

**EV-SERIES**  
— power for revolution —

**MONZONE®**

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REFRIGERATION SOLUTIONS FOR ELECTRICAL SMALL  
LIGHT TRUCKS & VANS



# EV-Series

FOR SMALL AND MEDIUM VEHICLES

The EV-Series is the ideal electrical solution to deliver temperature-sensitive cargo in small and medium vehicles of up to 26 m<sup>3</sup>. With their superior flexibility, the units are perfectly suited to the rigorous demands of multi-drop distribution runs, even in extreme high and low ambient temperatures.

The faster temperature pull-down enables quicker recovery from door openings and better cargo protection. The user-friendly in-cab controller ensures effortless and error-free operation.

EV-Series models are ultra light and compact, making it possible to maximize your payload. With the introduction of new medium and large range models, there are four road-only models available to match your exact needs.



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## DESIGNED FOR HIGHER PERFORMANCE

- Quicker temperature pull-down
- Higher airflow
- Larger cooling capacity
- Light weight and compact design
- Reduced refrigerant charge
- Increased efficiency and sustainability
- Suitable for extreme ambient conditions
- 1-year warranty (unit and parts)



# Professional Solution

## EV-SERIES FOR SMALL TRUCKS: HIGH PERFORMANCE, LOW TOTAL COST OF OWNERSHIP.

Looking for top temperature control and reliable, powerful performance, even in demanding, multi-drop urban environments? The highly versatile EV-Series is **THE solution** you need when you want an efficient and compact electrical refrigeration unit. The EV-Series stays chilled **even high temperature**.

### The EV-Series range has the model to suit your needs:

- Roof mount and nose mount
- Cooling models



EV-200 & EV-300

## NEW

## EV-SERIES FOR LIGHT TRUCKS: THE BEST JUST GOT BIGGER.

The EV-Series range has been updated. It now includes optimal control solutions **for light trucks, up to an impressive 26 m<sup>3</sup>**. Naturally, our EV-580 and EV-580S models have everything you'd expect from Thermo King's EV-Series, except that they are bigger and more powerful.

### If you want a highly efficient and sustainable unit for both frozen and fresh applications, the new models of EV-Series range are the ideal solution for you.

- Split layout offering EV-580
- One piece layout offering EV-580S
- Cooling and heating models



EV-580 & EV580S

## PRODUCT FEATURES

### POWERFUL CAPACITY

- Powerful cooling
- Compact and streamline design
- UL harness against safety issue
- Proven reliability

### HIGH CAPACITY LIGHT TRUCKS

- 20% lower weight, 12% shorter length
- 28% higher capacity, 8.3% higher efficiency(EV-580S)
- Aluminium Frame & ABS cover to reduce weight
- Larger microchannel heat exchanger to improve condensing capacity and design redundancy

### ARCON ROBUST CONTROL ARCHITECTURE

- Integrated control core solution
- Vehicle components selections
- Powerful ECU for Truck with abundant resource
- Robust control logic

# Specifications

Specification	Unit	EV-200	EV-300
<b>REFRIGERATION CAPACITY AT DC POWER INPUT:</b>			
FRESH CAPACITY@30/0°C	W	2200	3000
FROZEN CAPACITY @30/-20°C	W	1250	1700
<b>REFRIGERATION CAPACITY AT 1PH STANDBY POWER INPUT:</b>			
FRESH CAPACITY@30/0°C	W	2200	3000
FROZEN CAPACITY @30/-20°C	W	1250	1700
<b>EVAPORATOR FAN PERFORMANCE</b>			
AIR FLOW@0 PA	m³/h	700	1500
<b>PERFORMANCE</b>			
FRESH EFFICIENCY			
HEATING(PTC OPTION)	W	1500	1500
MAX POWER CONSUMPTION	W	1480	2230
TEMP RANGE	°C	-10 ~ 55Cooling	
<b>POWER INPUT</b>			
DC POWER	V	210~450	
STANDBY POWER		1Ph-220V-50HZ	
CONTROL POWER	V	12	12
<b>WEIGHT</b>			
CONDENSOR	Kg	75	84
EVAPORATOR	Kg	9	15
<b>DIMENSION</b>			
CONDENSOR (W x D x H)	mm	820x1090x250	1206x550x250
EVAPORATOR (W x D x H)	mm	608x490x187	905x505x180
<b>REFRIGERATION CHARGE</b>			
R-404a	Kg	1.3	1.3

	EV-580	EV-580S
<b>REFRIGERATION CAPACITY AT DC POWER INPUT:</b>		
	4650	5650
	2650	2900
<b>REFRIGERATION CAPACITY AT 1PH STANDBY POWER INPUT:</b>		
	4650	4700
	2650	2900
<b>EVAPORATOR FAN PERFORMANCE</b>		
	1800	2000
<b>PERFORMANCE</b>		
	1.3	1.3
	2500	
	4500	5500
	-15 ~ 55Cooling / -25 ~ 55Heating	
<b>POWER INPUT</b>		
	300~750	
	3Ph-380V-50HZ* /1Ph-220V-50HZ	
	24	
<b>WEIGHT</b>		
	83	99
	16	
<b>DIMENSION</b>		
	1436x572x508	1436x572x508
	1080x592x238	1376x622x235
<b>REFRIGERATION CHARGE</b>		
	2.4	2.4

\*The capacity of 3ph standby is the same as DC power input.



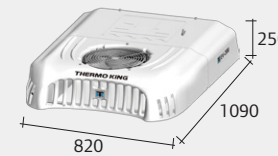
# Unit selection guide

MODEL	AMBIENT TEMPERATURE				
	30°C		40°C		-18°C
Set temp.	0/2°C	-20°C	0/2°C	-20°C	5°C
EV-200	12m <sup>3</sup>	6m <sup>3</sup>	9m <sup>3</sup>	4.5m <sup>3</sup>	-
EV-300	16m <sup>3</sup>	10m <sup>3</sup>	13m <sup>3</sup>	8m <sup>3</sup>	-
EV-580	26m <sup>3</sup>	18m <sup>3</sup>	26m <sup>3</sup>	16m <sup>3</sup>	26m <sup>3</sup>
EV-580S	26m <sup>3</sup>	23m <sup>3</sup>	26m <sup>3</sup>	18m <sup>3</sup>	26m <sup>3</sup>

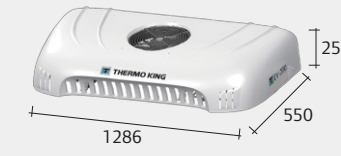
The table above is a guide to select the right unit in the new EV-Series to match your application. These figures are maximum vehicle volumes, calculated on road operation, at DC power and 30°C/40°C ambient temperature. Recommendations are based on precooled loads and a K value of 0,35 W/m2K is used for frozen goods (-20°C) and 0,5 W/m2K for fresh goods (0°C and +6°C) for a distribution cycle of 8 hours.

# Dimensions

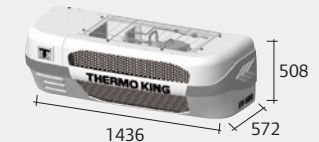
## CONDENSER UNITS



EV-200 Condenser(Roof)



EV-200/EV-300 Condenser(Roof/Nose)

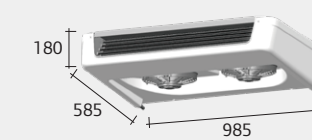


EV-580/ EV-580S Condenser

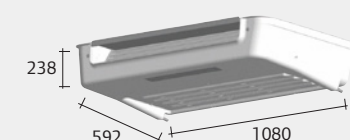
## EVAPORATORS



EV-200 Evaporator



EV-300 Evaporator



EV-580 Evaporator

## CONTROLLER



Arcon controller

## WARRANTY CONDITIONS

Thermo King warrants the new product delivered will be free of defects in material and workmanship for the period of time specified in the applicable warranties. Specific terms of the Thermo King warranty are available on request.



EV-200 & EV-300  
Up to 16 m<sup>3</sup>



EV-580 & EV-580S  
Up to 26 m<sup>3</sup>

**Thermo King customer service hotline**

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