

## EMT heat pump

### Datasheet

EMT-2380-2-4-ECO (R1234ze)

EMT-2380-2-7-ECO (R515B)

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

Winter (Heating mode)		Summer (Cooling mode)	
Heating power	951 kW	Heating power	982 kW
Cooling power	696 kW	Cooling power	776 kW
COP	3.73	COP	3.77

COP = Coefficient of performance

## Design parameters

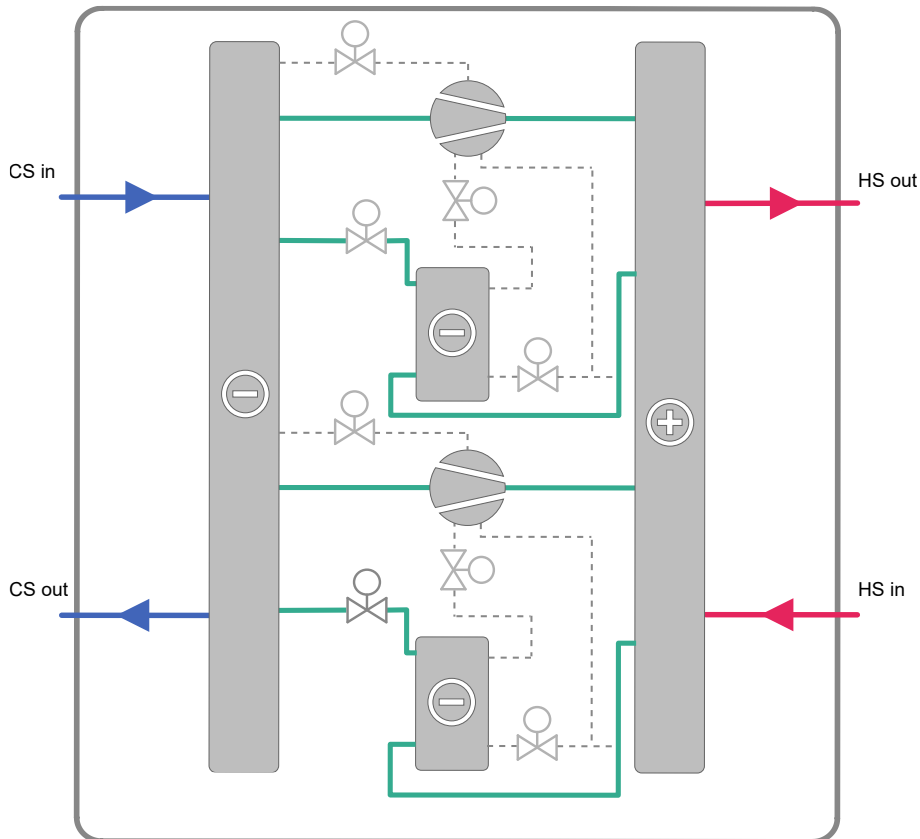
Winter (Heating mode)		Summer (Cooling mode)	
Heated fluid (in/out)	57°C / 63°C	Heated fluid (in/out)	37°C / 43°C
Chilled fluid (in/out)	12°C / 7°C	Chilled fluid (in/out)	12°C / 7°C

Chilled fluid= water, Heated fluid= water.

## Pressure drop at rated flow

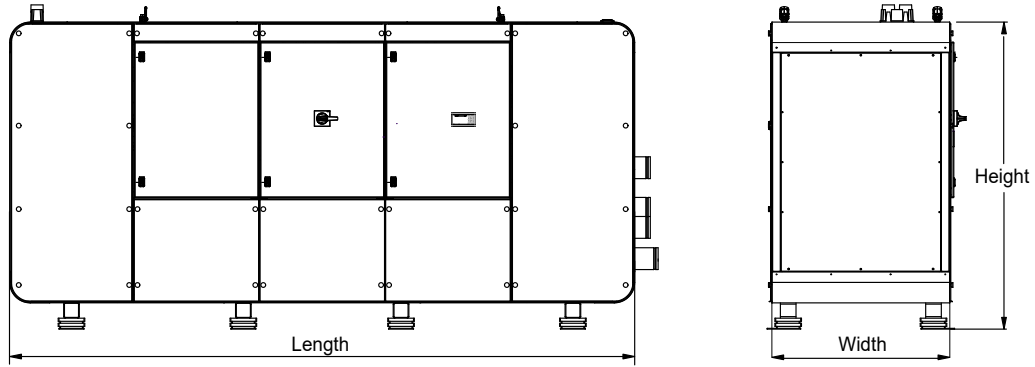
Winter (Heating mode)		Summer (Cooling mode)	
Heated fluid	44.4 kPa / 37.86 l/s	Heated fluid	48.1 kPa / 39.1 l/s
Chilled fluid	40.6 kPa / 33.25 l/s	Chilled fluid	49.2 kPa / 37.08 l/s

## Flow diagram



## Specifications

Refrigerant			Dimensions	
Type	R1234ze	R515B	Length / Width / Height	4000mm / 1260mm / 1965mm
GWP value	1.37	288	Weight (dry/comm.)	~ N/A kg / N/A kg
Charge	N/A kg			



Electricity	
Rated power supply	400 VAC / 50 Hz / 3 phase
Rated power input	160 kW
Rated current	420 A
Fuse	500 A

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