

#### **EMB Datasheet**

EMB-4480-2-4 (R1234ze) EMB-4480-2-7 (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	350 kW	Heating power	544 kW
Cooling power	228 kW	Cooling power	440 kW
Electricity compressors total	122.1 kW	Electricity compressors total	104.6 kW
COP	2.87	СОР	4.21

## **Design parameters**

He	ating	Coo	ling
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

Hea	ting	Coo	ling
Heated fluid	5 kPa / 14.5 l/s	Heated fluid	12 kPa / 21.7 l/s
Chilled fluid	12 kPa / 11.5 l/s	Chilled fluid	24 kPa / 17.8 l/s

## Available pressure at rated flow

Heating		Cooling	
Heated fluid	106 kPa / 14.5 l/s	Heated fluid	62 kPa / 21.7 l/s
Chilled fluid	110 kPa / 11.5 l/s	Chilled fluid	74 kPa / 17.8 Vs

## Refrigerant

Options	R1234ze	R515B
GWP value	1.37	288
Charge	15+15 kg	

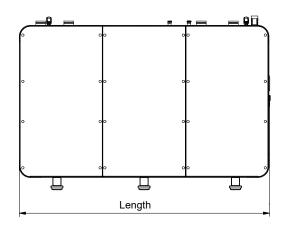
# Electricity

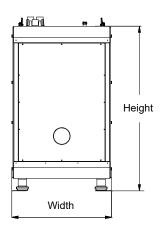
Rated power supply	400 VAC / 50 Hz / 3-phase
Rated power input	188.6 kW
Rated current	329.6 A
Rated start current	443.9 A
Fuse	400 A



#### **Dimensions**

Length / Width / Height	2950 mm / 1135 mm / 1895 mm
Weight (dry/commissioned)	2510 kg / 3000 kg



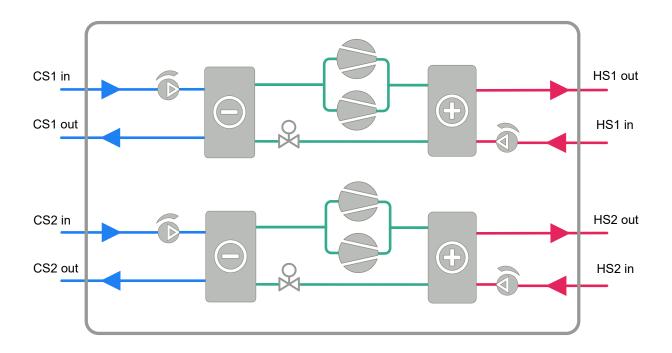


#### Ventilated enclosure

Minimum airflow: 55 l/s	Pressure difference shall be ≥ 20 Pa
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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.





