

EMT Datasheet

EMT-2230-1-4-ECO



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 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	530 kW	Heating power	581 kW
Cooling power	408 kW	Cooling power	466 kW
COP	4.33	COP	4.04

Design parameters

Heating		Cooling	
Heated fluid (in/out)	47°C / 53°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	31.2 kPa / 21.1 l/s	Heated fluid	38.2 kPa / 23.15 l/s
Chilled fluid	38.8 kPa / 19.49 l/s	Chilled fluid	49 kPa / 22.26 l/s

Rated flow

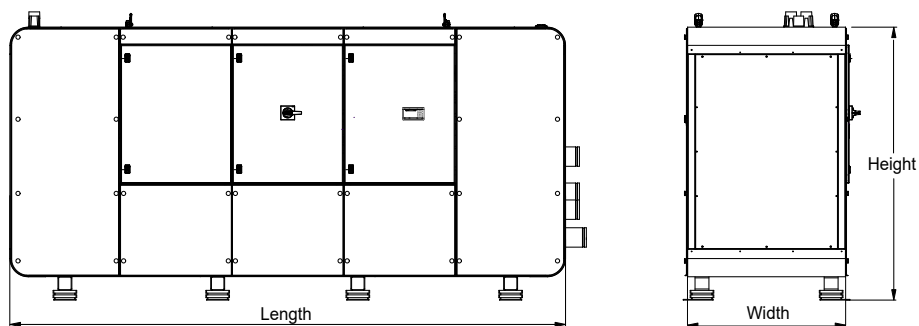
Heating		Cooling	
Heated fluid	21.1 l/s	Heated fluid	23.15 l/s
Chilled fluid	19.49 l/s	Chilled fluid	22.26 l/s

Refrigerant

Type	R1234ze
GWP value	1.37
Charge	N/A kg

Dimensions

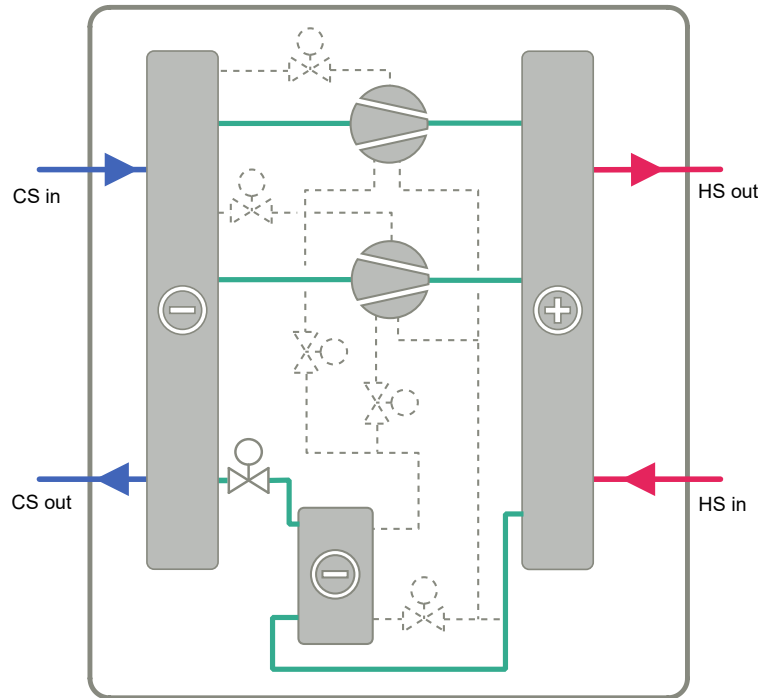
Length / Width / Height	4000 mm / 1260 mm / 1965 mm
Weight (dry/commissioned)	N/A kg / N/A kg



Electricity

Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	132 kW
Rated current	212 A
Fuse	250 A

Flow diagram



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