

# MONZONE®

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# THERMO KING

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938. For more information, visit [www.thermoking.com](http://www.thermoking.com) or [www.tranetechnologies.com](http://www.tranetechnologies.com).

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## Thermo King customer service hotline

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 **THERMO KING**

**MONZONE®**



**Vehicle-powered Unit RV-Series**  
**Customized Design for Light and**  
**Medium Refrigerated Truck**

**TRANE**  
TECHNOLOGIES



## RV-Series

RV, as the acronym of Rapid cooling/Reliable/Revolution Vehicle-powered, is specially designed for transport refrigeration in the range of light and medium distribution vehicles.

This all new RV platform is equipped with an optimized refrigeration system, robust TK compressor, and other proven components, which ensures high cooling capacity, quick pull down, precise temperature control, high reliability, easy use and low maintenance cost.

### Product Models

- RV-200 (Roof & Nose-mounted)
- RV-300 (Roof & Nose-mounted)
- RV-380
- RV-580



### Key Features

- Greater Capacity and Higher Efficiency**
  - Larger condenser/evaporator coil for quicker heat exchange
  - Fast pre-cooling for higher efficiency
  - Greater cooling capacity for better load protection
- Higher Reliability for More Uptime**
  - Long-life (10, 000 hrs) and one-piece fans
  - TK robust compressor
  - New electrical control system with high reliability
- Compact Design and Flexible Installation**
  - Patent design (RV-380 patent no. ZL201530106353.5)
  - Light and compact for easy installation, esp. for light and mini vehicle
  - Roof-mounted & nose-mounted for option (RV-200/RV-300)
- Easy to Use and Maintenance**
  - Improved electrical system
  - Less refrigerant charge to care environment
  - Removable relay design for better maintenance



## Specifications

**MONZONE®**

Model	RV-200	RV-300	RV-380 Roof	RV-380	RV-580	RV-580 Plus	RV-700	RV-780 II		
Temp. Range	-25°C~+30°C									
Refrigerant	R-404A									
Charge (kg)	1.10 (TK08 compressor)	1.15 (TK15 compressor)	1.2	1.7	1.8	2.5	2.5	2.5	2.6	
<b>Compressor</b>										
Model	TK08	TK15	TK15	TK16	TK16	TK16	TK21	TK21	TK21	
Number of Cylinder	6	6	6	6	6	6	10	10	10	
Displacement (cm³)	82	146	146	163	163	163	215	215	215	
<b>Cooling Capacity (W)</b>										
A.T.P. U.N. Standard @30°C (Ambient)										
Engine Power	0°C	2,100	2,300	3,500	4,200	4,050	5,050	5,450	6,600	7,300
	-20°C	820	1,200	1,850	2,300	2,300	2,550	2,850	3,500	3,900
A.R.I. U.S. Standard @38°C (Ambient)										
Engine Power	2°C	2,000	2,200	3,300	4,250	3,800	4,900	5,150	6,150	7,000
	-18°C	800	1,150	1,740	2,400	2,200	2,520	2,900	3,600	3,800
<b>Evaporator blower performance</b>										
Flow rate (@ 0 static pressure, m³/h)	700		1,500	1,500	1,500	2,500	2,500	2,500	3,000	
Velocity (m/s)	3.0		3.3	3.3	3.3	3.0	3.0	3.0	3.5	
<b>Total current consumption on the road (A)</b>										
12 VDC	30	36	30.8	36	44	44	-	-	-	
24 VDC	15	18	16.7	18	22	22	22	29	29	
<b>Weight (kg, approximate)</b>										
Condenser	24 (roof-mounted), 23 (nose-mounted)	24 (roof-mounted), 23 (nose-mounted)	25	30	45	45	50	50		
Evaporator	9	15	16	18	30	30	30	30		
Compressor	4.1 (TK08), 4.3 (TK15)	4.3	4.7	4.7	4.7	5.1	5.1	5.1		

Note: Refrigerant charge listed is for reference. Vehicle and piping configurations determine correct charge weights.

### Dimensions (mm)

