Glen Dimplex Thermal Solutions

Koolant Koolers

WO2-2-10000-2P-NF-L-M-407C
Spec Submittal

The solution to all your cooling needs.

2625 Emerald Drive, Kalamazoo, Michigan 49001
Phone: 800.968.5665 or 269.349.6800 Fax: 269.349.8951

Overview:

WO2-2-10000-2P-NF-L-M-407c (75kW)	
For Use With:	Siemens Vida XT
Standard Chiller	
Siemens Part Number:	DTSWO2210000MR75
Function:	Support medical functions by maintaining process fluid with tight temperature and flow tolerances while meeting the varying heat loads of critical imaging systems.
Features:	• Dual refrigeration circuits and redundant compressors for varying capacity control • Redundant fluid pumps to provide backup in case of a motor failure • Open atmosphere system allows maintenance without interrupting patient care
Coastal Chiller	
Siemens Part Number	DTSWO2210000MR75C
Function:	Protects chiller installed less than 30 miles from salt water coast
Features:	• All “Standard” chiller features plus: • Stainless steel cabinet upgrade • E-Coated condenser coil
Low Ambient Chiller	
Siemens Part Number:	DTSWO2210000MR75L
Function:	Allow chiller operation in ambient ranges of -40°F to 122°F
Features:	• All “Standard” chiller features plus: • Refrigeration heat tape • Additional heater in electrical cabinet • Heater added to fluid reservoir

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General Specifications

WO2-2-10000(801525)		
Width:	IN/CM	136.25/346.07
Height:	IN/CM	84.5/214.63
Depth:	IN/CM	41.7/105.92
Dry weight:	LB/KG	4000/907.18
Operational weight:	LB/KG	4800/1270.06
Max. ambient temperature:	°F/°C	100/37.78
Min. ambient temperature:	°F/°C	-20/-28.89 -40/-40 (Low Ambient)
Condenser air flow approx.:	CFM	24,000
Fluid tank capacity:	GAL/LTR	100/378.54
Coolant connections:	NPTF	2.0”

Fluid Specifications

Coolant:	N/A	Water/glycol 50/50
Coolant outlet temperature:	°F/°C	46/7.78
Coolant temperature accuracy:	°F/°C	3/1.65
Coolant flow:	GPM/LPM	26.5/100
Max coolant pressure:	PSI/BAR	70/4.83

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Refrigeration Specifications

Net cooling capacity:	BTU/kW	255,911/75
Refrigerant:	N/A	R407C
Refrigerant Charge:	LB/KG	58/26.31

Electrical Specifications (460/3/60)

FLA	98A
MOP	150A
MCA	110A
Disconnect Fuses	125A
Compressor FLA	20A
Compressor LRA	101A
Pump FLA	6.6A
Fan FLA	1.2A
Control Voltage	24v AC
SCCR	5kA
Note:	**For 208v or 230v, please consult the manufacturer for specifications!**

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Standard Componentry Details

Cabinet	Galvanized, NEMA 4 electrical enclosure, site glass/fill tube
Circuits	Dual Refrigeration Circuit, Dual Fluid Circuit
Compressor(s)	Two, 7.5hp Hermetic Scroll
Condenser(s)	Two, oversized, air-cooled, with vertical air discharge and cleanable air filters
Evaporator(s)	Two, Copper-brazed, 316 Stainless Steel
Fan(s)	Four, 0.5hp TEFC
Pump(s)	Two, 1.5hp, non-ferrous, centrifugal
Controller	Carel PCOxs controller with Carel pGD remote display with 150' of cable (requires ½" conduit)
Certifications	Compliant with UL1995 standards; OSHPD, CE, and CSA available as options
Also available upon request:	Coastal (800332), Low Ambient (800255), Seismic (800079), Coastal and Seismic (800806), Split System (800757), 230v (800207), 230v and Coastal (800851)

Add-Ons/Options

Filter Flow Meter Kit	Kit that provides filtration and 0-50GPM flow meter on inline piping. Installed indoors between chiller and MR equipment.
Isolation Springs	Set of vibration isolation springs. Recommended to be used when installing a chiller on a roof top. Helps eliminate vibration through the rooftop.
City Water Bypass Panel	Panel that allows switchover to city water backup in case of chiller failure. Multiple types available. Consult DTS for details.
Long Distance Remote Kit	Increases distance remote display can be ran from chiller to MR control room from 150' up to 400'
BMS Card	Card that allows chiller to tie into customer BMS system. Various types available. Consult DTS for details.
Booster Pump	In-line pump that allows chiller to provide adequate flow to process for systems that exceed standard pipe allowances.
Glycol	Propylene or Ethylene available at various concentrations in 55 gallon drums or 5 gallon pails.

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Version	Revision Date	Description of Change	Changes Made By (Name & Title):
001	02/15/2017	Creation of document	Kyle Hastings, Medical Service Manager