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	
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)
Protection des conteneurs	Pressure equalization valve (1400 Pascal / 140 mm WG) to avoid excessive vacuum in the container
Plage de sélection du point de consigne	-70°C to -10°C (-94°F to -14°F)
Plage de températures ambiantes	-30°C to

Caractéristiques	
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
Certifications et normes de conception	ISO1496-2 CE ATP AHRI USDA TIR (International Customs Regulations for Containers)
Poids de l'unité SuperFreezer	630 kg (1,390 lbs)

		+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)		
Au point de consigne -60 °C (-76 °F)		5,850 watt @ 460V/60Hz 5,086 watt @ 400V/50Hz
Au point de consigne -70 °C (-94 °F)		3,880 watt @ 460V/60Hz 3,344 watt @ 400V/50Hz
Au point de consigne -30 °C (-22 °F)		8,250 watt @ 460V/60Hz 7,112 watt @ 400V/50Hz

Électricité		
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%
Disjoncteur principal		32 Amp
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. Temperatur

	e logs are defaulted to 1 hour interval, and user can change to 30 min, 2 or 4 hr interval. Datalogger memory allow 15,000 temperatur e logs When power is disconnect ed, datalogger continue to log temperatur es 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 communicat ion 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 continuousl y monitor health of system and component

	s, 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 temperatur e difference between evaporator coil sensor and return air sensor.