



V-300 Series

Unmatched reliability
and total versatility.



*TC model offers
bi-temperature flexibility*

Key features:

- Same platform, same modules and many common components with the V-200 series
- Multiple options including bi-temperature and heating
- Ultra Slim evaporators

An  **Ingersoll-Rand** business

More modular options w



Introducing the V-300 Series from Thermo King – developed for businesses on the move. Its sleek, aerodynamic design makes installation and maintenance access easy, helping to minimize downtime. A flexible approach lets you choose a temperature management system that fulfills your current requirements, with the capability to modify down the road, as your business grows and changes.

Every Thermo King is born from meticulous research and development, and is then subjected to rigorous testing. The V-300 is no exception, offering you total versatility without sacrificing maximum performance and reliability. Multiple applications include multi-temperature, heating, and even cabin air conditioning.

Then there's the re-assurance of our world-wide service network. Our 24 hour-a-day, 7 day-a-week multi lingual Thermo Assistance service makes us easy to reach from anywhere, at any time. Another good reason for choosing the V-300, it's built for your business.

Ultra Slim evaporator for maximum load space and high airflow volume for superior temperature control



V-300 Series



Value through technology

Modules to add heating or bi-temperature management (same as V-200 series)

The new Speedy Clip System for hoses and connections for increased reliability and ease of installation



The complete range



	Refrigerant	Stand-by	Bi-temp.	Heating
V-300 10	R-134a	—	—	+
V-300 20	R-134a	✓	—	+
V-300 MAX 10	R-404A	—	—	+
V-300 MAX 20	R-404A	✓	—	+
V-300 MAX TC 10	R-404A	—	✓	+
V-300 MAX TC 20	R-404A	✓	✓	+



with less basic platforms.

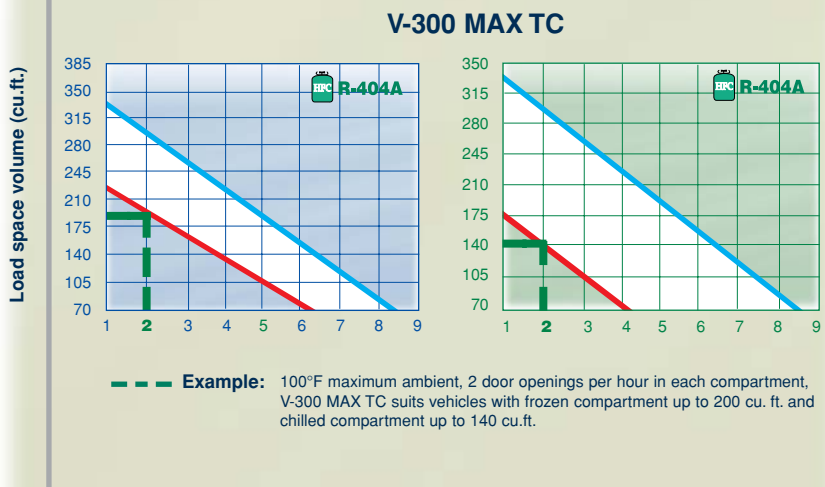
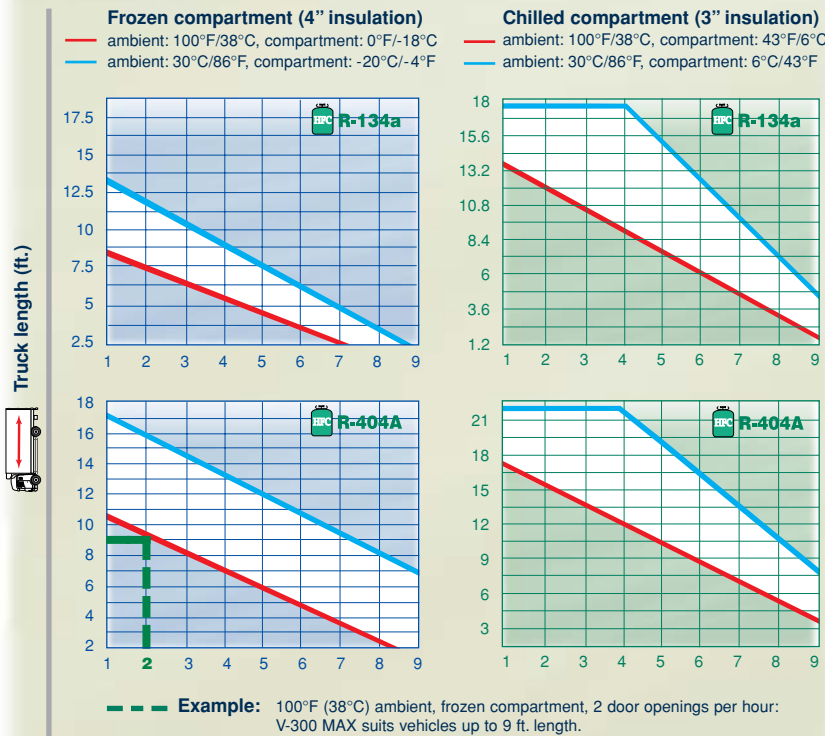
24 hour assistance from the best worldwide dealer network

Model offers temperature stability



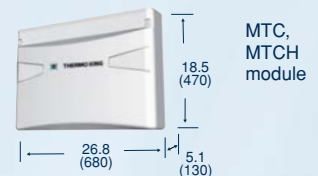
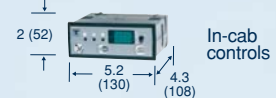
Selection guide

V-300/V-300 MAX



Door openings per hour

Dimensions inches (millimeters)



Weights (approximate)

Condenser:	
w/o electric stand-by	111 lbs. (50 kg)
with electric stand-by	165 lbs. (75 kg)
ES300 (Ultra Slim evap.)	40 lbs. (18 kg)
ES150 MAX evap.	27.5 lbs. (12.5 kg)
Installation kit (incl. cpr.)	62 lbs. (28 kg)
Bi-temp. module MTC	18 lbs. (8 kg)
Bi-temp. & heating module MTCH	20 lbs. (9 kg)
Heating Kit	10 lbs. (4.5 kg)

Warranty

Terms of the Thermo King Warranty are available on request from your local Thermo King Dealer. Please reference document TK51350 for the Thermo King Vehicle-Powered Truck Unit Warranty.

Specifications are subject to change without notice.

SPECIFICATIONS

Description

The V-300 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on small trucks and vans. The road compressor is powered by the vehicle's engine. In models with Electric stand-by, the second one is powered by an electric motor. The V-300 MAX TC can manage two evaporators to provide temperature control for two compartments. Models with heating are also available.

System components

- Condenser
- ES300/ES300 MAX evaporator (except TC model)
- Engine driven compressor
- Installation kit
- Two ES150MAX evaporators (for TC model only)
- In-cab control box
- Engine coolant and electric heater strips for 10 and 20 models
- MTC module for bi-temp. units
- MTCH module for bi-temp. and heating units

Refrigerant

V-300: HFC R-134a (3.85 lbs)
Chlorine: Zero
V-300 MAX: HFC R-404A (4.00 lbs)
Chlorine: Zero

Compressor (engine driven)

- Number of cylinders: 6
- Displacement: 8.95 cu. in. (146.7 cm³)
- Maximum recommended speed: 3,000 rpm
- Jet Lube and Jet Cool (on MAX units) compressor lubrication and cooling systems

Defrost

- Automatic hot gas defrost

Evaporator blower performance

Airflow volume:
Host evaporator (ES300): 765 cu. ft/min (1300 m³/h)
Bi-temp evaporator (ES150 MAX): 520 cu. ft/min (880 m³/h)

Heating capacity

- Engine coolant heat: 14400 BTU/hr (4200 W)
- Electric heater strips: 5000 BTU/hr (1450 W)

Electric motors

- dc voltage options: 12V dc and 24V dc
- Electric standby options: 115V/1 Phase/60Hz 230V/1 Phase/60Hz 230V/1 Phase/50Hz 230V/3 Phase/60Hz 230V/3 Phase/50Hz 400V/3 Phase/50Hz
- Total current consumption on the road:

	12V dc	24V dc
V-300/300 MAX	28 A	15 A
V-300 MAX TC	37 A	20 A

- Total standby current consumption:

	V-300/300 MAX	V-300 MAX TC
115V/1 Phase/60Hz	13.3 A	13.5 A
230V/1 Phase/60Hz	10.2 A	10.7 A
230V/1 Phase/50Hz	10 A	10.5 A
230V/3 Phase/60Hz	7.9 A	8.2 A
230V/3 Phase/50Hz	7.7 A	8 A
400V/3 Phase/50Hz	4.5 A	4.6 A

REFRIGERATION CAPACITY

100°F ambient, U.S. standard.				30°C ambient, European standard.			
System net cooling capacity at 100°F (38°C) ambient and 2400 compressor rpm.				System net cooling capacity under ATP conditions including 30°C (86°F) ambient.			
V-300 (HFC R-134a Refrigerant)				V-300 (HFC R-134a Refrigerant)			
Air return / On the road	BTU/hr	Watts		Air return / On the road	Watts	BTU/hr	
35°F (2°C)	9590	2810		0°C (32°F)	2950	10070	
0°F (-18°C)	4130	1210		-20°C (-4°F)	1300	4435	
Electric stand-by 50Hz				Electric stand-by 50Hz			
35°F (2°C)	6690	1960		0°C (32°F)	2000	6825	
0°F (-18°C)	2425	710		-20°C (-4°F)	770	2625	
V-300 MAX (HFC R-404A Refrigerant)				V-300 MAX (HFC R-404A Refrigerant)			
Air return / On the road	BTU/hr	Watts		Air return / On the road	Watts	BTU/hr	
35°F (2°C)	10015	2935		0°C (32°F)	3250	11090	
0°F (-18°C)	5835	1710		-20°C (-4°F)	1900	6485	
-20°F (-29°C)	3535	1036		-25°C (-13°F)	1550	5290	
Electric stand-by 60Hz				Electric stand-by 50Hz			
35°F (2°C)	5801	1700		0°C (32°F)	1950	6655	
0°F (-18°C)	3790	1110		-20°C (-4°F)	1275	4350	
-20°F (-29°C)	2565	752		-25°C (-13°F)	950	3245	

STANDARD FEATURES

- Jet Lube™ compressor lubrication
- Jet Cool™ compressor injection cooling (MAX models)
- In-cab controls with digital LED thermometer
- Automatic hot gas defrost
- Electronic thermostat



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