

EMT Datasheet

EMT-2230-2-4-ECO



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

This model is equipped with two economizer heat exchangers, 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	42.0 kPa / 21.1 l/s	Heated fluid	50.9 kPa / 23.15 l/s
Chilled fluid	38.2 kPa / 19.49 l/s	Chilled fluid	48.3 kPa / 22.26 l/s

Rated flow

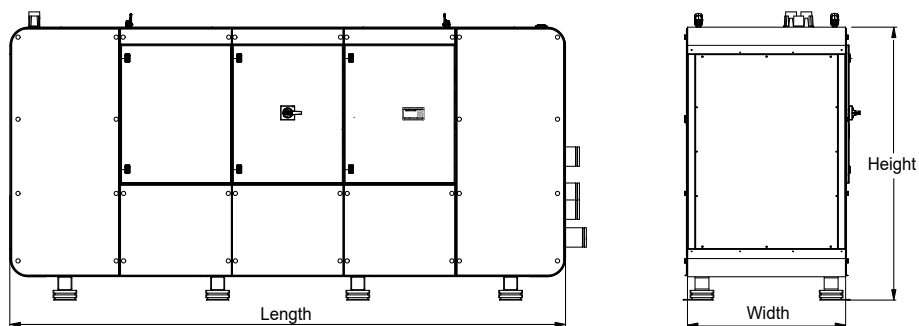
Heating		Cooling	
Heated fluid	21.1 l/s	Heated fluid	23.15 l/s
Chilled fluid	19.49 l/s	Chilled fluid	22.26 l/s

Refrigerant

Type	R1234ze
GWP value	7
Charge	n/a kg

Dimensions

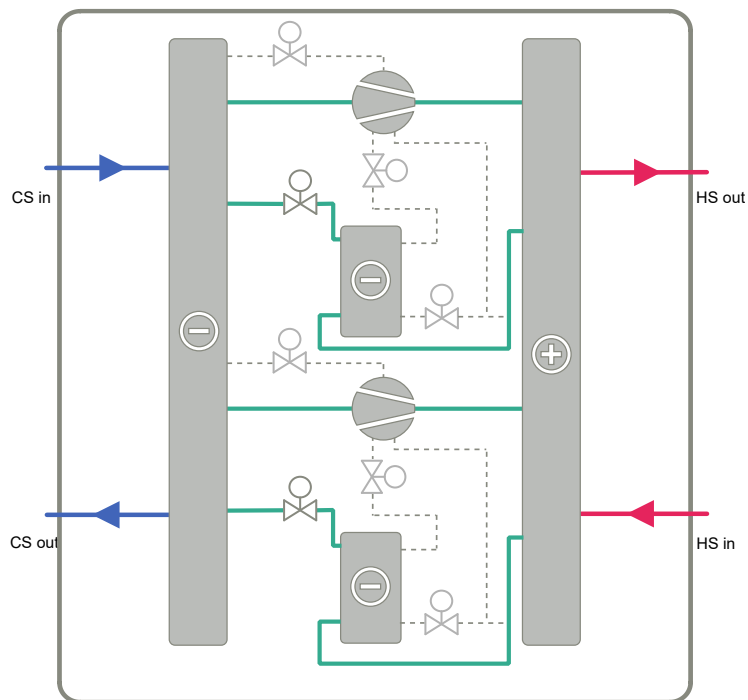
Length / Width / Height	4000 mm / 1165 mm / 1965 mm
Weight (dry/commissioned)	3400 kg / 3700 kg



Electricity

Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	132 kW
Rated current	210 A
Fuse	250 A

Flow diagram



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