

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 2/4/2025

Return Request: 2/14/2025

Project: City Of Sherwood Public Works (Maintenance Building)

Supplier: Harrison Energy Partners

Manufacturer: Daikin

Submittal: Split Systems Air Conditioners

Submittal Number: 23 81 23-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Cromwell 1300 East 6th Street Little Rock, AR 72202 501-372-2900

GENERAL CONTRACTOR

Baldwin & Shell 1000 W. Capitol Ave. Little Rock, AR 72201 501-374-8677

ENGINEER

Cromwell 1300 East 6th Street Little Rock, AR 72202 501-372-2900

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

Notes:				

CSUSA PROJECT NO. 24-6084

sean@comfortar.com

Submittal



Prepared For: Date:
Cromwell Architects Engineers 12/10/2024

Sold To: Job Name:

Comfort Systems USA Sherwood Public Works

Harrison Energy Partners is pleased to provide the enclosed submittal for your review and approval.

Qty. Product Summary

3 Air Handler / Condensing Unit (AHU/CU-1,2,3)

1501 Westpark Dr., Ste. 9 • Little Rock, AR 72204

Josh Robinson, New Systems Sales
501-539-0633 • <u>harrisonenergy.com</u> **Harrison** Energy Partners • Commercial HVAC Excellence

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Daikin Air Handler / Condensing Units (AHU/CU-1,2,3)

- Condensing Unit / Air Handler
- 208V/60Hz/3 Ph
- 10 Ton Nominal Capacity
- 2 Stage Cooling



Submittal Data Sheet

16.4 IEER A/C R32, 10 Ton 208/230V 3PH - DC6TE12030

Project: City of Sherwood - Public Works

Submitted by: Ronald Holt of HARRISON ENERGY PARTNERS on 12/19/2024

STANDARD FEATURES

 Two-Stage tandem compressor design Quiet operating top discharge High-efficiency copper tube / aluminum fin coil Brass liquid and suction service valves High- and low-pressure switches Factory-installed filter drier Complies with ASHRAE 90.1 AHRI Certified; ETL Listed

CABINET FEATURES

- Innovative sound control top design
- Steel louver coil guard protects the coil from damage and adds strength to unit
- Bottom pan rails elevate unit above slab
- Heavy-gauge galvanized-steel cabinet
- Attractive Nickel Gray powder-paint finish
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



Submittal Date: 12/19/2024 3:59:30 PM

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Submittal Data Sheet

16.4 IEER A/C R32, 10 Ton 208/230V 3PH - DC6TE12030

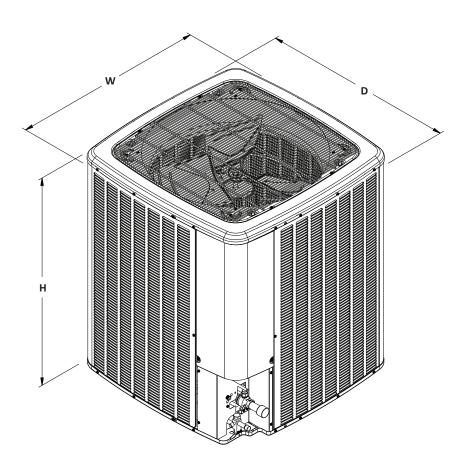
Project: City of Sherwood - Public Works

Submitted by: Ronald Holt of HARRISON ENERGY PARTNERS on 12/19/2024

PERFORMANCE COMBINATION (HSVTC)	* VALUES SHOWN ARE FOR AHRI RATED HIGH SALES VOLUME TESTED			
Outdoor Unit Model No.	DC6TE12030	Outdoor Unit Name:	16.4 IEER A/C R32, 10 Ton 208/230V 3PH	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): / Ambient (°F DB/WB): /	
* EER:	11.40	* EER2:		
* SEER:		* SEER2:		
* Rated Cooling Capacity (Btu/hr):	118,000			

OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208/230 / 60 / 3	Compressor Stage:	Two Stage
Min. Circuit Amps MCA (A):	45.9	Suction Valve Connection Size (inch):	1-1/8
Max Overcurrent Protection (MOP) (A):	60	Liquid Valve Connection Size (inch):	5/8
Running Load:	17.3	Sound Power () (dBA):	
Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	55 - 125
Holding Refrigerant Charge (ozs):	110	Heating Operation Range (°F DB):	-
Additional Charge (ounces/ft):	1.62	Max. Pipe Length (Vertical) (ft):	25
Pre-charge Piping (Length) (ft):	15	Min. Cooling Range w/Baffle (°F DB):	
Max. Pipe Length (Total) (ft):	150	Min. Heating Range w/Baffle (°F DB):	
Net Weight (lb):	350	Gross Weight (lb):	394
Dimensions (HxWxD) (in):	41.5 x 35.5 x 35.5		

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	Montic	DIMENSIONS			
	MODELS	w"	D"	Н"	
	DC6TE09030A*	35½"	35½"	41½"	
	DC6TE09040A*	35½"	351/3"	411/3"	
_	DC6TE12030A*	35½"	35½"	41½"	
,	DC6TE12040A*	351/2	351/2	41/2	



DAQ COMMERCIAL

FOR 7½ & 10-TON SPLIT SYSTEMS



R32

■ Standard Features

- TXV Control; Units have two (2) thermal expansion valves
- DAQ units feature two 5-speed direct-drive motors
- Copper tube/aluminum fin coils
- AHRI Certified; ETL Listed
- R-32 leak mitigation system

■ Cabinet Features

- Heavy-gauge, reinforced, galvanized-steel cabinet
- Fully insulated with fiberglass blanket
- Horizontal and vertical condensate pans
- Built-in filter rack (2" filter included)
- Entry on top of panel for both low and high voltage
- Removable access panels make servicing of unit faster and easier







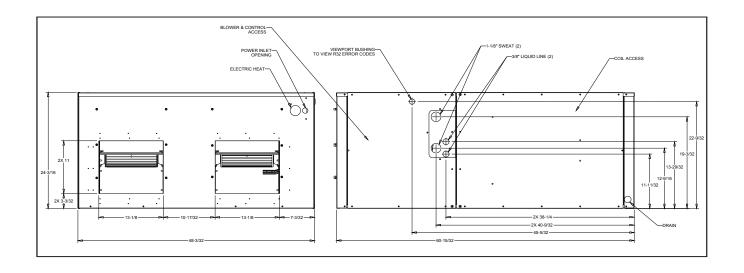




^{*} Complete warranty details available from your local dealer or at www.daikincomfort.com.

Notage				~~~~
Nominal Cooling (Tons) 1 7.5 7.5 10 10 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15, 20, 30, 30 15		DAQ09033**	DAQ09034**	DAQ12033** DAQ12034**
Heating (kW)	TOTAL CAPACITIES			Y K
Standard	Nominal Cooling (Tons) 1	7.5	7.5	10 2 10
Voltage-Hz-Phase 208/230-60-3 460-60-3 208/230-60-3 460-60-3 Voltage Range 197 - 253 414-506 197 - 253 414-506 FLA (Total) 13.8 4.6 13.8 4.6 Minimum Circuit Ampacity 15.5/15.5 5.2 15.5/15.5 5.2 Biower Motor Type Direct-Drive Direct-Dri	Heating (kW)	15, 20, 30	15, 20, 30	15, 20, 30
Voltage Range 197 - 253 414-506 197 - 253 414-506 FLA (Total) 13.8 4.6 13.8 4.6 Minimum Circuit Ampacity 15.5/15.5 5.2 15.5/15.5 5.2 BLOWER MOTOR Type Direct-Drive Direct-Drive Direct-Drive Horse Power 1 1 1 1 Voltage-H2-Phase 208/230-60-3 460-60-3 208/230-60-3 460-60-3 FLA/ LRA 6.9/47.7 2.3/23.9 6.9/47.7 2.3/23.9 BLOWER & CONTROLS Wheel Dia. & Width (Qty.) 11 x 10 (2) 11 x 10 (2) <t< td=""><td>ELECTRICAL DATA</td><td></td><td></td><td>y</td></t<>	ELECTRICAL DATA			y
FLA (Total) 13.8 4.6 13.8 4.6 13.8 4.6 Minimum Circuit Ampacity 15.5/15.5 5.2 BLOWER MOTOR Type Direct-Drive Horse Power 1 1 1 1 1 1 1 1 1 1 1 1 1	Voltage-Hz-Phase	208/230-60-3	460-60-3	208/230-60-3 460-60-3
Minimum Circuit Ampacity 15.5/15.5 5.2 15.5/15.5 5.2	Voltage Range	197 - 253	414-506	197 - 253 414-506
Direct-Drive Dire	FLA (Total)	13.8	4.6	13.8 4.6
Type	Minimum Circuit Ampacity	15.5/15.5	5.2	15.5/15.5 5.2
Horse Power 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BLOWER MOTOR			У
Voltage-Hz-Phase 208/230-60-3 460-60-3 208/230-60-3 460-60-3 FLA/ LRA 6.9/47.7 2.3/23.9 6.9/47.7 2.3/23.9 BLOWER & CONTROLS Wheel Dia. & Width (Qty.) 11 x 10 (2) 11 x	Туре	Direct-Drive	Direct-Drive	Direct-Drive Direct-Drive
BLOWER & CONTROLS 2.3/23.9 6.9/47.7 2.3/23.9 Wheel Dia. & Width (Qty.) 11 x 10 (2) 11 x 10 (2) 11 x 10 (2) 11 x 10 (2) Nominal Airflow (Ft./Min.) 3,000 3,000 4,000 4,000 Transformer Standard Standard Standard Standard Blower Relay Standard Standard Standard Standard FILTER, COIL & REFRIGERANT 16"x20"x2"/2 20"x20"x2"/2	Horse Power	1	1	1) 1
BLOWER & CONTROLS Wheel Dia. & Width (Qty.) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 11 x 10 (2) 14 x 10 (2) 14 x 10 (2) 11 x 10 (2) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 11 x 10 (2) 14 x 10 (2) 11 x 10 (2) 11 x 10 (2) 11 x 10 (2) 14 x 10 (2) 13 x 10 (2) 16 x 20 x 2	Voltage-Hz-Phase	208/230-60-3	460-60-3	208/230-60-3 460-60-3
Wheel Dia. & Width (Qty.) 11 x 10 (2) 4,000 4,000 4,000 4,000 5tandard Standard 16"x20"x2"/2 2 16"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2	FLA/ LRA	6.9/47.7	2.3/23.9	6.9/47.7 2.3/23.9
Nominal Airflow (Ft./Min.) 3,000 3,000 4,000 4,000 Transformer Standard Standard Standard Standard Blower Relay Standard Standard Standard FILTER, COIL & REFRIGERANT 16"x20"x2"/2 20"x20"x2"/2 16"x20"x2"/2 20"x20"x2"/2 16"x20"x2"/2 20"x20"x2"/2 Disposable Filter Size / Qty 10 10 10 10 FPI - Rows 14 - 4 14 - 4 14 - 4 14 - 4 Expansion Valve Qty. 2 2 2 2 Refrigerant R-32 R-32 R-32 R-32 Liquid Connection (Qty.) ½" (2) * ½" (2) * ½" (2) * ½" (2) * Suction Connection (Qty.) ½" (2) ½" (2) ½" (2) ½" (2) ½" (2) Condensate Drain ¾ FPT ¾ FPT ¾ FPT ¾ FPT ¾ FPT	BLOWER & CONTROLS			D
Transformer Standard 16"x20"x2"/2 2 2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20	Wheel Dia. & Width (Qty.)	11 x 10 (2)	11 x 10 (2)	11 x 10 (2) 11 x 10 (2)
Blower Relay Standard Standard Standard Standard FILTER, COIL & REFRIGERANT Disposable Filter Size / Qty 16"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"	Nominal Airflow (Ft./Min.)	3,000	3,000	4,000 4,000
FILTER, COIL & REFRIGERANT Disposable Filter Size / Qty 16"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x20"x20"x20"x20"x20"x20"x20"x	Transformer	Standard	Standard	Standard Standard
Disposable Filter Size / Qty 16"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"x2"/2 20"x20"x20"x2"/2 20"x20"x2"/2 20"x20"	Blower Relay	Standard	Standard	Standard Standard
Disposable Filter Size / Qty 20"x20"x2"/2 20"x20"x20"/2 20"x20"x20"/2 20"x20"x20"x20"/2 20"x20"x20"x20"/2 20"x20"x20"x20"/2	FILTER, COIL & REFRIGERANT			() ()
FPI - Rows 14 - 4 <td>Disposable Filter Size / Qty</td> <td></td> <td>•</td> <td>· 1/</td>	Disposable Filter Size / Qty		•	· 1/
Expansion Valve Qty. 2 2 2 2 Refrigerant R-32 R-32 R-32 R-32 Liquid Connection (Qty.) ½" (2) * ½" (2) * ½" (2) * Suction Connection (Qty.) 1½" (2) 1½" (2) 1½" (2) Condensate Drain ½ FPT ¾ FPT ¾ FPT	Coil Area (sq. ft.)	10	10	10 \ 10
Refrigerant R-32 R-32 R-32 R-32 Liquid Connection (Qty.) %" (2) * %" (2) * %" (2) * %" (2) * Suction Connection (Qty.) 1½" (2) 1½" (2) 1½" (2) 1½" (2) Condensate Drain ¾ FPT ¾ FPT ¾ FPT ¾ FPT	FPI - Rows	14 - 4	14 - 4	14 - 4 14 - 4
Liquid Connection (Qty.) %" (2) * %" (2) * %" (2) * Suction Connection (Qty.) 1½" (2) 1½" (2) 1½" (2) Condensate Drain % FPT % FPT % FPT	Expansion Valve Qty.	2	2) 2 2
Suction Connection (Qty.) 1½" (2)	Refrigerant	R-32	R-32	R-32 R-32
Condensate Drain % FPT % FPT % FPT % FPT	Liquid Connection (Qty.)	3/8" (2) *	3/8" (2) *	¾" (2) * ¾" (2) *
	Suction Connection (Qty.)	11/8" (2)	11%" (2)	11/8" (2) 11/8" (2)
SHIP WEIGHT (LBS) 430 430 430	Condensate Drain	¾ FPT	¾ FPT	¾ FPT ¾ FPT
	SHIP WEIGHT (LBS)	430	430	430 430

* For two refrigerant lines



DUCT CONNECTION SIZING WITHOUT ELECTRIC HEATERS

MINIMUM SUPPLY AND RETURN DUCT DIMENSIONS

DIMENSIONAL DATA FOR ELECTRIC HEATER KITS

- 15, 20, & 30 kW Heater Kits
- Supply opening is 13%" x 40%"

