



Vehicle-powered Unit SV-Series

Extraordinary Performance and High Reliability



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www.ap.thermoking.com

www.ingersollrand.com

Asia Pacific Headquarters & China Office
8-12F, L'Avenue Shanghai,
99 Xianxia Road, Shanghai, 200051, P.R.C
Tel: +86 21 2221 5000
Fax: +86 21 2221 5409

Global Headquarters
314 West 90th Street
Minneapolis, Minnesota, 55420, U.S.A.
Tel: +1 952 887 2200
Fax: +1 952 887 2529

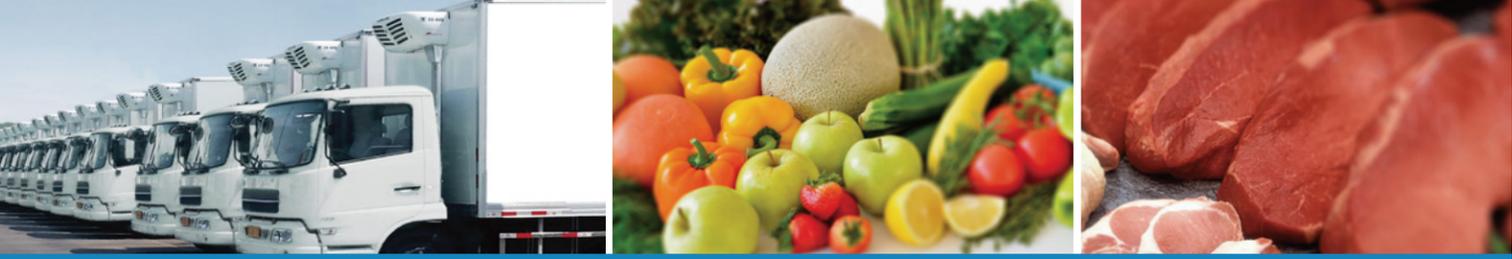
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Specifications are subject to change without notice.





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

● 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

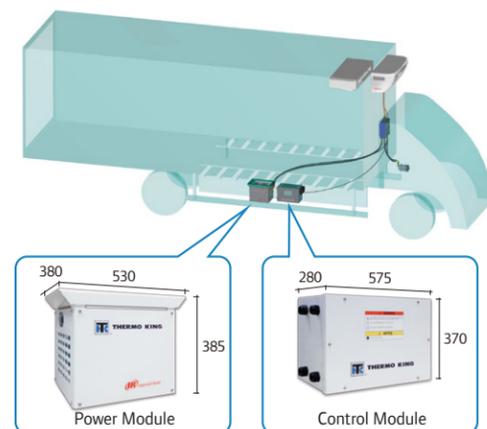
- Long life integrated fans
- Optimized structure design and condensing water drain
- Improved installation and service
- Improved appearance with patented design (Patent number: 201230490703.9)

● Thermo King robust compressor

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



SV-400/SV-600 Integrated Electric Standby



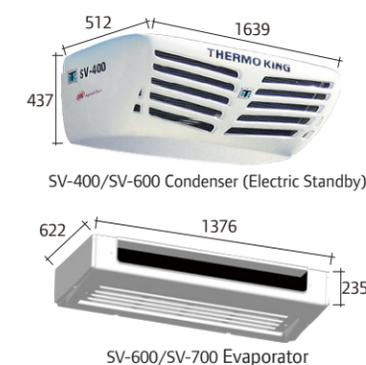
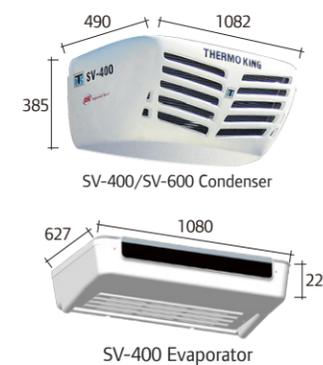
SV-700/SV-800/SV-1000 Electric Standby

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		
Compressor							
Model	TK16	TK16	TK21	TK21	TK21	TK31	
Number of Cylinder	6	6	10	10	10	10	
Displacement (cm ³)	163	163	215	215	215	313	
Cooling capacity (W) 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	4,100		—	—	—
	-20°C	1,500	2,100		—	—	—
Cooling capacity (W) 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	2,100		—	—	—
Evaporator blower performance							
Flow rate (m ³ /h) (@0 static pressure)	1500	2500	2500	3000	3000	3000	
Velocity (m/s)	3.3	3	3	3.5	3.5	3.5	
Electric standby							
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		—	—	—
Total current consumption on the road (A)							
12 VDC	40	44	—	—	—	—	
24 VDC	20	22	25	29	29	29	
Weight (kg, approximate)							
Condenser	35 (130*)	35 (130*)	50	50	50	50	
Evaporator	18	30	30	31	31	31	
Compressor	4.7	4.7 (TK16), 5.1 (TK21)	5.1	5.1	10.7	10.7	
Electric standby	—	—	109	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)



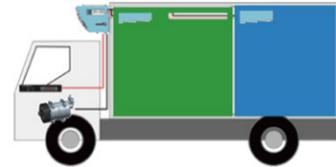
SV-Series Spectrum

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



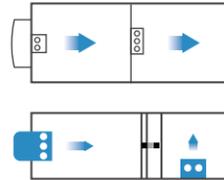
Lower transport cost due to flexibility for fresh, frozen applications



Higher transport efficiency and less vehicles needed in a fleet



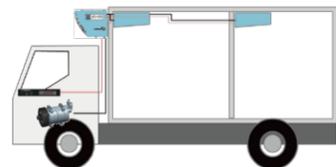
Quick pull down and precise temperature control



Flexible zone arrange for widely use



Standard parts, share same platform, decrease inventory cost



Easy installation for cost saving



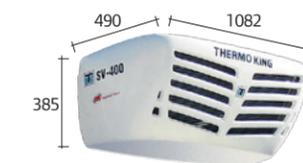
Smart control, user friendly

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

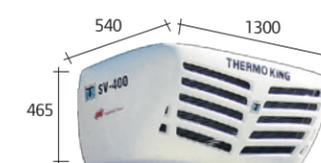
Specifications

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)



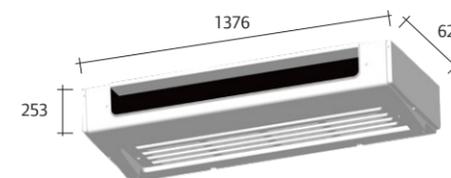
SV-400/SV-600 Spectrum Condenser



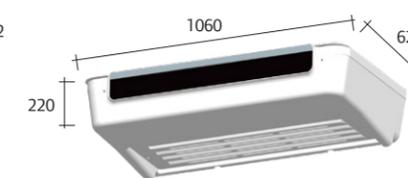
SV-800 Spectrum Condenser



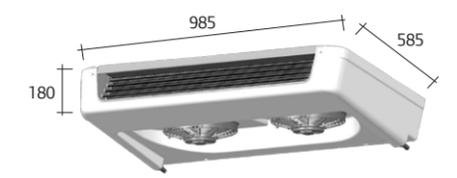
ME200 Evaporator



ME600 Evaporator



ME400 Evaporator



ME300 Evaporator