

EMT Datasheet

EMT-1285-1-4-ECO



This Energy Machines™ EMT model contains a refrigerant circuit with an oil-free centrifugal turbocompressor. It is classified as a non-positive displacement compressor.

This model is equipped with an economizer heat exchanger, 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	347 kW	Heating power	354 kW
Cooling power	253 kW	Cooling power	275 kW
COP	3.68	COP	3.44

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	19.7 kPa / 13.82 l/s	Heated fluid	20.7 kPa / 14.09 l/s
Chilled fluid	30.1 kPa / 12.09 l/s	Chilled fluid	35.5 kPa / 13.14 l/s

Rated flow

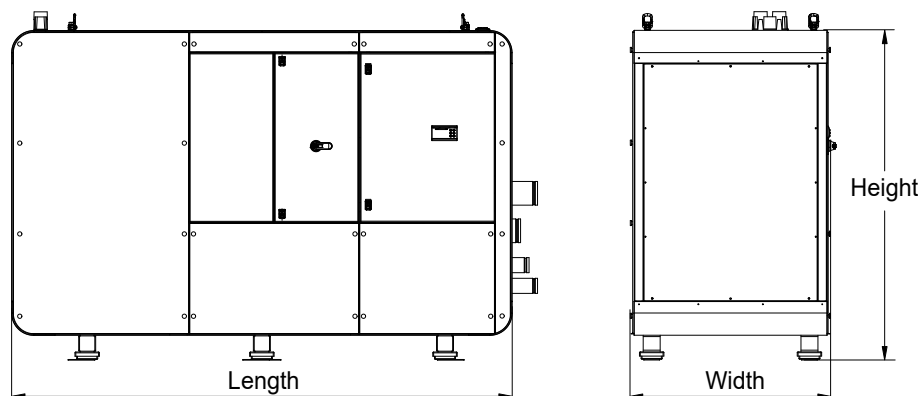
Heating		Cooling	
Heated fluid	13.82 l/s	Heated fluid	14.09 l/s
Chilled fluid	12.09 l/s	Chilled fluid	13.14 l/s

Refrigerant

Type	R1234ze
GWP value	1.37
Charge	N/A kg

Dimensions

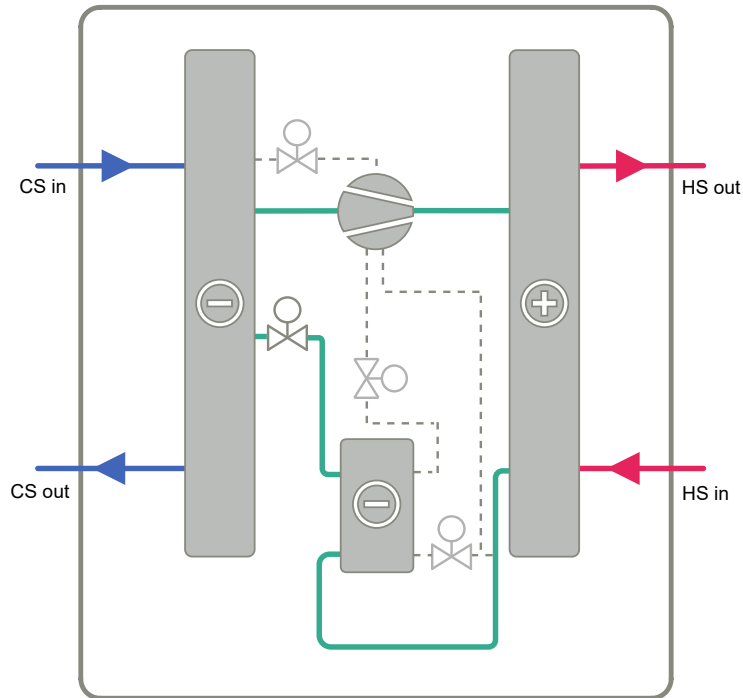
Length / Width / Height	2950 mm / 1210 mm / 1945 mm
Weight (dry/commissioned)	2000 kg / 2400 kg



Electricity

Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	100 kW
Rated current	150 A
Fuse	200 A

Flow diagram



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