

Dimplex

Thermal Solutions

WO2-2-5000-2P-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:

WO2-2-5000-2P-NF-L-407C-M (60kW)	
For Use With:	Siemens Aera XQ, Prisma, Vida XQ, Skyra MRs
Standard Chiller	
Siemens Part Number:	DTSWO2250MR60
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:	<ul style="list-style-type: none"> • 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	DTSWO2250MR60C
Function:	Protects chiller installed less than 30 miles from salt water coast
Features:	<ul style="list-style-type: none"> • All "Standard" chiller features plus: • Stainless steel cabinet upgrade • E-Coated condenser coil
Low Ambient Chiller	
Siemens Part Number:	DTSWO2250MR60L
Function:	Allow chiller operation in ambient ranges of -40°F to 122°F
Features:	<ul style="list-style-type: none"> • All "Standard" chiller features plus: • Refrigeration heat tape • Additional heater in electrical cabinet • Heater added to fluid reservoir

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General Specifications

WO2-2-5000			
	Units	Original	New
Width:	IN/CM	138/351	134.5/341.6
Height:	IN/CM	84.5/215	87.7/222.8
Depth:	IN/CM	44/112	44/112
Dry weight:	LB/KG	3500/1587.57	3500/1587.57
Operational weight:	LB/KG	4300/1950.45	4300/1950.45
Max. ambient temperature:	°F/°C	122/50	122/50
Min. ambient temperature:	°F/°C	-20/-28.89 -40/-40 (Low Ambient Model)	-20/-28.89 -40/-40 (Low Ambient Model)
Condenser air flow approx.:	CFM	18,000	18,000
Fluid tank capacity:	GAL/LTR	100/378.54	80/302.83
Coolant connections:	NPTF	2.0"	2.0"

Fluid Specifications

Coolant:	N/A	Water/glycol 50/50
Coolant outlet temperature:	°F/°C	48/8.9
Coolant temperature accuracy:	°F/°C	±3/±1.7
Coolant flow:	GPM/LPM	26+/-2 / 100+/-10
Max coolant pressure:	PSI/BAR	70/4.83

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Refrigeration Specifications

Net cooling capacity:	BTU/kW	204,720/60
Refrigerant:	N/A	R407C
Refrigerant Charge:	LB/KG	58/26.31

Electrical Specifications (460/3/60)

	Original	New
FLA	67A	61A
MOP	80A	70A
MCA	70A	64A
Main Power Protection	80A (Fuse)	70A (Circuit Breaker)
Compressor FLA	10.4A	10.4A
Compressor LRA	72A	72A
Pump FLA	6.6A	7.0A
Fan FLA	1.2A	1.6A
Control Voltage	24VAC	24VDC
SCCR	5kA	5kA
Note:	For 208v or 230v, please consult the manufacturer for specifications!	

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Standard Componentry Details

	Original	New
Cabinet	Galvanized, NEMA 4 electrical enclosure, site glass/fill tube	
Circuits	Dual Refrigeration Circuit, Dual Fluid Circuit	
Compressor(s)	Four, 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	Single Copper-brazed, 316 Stainless Steel
Fan(s)	Four, 0.5hp TEFC	Two, 1.15kW (1.5hp)
Pump(s)	Two, 5hp, non-ferrous, vertical centrifugal	Two, 5.5hp non-ferrous, horizontal centrifugal
Controller	Carel PCO5 controller	
Certifications	Compliant with UL1995 standards; OSHPD, CE, and CSA available as options	
Also available upon request:	Coastal, Seismic, Low Ambient, Remote condenser	

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.

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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.

Version	Revision Date	Description of Change	Changes Made By (Name & Title):
001	02/15/2017	Creation of document	Kyle Hastings, Medical Service Manager
002	07/13/2021	Add specs for updated design	Ben Post, Project Engineer

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