🔣 THERMO KING	SUPER FREEZER REFRIGERATION UNIT					
General:						
Unit type:	Ultra-Low temperature unit. Cascade system with dual refrigeration circuit					
	R134a with Copeland 3 cylinder compressor. Charge 3.5 kg (7.7 lbs)					
	R23 with Copeland Scroll compressor. Charge 3.2 kg (7.0 lbs)					
Setpoint Range:	-70°C to -10°C (-94°F to -14°F)					
Ambient temperature Range:	-30°C to +37.8°C (-22°F to 100°F)					
Required heat leakage of 10' box:	18 Watt/°K @ 20C wall temperature, to ensure set-point at ambient					
Required heat leakage of 20' box:	20 Watt/°K @ 20C wall temperature, to ensure set-point at ambient					
Container protection	Pressure equalization valve to avoid excessive vacuum in the container					
Cooling Capacity @ ambient tempe	erature +37.8°C (100°F)					
At setpoint -30°C (-22°F)	8,250 watt @ 460V/60Hz 7,112 watt @ 400V/50Hz					
At setpoint -60°C (-76°F)	5,850 watt @ 460V/60Hz 5,086 watt @ 400V/50Hz					
At setpoint -70°C (-94°F)	3,880 watt @ 460V/60Hz 3,344 watt @ 400V/50Hz					
Electricity						
Power supply:	A/C 400 to 500 Volt 3 phase 60 Hz ±2,5%					
	A/C 360 to 460 Volt 3 phase 50 Hz ±2,5%					
Main circuit breaker:	32 Amp					
Power cable:	18.3 m (60 LF) cable (3phase and ground) with CEE17 power plug (32 Amp;					
	ground 3h)					
Maximum power draw:	19 kw during "pull down"					
<u>Controller</u>	Advanced Microprocessor MP3000 control system					
	Temperature control using 6 NTC sensors					
	Temperature accuracy: +/- 1°C (+/-1.8°F)					
	Datalogger document system parameters and changes, results of Pre-Trip					
	Inspections, Alarms & messages, as well as temperature logs.					
	Temperature logs are defaulted to 1 hour interval, and user can change to 30					
	min, memory allow 15,000 temperature logs					
	3 USDA cargo sensor ports with Cannon receptacles					
	Telematics (option) to allow two-way communication with controller. Using					
	Global Network Satellite System and Global cellular LTE, 2G, 3G signal)					
	Datalogger can be retrieved via serial port on unit, or via Telematics					
	Defrost: utilizing electical defrost heaters, with timer and on demand					
Noise level:	80db (A) in 250 Hz band, mesured in front of the unit at 1.5 m distance					

Certifications and design standards: ISO1496-2; CE; ATP; AHRI; USDA; TIR

Weight of SuperFreezer unit:	630 kg	(1,390 lbs)			
Weight of 10'container incl unit:	12,000 kg	(24,000 lbs)	Payload:	8,750 kg	(19,290 lbs)
Weight of 20'container incl unit:	24,000 kg	(52,910 lbs)	Payload:	19,500 kg	(42,990 lbs)