

## Heat Pump Datasheet

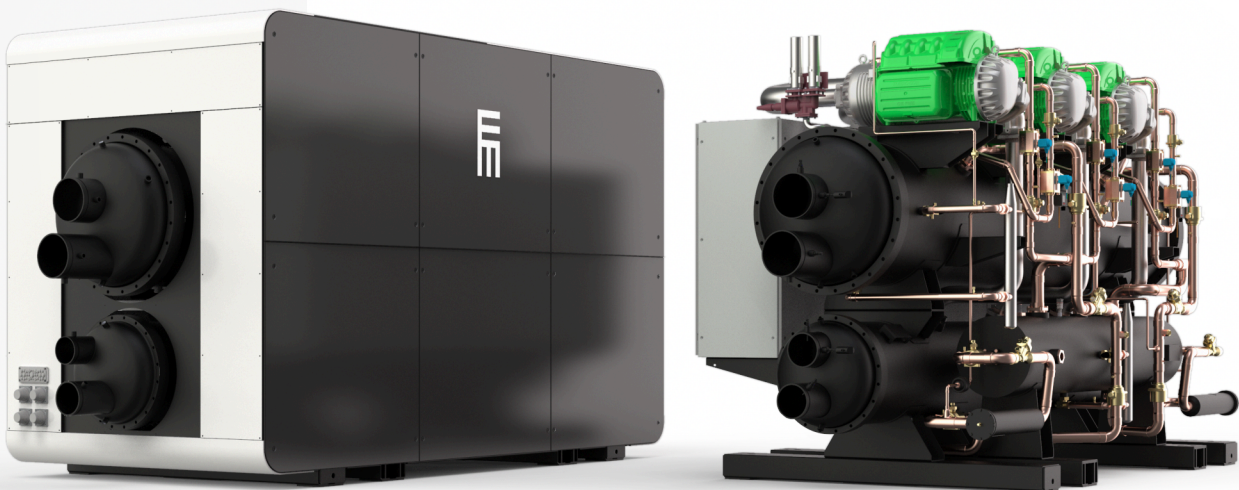
Models:	EMT-3285-1-4-FT	EMT-3285-1-7-FT
Refrigerant:	R1234ze	R515B
Certification:	CE	CE
Safety class:	A2L	A1

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

This model is equipped with a flash tank, 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.

The heat pump is available with or without the outer casing.



Available with and without casing

## Characteristics

Model characteristics	
Energy source	Ground, water, or waste heat
Compressor type	Turbo
Capacity control	Frequency controlled
Special features	Economizer, oil-free
Options	Available with or without outer casing

## Performance

Heating mode	
Heating capacity (kW)	1041
Cooling capacity (kW)	756
COP	3.68

Cooling mode	
Heating capacity (kW)	1065
Cooling capacity (kW)	826
COP	3.44

COP = Coefficient of performance

## Design temperatures

Heating mode	
Heated fluid (in/out)	57°C / 63°C
Chilled fluid (in/out)	12°C / 7°C

Cooling mode	
Heated fluid (in/out)	37°C / 43°C
Chilled fluid (in/out)	12°C / 7°C

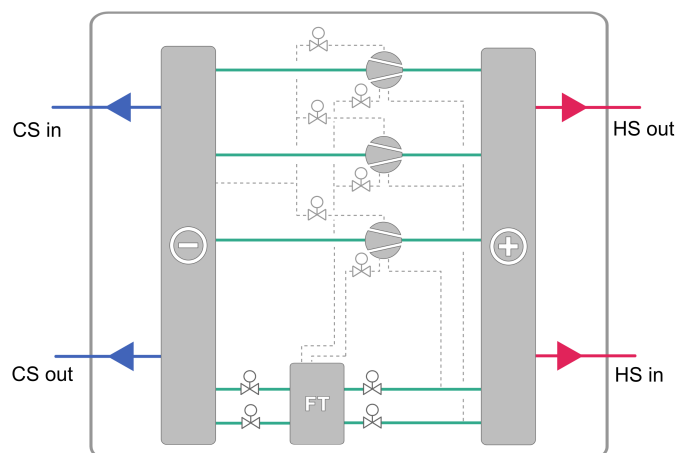
Chilled fluid = water, Heated fluid = water

## Flow and pressure drop

Heating mode		
	Heated fluid	Chilled fluid
Flow (l/s)	41.45	36.12
Pressure drop (kPa)	29.8	41.9

Cooling mode		
	Heated fluid	Chilled fluid
Flow (l/s)	42.4	39.46
Pressure drop (kPa)	33.1	49.5

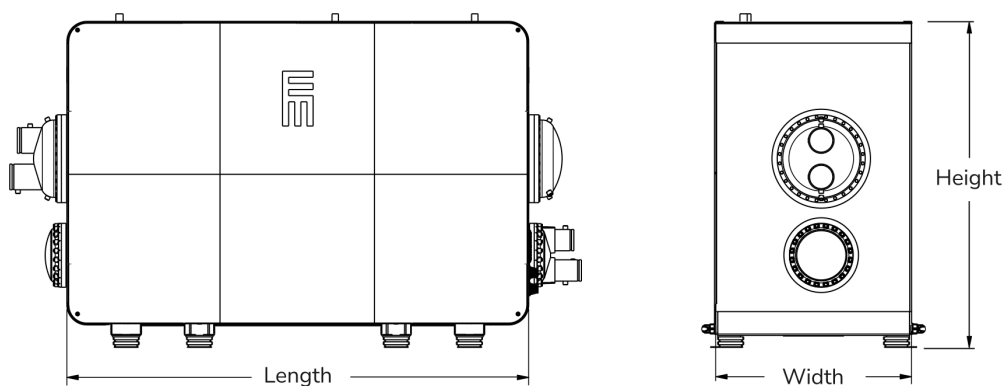
Chilled fluid = water, Heated fluid = water



## Specifications

Electricity	
Power supply voltage (VAC)	400
Power supply frequency (Hz)	50
Power supply phase ( $\phi$ )	3
Rated power input (kW)	300
Rated current (A)	480
Fuse (A)	500

Dimensions*	
Length (mm)	4350
Width (mm)	1830
Height (mm)	2406
Dry weight (kg)	5700
Commissioned weight (kg)	6300
*See dimensional drawings for clearance requirements	



Refrigerant		
Model	EMT-3285-1-4-FT	EMT-3285-1-7-FT
Type	R1234ze	R515B
GWP value	1.37	288
Charge (kg)		320

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, it does not guarantee the completeness or correctness of the information provided.



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