

CSS SuperFreezer

Extrem niedrige Temperaturen für kritische Fracht

- Extreme Kühlleistung
- Halten Sie extrem niedrige Temperaturen von bis zu -70 °C aufrecht
- Schützen Sie die empfindlichsten und wertvollsten Frachten
- Lösung kann für den Straßen- oder Schiffstransport oder als Lager verwendet werden

LEISTUNG

TECHNISCHE DATEN

GENERAL		FEATURES	
Unit type	Ultra-Low temperature unit for installation in Reefer containers for stationary applications. All Aluminum "Picture frame". 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)	Noise level	80db (A) in 250 Hz band. Measurement taken in front of the unit 1,5 m distance and 1,2 m above ground, with the unit operating at 50 Hz
Container protection	Pressure equalization valve (1400 Pascal / 140 mm WG) to avoid excessive vacuum in the container	Certifications and design standards	ISO1496-2 CE ATP AHRI USDA TIR (International Customs Regulations for Containers)
Setpoint Range	-70°C to -10°C (-94°F to -14°F)	Weight of SuperFreezer unit	630 kg (1,390 lbs)
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		
COOLING CAPACITY @ AMBIENT TEMPERATURE +37.8°C (100°F)		ELECTRICITY	
At setpoint -60°C (-76°F)	5,850 watt @ 460V/60Hz 5,086 watt @ 400V/50Hz	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%
At setpoint -70°C (-94°F)	3,880 watt @ 460V/60Hz 3,344 watt @ 400V/50Hz	Main circuit breaker	32 Amp
At setpoint -30°C (-22°F)	8,250 watt @ 460V/60Hz 7,112 watt @ 400V/50Hz	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"
CONTROLLER			
General	Advanced Microprocessor MP3000 Emerson Controls 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, 2 or 4 hr interval. Datalogger memory		

MARINE

allow 15,000 temperature logs
When power is disconnected,
datalogger continue to log
temperatures for 120 logs (3
days * 24 hr interval). 3 USDA
cargo sensor ports with Cannon
receptacles (Option supply of
15m (49 LF) long cables with
PT100 sensor (accuracy +/-
0.15°C (+/- 0.27°F)) 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 Controller
continuously monitor health of
system and components, an early
indication can trigger a
"message" and a critical issues
trigger an "alarm" Unit controller
has LED that flash red if an
"Alarm" is active Defrost: To melt
ice entering with cargo, and/or
from door openings electrical
defrost heaters are installed with
capacity 8,160 watt @ 460/60Hz
and 6,300 watt @ 400V/50Hz.
Defrost activate every 6 hours, or
per user lis controller set-up
using temperature difference
between evaporator coil sensor
and return air sensor.