

EMT Datasheet

EMT-4380-1-4-FT



This Energy Machines™ model contains four oil-free centrifugal turbocompressors and one refrigerant circuit. The compressors are classified as non-positive displacement compressors.

This model is equipped with a flash tank, increasing its energy efficiency. The machine's evaporator and condenser are shell-and-tube heat exchangers. The evaporator operates with a flooded evaporation technique.

These components work together to create a powerful and efficient machine.

Performance

Heating		Cooling	
Heating power	1902 kW	Heating power	1964 kW
Cooling power	1392 kW	Cooling power	1552 kW
COP	3.73	COP	3.77

Design parameters

Heating		Cooling	
Heated fluid (in/out)	57°C / 63°C	Heated fluid (in/out)	37°C / 43°C
Chilled fluid (in/out)	12°C / 7°C	Chilled fluid (in/out)	12°C / 7°C
Chilled fluid: water, Heated fluid: water			

Pressure drop at rated flow

Heating		Cooling	
Heated fluid	37.8 kPa / 75.73 l/s	Heated fluid	42.7 kPa / 78.2 l/s
Chilled fluid	16.2 kPa / 66.51 l/s	Chilled fluid	20.1 kPa / 74.15 l/s

Rated flow

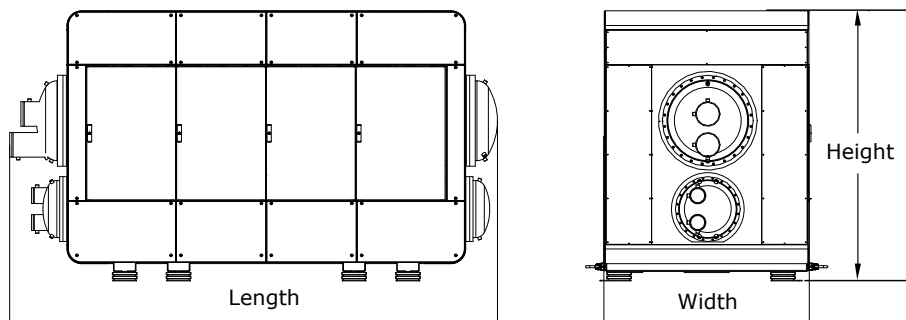
Heating		Cooling	
Heated fluid	75.73 l/s	Heated fluid	78.2 l/s
Chilled fluid	66.51 l/s	Chilled fluid	74.15 l/s

Refrigerant

Type	R1234ze
GWP value	1.37
Charge	N/A kg

Dimensions

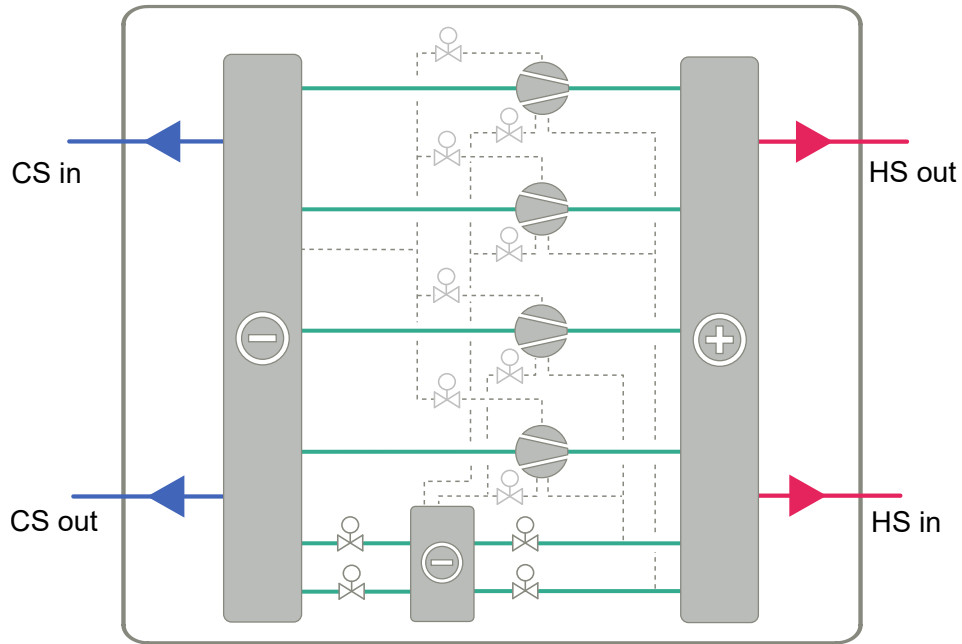
Length / Width / Height	N/A mm / N/A mm / N/A mm
Weight (dry/commissioned)	N/A kg / N/A kg



Electricity

Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	520 kW
Rated current	840 A
Fuse	1000 A

Flow diagram



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