



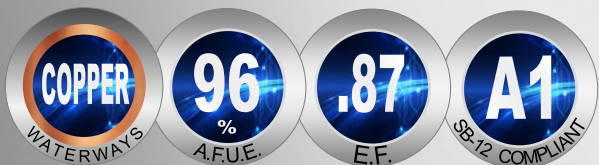
SFC SUPERFLOW SFC 99



DU FIR ELED

APPLIANCE

High Efficiency Condensing Boiler and Water Heater



IBC[®]

INNOVATIVE Labyrinth Heat Exchanger Design

A dual fired appliance the SFC 99 provides not only high-efficiency space heating, but unrivalled domestic hot water efficiency too. We call this 'Double HE'. The secret lies in our patented **two-in-one** heat exchanger that ensures optimal heat transfer and minimal heat loss.

Flue gases are condensed with both space heating and domestic hot water production ensuring heat extraction to the fullest extent possible.

Our SFC 99 assures you unrivaled high efficiency and economical operation year in, year out.



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



4 Moving Parts

Fan, Pump, Gas Valve & 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 servicing simple and increased reliability.



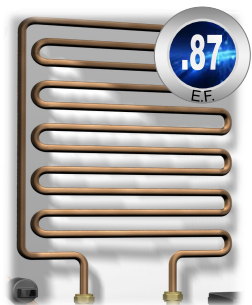
DOUBLE HIGH-EFFICIENCY

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. The SFC 99 Dual Fired Appliance is designed to do just that. Certified as a high-efficiency condensing boiler and tested as a high-efficiency tankless water heater, whatever your exact heating and hot water requirements may be, the SFC 99 is sure to be a perfect match for you.



AHRI certified as a high-efficiency condensing boiler

+



Third party tested as a high-efficiency tankless water heater

SIMPLE

Mount > Connect > Plug-in > Enjoy endless heat & hot water

- 2 independent copper waterways embedded in a cast aluminum block
- A total of 4 moving parts - Unparalleled in the industry
- New illuminated touchscreen control display panel
- Contractor friendly, reduced internal parts, easy to install, maintain and service

RELIABLE

- 30-year track record, 2 million installations worldwide
- Innovative state of the art electronic control
- Compatible with standard Propylene Glycol
- Will accept a 0-10 VDC signal
- No need for a 3-way valve or secondary DHW plate H.X.

EFFICIENT

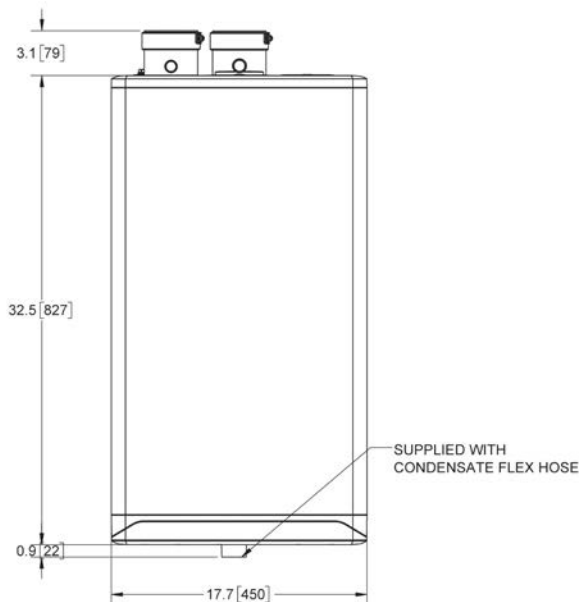
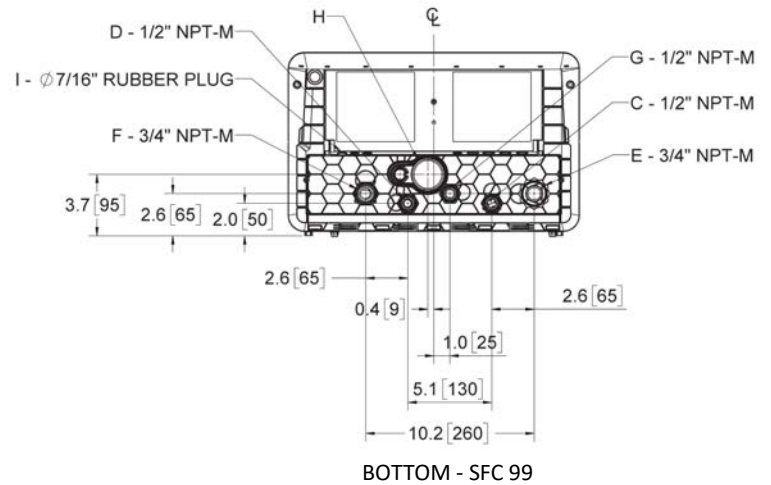
- AHRI approved and certified as a high-efficiency condensing boiler
- Third party tested as high-efficiency tankless water heater
- 96% AFUE + .871 EF with full ASME-rated heat exchanger
- Packaged with a high-efficiency variable speed pump (ECM)
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Advanced modulating temperature control



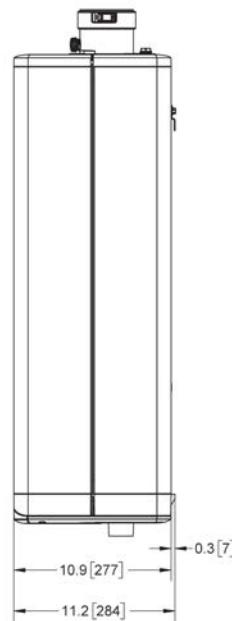
SFC 99

Dimensions

DESCRIPTION	SFC 99
A Exhaust outlet	3" Schedule 40
B Combustion air	3" Schedule 40
C Cold dom. water connection	1/2" Male NPT
D Hot dom. water connection	1/2" Male NPT
E Heating water inlet (return)	3/4" Male NPT
F Heating water outlet (supply)	3/4" Male NPT
G Gas inlet	1/2" Male NPT
H Condensate outlet	3/4" Hose
I Control Wiring Passage	7/16" Rubber Plug



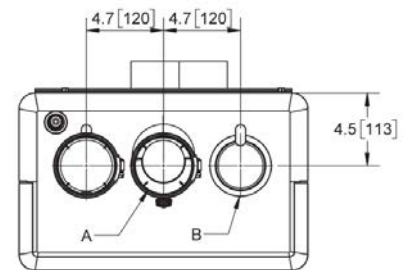
FRONT



SIDE



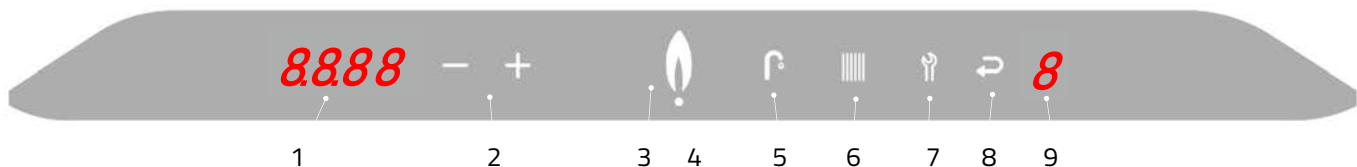
WALL BRACKET



TOP

Touch Panel Control Indicators

The SFC 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. Tap / Faucet	DHW indicator		

**ALL THE HOT WATER
AND HEATING
YOU'LL EVER NEED**



SFC - 99

Technical Information



SPECIFICATIONS	SFC 99
CSA Input (Natural Gas or Propane) – MBH	15.5 - 99
CSA Input (Natural Gas or Propane) – KW	4.54 - 29.0
CSA Output – MBH	14.8 - 88.9
CSA Output – KW	4.34 - 26.0
DHW – CSA Input (Natural Gas or Propane) – MBH	15.5 - 99
DHW – CSA Input (Natural Gas or Propane) – KW	4.54 - 29.0
A.F.U.E	96%
E.F.	.871*
Min gas pressure (Nat. Gas or Propane) – inch w.c.	4
Max Gas Pressure (Nat. Gas or Propane) – inch w.c.	14
Power (120Vac/60Hz) - Watts @ full fire with internal pump	120
Weight (empty) – lbs/Kg	85 / 39
Pressure vessel water content – USG/Liters	0.5/1.9
Max boiler flow rate - USgpm	10
Min boiler flow rate - USgpm	2
Max operating pressure – Space Heating Coil - psig	43.5
Max operating pressure – Domestic Hot Water Coil - psig	150
Min water pressure - psig	8
Approved installation altitude - ASL	10,000 ft
Ambient temperature – Low (°F/°C)	32/0
Ambient temperature – High (°F/°C)	122/50
Max relative humidity (non-condensing)	90%
Min water temperature - Space Heating (°F/°C)	50/10
Max water temperature – Space Heating (°F/°C)	194/90
Min water temperature – Domestic Hot Water (°F/°C)	104/40
Max water temperature – Domestic Hot Water (°F/°C)	149/65
Min flow rate to activate DHW heating - USgpm	0.5
Max flow rate DHW heating - USgpm	4.0
Max equivalent vent length 2" (each side)	35'
Max equivalent vent length 3" (each side)	120'
Domestic hot water delivery: @70°F/ 39°C temp. rise	2.4 GPM

* Note: Third party tested. The SFC is certified by AHRI and Energy Star as a high-efficiency condensing boiler.

SURFACE	DISTANCE FROM COMBUSTIBLE	RECOMMENDED DISTANCE FOR INSTALLATION AND
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
Schedule 40 PVC, CPVC or PPs	
2"	35'
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
PPs	
PPs 87-90' Elbow	Allow 8 equivalent feet
Flex PPS	
3" PPs Flex	(Max. 35) actual feet times 1.4



We are committed to delivering a *GREATER DEGREE OF GOOD* across the globe - through our intelligent products, responsible processes and inspired people.



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