



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

Tag	Model	Location	Qty	Net
	DCLCH61H61FTV		1	

Centrifugal - DCLC600MFTH611E - DCLCH61H61FTV [DCLC600MFTH611E]

Description	List	Net
Tag - P-17-Guerrero-Acapulco HGR 1 ▪ Manufacturer DBUSA ▪ Base Price of DCLCH61H61FTV [DCLC600MFTH611E]. ▪ BAC : BACnet MSTP ▪ Capacity (Tons): 500.00, Input power (kW): 264.77, Refrigerant: R-134a ▪ Evaporator: Fluid flow (USgpm): 1,200.0, EFT (°F): 55.0, LFT (°F): 45.0, Pressure drop (psi): 11.1, Fouling factor (h·ft²·°F/Btu): 0.00010, Fluid: Water ▪ Condenser: Fluid flow (USgpm): 1,371.1, EFT (°F): 85.0, LFT (°F): 95.0, Pressure drop (psi): 9.4, 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-5
	Location:



Magnetic Centrifugal Compressor Water Cooled Package Chiller

Model #	DCLC600MFTH611E	Rating version	DCLC1.30
Quantity	1	Refrigerant	R-134a
Manufacturer	DBUSA	Design Type	AT3

Physical Specifications

Compressor(s)	TT700	Height (in)	90.55
Length (in)	173.39	Shipping weight (lb)	13953
Width (in)	73.98	Operating weight (lb)	16239
		Approx. refrigerant charge (lb)	1,484

Conditions of service

Percent of full load	100%	Unit power (kW)	264.8
Capacity (Tons)	500.0	Cooling Efficiency (kW/Ton)	0.5296
		NPLV.IP (kW/Ton)	0.3366

Evaporator

Model (Qty)	H61(1)
Number of passes	2
Fluid	Water
Fluid flow rate (USgpm)	1200
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)	11.1/25.5
Fluid freezing point (°F)	32.00

Condenser

Model (Qty)	H61(1)
Number of passes	2
Fluid	Water
Fluid flow rate (USgpm)	1371
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)	9.37/21.6
Fluid freezing point (°F)	32.00

Electrical characteristics

Unit power supply	460V/3/60	Unit Running Current (Amp)	424
Motor starter mode	VFD	Unit Min. Circuit Ampacity (Amp)	460
		Unit Max. Fuse Size (Amp)	700

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%	500.0	264.8	0.5296	55.00	45.00	1200	11.1	85.00	95.00	1371	9.370	Actual
75%	375.0	171.0	0.4560	52.50	45.00	1200	11.2	74.97	82.43	1371	9.545	Actual
50%	250.0	69.16	0.2768	50.00	45.00	1200	11.4	65.00	69.80	1371	9.874	Actual
25%	125.0	36.98	0.2960	47.50	45.00	1200	11.7	65.00	67.38	1371	9.874	Actual



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PERFORMANCE SUMMARY

Tag: CHILLER DCLC M MY-5

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%	500.0	264.8	0.5296	55.00	45.00	1200	11.1	85.00	95.00	1371	9.370	Actual
90%	450.0	215.6	0.4791	54.00	45.00	1200	11.1	80.99	90.13	1371	9.364	Actual
80%	400.0	172.6	0.4315	53.00	45.00	1200	11.2	76.98	84.94	1371	9.483	Actual
70%	350.0	132.5	0.3786	52.00	45.00	1200	11.3	72.96	79.87	1371	9.608	Actual
60%	300.0	101.6	0.3387	51.00	45.00	1200	11.4	68.95	74.77	1371	9.738	Actual
50%	250.0	69.16	0.2768	50.00	45.00	1200	11.4	65.00	69.80	1371	9.874	Actual
40%	200.0	54.58	0.2730	49.00	45.00	1200	11.6	65.00	68.81	1371	9.874	Actual
30%	150.0	39.39	0.2627	48.00	45.00	1200	11.6	65.00	67.85	1371	9.874	Actual
20%	100.0	21.56	0.2160	47.00	45.00	1200	11.7	65.00	66.89	1371	9.874	Actual
10%	50.00	16.33	0.3261	46.00	45.00	1200	11.7	65.00	65.94	1371	9.874	Actual

Standard Equipment**Code compliance**

- Certified in accordance with the AHRI Water-Chilling Packages Using the Vapor Compression Cycle Certification Program
- ASME pressure vessel code

Refrigerant Specialties

- 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

- 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

Units

- 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

- 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

Compressor

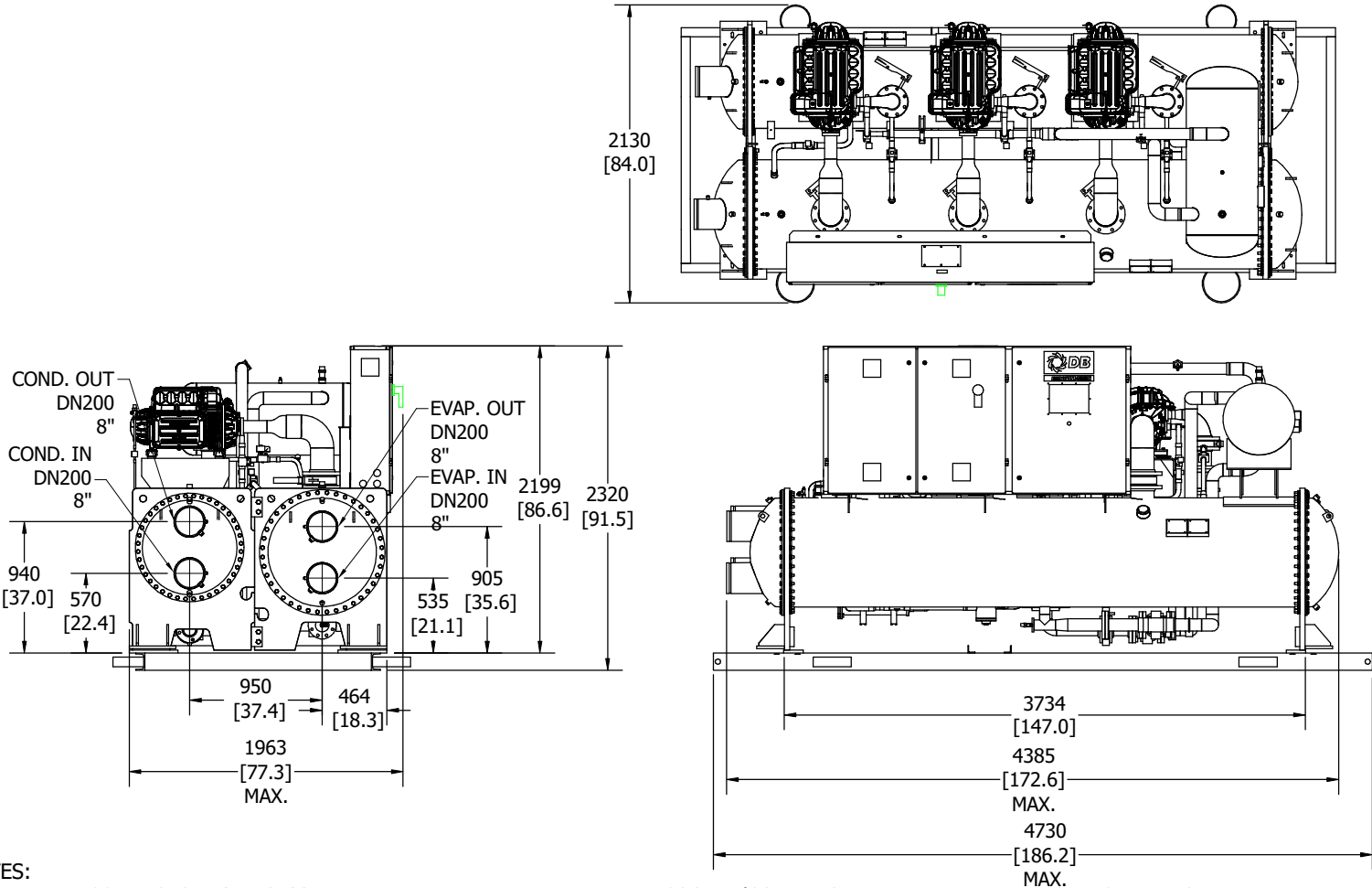
- Semi-Hermetic centrifugal compressor
- Magnetic bearing oil free
- 2 Stage impeller
- Direct driven with permanent magnet DC motor
- VFD operation with inlet guide vane

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 Nacionalles



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 3800mm (149.6").
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 175mm.
12. VESSEL HEADER CONSTRUCTION CAN BE DOME HEAD OR FLAT HEAD.
13. THE CHILLER IS SHIPPED WITH BASE FRAME (FOR CONTAINER SHIPPING ONLY). PLEASE REMOVE THE BASE FRAME WHEN INSTALLING THE CHILLER AT JOB SITE.
14. MAIN INCOMING ISOLATOR HANDLE IS REMOVABLE DURING SHIPPING.
15. COMPRESSOR ISOLATION VALVE IS AN OPTIONAL ITEM.
16. ESTIMATED SHIPPING WEIGHT AND OPERATING WEIGHT REFER TO SPEC. REFER PACKING LIST FOR ACTUAL WEIGHT.

ALL DIMENSIONS ARE IN MILLIMETER-INCHES

DRAWN BY	DARIAN PACE	DATE	3/6/2024
DESIGNED BY	DARIAN PACE	DATE	3/6/2024
CHECKED BY		DATE	
APPROVED BY		DATE	

REV	DESCRIPTION	DATE	DRN BY
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LOCATION.

QTY. 1

MODEL DCLC600MFT611E

PROJECT

TITLE

UNIT DIMENSIONAL

DRAWING NO 93909G-714

REV: 1.0

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