



# Cross-Flow Recuperators

Model CFR048

Version 1

	PARAMETER	SPECIFICATION*
Recuperator	Maximum Input	5.0 MM Btu/hr (1465 kW)
	Maximum Exhaust temperature with no combustion air	1800°F (1000°C)
	Maximum Exhaust temperature with 1,500 scfh combustion air	2100°F (1150°C)
	Air pressure drop at maximum input	6" w.c. (15 mbar)
	Exhaust pressure drop at maximum input	0.7" w.c. (1.7 mbar)
	Weight of recuperator	600 lbs. (270 kg)
Eductor	Suction at maximum input	0.8" w.c. (2 mbar)
	Entrainment air volume at maximum input	40,000 scfh (1125 Nm <sup>3</sup> /hr)
	Entrainment air pressure at eductor inlet at maximum input	20" w.c. (50 mbar)
	Weight of eductor	243 lb. (110 kg)

\* See Design Guide 530 for application specific operational limitations.

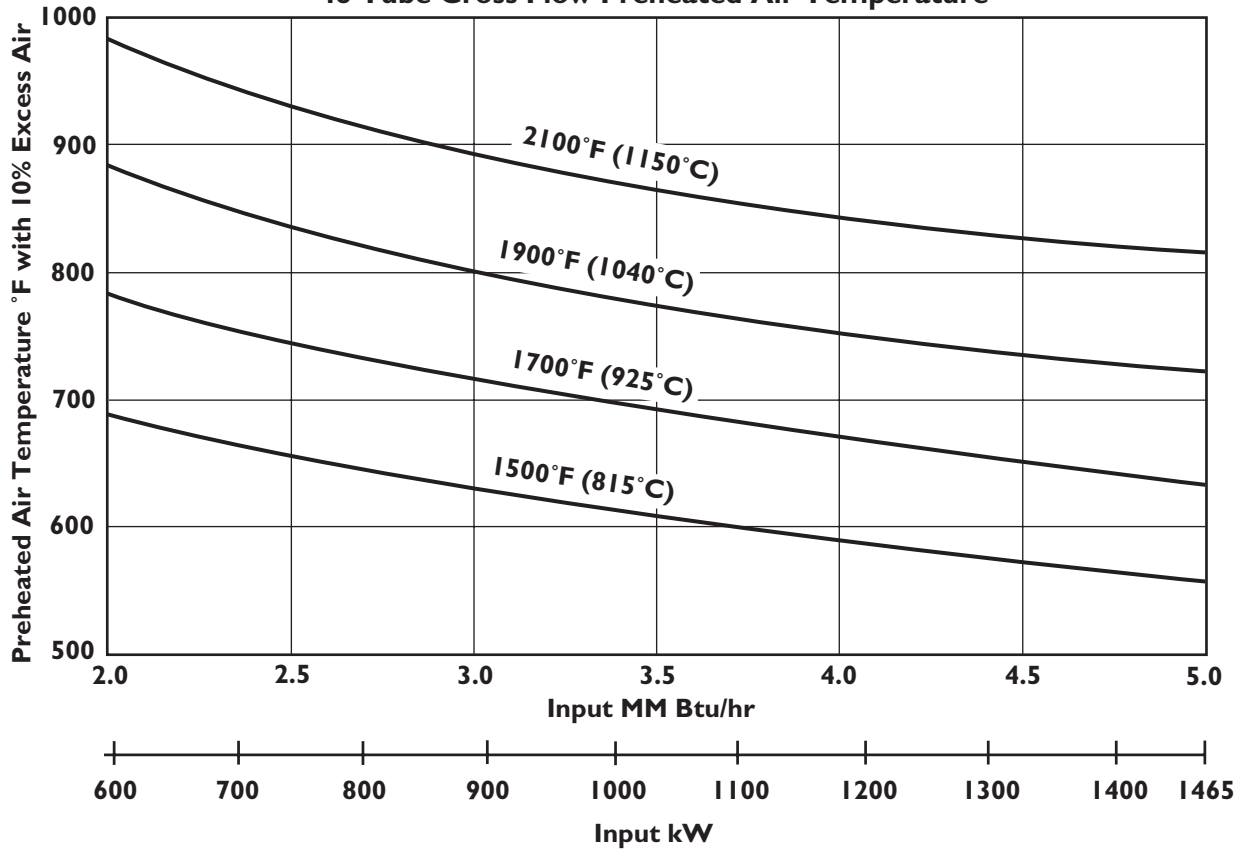
- All inputs based upon gross calorific values.
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.

**Percent Fuel Savings at Various Furnace Exhaust  
Temperatures & Combustion Air Preheats (10% Excess Air)**

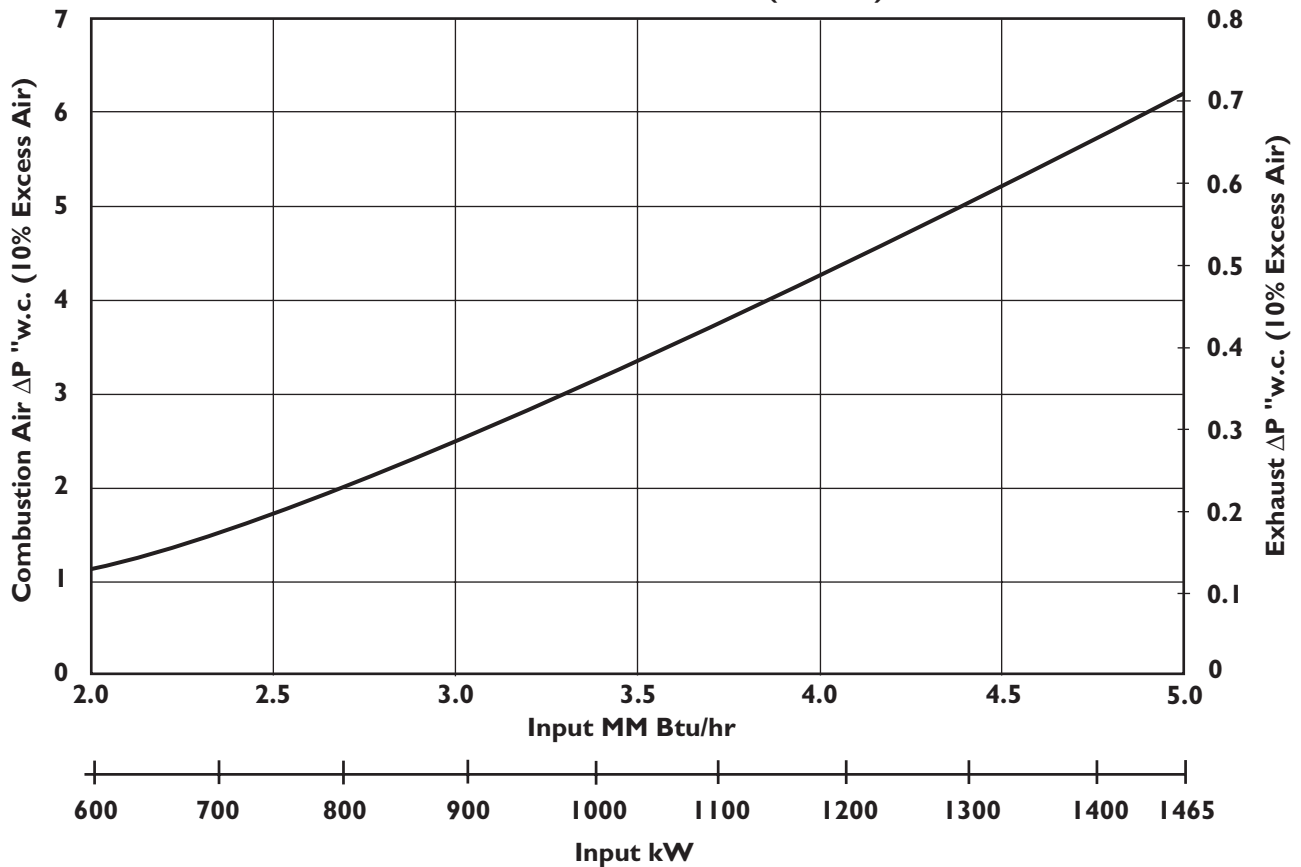
Furnace Exhaust Temp. °F (°C)	Preheated Air Temp. °F (°C)				
	700 (370)	800 (425)	900 (480)	1000 (540)	1100 (590)
2400 (1315)	29%	32%	35%	38%	41%
2200 (1200)	26%	29%	31%	34%	36%
2000 (1090)	23%	26%	28%	31%	33%
1800 (980)	21%	23%	26%	28%	31%
1600 (870)	19%	22%	24%	26%	28%
1400 (760)	18%	20%	22%	24%	26%
1200 (650)	17%	19%	21%	23%	25%
1000 (540)	15%	18%	20%	---	---

## Specifications

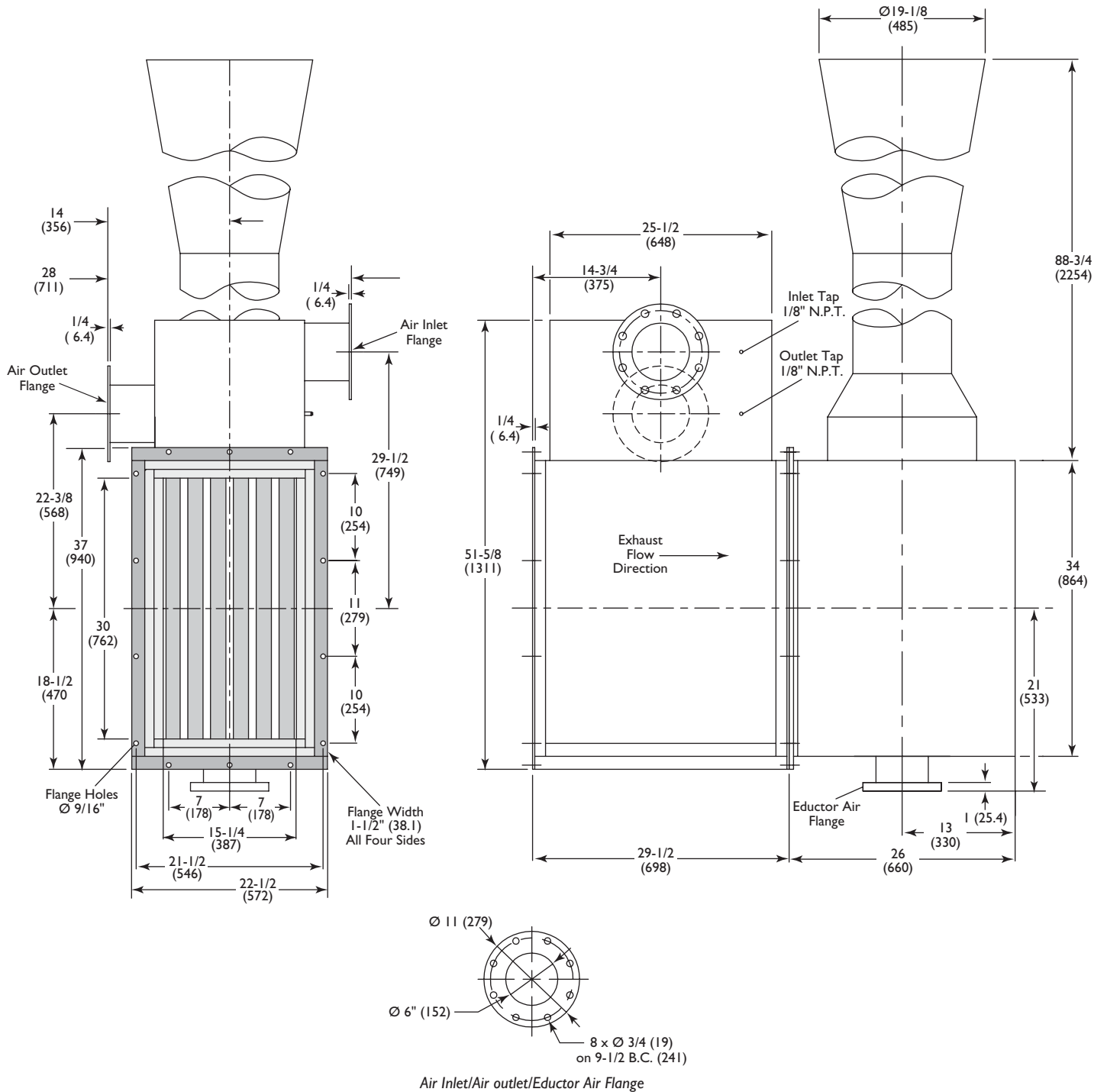
### 48 Tube Cross Flow Preheated Air Temperature



### ΔP 48 Tube Cross Flow with 1900°F (1040°C) Exhaust



# Dimensions in Inches (mm)





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