

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

Неа	iting	Coo	ling
Heating power	347 kW	Heating power	354 kW
Cooling power	253 kW	Cooling power	275 kW
СОР	3.68	СОР	3.44

Design parameters

Не	ating	Coo	ling
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

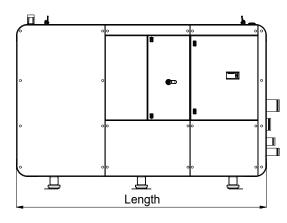
Heating		Cooling	
Heated fluid	13.82 l/s	Heated fluid	14.09 l/s
Chilled fluid	12.09 l/s	Chilled fluid	13.14 l/s

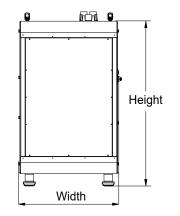
Refrigerant

Туре	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



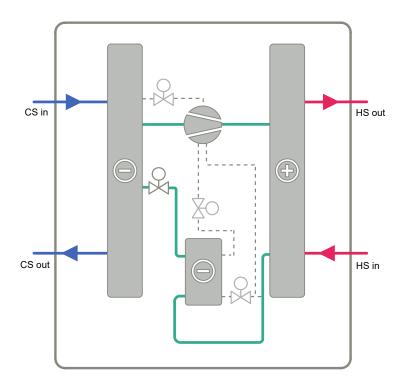




Electricity

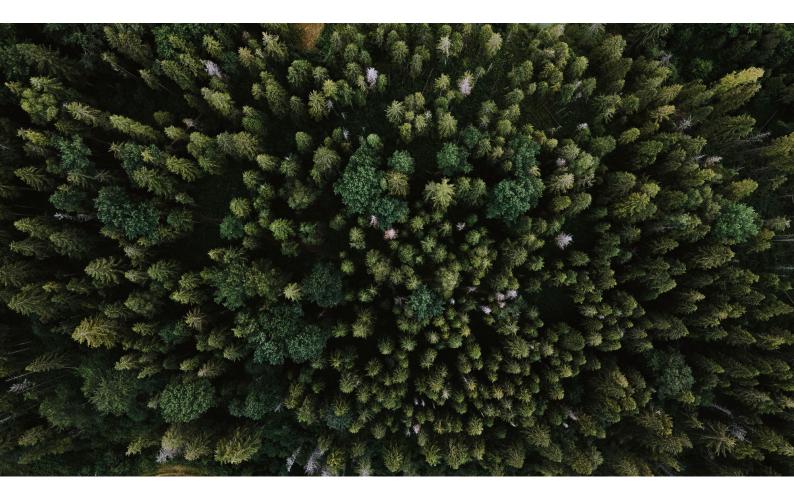
Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	100 kW
Rated current	150 A
Fuse	200 A

Flow diagram



Energy Machines has a policy of continuous product and data improvement and reserves the right to change design and specifications without notice. While Energy Machines strives for accuracy, we do not guarantee the completeness or correctness of the information.







Energy Machines ApS Denmark Nicolai Eigtveds Gade 26, 1402 Copenhagen | Niels Jernes Vej 14, 9220 Aalborg Ø Energy Machines Oy Finland Emäsalontie 271, 06950 Emäsalo Energy Machines Inc. USA 110 East 25th Street, New York, NY 10010 Energy Machines AB Sweden Norra Skeppsbron 7A, 803 10 Gävle | Regnbågsgatan 3, 417 55 Gothenburg Mariehällsvägen 37 F, 168 65 Bromma | Hyllie Boulevard 34, 21532 Malmö

hello@energymachines.com | energymachines.com