

EMB Datasheet

EMB-2480-1-4 (R1234ze)

EMB-2480-1-7 (R515B)



The EMB Energy Machines™ models are designed for space heating, production of warm tap water, and comfort cooling. They contain either one or two refrigerant circuits with a twin compressor in each.

The EMB models operate with either one or two heat source circuits containing brine. These circuits have an integrated circulation pump and switch between the production of hot tap water and the production of heat.

Performance

Heating		Cooling	
Heating power	175 kW	Heating power	272 kW
Cooling power	114 kW	Cooling power	220 kW
Electricity compressors total	61 kW	Electricity compressors total	52.3 kW
COP	2.87	COP	4.21

Design parameters

Heating		Cooling	
Heated fluid (in/out)	37 °C / 43 °C	Heated fluid (in/out)	47 °C / 53 °C
Chilled fluid (in/out)	1 °C / -3 °C	Chilled fluid (in/out)	15 °C / 10 °C
Chilled fluid = water, Heated fluid = water			

Pressure drop at rated flow

Heating		Cooling	
Heated fluid	5 kPa / 7.3 l/s	Heated fluid	12 kPa / 10.9 l/s
Chilled fluid	12 kPa / 5.8 l/s	Chilled fluid	25 kPa / 10.8 l/s

Available pressure at rated flow

Heating		Cooling	
Heated fluid	106 kPa / 7.3 l/s	Heated fluid	62 kPa / 10.9 l/s
Chilled fluid	110 kPa / 5.8 l/s	Chilled fluid	56 kPa / 10.8 l/s

Refrigerant

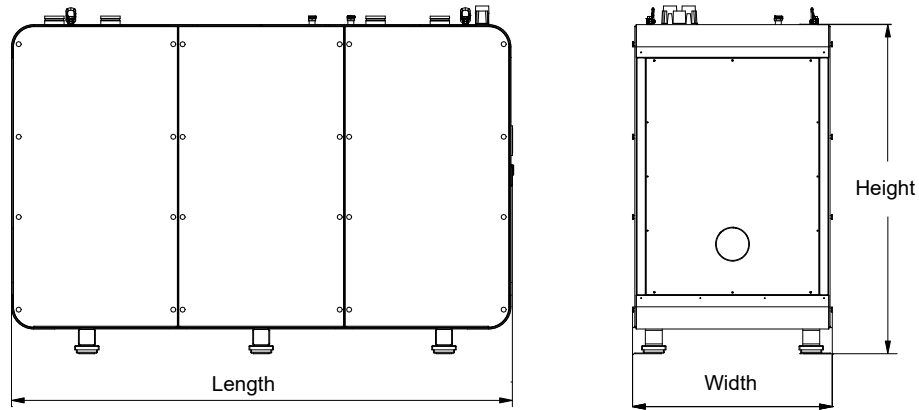
Options	R1234ze	R515B
GWP value	1.37	288
Charge	15 kg	

Electricity

Rated power supply	400 VAC / 50 Hz / 3-phase
Rated power input	95.7 kW
Rated current	164.8 A
Rated start current	279.1 A
Fuse	200 A

Dimensions

Length / Width / Height	1970 mm / 860 mm / 1895 mm
Weight (dry/commissioned)	1500 kg / 1750 kg



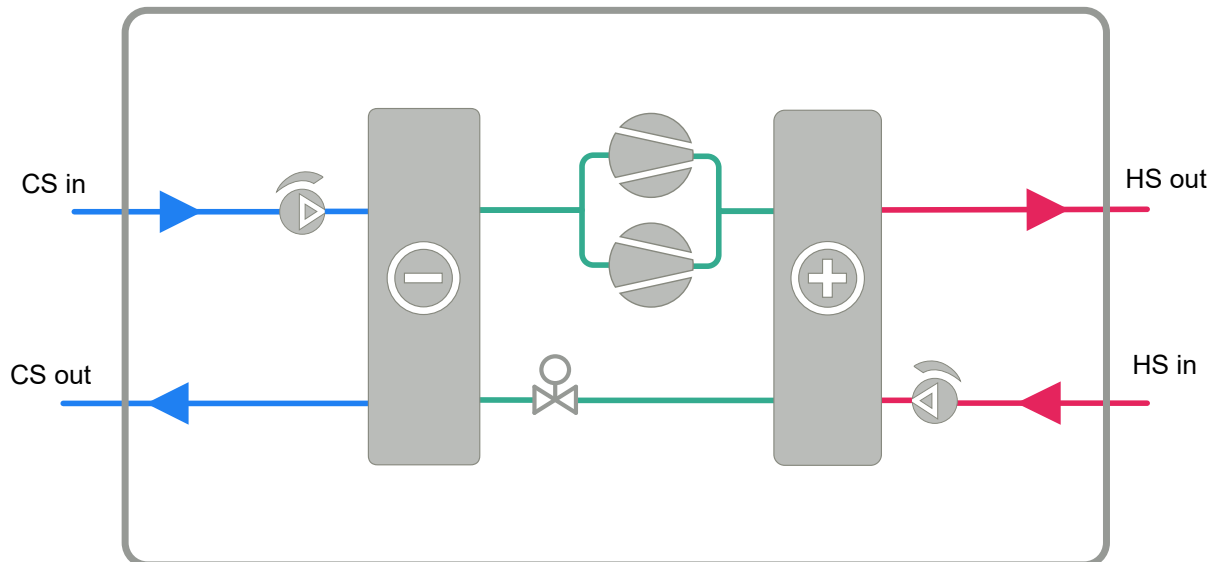
Ventilated enclosure

Minimum airflow: 55 l/s

Pressure difference shall be ≥ 20 Pa

Note: The ventilation fan is not provided with the machine. The pressure difference refers to the difference between the inside and outside of the ventilated enclosure.

Flow diagram



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

