CSS SuperFreezer

Temperature ultra basse per carichi critici

- · Capacità frigorifera estrema
- · Mantenimento di temperature ultra basse, fino a -70 °C
- · Protezione dei carichi più sensibili e preziosi
- La soluzione può essere utilizzata per il trasporto via terra o mare o per la conservazione

	DATI T	ECNICI	
FLUSSO D'ARIA		TECHNICAL SPECIFICATIONS	
Door access	Ultra-Low temperature unit for installation in Reefer containers for stationary applications. All Aluminum "Picture frame". Cascade system with dual	Setpoint Range	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
	refrigeration circuit. R134a with Copeland 3 cylinder compressor. Charge 3.5 kg (7.7 lbs) R23 with Copeland Scroll compressor.	Ambient temperature Range	ISO1496-2 CE ATP AHRI USD/ TIR (International Customs Regulations for Containers)
Optional	Charge 3.2 kg (7.0 lbs) Pressure equalization valve (1400 Pascal / 140 mm WG) to avoid excessive vacuum in the container	Required heat leakage of 20' box	630 kg (1,390 lbs)
Required heat leakage of box	-70°C to -10°C (-94°F to -14°F)		
Container protection	-30°C to +37.8°C (-22°F to 100°F)		
At setpoint +21.1°C (70°F)	18 Watt/°K @ 20C wall temperature, to ensure set-point at ambient		
Power supply	20 Watt/°K @ 20C wall temperature, to ensure set-point at ambient		
DIMENSIONS AND WEIGHTS @ AMBIENT TEMPERATURE +37.8°C (100°F)		FEATURES	
At setpoint -70°C (-94°F)	5,850 watt @ 460V/60Hz 5,086 watt @ 400V/50Hz	Weight of SuperFreezer unit	A/C 400 to 500 Volt 3 phase 60 Hz ±2,5% A/C 360 to 460 Volt
Maximum power draw	3,880 watt @ 460V/60Hz 3,344 watt @ 400V/50Hz	At setpoint -30°C (-22°F)	phase 50 Hz ±2,5% 32 Amp
Weight of Magnum+ unit	8,250 watt @ 460V/60Hz 7,112 watt @ 400V/50Hz	Capacity on Battery power 0°C	18.3 m (60 LF) cable (3phase and ground) with CEE17 power plug (32 Amp; ground 3h)
		Capacity at 50 Hz 0°C	19 kw during "pull down"
COOLING CAPACITY			
Capacity at 50 Hz -20°C	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 allow 15,000 temperature logs When power is disconnected, datalogger continue to log temperatures for 120 logs (3 days * 24 hr interval). 3 USDA

MARINE

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 @ 400V/50Hz. Defrost activate every 6 hours, or per user Ils controller set-up using temperature difference between evaporator coil sensor and return air sensor.