



Project: STOCK	Consultant: Fernando Hidalgo
	Date: 6/7/23 10:01 AM
PRICE SUMMARY	

Tag	Model	Location	Qty	Net
	DCLCH46H44FDV		2	

Centrifugal - DCLC400MFDH464E - DCLCH46H44FDV [DCLC400MFDH464E]

Description	List	Net
Tag - P17-B.C.Mexicali-Oficinas delegacionales ▪ Manufacturer DBUSA ▪ Base Price of DCLCH46H44FDV [DCLC400MFDH464E]. ▪ BAC : BACnet MSTP ▪ Capacity (Tons): 325.00, Input power (kW): 175.04, Refrigerant: R-134a ▪ Evaporator: Fluid flow (USgpm): 780.8, EFT (°F): 55.0, LFT (°F): 45.0, Pressure drop (psi): 7.4, Fouling factor (h·ft²·°F/Btu): 0.00010, Fluid: Water ▪ Condenser: Fluid flow (USgpm): 890.2, EFT (°F): 85.0, LFT (°F): 95.0, Pressure drop (psi): 9.9, Fouling factor (h·ft²·°F/Btu): 0.00025, Fluid: Water		
Unit List / Net Adds		

Shipped loose items

Description	List	Net
EDPTUL : Water flow switch Differential pressure transducer with UL approval- EVAP		
Shipped Loose List / Net Adds		
Total List/Net Adds		
Net Total (1 count at 1.0 mult)		



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PERFORMANCE SUMMARY	Tag: CHILLER DCLC M MY-4
	Location:



Magnetic Centrifugal Compressor Water Cooled Package Chiller

Model #	DCLC400MFDH464E	Rating version	DCLC1.30
Quantity	1	Refrigerant	R-134a
Manufacturer	DBUSA	Design Type	AT3

Physical Specifications

Compressor(s)	TT700	Height (in)	82.28
Length (in)	153.27	Shipping weight (lb)	9403
Width (in)	48.82	Operating weight (lb)	10549
		Approx. refrigerant charge (lb)	928

Conditions of service

Percent of full load	100%	Unit power (kW)	175.0
Capacity (Tons)	325.0	Cooling Efficiency (kW/Ton)	0.5385
		NPLV.IP (kW/Ton)	0.3664

Evaporator

Model (Qty)	H46(1)
Number of passes	2
Fluid	Water
Fluid flow rate (USgpm)	780.8
Entering fluid temp. (°F)	55.00
Leaving fluid temp. (°F)	45.00
Fouling factor (h·ft ² ·°F/Btu)	0.000100
Pressure drop (psi/ft.H ₂ O)	7.42/17.1
Fluid freezing point (°F)	32.00

Condenser

Model (Qty)	H44(1)
Number of passes	2
Fluid	Water
Fluid flow rate (USgpm)	890.2
Entering fluid temp. (°F)	85.00
Leaving fluid temp. (°F)	95.00
Fouling factor (h·ft ² ·°F/Btu)	0.000250
Pressure drop (psi/ft.H ₂ O)	9.87/22.8
Fluid freezing point (°F)	32.00

Electrical characteristics

Unit power supply	460V/3/60	Unit Running Current (Amp)	283
Motor starter mode	VFD	Unit Min. Circuit Ampacity (Amp)	318
		Unit Max. Fuse Size (Amp)	500

Notes

- Meets ASHRAE 90.1-2016 Path A and Path B chiller minimum efficiency guidelines
- Certified in accordance with the AHRI Water Cooled Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle Certification Program, which is based on AHRI Standard-550/590(I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

NPLV.IP Points

% Full load	Tons	Unit kW	kW/Ton	Evap.EFT (°F)	Evap.LFT (°F)	Evap Flow(USGp)	Evap PD(psi)	Cond.EFT (°F)	Cond.LFT (°F)	Cond Flow(USGp)	Cond PD(psi)	Type
100%	325.0	175.0	0.5385	55.00	45.00	780.8	7.42	85.00	95.00	890	9.866	Actual
75%	243.8	114.2	0.4685	52.50	45.00	780.8	7.54	74.97	82.44	890	10.03	Actual
50%	162.5	51.84	0.3188	50.00	45.00	780.8	7.69	65.00	69.80	890	10.38	Actual
25%	81.25	24.23	0.2979	47.50	45.00	780.8	7.82	65.00	67.38	890	10.38	Actual



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PERFORMANCE SUMMARY	Tag: CHILLER DCLC M MY-4
	Location:



Part load points												
% Full load	Tons	Unit kW	kW/Ton	Evap.EFT (°F)	Evap.LFT (°F)	Evap Flow(USgp)	Evap PD(psi)	Cond.EFT (°F)	Cond.LFT (°F)	Cond Flow(USGp)	Cond PD(psi)	Type
100%	325.0	175.0	0.5385	55.00	45.00	780.8	7.42	85.00	95.00	890	9.866	Actual
90%	292.5	143.5	0.4906	54.00	45.00	780.8	7.46	80.99	90.17	890	9.844	Actual
80%	260.0	117.9	0.4535	53.00	45.00	780.8	7.54	76.98	85.01	890	9.969	Actual
70%	227.5	92.85	0.4079	52.00	45.00	780.8	7.60	72.96	79.87	890	10.10	Actual
60%	195.0	71.74	0.3677	51.00	45.00	780.8	7.66	68.95	74.77	890	10.24	Actual
50%	162.5	51.84	0.3188	50.00	45.00	780.8	7.69	65.00	69.80	890	10.38	Actual
40%	130.0	34.70	0.2669	49.00	45.00	780.8	7.77	65.00	68.81	890	10.38	Actual
30%	97.50	25.66	0.2636	48.00	45.00	780.8	7.83	65.00	67.86	890	10.38	Actual
20%	65.00	17.18	0.2646	47.00	45.00	780.8	7.81	65.00	66.89	890	10.38	Actual
Standard Equipment												
Code compliance						Refrigerant Specialties						
▪ Certified in accordance with the AHRI Water-Chilling Packages Using the Vapor Compression Cycle Certification Program ▪ ASME pressure vessel code						▪ Evaporator sight glass ▪ Replaceable filter core						
Evaporator/Condenser												
▪ Cleanable integral fin copper tubes ▪ Removable water headers ▪ Victaulic groove water connections						▪ Relief valves ▪ Water flow switch (1nos) shipped loose for Evap. ▪ Evaporator 25mm insulation						
Standard Electrical Components						Units						
▪ Single power point connection ▪ Main power supply monitoring module. Protection on under or over voltage, phase reversal,phases losses and imbalance ▪ Transformer for control voltage						▪ One(1) year warranty limited to parts only ▪ R134a refrigerant charged ▪ Liquid isolation valves						
Unit Protection												
▪ High condensing pressure and low evaporating pressure ▪ Freeze protection ▪ Motor over current ▪ Chilled water flow loss						▪ Sensor fault ▪ Compressor high motor temperature ▪ Compressor surge protection						
Controls						Compressor						
▪ DB Director(DDC controller) with color touch screen graphical user interface. ▪ Built-in communication protocol(Modbus RS485) ▪ Programmable unit Operating Schedule ▪ Alarm histories ▪ Compressors rotation						▪ Semi-Hermetic centrifugal compressor ▪ Magnetic bearing oil free ▪ 2 Stage impeller ▪ Direct driven with permanent magnet DC motor ▪ VFD operation with inlet guide vane						
Readouts Status												
▪ Leaving and entering chilled water temperature ▪ Leaving and entering condenser water temperature ▪ Evaporator and condenser refrigerant pressure ▪ Percentage of motor current ▪ Cavity Temperature						▪ Compressor status ▪ Water flow status ▪ Unit Start/stop command ▪ Compressors run hours						

CERTIFIED DRAWING
U0423 - IMSS Nacionales

ALL DIMENSIONS ARE IN MILLIMETER-INCHES

DRAWN BY	DARIAN PACE	DATE	2/27/2024
DESIGNED BY	DARIAN PACE	DATE	2/27/2024
CHECKED BY		DATE	
APPROVED BY		DATE	

1.1 Update dimensional changes 6/24 DP

REV	DESCRIPTION	DATE	DRN BY
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LOCATION.

QTY. 6

MODEL DCLC400MFDH464E

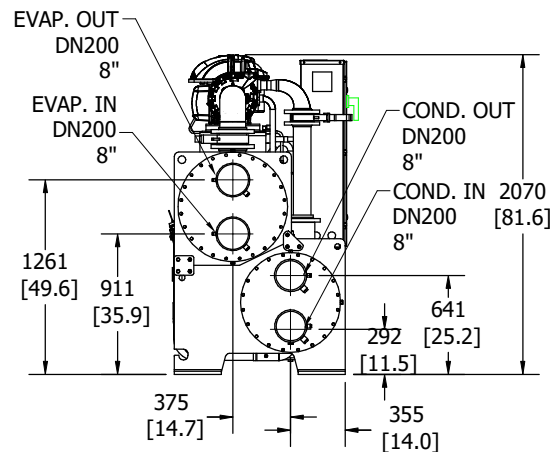
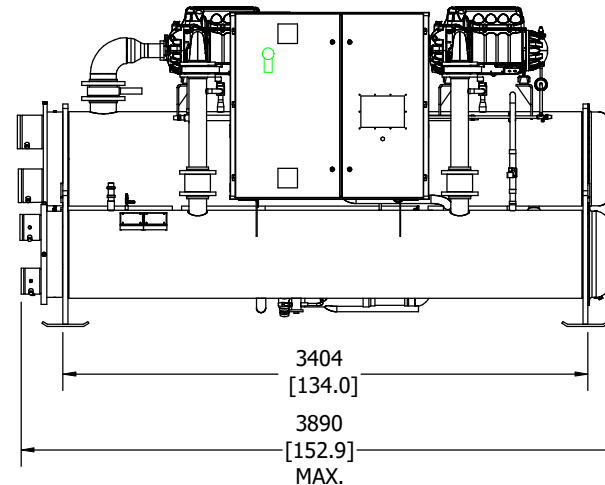
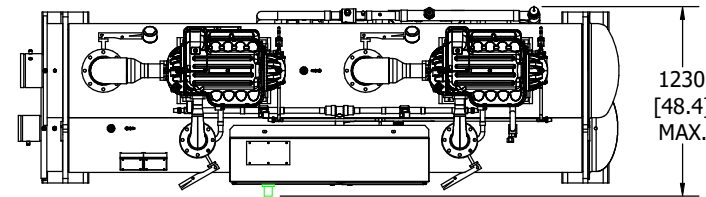
PROJECT

TITLE

UNIT DIMENSIONAL

DRAWING NO 93909G-700
REV: 1.1

SCALE : N. T. S. SHEET 1 OF 1



NOTES:

1. FLEXIBLE CONNECTOR IS NECESSARY BETWEEN THE WATER PIPE AND COOLER/CONDENSER, NEVER ADD ANY LOAD ON THE CHILLER.
2. THE FOUNDATION MUST BE HORIZONTAL AND FLAT. LEVELING TOLERANCE SHOULD BE WITHIN 3MM.
3. THE CHILLED WATER AND CONDENSER WATER SHOULD BE CLEANED AND NO CONTAMINANTS.
4. THE WATER FLOW SWITCH (IF APPLICABLE) SHOULD BE INSTALLED AT WATER OUTLET PIPING.
5. PLEASE REFER THE INSTALLATION MANUAL FOR INSTALLATION.
6. THE MINIMUM MAINTENANCE LENGTH FOR PULLING OUT THE TUBES FROM HEAT EXCHANGER IS 3500mm (137.8").
7. TOLERANCE FOR ALL DIMENSIONS $\pm 3/4"$ (19.1mm).
8. UNIT LAYOUT SHOWN IS FOR REFERENCE ONLY. SOME ORIENTATIONS MAY VARY.
9. ALL DIMENSIONS ARE IN mm (INCHES). MAJOR UNIT DIMENSIONS IN mm ARE ROUNDED TO CLOSEST ZERO.
10. THE RIGGING HOLES AT COMPRESSOR MOTOR AND VESSELS ARE USE FOR RIGGING THOSE COMPONENTS ONLY. PLEASE REFER TO INSTALLATION MANUAL FOR CHILLER RIGGING INSTRUCTIONS.
11. SPRING ISOLATOR IS AN OPTIONAL ITEM. SPRING ISOLATOR HEIGHT IS ABOUT 165mm.
12. VESSEL HEADER CONSTRUCTION CAN BE DOME HEAD OR FLAT HEAD.
13. MAIN INCOMING ISOLATOR HANDLE IS REMOVABLE DURING SHIPPING.
14. COMPRESSOR ISOLATION VALVE IS AN OPTIONAL ITEM.
15. ESTIMATED SHIPPING WEIGHT AND OPERATING WEIGHT REFER TO SPEC. REFER PACKING LIST FOR ACTUAL WEIGHT.