

CSS SuperFreezer

Températures ultra basses pour les cargaisons critiques

- Capacité de refroidissement extrême
- Maintien de températures ultra-basses, aussi basses que -70 °C
- Protection des cargaisons les plus sensibles et les plus précieuses
- La solution peut être utilisée pour le transport terrestre ou maritime ou comme stockage

DONNÉES TECHNIQUES

DÉBIT D'AIR		CARACTÉRISTIQUES	
Type de groupe frigorifique	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)	Niveau sonore	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
Protection des conteneurs	Pressure equalization valve (1400 Pascal / 140 mm WG) to avoid excessive vacuum in the container	Certifications et normes de conception	ISO1496-2 CE ATP AHRI USDA TIR (International Customs Regulations for Containers)
Plage de sélection du point de consigne	-70°C to -10°C (-94°F to -14°F)	Poids de l'unité SuperFreezer	630 kg (1,390 lbs)
Plage de températures ambiantes	-30°C to +37.8°C (-22°F to 100°F)		
Fuite de chaleur requise pour une caisse de 10 pieds	18 Watt/°K @ 20C wall temperature, to ensure set-point at ambient		
Fuite de chaleur requise pour une caisse de 20 pieds	20 Watt/°K @ 20C wall temperature, to ensure set-point at ambient		
PUISSANCE FRIGORIFIQUE À LA TEMPÉRATURE AMBIANTE DE +37,8 °C (100 °F)		ÉLECTRICITÉ	
Au point de consigne -60 °C (-76 °F)	5,850 watt @ 460V/60Hz 5,086 watt @ 400V/50Hz	Alimentation électrique	A/C 400 to 500 Volt 3 phase 60 Hz ±2,5% A/C 360 to 460 Volt 3 phase 50 Hz ±2,5%
Au point de consigne -70 °C (-94 °F)	3,880 watt @ 460V/60Hz 3,344 watt @ 400V/50Hz	Disjoncteur principal	32 Amp
Au point de consigne -30 °C (-22 °F)	8,250 watt @ 460V/60Hz 7,112 watt @ 400V/50Hz	Câble d'alimentation	18.3 m (60 LF) cable (3phase and ground) with CEE17 power plug (32 Amp; ground 3h)
		Puissance absorbée maximale	19 kw during "pull down"
CONTRÔLEUR			
Généralités	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 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's controller set-up using temperature difference between evaporator coil sensor and return air sensor.