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V-400 MAX

Unmatched reliability and total versatility.

Key Points:

- Superior performance
- New user friendly Direct Smart Reefer
- Electric stand-by capacity at approximately 100% of the road capacity
- Guaranteed reliability
- Ultra Slim evaporator
- Easy maintenance, service and installation
- Flexibility
- Low noise

V-400 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
- Electric thermostat

Dealer Options:

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

V-400 MAX Specifications

Description:

- The V-400 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on medium-sized 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.

Models Available:

- [Click For Model Chart](#)

Refrigeration Capacity: European Standard

Degrees C	Degrees F	Air Return On the Road		Electric Standby 50Hz	
		Watts	Btu/hr	Watts	Btu/hr
0	32	4130	14105	4135	14120
-20	-4	2270	7750	2045	6985
-25	-13	1680	5740	1465	5005

Refrigerant:

- HFC R-404A
- Chlorine: Zero
- Refrigerant charge: 7.05 lbs. (3.2 kg)

Defrost:

- Automatic hot gas defrost

Compressor (Engine Driven): Swash plate compressor (TM-15)

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

Evaporator Blower Performance:

- Host Evaporator: ES400 MAX
- Airflow volume: 885 cfm (1450 m³/hr)

Heating Capacity:

- Conditions: 5 degrees C internal air temperature, -20 degrees C ambient air temperature
- Road operation: 1200 W (4100 BTU/hr)
- Electric stand-by operation: 4320 W (1365 BTU/hr)

Electric Motors:

Total current consumption on the road:	12Vdc	24Vdc
V-400 MAX	30A	15A
Total stand-by current consumption:	V-400 MAX	
400V/3-Phase/50Hz	6.8A	
230V/3-Phase/50Hz	13.6A	

System Components:

- Condenser
- ES400 MAX Evaporator
- Engine driven compressor
- Installation kit
- In-cab Direct Smart Reefer

New Exclusive TCC (Triple Cooling Capacity):

- [The new exclusive TCC \(Triple Cooling Capacity\)](#) feature offers you three capacities and fan speeds to automatically match cooling needs of varying intensity. The TCC level is adjusted according to the pressure read within the refrigeration circuit.

Optimized Performance with Exclusive Technology:

- **Outstanding Pulldown Capacity with TCC1:** The unit is working at its highest capacity level with both condenser fans running at maximum speed
- **Ideal for Tropical Conditions:** The maximum capacity level makes it possible to function in ambient temperatures up to 50 degrees C
- **Low Fuel Consumption and Running Costs:** Performance is optimized according to the capacity demand thereby reducing the fuel consumption of the truck the capacity delivered is matched to the demand. When working in steady or low demanding conditions, the condenser fans will run at low speed or stop as required
- **Low Noise level:** Noise is kept to a minimum level in any operating conditions. Particularly in steady state conditions, where there is virtually no noise. In electric stand-by operation, the sound power level varies by 6dbA according to the TCC level. On road operation, the compressor is driven by the engine of the vehicle, hence the noise from the unit is very small in comparison with that of a self-powered unit

Easy Installation and Easy to Service:

- Front cover fixed to the structure by the means of plastic clips
- Clip-on electric cover
- Speedy clip system for hoses and connections

Guaranteed Reliability:

- Semi-hermetic reciprocating stand-by compressor
- Electrical components protected from water and humidity inside a hermetic box
- New control system (TCC) reduces the working time of the condenser fans

Modern Design:

- Styled with rounded angles
- Smooth curvature of the front panel
- No visible screws
- Chic design of the electric box panel
- Completely white appearance
- Ultra Slim Evaporator (only 220mm in height) to maximize payload

Weight: (approximate)	lbs	kg
Condenser without electric standby	150	68
Condenser with electric standby	309	140
ES400 MAX Ultra Slim Evaporator	44	20

Dimensions:	Height		Width		Depth	
Condenser	17.6 in	448 mm	50.8 in	1292 mm	18.7 in	475 mm
ES400 MAX Ultra Slim Evap	8.7 in	220 mm	42.5 in	1080 mm	24.7 in	627 mm
In-cab Direct Smart Reefer	1.8 in	46 mm	5.3 in	135 mm	1.0 in	25 mm

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