# **EV-SERIES**

— power for revolution —



# **THERMO KING**

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# **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 m3. 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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# **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

## 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 m³. 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-200 & EV-300 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)
  Vehicle components selections
- Aluminium Frame & ABS cover to reduce weight
- Larger mirochannel heat exchanger to improve condensing capacity and design redundancy

## **ARCON ROBUST CONTROL ARCHITECTURE**

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

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# **Specifications**

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



	EV-580	EV-580S			
REFRIGERATION CAPACITY AT	DC POWER INPUT:				
	4650	5650			
	2650	2900			
REFRIGERATION CAPACITY AT	1PH STANDBY POWER INPUT:				
	4650	4700			
	2650	2900			
EVAPORATOR FAN PERFORMA	ANCE				
	1800	2000			
PERFORMANCE					
	1.3	1.3			
	2	500			
	4500	5500			
	-15 ~ 55Cooling	/ -25 ~ 55Heating			
POWER INPUT					
	300~750				
	3Ph-380V-50HZ	* /1Ph-220V-50HZ			
		24			
WEIGHT					
	83	99			
	16				
DIMENSION					
1436x572x508		1436x572x508			
1080x592x238		1088x587x228			
REFRIGERATION CHARGE					

 $<sup>{}^\</sup>star\mathsf{The}$  capacity of 3ph standby is the same as DC power input.



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# **Unit selection guide**

AMBIENT TEMPERATURE							
MODEL	30°C		40°C		-18°C		
Set temp.	0/2°C	-20°C	0/2°C	-20°C	5°C		
EV-200	12m³	6m³	9m³	4.5m³	-		
EV-300	16m³	10m³	13m³	8m³	-		
EV-580	26m³	18m³	26m³	16m³	26m³		
EV-580S	26m³	23m³	26m³	18m³	26m³		

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  $30^{\circ}\text{C}/40^{\circ}\text{C}$  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.

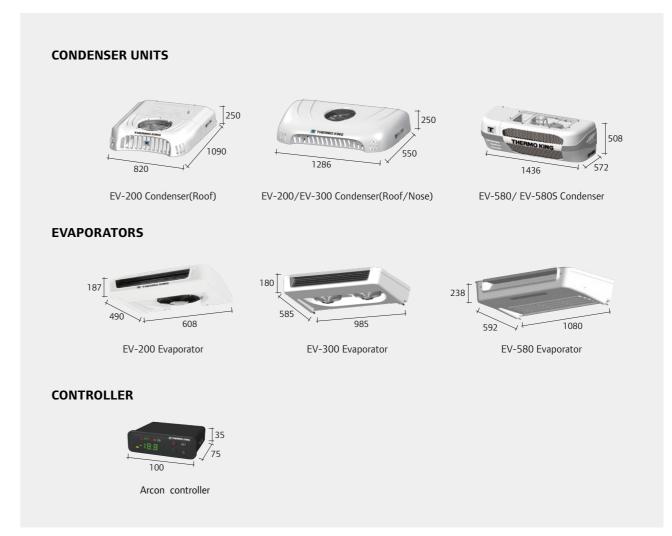






EV-580 & EV-5805 Up to 26 m<sup>3</sup>

# **Dimensions**



### **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.

