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V-300

Just right temperature control for direct trucks and vans.

Key Points:

- Modern compact platform for the models without electric standby
- New user-friendly Direct Smart Reefer
- Increased reliability
- Easy maintenance, service and installation

V-300 Features and Options

Standard Features:

- Jet Lube™ compressor lubrication
- In-cab Direct Smart Reefer controller
- Automatic hot gas defrost
- Electric thermostat

Dealer Options:

- Data Capture and Communications
 - TKDL-PRO
 - TKDL-SPR
 - TKDL-DCS
 - [TracKing tracking and load monitoring](#)
 - [Wintrac data analysis software](#)
 - Load Protection
 - [Door switches](#)
 - Life Cost Management
 - [Guaranteed Maintenance Contracts \(Total Kare\)](#)

V-300 Specifications

Description:

- The V-300 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on direct drive trucks and vans. The road compressor is powered by the vehicle's engine.

Superior Temperature Control:

- High airflow to provide superior temperature management leading to a more uniform temperature distribution thereby protecting perishable goods during transport
- Higher cooling capacity at all temperatures especially on electric standby operation for
 - Faster temperature recovery from multiple door openings during distribution operations
 - Quicker pre-cooling on electric operation

Improved Reliability of Electrical Components:

- Introduction of new long life fans in both the condenser and evaporator with a working life 3 times longer than previously
- IP55 easily accessible electric box and new sealed connectors
- Components requiring frequent service such as fuses, fan and fan filter are easily accessible without affecting the seal of the electrical control box
- Individual fuses and relays for independent protection of the loads
- Hermetic transformer and connecting wires
- Large, compact filtering capacitors for improved d.c. supply stability during standby operation
- The new Direct Smart Reefer has several features to protect and increase the life of the components
 - vehicle battery protection: low battery voltage check, sequential evaporator start, unit delays start during vehicle start-up, isolation of power sources by relays
 - time limit between turning off and on the unit to extend life of electrical components and compressor
 - clutch delay timer extends electrical motor life

Ease of Maintenance and Service:

- The new DSR has a
 - Maintenance reminder
 - Easy to understand alarm codes for quick diagnostics
- The condenser cover can now be removed and the unit will continue to safely function for easy diagnostics

Ease of Installation:

- Added lifting eyes to the larger platform
 - Accessible mounting holes
 - Fittings outside of the evaporator to reduce installation time and guarantee airflow
- [See Graphic](#)

New User-Friendly Direct Smart Reefer With the Following Benefits:

- Continuous temperature monitoring
- Three standard hourmeters - to record working hours
- Manual or automatic defrost
- In cab box may be removed after presetting conditions

Models Available:

- [Click For Model Chart](#)

Refrigeration Capacity: European Standard - System net cooling capacity under ATP conditions including 30 degrees C (86 degrees F) ambient.

Degrees C	Degrees F	Air Return On the Road		Electric Stand-by 50Hz	
		Watts	Btu/hr	Watts	Btu/hr
0	32	2800	9560	1880	6420
-20	-4	1170	3995	725	2475

Refrigerant:

- HFC R-134a (1.75 kg)
- Chlorine: Zero

Defrost:

- Automatic hot gas defrost

Compressor (Engine Driven):

- Number of cylinders: 6
- Displacement: 146.7 cm³ (8.95 cu in)
- Speed Max recommended: 3,000 rpm
- Jet Lube™ compressor lubrication and cooling systems

Evaporator Blower Performance:

- Airflow volume: 1295 m³/h (760 cu. ft/min)

Electric Motors:

- dc voltage options: 12Vdc and 24Vdc
- Total current consumption on the road: 12Vdc - 28A 24Vdc - 15A
- Total stand-by current consumption:
 - 230V/1 Phase/50 Hz 10A
 - 230V/1 Phase/60 Hz 10.2A
 - 115V/1 Phase/60 Hz 16A
 - 400V/3 Phase/50 Hz 4.5A
 - 230V/3 Phase/50 Hz 7.7A
 - 230V/3 Phase/60 Hz 7.9A

System Components:

- Small condenser section: V-300 series without electric stand-by
- Large condenser section: V-300 series with electric stand-by
- Ultra slim evaporator ES300
- Engine driven compressor
- Installation kit
- In-cab Direct Smart Reefer
- Vehicle drive kit (on request)

Weight: (approximate)

	lbs	kg
Condenser w/o electric stand-by	55	25
Condenser with electric stand-by	165	75
ES300 (Ultra Slim Evaporator)	40	18
Installation Kit (incl. cpr.)	62	28

Dimensions:

	Height		Width		Depth	
Condenser w/o electric stand-by	7.9 in	200 mm	31.1 in	789 mm	19.7 in	500 mm
Condenser with electric stand-by	7.9 in	200 mm	46.5 in	1180 mm	19.1 in	485 mm
ES300 (Ultra Slim Evaporator)	7.0 in	178 mm	38.8 in	985 mm	21.7 in	550 mm
In-cab Direct Smart Reefer	1.8 in	46 mm	5.3 in	135 mm	1.0 in	25 mm

Specifications are subject to change without notice.

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