



## Vehicle-powered Unit SV-Series

*Extraordinary Performance and High Reliability*



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## SV-Series

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

### • 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)

### • Higher efficiency & reliable electric standby

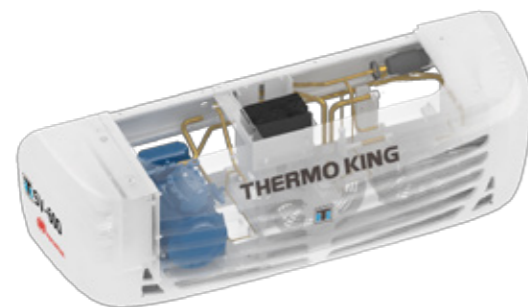
- **Larger Capacity:** 90% of Engine drive performance, leading position in the industry
- **Higher Efficiency:** Full electric compressor, 30% higher efficiency, less leakage
- **Safe and Reliable:** More protection for compressor & controller
- **Smart Control:** Function of failure feedback for power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

### • Improved evaporator

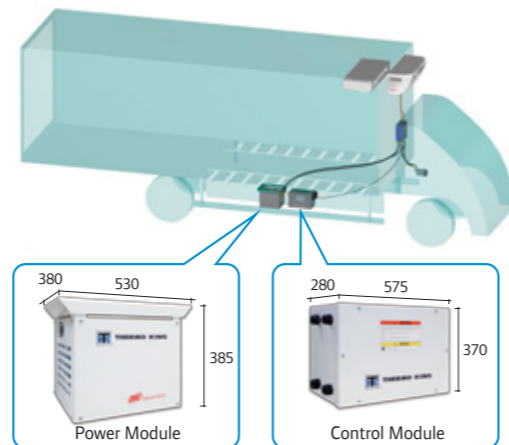
- Long life integrated fans
- Optimized structure design and condensing water drain
- Improved installation and service
- Improved appearance with patented design (Patent number: 201230490703.9)

### • Thermo King robust compressor

- High reliability, reduce failure rate
- Low life cycle cost



SV-400/SV-600 Integrated Electric Standby



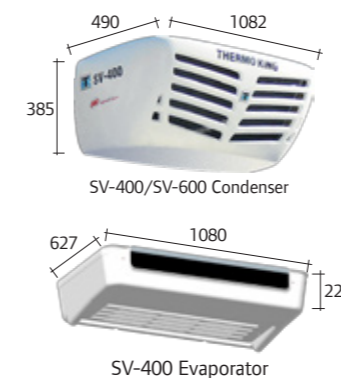
SV-700/SV-800/SV-1000 Electric Standby

## 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 (cm <sup>3</sup> )	163	163	215	215	215	313	
<b>Cooling Capacity (W)</b> A.T.P. U.N. Standard @30°C (Ambient)							
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	3,960		—	—	—
	-20°C	1,500	1,860		—	—	—
<b>Cooling capacity (W)</b> A.R.I. U.S. Standard @38°C (Ambient)							
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	1,730		—	—	—
<b>Evaporator blower performance</b>							
Flow rate (m <sup>3</sup> /h) (@Ostatic pressure)	1500	2500	2500	3000	3000	3000	
Velocity (m/s)	3.3	3	3	3.5	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	380V/3PH/50Hz	380V/3PH/50Hz	
	230V/3PH/60Hz		230V/3PH/60Hz	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		

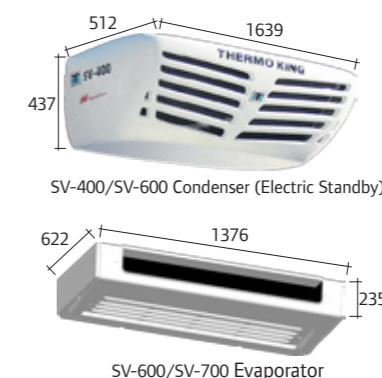
**Note:** Refrigerant charge listed is for reference. Vehicle and piping configurations determine correct charge weights. (\*weight of SV-400/SV-600 integrated electric standby)

## Dimensions(mm)



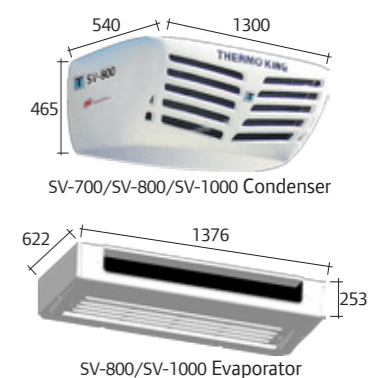
SV-400/SV-600 Condenser

SV-400 Evaporator



SV-400/SV-600 Condenser (Electric Standby)

SV-600/SV-700 Evaporator



SV-700/SV-800/SV-1000 Condenser

SV-800/SV-1000 Evaporator