient Temperature - Low (°F/°C)	32/0	32/0
Ambient Temperature - High (°F/°C)	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%
Min. Water Temperature (°F/°C)	51/10	51/10
Max. Water Temperature (°F/°C)	194/90	194/90
Max. Equivalent Vent Length 2" (each side)	65' *	65' *
Max. Equivalent Vent Length 3" (each side)	120'	120'

SURFACE	DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE
Front	2"	24"
Rear	0"	0"
Left Side	1.5"	6"
Right Side	4"	6"
Top	2"	24"
Bottom	8"	24"



VENTING	MAXIMUM EQUIVALENT LENGTH
<b>Schedule 40 PVC, CPVC, or PPs</b>	
2"	65' *
3"	120'
2" or 3" 90° Long Sweep Vent Elbow	Allow 5 equivalent feet
2" or 3" 90° Short Sweep Vent Elbow	Allow 8 equivalent feet
2" or 3" 45° Vent Elbow	Allow 3 equivalent feet
<b>PPs</b>	
PPs 87-90° Elbow	Allow 8 equivalent feet
<b>Flex PPs</b>	
2" PPs Flex	Not Allowed
3" PPs Flex	35' Actual (Equivalent = Actual x 1.4)

\* Approximate input derate of 5-16% at 2" maximum vent length.



Choosing this product instead of a minimum efficiency alternative offsets CO<sub>2</sub> emissions equivalent to planting this number of trees over the product's lifetime. The CO<sub>2</sub> Impact Score is internally calculated on a proprietary point system based on a typical product lifetime and does not denote a third party certification/seal. See website for further information.

# IBC®

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