

Unique WIZELESS CASCADE Feature

The **Superflow™ SFC 160-1 / SFC199-1** now 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 **Superflow™** units to meet your domestic hot water and space heating needs with the added benefits of greater efficiency and redundancy. The **Superflow™** wireless cascade system is very easy to set up and flexible enough for your most demanding applications.

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- 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 DHW and/or space heating application.
- 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.*

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Easy Maintenance

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

5 Moving Parts

Fan, Bypass Valve, Pump, Gas Valve, and Damper

The SFC Superflow[™] 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. 10

SFC - COMBI

The Only Fully Condensing Combi Boiler On The Market

You expect your combi boiler to provide enough hot water for both your kitchen and bathroom, as well as enough heat to make your home cozy and warm. Our SFC Combi is designed to do just that. Whatever your exact heating and hot water requirements may be, our SFC Combi boiler is sure to be a perfect match for you.

SIMPLE

Mount > Connect > Plug In > Enjoy endless heat and hot water

- 2 independent copper waterways embedded in a cast aluminum block
- Universal parts for all models
- Intuitive touchscreen control display panel
- Easy-access component layout for servicing
- Built-in bypass valve on the SFC-199-1 to prevent temperature fluctuations
- Factory installed domestic water strainer
- 2" vent lengths up to 65' each side
- Extended pipe connection fittings
- Built-in primary /boiler pump
- Fuel conversion kits included
- Sleek wall mounted space-saving design

RELIABLE

- Proven patented single pass Labyrinth heat exchanger with dual fully integrated copper waterways
- A total of 5 moving parts (Fan, Pump, Bypass Valve, Gas Valve, and Damper)
- 30-year track record, 2 million installations worldwide
- Innovative state-of-the-art electronic controller
- Built-in bypass valve to prevent temperature fluctuations (SFC 199-1)
- Almost no DHW flow reduction in hard water conditions
- Compatible with standard Propylene Glycol
- Will accept a 0-10 VDC signal from external control system
- No need for a 3-way valve or secondary DHW plate heat exchanger

EFFICIENT

- Up to 95% AFUE with full ASME-rated heat exchanger
- Wireless cascade up to 8 units. Multiple domestic and space heating cascade configurations available.
- Advanced modulating temperature control
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Qualifies for high efficiency energy rebates. Check your local utility for rebate opportunities.
- Packaged with a high efficiency variable speed ECM pump
- Up to 5.0 GPM continuous at a 70°F rise
- Ultra low NOx. Low greenhouse gases.



BOTTOM (SFC 160-1 & 199-1)

Touch Panel Control Indicators

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The SFC 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.

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TOUCH PANEL	FUNCTION	тои	H PANEL		FUNC	TION		
1. Numerical Display	Main display	6. R	adiator		Space	e heati	ng indicator	
2. Plus & Minus	Temperature adjustment	7. W	/rench		Servi	ce / Re	eset	
3. Flame	Burner ON indicator	8. R	eturn Arrow		Enter	/ Sav	e	
4. Dot	Power ON indicator	9. N	umerical Dis	play	Servi	ce disp	olay	
5. Faucet	DHW indicator							-

ALL THE HEAT AND HOT WATER YOU WILL EVER NEED



Our SFC 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.



SFC - COMBI Technical Information







PIPING CONNECTIONS	DIMENSIONS
A Exhuast Outlet	2" Schedule 40 PVC
B Combustion Air Inlet	2" Schedule 40 PVC
C Cold Domestic Water Connection	3/4" Male NPT
D Hot Domestic Water Connection	3/4" Male NPT
E Heating Water Inlet (Return)	1" Male NPT
F Heating Water Outlet (Supply)	1" Male NPT
G Gas Inlet	3/4" Male NPT
H Condensate Outlet	3/4" Hose
I Control Wiring Passage	7/16" Rubber Plug

MAXIMUM EQUIVALENT LENGTH			
(each side)			
65'			
120'			
Allow 5 equivalent feet			
Allow 8 equivalent feet			
Allow 3 equivalent feet			
Allow 8 equivalent feet			
35' Actual (Equivalent = Actual x 1.4)			

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″
Тор	2″	24"
Bottom	8"	24"



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CO2 IMPACT SCORE

Choosing this product instead of a minimum efficiency alternative offsets CO, emissions equivalent to planting this number of trees over the product's lifetime. The CO₃ 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.



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