

# MONZONE®

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**Monzone customer service hotline**

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☎ **016-2621315**

# 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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☎ **800-820-2828**

☎ **400-820-7972**

# THERMO KING

# MONZONE®

## Vehicle-powered Unit SV-Series

*Extraordinary Performance and High Reliability*



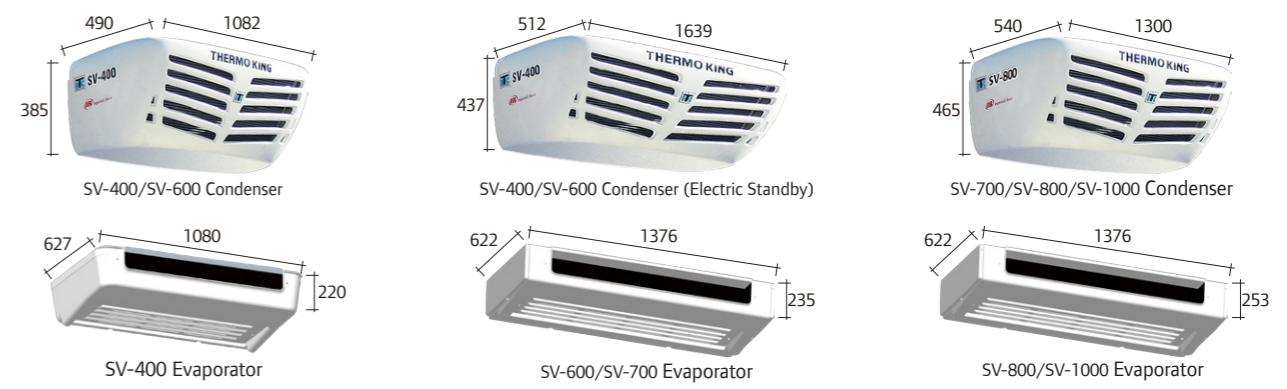


**Specifications**

Specifications	SV-400	SV-600	SV-700	SV-800	SV-1000		
Temp. Range	-25°C~+30°C						
Refrigerant	R-404A						
Charge (kg)	1.8	2.5	2.5	2.6	2.6		
<b>Compressor</b>							
Model	TK16	TK16	TK21	TK21	TK21	TK31	
Number of Cylinder	6	6	10	10	10	10	
Displacement (cm³)	163	163	215	215	215	313	
<b>Cooling capacity (W) A.T.P. U.N. Standard @30°C (Ambient)</b>							
Engine power	0°C	4,360	5,060	5,500	6,700	7,500	8,500
	-20°C	2,350	2,620	2,750	3,200	4,100	4,550
Electric standby (3phase)	0°C	3,800	4,720		5,780	6,570	6,570
	-20°C	1,860	2,460		2,900	3,400	3,400
Electric standby (1phase)	0°C	3,300	4,100		—	—	—
	-20°C	1,500	2,100		—	—	—
<b>Cooling capacity (W) A.R.I. U.S. Standard @38°C (Ambient)</b>							
Engine power	2°C	4,140	4,900	5,225	6,365	7,300	8,080
	-18°C	2,250	2,570	2,670	3,040	4,000	4,320
Electric standby (3phase)	2°C	3,500	4,350		5,490	6,200	6,200
	-18°C	1,780	2,410		2,760	3,260	3,260
Electric standby (1phase)	2°C	3,080	3,700		—	—	—
	-18°C	1,300	2,100		—	—	—
<b>Evaporator blower performance</b>							
Flow rate (m³/h) (@0 static pressure)	1500	2500	2500	3000	3000		
Velocity (m/s)	3.3	3	3	3.5	3.5		
<b>Electric standby</b>							
Compressor	semi-hermetic (3phase:151CC;1phase:129CC)	semi-hermetic (3phase:151CC;1phase:129CC)	semi-hermetic (206CC)	semi-hermetic (206CC)	semi-hermetic (206CC)		
Voltage/Phase/Frequency	380V/3PH/50Hz	380V/3PH/50Hz	380V/3PH/50Hz 230V/3PH/60Hz	380V/3PH/50Hz 230V/3PH/60Hz	380V/3PH/50Hz 230V/3PH/60Hz		
	230V/3PH/60Hz	230V/3PH/60Hz					
	220V/1PH/50Hz	220V/1PH/50Hz					
<b>Total current consumption on the road (A)</b>							
12 VDC	40	44	—	—	—		
24 VDC	20	22	25	29	29		
<b>Weight (kg, approximate)</b>							
Condenser	35 (130*)	35 (130*)	50	50	50		
Evaporator	18	30	30	31	31		
Compressor	4.7	4.7 (TK16), 5.1 (TK21)	5.1	5.1	10.7		
Electric standby	—	—	109	109	109		

**Note:** Refrigerant charge listed is for reference. Vehicle and piping configurations determine correct charge weights. (\*weight of SV-400/SV-600 integrated electric standby)

**Dimensions(mm)**



**SV-Series Single Temperature**

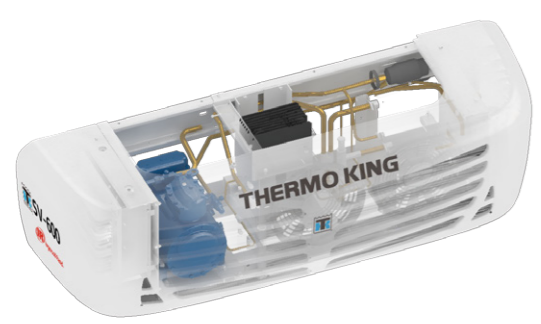
SV, as the acronym of Supreme Vehicle-powered, is designed for refrigerated transportation in the range of light, medium and heavy vehicles. This all new SV platform is equipped with an optimized refrigeration system, robust TK compressor, and many other proven components, to ensure the state-of-the-art quality and reliability. Meanwhile, superior cooling capacity protects perishable cargo, reducing the concern of load loss.

**Key Features**

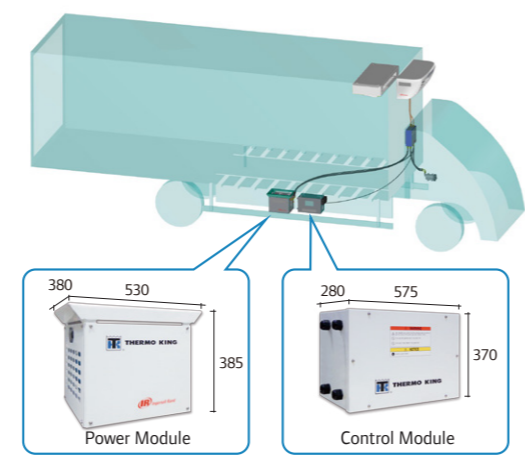
- **High performance to protect perishable products**
  - High cooling capacity, quick pull down, accurate temperature control
  - High reliability, low maintenance cost
- **Improved evaporator**
  - Long life integrated fans
  - Optimized structure design and condensing water drain
  - Improved installation and service
  - Improved appearance with patented design (Patent number: 201230490703.9)
- **New condenser platform**
  - Light and compact, energy saving
  - Standard part, share same platform, decrease inventory cost
  - Improved appearance with patented design (Patent number: 201230487134.2)
- **Thermo King robust compressor**
  - High reliability, reduce failure rate
  - Low life cycle cost

**Higher efficiency & reliable electric standby**

- **Larger Capacity:** 90% of Engine drive performance, leading position in the industry
- **Higher Efficiency:** Full electric compressor, 30% higher efficiency, less leakage
- **Safe and Reliable:** More protection for compressor & controller
- **Smart Control:** Function of failure feedback for power phase & high/low pressure



SV-400/SV-600 Integrated Electric Standby



SV-700/SV-800/SV-1000 Electric Standby

# SV-Series Spectrum

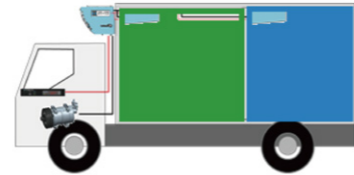
**MONZONE.**

SV-Series Spectrum is designed to meet all the requirements of the two-temperature distribution sector. The SV-Series Spectrum range provides maximum flexibility to switch between fresh, frozen temperatures in each compartment. Such adaptability reduces the number of vehicles needed in a fleet. By dispensing with the need for an independent diesel engine, they provide a low noise, low emissions solution, with minimal environmental impact. As a result, they are ideally suited to urban distribution.

## Key Features



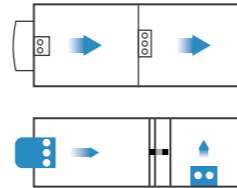
Lower transport cost due to flexibility for fresh, frozen applications



Higher transport efficiency and less vehicles needed in a fleet



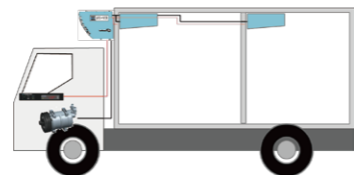
Quick pull down and precise temperature control



Flexible zone arrange for widely use



Standard parts, share same platform, decrease inventory cost



Easy installation for cost saving



## Smart control, user friendly

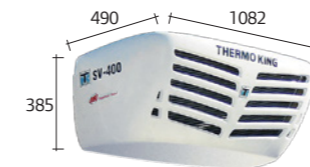
- One HMI to control & display dual zones temperature
- Precise temperature control with 0.1 °C display
- CAN Communication
- Priority mode function

## Specifications

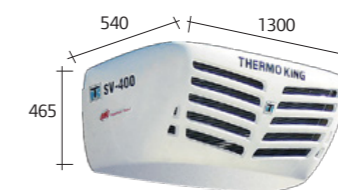
**MONZONE.**

Specifications	SV-400 MAX30 Spectrum	SV-600 MAX30 Spectrum	SV-800 MAX30 Spectrum			
Temp.Range	-25°C~+30°C					
Refrigerant	R-404A					
Charge(kg)	2.5	3.2	2.9	3.4		
Compressor						
Model	TK16	TK21	TK21			
Number of Cylinder	6	10	10			
Displacement(cm³)	163	215	215			
Cooling capacity(W) A.T.P. U.N. Standard @30°C (Ambient), Compressor 2,400 RPM (W)						
Total Cooling Capacity	2 X ME200	ME400 + ME300	2 X ME300	ME600 + ME300 or 2 X ME400		
0°C/30°C	4,500	6,300	6,000	7,500		
-20°C/30°C	2,400	3,500	3,300	4,000		
Evaporator blower performance						
	ME200	ME400	ME300	ME600	ME400	ME300
Individual evaporator cooling capacity(W)						
0°C/30°C	3,100	5,000	4,300	6,650	5,700	4,400
-20°C/30°C	1,800	2,600	2,500	3,750	3,100	2,390
Flow rate(m³/h)(@0 static pressure)						
	700	1,500	1,500	2,500	1,500	1,500
Velocity(m/s)						
	3	3.3	3.3	3.0	3.3	3.3
Weight (kg, approximate)						
Evaporator	12	20	16	31	20	16
Condenser	44	44		55		
Compressor	4.7	5.1		5.1		
Total current consumption on the road						
12VDC(A)	47	54		—		
24VDC(A)	24	27	ME600 + ME300		36	
			2 X ME400		32	

## Dimensions(mm)



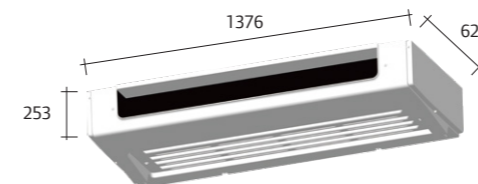
SV-400/SV-600 Spectrum Condenser



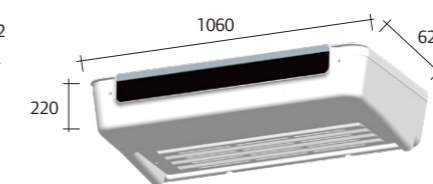
SV-800 Spectrum Condenser



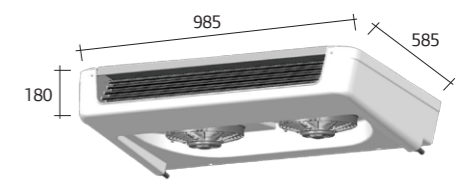
ME200 Evaporator



ME600 Evaporator



ME400 Evaporator



ME300 Evaporator