

EMT heat pump

Datasheet

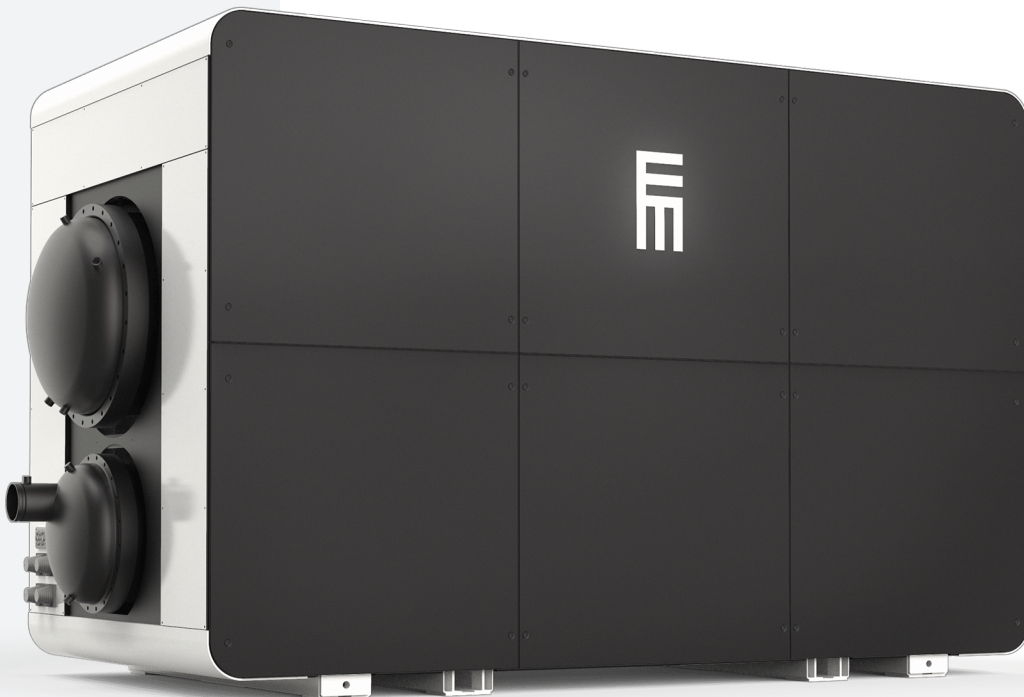
EMT-2380-1-4-FT (R1234ze)

EMT-2380-1-7-FT (R515B)

This Energy Machines™ model contains two oil-free centrifugal turbocompressors and a refrigerant circuit. The compressor is classified as a non-positive displacement compressor.

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

Winter (Heating mode)		Summer (Cooling mode)	
Heating power	951 kW	Heating power	982 kW
Cooling power	696 kW	Cooling power	776 kW
COP	3.73	COP	3.77

COP = Coefficient of performance

Design parameters

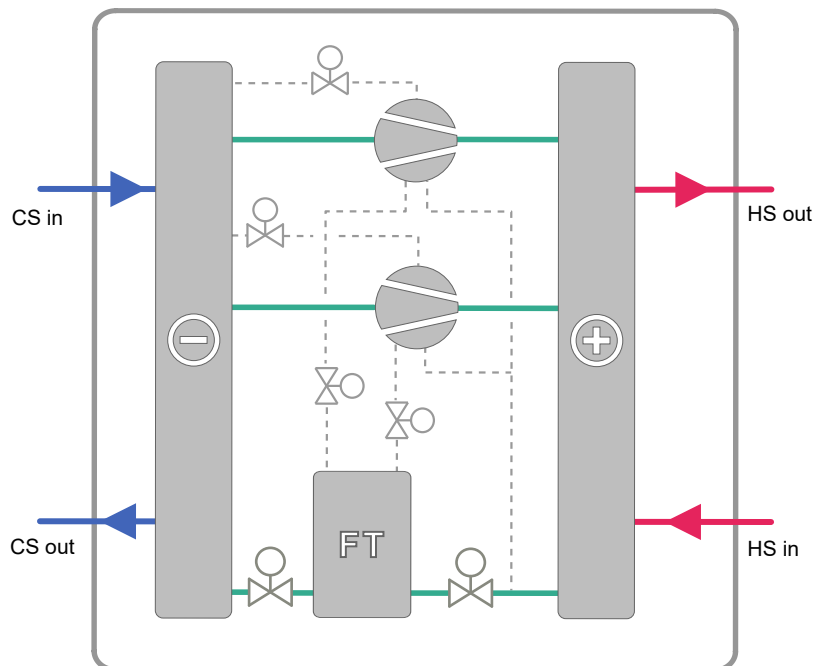
Winter (Heating mode)		Summer (Cooling mode)	
Heated fluid (in/out)	57°C / 63°C	Heated fluid (in/out)	37°C / 43°C
Chilled fluid (in/out)	12°C / 7°C	Chilled fluid (in/out)	12°C / 7°C

Chilled fluid= water, Heated fluid= water.

Pressure drop at rated flow

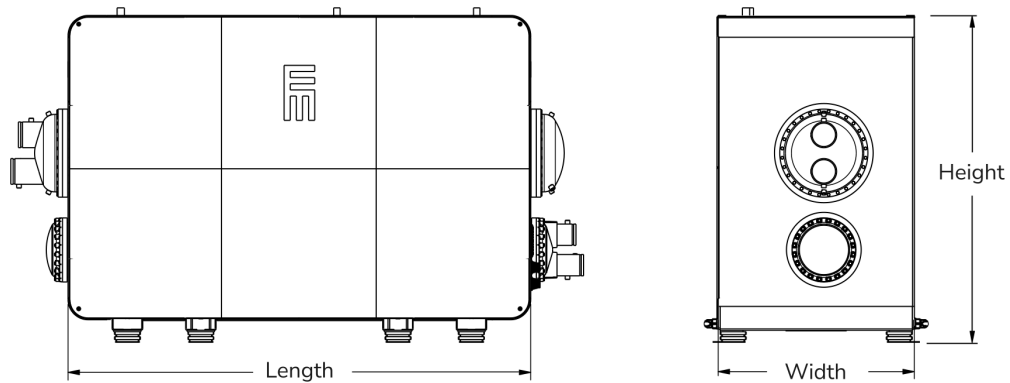
Winter (Heating mode)		Summer (Cooling mode)	
Heated fluid	34.1 kPa / 37.86 l/s	Heated fluid	38.4 kPa / 39.1 l/s
Chilled fluid	41.2 kPa / 33.25 l/s	Chilled fluid	49.9 kPa / 37.08 l/s

Flow diagram



Specifications

Refrigerant			Dimensions	
Type	R1234ze	R515B	Length / Width / Height	3040mm / 1810mm / 2410mm
GWP value	1.37	288	Weight (dry/comm.)	~ 4000 kg / 4500 kg
Charge	N/A kg			



Electricity	
Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	260 kW
Rated current	420 A
Fuse	500 A

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