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V-300 MAX

Just right temperature control for direct drive 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 MAX Features and Options

Standard Features:

- Jet Lube™ compressor lubrication
- Jet Cool™ compressor injection cooling
- In-cab Direct Smart Reefer controller
- Automatic hot gas defrost
- Electronic 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 MAX 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. The MAX TC can manage two evaporators to provide temperature control for two compartments. Models with hot gas heating are also available.

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	3355	11460	1900	6490
-20	-4	1820	6215	1055	3605
-25	-13	1515	5175	820	2800

Refrigerant:

- HFC R-404A (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™ and Jet Cool™ compressor lubrication and cooling systems

Evaporator Blower Performance:

- Airflow volume Evaporator ES150: 790 m³/h (465 cu. ft/min)
- Airflow volume Evaporator ES300: 1295 m³/h (760 cu. ft/min)

Heating Capacity (models 30/50):

- Conditions: 5 degrees C internal air temperature, -20 degrees C ambient air temperature
 - Road operation to: 1050 W (3585 BTU/hr)
 - Electric stand-by operation: 935 W (3195 BTU/hr)

Electric Motors:

- dc voltage options: 12Vdc and 24Vdc
- Total current consumption on the road V-300 MAX: 12Vdc - 28A 24Vdc - 15A
- Total current consumption on the road V-300 MAX TC: 12Vdc - 33A 24Vdc - 17A
- Total stand-by current consumption V-300 MAX:
 - 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
- Total stand-by current consumption V-300 MAX TC:
 - 230V/1 Phase/50 Hz 10.5A
 - 230V/1 Phase/60 Hz 10.7A
 - 115V/1 Phase/60 Hz 16.5A
 - 400V/3 Phase/50 Hz 4.6A
 - 230V/3 Phase/50 Hz 8A
 - 230V/3 Phase/60 Hz 8.2A

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
 - ES150 (V-300 MAX TC)

- ES300 (V-300 series with the exception of bi and multi-temperature models)
- Engine driven compressor
- Installation kit
- In-cab Direct Smart Reefer
- Modules
 - MH (heating) module for 30/50 models
 - MTC module for bi-temperature models
 - MTCH module for bi-temperature and heating models
- Vehicle drive kit (on request)

Weight: (approximate)	lbs	kg
Condenser w/o electric stand-by	55	25
Condenser with electric stand-by	165	75
ES150 (Ultra Slim Evaporator)	27.5	12.5
ES300 (Ultra Slim Evaporator)	40	18
Installation Kit (incl. cpr.)	62	28
MH Heating Module	13	6
MTC Bi-temperature Module	18	8
MTCH Bi-temperature and Heating Module	20	9

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
ES150 (Ultra Slim Evaporator)	7.4 in	187 mm	29.7 in	755 mm	21.3 in	540 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
MH/MTC/MTCH Module	18.5 in	470 mm	26.8 in	680 mm	5.1 in	130 mm

Specifications are subject to change without notice.

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