

This commercial heater is the smallest of our 12 element line. At 164K BTUs per hour it has a wide range of uses and configuration possibilities. The three phase 480 option is a highly efficient choice for this unit.

MODEL NAME

CF 48 KW

FEATURES	DATA
Phase of electricity required	Three
Full load AMP draw at available three phase Voltages	
N/A means this voltage is not available in this model	
Full load Amp draw at 575	N/A
Full load Amp draw at 480	57
Full load Amp draw at 380	72
Full load Amp draw at 240	115
Full load Amp Draw at 208	133
Y or Delta configuration for 480 volt units	Delta
In/out pipe size	3/4"
Heat Exchanger material	304 SS
Enclosure size W x H x D	14.75 x 30 x 9
Area needed to install and repair	30 x 39 x 40
Enclosure size including fittings	21.25 x 42 x 9
Enclosure rating	NEMA 3, NEMA 4 available
Mounted at customer site via	Brackets at top and bottom of box
Efficiency	98.90%
Operating pressure range	0-150 PSI
BTU output per hour	163,776
Temperature output maximum	200
Output temperature settings available	90,110,125,145,155,185,200
Output temperature adjustable	No, With the optional ETC you can adjust the temperature in recirculation systems
Temperature output minimum	90
Freeze protection	Optional
Minimum flow to engage	2 G.P.M. with optional flow switch, 0 without the switch
Number of over temp protections	Two
Individually fused elements	Yes
Maximum flow in G.P.M. at 60 PSI	32
Shipping weight in Lbs.	90
Shipping box size	44 x 15 1/8 x 20
Shipping mode	UPS
Warranty	2 years electrical parts 5 years on heat exchanger



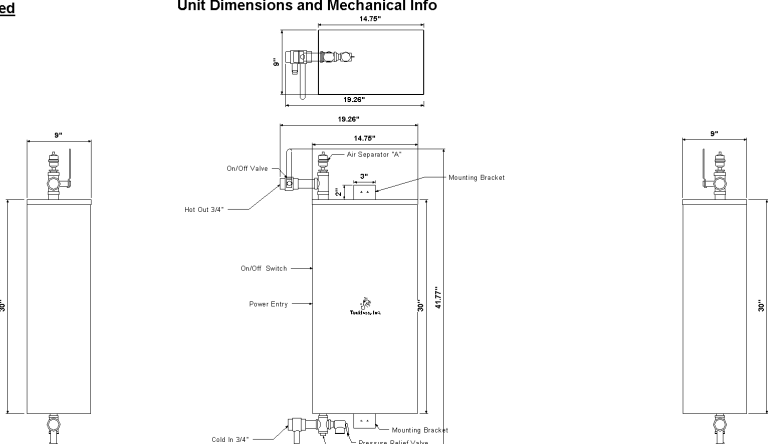
CUT SHEET

Units Covered

CF Series
48 KW
54 KW
60 KW
72 KW

Unit Weight - 78 lbs

Unit Dimensions and Mechanical Info



Dimensions: 14.75" (width), 30" (height), 9" (depth), 19.25" (top width), 14.75" (top depth), 4.77" (bottom depth).

Labels: On/Off Valve, Hot Out 3/4", On/Off Switch, Power Entry, Cold In 3/4", On/Off Valve, Air Separator "A", Mounting Bracket, Drain Plug, Pressure Relief Valve.

Install Instructions for 12 element CF Series heater

- Remove the front and top cover of the heater.
- Mount heater to the wall using the brackets provided or the holes in the back of the box.
- Insert the air separator, "A", which was also inside the heater box with the owner's manual.
- Connect hot and cold water and the pressure relief valve to the drain.
- The customer needs to reattach the valve assemblies to the unit.
- Connect electrical lines one thru three and ground to the heater. There is one entry point to the box on the bottom and one on each side. Verify the breaker and wire size on engineering chart based on size of heater and voltage.
- Run water thru the heater for 20 seconds.
- Check the delay switch setting and change if desired. The factory setting is 1 minute. Once the water pressure reading is above 3 PSI the delay timer starts and the heater comes on after the delay timeframe has elapsed.
- Turn on the breakers.
- Replace cover.
- Turn on the switch to the heater.
- Wait the 1 minute for the pressure switch to engage or whatever timeframe you used if you changed the delay timeframe.

Notes:

- Red lines represent customer supplied pipe or electrical
- Main Power can come in from the bottom or either side

Tankless, Inc.

**CF Series
12 Element Heater**

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SUGGESTED SPECIFICATION

Tankless Water Heater shall be a Tankless Inc. model _____, with _____ KW, and _____ vac to heat _____ GPM @ a temperature rise of _____ degrees F. Heating elements shall have an incoloy sheath. Heater shall have 3/4" or larger NPT fittings and have stainless steel heat exchangers and internal plumbing. Hot water storage tanks prohibited. Heating unit will be a Tankless, Inc. product or approved equal.