

CSS Magnum Plus

Для свежих или
замороженных продуктов.
Чем быстрее, тем лучше

- Самая низкая температура
- Быстрый выход на режим
- Точное регулирование температуры
- Низкое энергопотребление
- Проверенная технология и простая конструкция
- Глобальная сеть обслуживания

ТЕХНИЧЕСКИЕ ДАННЫЕ

РАСХОД ВОЗДУХА		TECHNICAL SPECIFICATIONS	
Door access	High capacity Refrigeration unit for installation in 10, 20, 40 or 45 containers for stationary applications. All Aluminum "Picture frame" R-404A or R-452A Refrigerant. Charge 4.0 kg (8.8 lbs) Copeland Scroll compressor. Emerson MP4000 controller	Certifications and design standards	Unit allow fresh air exchange to cargo area. Using: Rotating disk in 0-100 m ³ /h. And hinged door for 100 m ³ /h, 150 m ³ /h, 175 m ³ /h, 215 m ³ /h, or 225 m ³ /h. Optional to get sensor and log in datalogger.
Configuration	42 Watt/°K @ 20C wall temperature, to ensure set-point at ambient	Setpoint Range	Soundpower per ISO 3744:2010) is 90.1 dB(A) with set-point -30°C running 400V/50 Hz. 94.9dB(A) with set-point -30°C running 400V/60 Hz.
Optional	Pressure equalization valve (1400 Pascal / 140 mm WG) to avoid excessive vacuum in the container	Ambient temperature Range	ISO1496-2 CE Pharma GDP AHRI ATO (former Sprenger Institute) ATP American Bureau of Shipping, Lloyds and Bureau Veritas USDA TIR (International Customs Regulations for Containers)
Required heat leakage of box	-40°C to +30°C (-40°F to 86°F)		
Container protection	-30°C to +50°C (-22°F to 122°F)		

DIMENSIONS AND WEIGHTS @ AMBIENT TEMPERATURE +37.8°C (100°F)		FEATURES	
At setpoint +1.7°C (35°F)	16,500 watt @ 460V/60Hz 14,220 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 3 phase 50 Hz ±2,5%
At setpoint -17.8°C (0°F)	11,900 watt @ 460V/60Hz 10,260 watt @ 400V/50Hz	At setpoint -30°C (-22°F)	25 Amp
At setpoint -28.9°C (-20°F)	7,200 watt @ 460V/60Hz 6,210 watt @ 400V/50Hz	Capacity on Battery power 0°C	18.3 m (60 LF) cable (4phase and ground) with CEE17 power plug (32 Amp; ground 3h). Control box is equipped with a 3 m cable 230V/16 Amp 3 phase power plug to provide output for light, man-trap alarm
At setpoint -40°C (-40°F)	5,000 watt @ 460V/60Hz 4,310 watt @ 400V/50Hz	Capacity on Battery power -20°C	3 * 1,360 watt electrical resistance heaters. Optional to get 3*2,000 watt heater, and allow cargo temperature +40C
Max heating capacity	3,700 watt @ 460V/60Hz 3,190 watt @ 400V/50Hz		
At setpoint -60°C (-76°F)	5,250 watt @ 460V/60Hz		

COOLING CAPACITY	
Capacity at 50 Hz -20°C	Advanced Microprocessor MP4000 Emerson Controls Temperature control using 5 PT1000 sensors and 1 NTC for compressor. Main control temperature sensors for Supply

and Return air are PT1000 Class A per EN60751:2008 i.e. with accuracy of $\pm 0.15^{\circ}\text{C}$ ($\pm 0.27^{\circ}\text{F}$) Temperature accuracy in "non-optimized energy savings mode": Chilled temperature $\pm 0.25^{\circ}\text{C}$ ($\pm 0.45^{\circ}\text{F}$) Frozen temperature set-points: $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$) 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 other 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). 4 USDA cargo sensor ports with Deutsch receptacles (Option supply of 15m (49 LF) long cables with NTC sensor (accuracy $\pm 0.15^{\circ}\text{C}$ ($\pm 0.27^{\circ}\text{F}$)) 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, via SD-card 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 "Alarm" is active Defrost: To melt ice entering with cargo, and/or from door openings electrical defrost heaters are installed with capacity 4,080 watt @ 460/60Hz and 3,520 watt @ 400V/50Hz. Defrost activates after 2 hour, after that controller monitor coil temperature, and allow upto 48 hour before a timed defrost. Controller monitor between evaporator coil sensor and return air sensor. Dehumidification: Humidity in cargo area can be controlled between 50 and 98 rH%. This is controlled by re-heating the evaporator air with the defrost heaters. Accuracy at rH set-point: 50% to 75%: $\pm 1.5\%$ 75% to 95%: $\pm 3.0\%$