

Project: Factory Loading	Consultant:
Location:	Date:

Location:

Tag: Oct ACDS060 575V

CERTIFIED

www.ahridirectory.org

Air-Cooled Water Chilling Packages
AHRI Standards 550/590 and 551/591

PERFORMANCE SUMMARY

S	croll Compressor Air	Cooled Package Chiller	
Model # Quantity Manufacturer	2	Rating version	ACDS060ASGS ACDG14 DBUSA
	Physical Sp	ecifications	
Compressor Qty Length (in) Width (in) Height (in)	4 116.00 89.00 88.00	Shipping weight (lb) Operating weight (lb) Refrigerant Approx. refrigerant charge (lb)	3,957 3,996 R-410a 152
	Conditions	s of service	
Percent of full load Capacity (Tons) Unit power (kW)	100% 67.26 78.79	Compressor power (kW) Total Fan Power (kW) Cooling Efficiency (EER, Btu /W.hr) IPLV.IP (EER, Btu /W.hr)	69.19 9.600 10.24 15.50
	Evap	orator	
Fluid Fluid flow rate (USgpm) Entering fluid temp. (°F)	Water 160.9 54.00	Leaving fluid temp. (°F) Fouling factor (h·ft²-°F/Btu) Pressure drop (psi/ft.H2O) Fluid freezing point (°F)	44.00 0.000100 8.14/18.8 32.00
	Cond	enser	
Design ambient (°F)	95.0	Altitude (ft) Fan Motor Power (kW) (Qty)	0.000 2.400 (4)
	Electrical ch	aracteristics	
Unit power supply Control power Unit max. fuse/HACR CB size (A) Unit rated load amps	575V/3ph/60Hz 115V/1ph/60Hz 125.0 101.0	Unit min. circuit ampacity (A) Unit max inrush Comp. rated load amps (A) Comp. locked rotor amps (A)	107.0 251.0 19.0(2) / 25.0(2) 135.0(2) / 175.0(2)

Notes

- 575v Basic unit is offered with CRN approval if Shell & Tube is chosen.
- Certified in accordance with the AHRI Air Cooled Water-Chilling 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.
- Meets ASHRAE 90.1-2019 Path A chiller minimum efficiency guidelines
- Please consult factory for lead time.
- Refrigerant charge may vary. Unit nameplate will show final factory charge.
- The electrical data is being projected base on 95F ambient temperature, Please consult factory for all other ambient temperature

	IPLV.IP Points at Standard AHRI Rating Conditions							
% Full load	Tons	Unit kW	Comp. kW	Fan kW	Evap. EFT	Evap. LFT	EER	Ambient(°F)
100%	67.26	78.79	69.19	9.600	54.00	44.00	10.24	95.0
75%	50.44	46.09	37.42	8.670	51.50	44.00	13.13	80.0
50%	33.63	24.05	19.52	4.530	49.00	44.00	16.78	65.0
25%	16.81	10.41	8.230	2.180	46.50	44.00	19.38	55.0
	Sound Data							

Sound Data									
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	Total dB(A)
Sound Pressure Level (free field) at 32.80 ft	32	42	49	57	60	59	58	52	65

*Sound Pressure Level (free field) ± 2 dB(A) Tolerance

Standard Equipment

Unit Construction

- Hermetic Scroll Compresssors
- Unit shall be constructed of heavy gauge G90 galvanized steel
 All sheet metal parts are painted with oven baked enoxy /
- All sheet metal parts are painted with oven baked epoxy / polyester powder paint, sustaining 1000 hour salt spray test in
- Strap on belt type crankcase heater or sump heater
- Compressor staging on all units
- One (1) year warranty. (Factory provides standard warranty of

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AHRI Standards 550/590 and 551/5

accordance with ASTM B-117

Control panel IP54

12 months from start up or 18 months from shipment date whichever occurs first. Limited to parts replacement only and excludes freight, taxes/duties, labours, consumable items, etc. Machine must be well maintained by DB authorized service representative.)

Air Cooled Condenser

- None
- Subcooling circuit(s)
- Direct drive fans with internal motor protection
- Standard operation to 45°F ambient using fan cycling

Evaporator

- Braze Plate Heat Exchanger(Optional Shell & Tube Heat Exchanger)
- Single and True Dual Evaporator
- Plate material AISI 316
- Fully insulated

Code Compliance

- Units conform to NEC, NEMA, ANSI/ASHRAE 15
- Units conform and certified to ANSI/UL Std. 1995 & CAN/CSA Std. C22.2 No.236 (ETL Listed)

Controls

- DB Director microcomputer controller on all models
- Two line 16 character alpha numeric display control functions
- Compressor loading/staging based on leaving fluid temperature
- Evaporator fluid freeze protection
- High and low pressure protection
- Staggered starting of compressors

- · Anti-recycle timing in controller
- Fan cycling
- Accepts remote start & stop signal
- 0 to 5 VDC chilled water reset signal (standard)
- Keyboard accessed LCD readouts, continuously updated
- Discharge and suction pressure for all circuits

Optional Equipment/Service Included

Factory Mounted Options Included

- Hot Gas By-Pass
- Protective grille condenser (LUV). For the maximum protection of condenser fins.

Accessories (Shipped Loose)

 Rubber-in-shear isolators (RIS) - designed for ease of installation, these rubber, one piece, molded isolators have skid resistant baseplates. Applicable for most installations.

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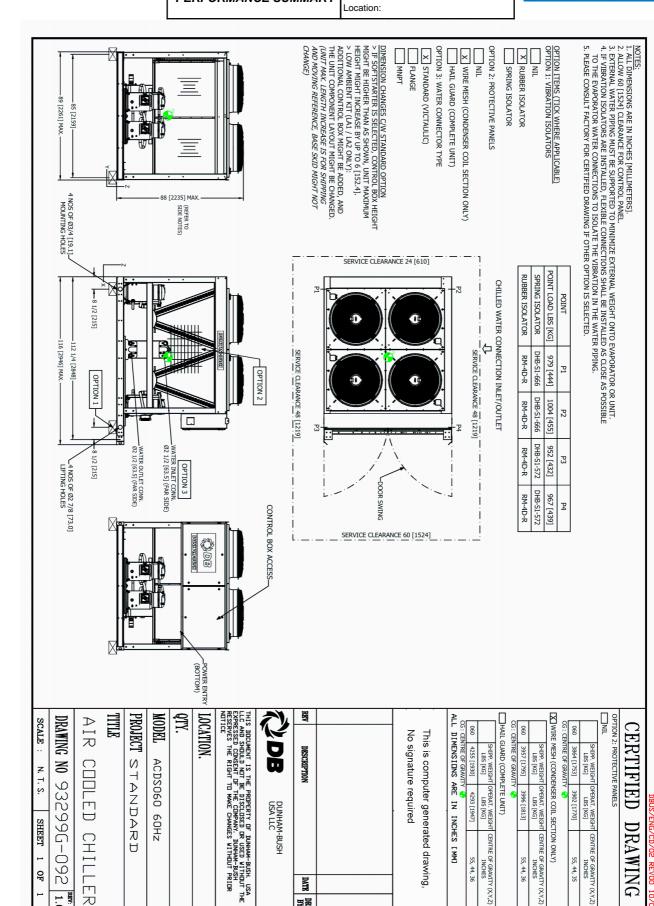


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DUNHAM-BUSH USA LLC

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SHEET

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CHILL

LER

ARE IN INCHES [MM]

4293 [1947]

CENTRE OF GRAVITY (X,Y,Z)
INCHES

55, 44, 36

T OPERAT. WEIGHT LBS [KG]

CENTRE OF GRAVITY (X,Y,Z)
INCHES

3996 [1813]

55, 44, 36

OPERAT. WEIGHT LBS [KG]

CENTRE OF GRAVITY (X,Y,Z)
INCHES

DRAWING

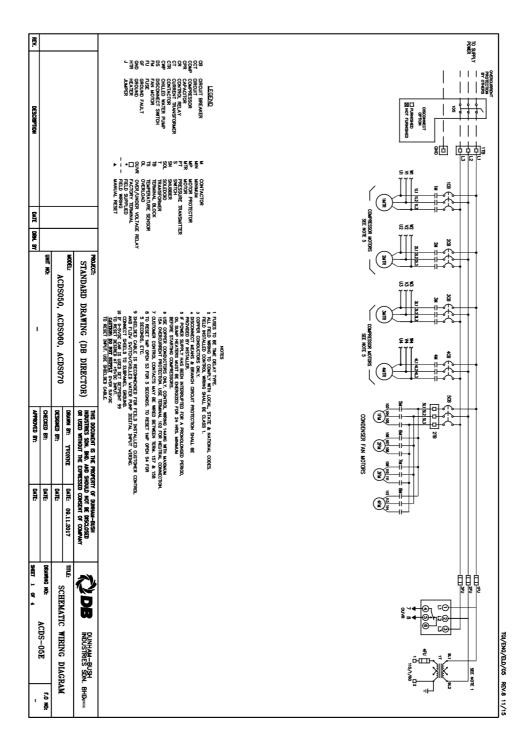
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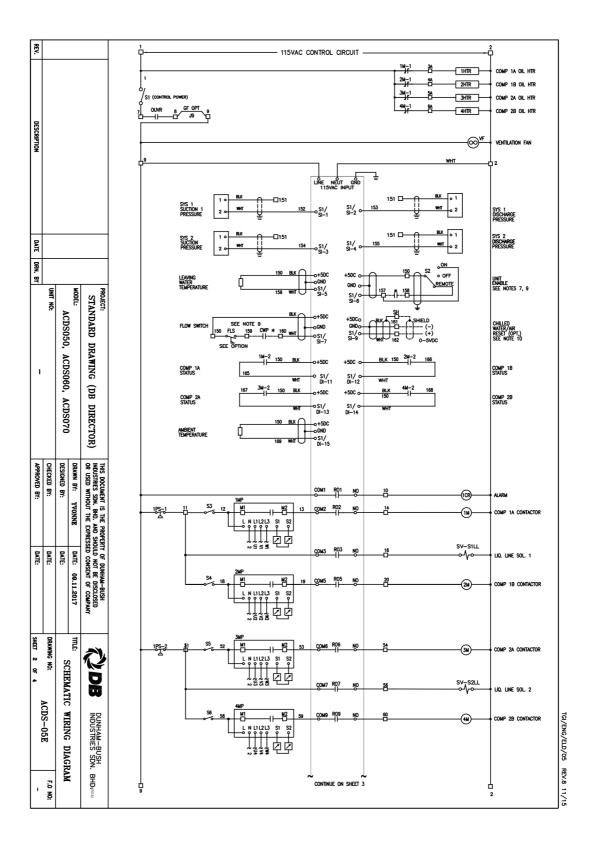
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UNIT MFS	UNIT MCA	UNIT RLA	CONDENSER FAN MOTORS 1 TO 10		COMPRESSOR MOTORS 2A TO 2C		COMPRESSOR MOTORS 1A TO 1C		POWER SUPP	MODEL
			2	W	LRA	2	IRA	2	Ρ̈́Υ	
350A	315A	304A	4.0A	2.4	260A	444	260A	444	460V/HPE/V034	ACDS150ARGS

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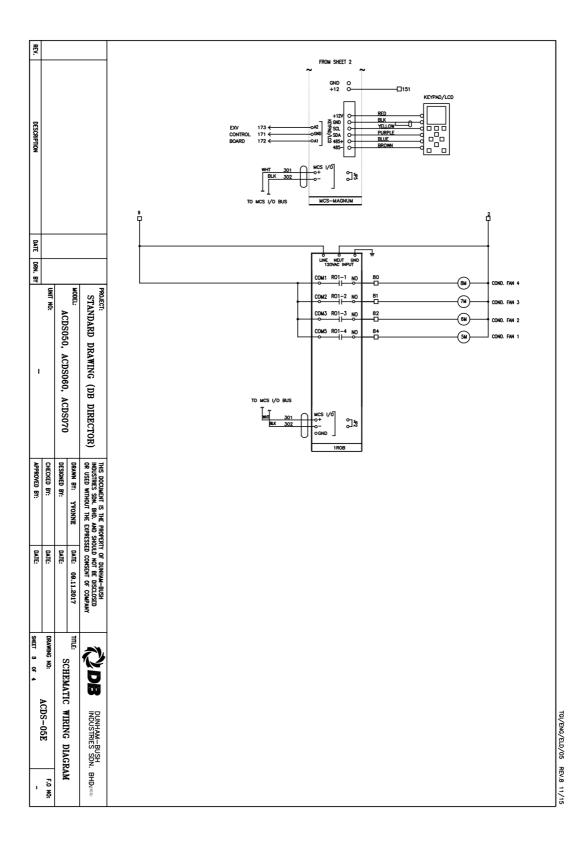


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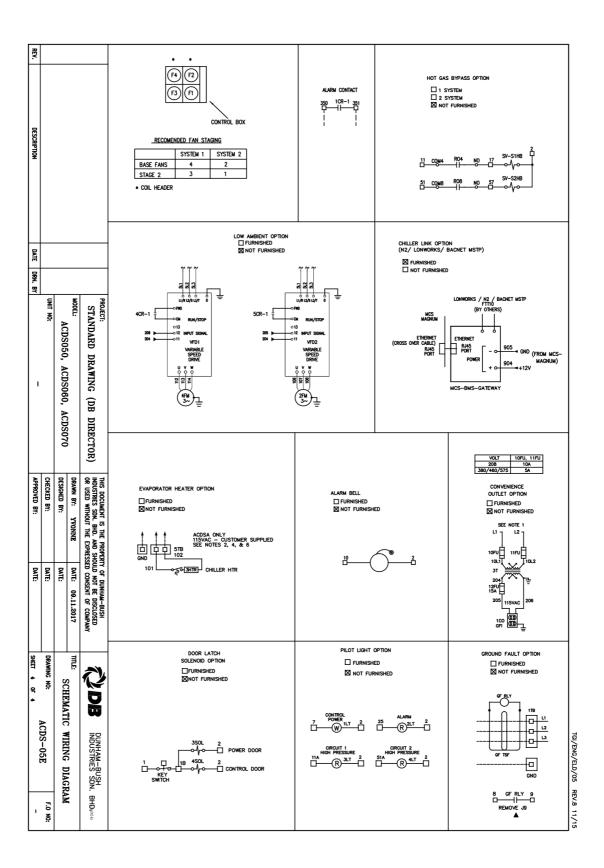
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