



ENGINEERED AIR

PRODUCT INFORMATION FORM(PIF)

JOB NAME B-887 AHU DIV. NO. QT11-18-00222 DATE May 13, 2019
CONTRACTOR
UNIT MODEL DJE40/C/I NO. OF UNITS 1 UNIT TAG(S) AHU
APPROVAL CETL(Std.) POWER SUPPLY 575 / 3 / 60 UNIT AMBIENT Indoor SEA LEVEL HIGH ALTITUDE

MOUNTING: Indoor Base mounted CURB: None EXT. ISOLATION 42" SERVICE PLATFORM
OPENING: DISCHARGE AIR Horizontal RETURN AIR Back OUTSIDE AIR Top c/w HOOD LOUVRE
EXHAUST AIR Top c/w HOOD LOUVRE GRAVITY MOTORIZED

SUPPLY AIR VOLUME 4,000 SCFM ESP 1 "WC BLOWER ACCESS: As per attached drawing
TYPE FC DIDW SIZE 12/12 QUANTITY 1 SCREEN: INLET OUTLET
MOTOR: Super 'E' ODP HP 5 ESTIMATE TSP 3.4 "WC
ISOLATION Rubber in shear INERTIA BASE DETAIL
BEARINGS: Pillow Block EXT LUBE LINES: NONE TO ACCESS SIDE BOTH TO CASING
DRIVES: Standard DRIVE SAFETY 1 BELT GUARD: STANDARD OSHA
V.A.V.: NONE

RETURN AIR VOLUME 4,000 SCFM ESP .95 "WC BLOWER ACCESS: As per attached drawing
TYPE FC DIDW SIZE 12/12 QUANTITY 1 SCREEN: INLET OUTLET
MOTOR: Super 'E' ODP HP 3 ESTIMATE TSP 1.2 "WC
ISOLATION Rubber in shear INERTIA BASE DETAIL
BEARINGS: Pillow Block EXT LUBE LINES: NONE TO ACCESS SIDE BOTH TO CASING
DRIVES: Standard DRIVE SAFETY 1 BELT GUARD: STANDARD OSHA
V.A.V.: NONE

CONSTRUCTION: Standard SPLIT (REASON) CRITICAL DIM. top portion split off
CASING: 18 GA (Std) INSULATION: 1 Inch 1.5 LB/CU FT
FLOOR: 18 GA (Std)
LINER: NONE

PAINT FINISH: EXTERIOR: ELECTROSTATICALLY APPLIED ALKYD ENAMEL IN ALUMINUM GRAY COLOR, LEVEL 1 - 500 HR
ACCESS DOORS: AIRSIDE: Hinged c/w Lever Handle c/w LOCKABLE WINDOWS OTHER
SERVICE(Elec./Gas/Comp(s)): Hinged c/w Lever handle c/w LOCKABLE WINDOWS OTHER
HOODS: ENGA LOUVRE: STEEL ALUM. DRAINABLE OTHER
DAMPERS: PARALLEL BLADE STD. SEAL TAMCO 1000 ALUM. LOCATION: All dampers
AIR MIXERS: NONE DRIVE ROD TERMINATION: INSIDE THRU CASING
PIPING VESTIBULE: NONE SERVICE CORRIDOR: NONE
HUMIDIFIER: NONE
DRAIN PAN: STANDARD SLOPED S.S. All cooling coils STAINLESS STEEL FOR FUTURE COOLING COIL

FILTER: PRE-FILTER ANGLE FLAT SPARE SETS QTY: TYPE DAFCO Merv 8 Pleated - 2"
SIDE LOAD FACE LOAD HOOD METAL FRAME FILTER GAUGE
P32 Signal to BMS P32 Signal to Remote Panel

GAS HEAT (DJE-40) HEAT EXCHANGER MATERIAL: Stainless Steel NO VENT DRAFT HOOD SIDE WALL VENTOR
FUEL: NAT. GAS PROPANE PRESSURE 7 "W.C MANIFOLD: STANDARD F.M. GAP
TEMP. RISE 69 °F BTUH IN 375,000 BTUH OUT 300,000 TURNDOWN 15 : 1
VENTING INFORMATION Horizontal run has 0 ft, Vertical rise has 0 ft, 90° elbow has 0, and 45° elbow has 0

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DX COOLING MATERIAL CU/AL CU/CU ALT TUBE CIRC. T.X. VALVE(FOR FWA UNITS) HGB/P VALVE HERESITE
AMB. TEMP 95 °F ROOF EFFECT ADDER 15 °F REFRIG. R-410A PRINT OUT ATTACHED(MANDATORY)
(Temp. in °F) EA 81/68 DB/WB LA 60.4/59 DB/WB MBH 118 SST 50 °F SCT 126.2 °F

COILS FLUID HEATING NONE STEAM HEATING NONE ELECTRIC HEAT NONE FLUID COOLING NONE

HEAT RECOVERY: NONE

MAIN POWER DISCONNECT Non Fused - Type A Disconnect By EngA

CONVENIENCE CIRCUITS NONE

REMOTE CONTROL PANEL NONE

THERMOSTAT AND SUBBASE DESC. _____

UNIT FUNCTION:

Disconnect switch 'on', service switch 'on', fire alarm contacts(by others) 'closed' (jumper if not required).

Unit on/off switch 'on', outside air damper opens to 10% minimum position(adjustable). Blower will delay on and runs continuously. The DJM controller with an integral reference setpoint fixed at 75°F (23.9°C) will modulate the gas flow and combustion air to to maintain the required discharge air temperature.

Room sensor/setpoint will reset the discharge air temperature between 62.5°F (16.9°C) to 89.5°F (31.9°C) to satisfy room setpoint requirements.

Unit on/off switch 'off', outside air damper closes. Unit is off.

DJM integral auto bypass low limit will stop unit operation if the discharge air temperature falls below 40° F (4.4°C).

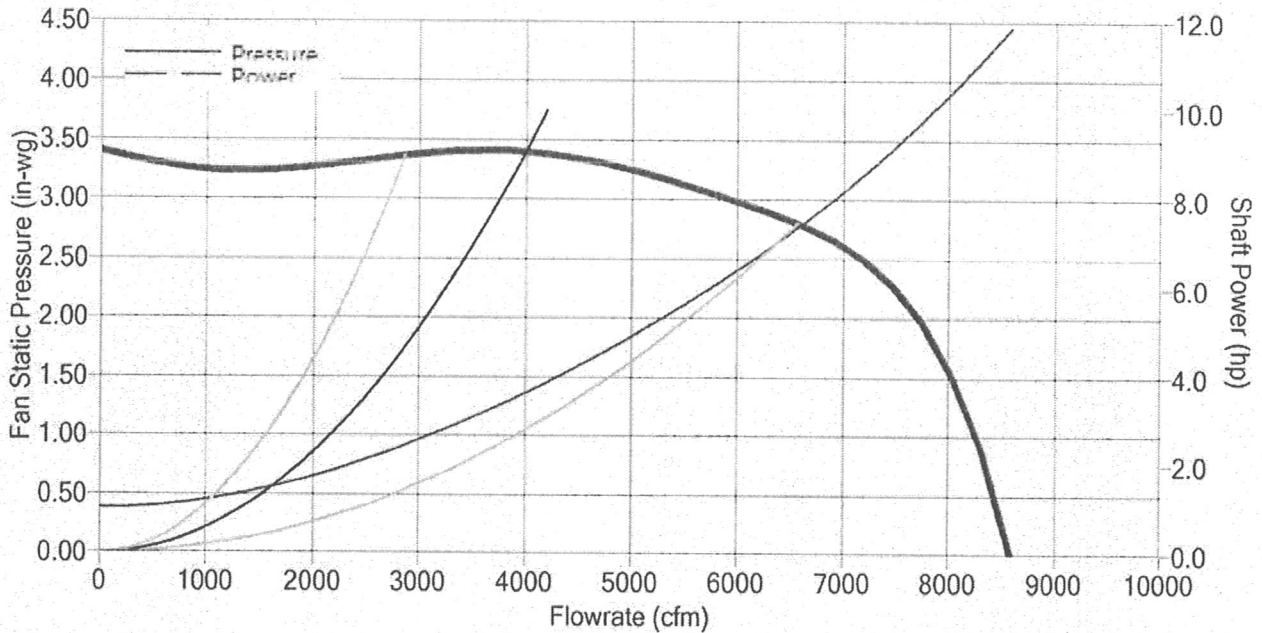
MISCELLANEOUS COMMENTS:

bacnet
- reset temp
- alarm

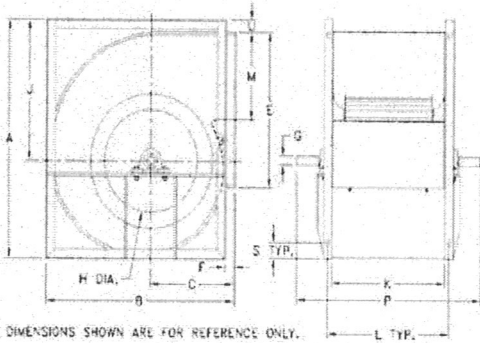


Job Name					Submitted by notes				
Model MODEL A12-12A	Flow 4000 CFM	Pressure (Ps) 3.40 in-wg	Temperature 70 °F	Altitude 0 ft	Density 0.075 lb/ft ³	Q Derate 0 cfm	P Derate 0.00 in-wg	VAV Set Point 0.00 in-wg	Date 11-13-2018
Fan Tag	Flow 4000 CFM	Pressure (Ps) 3.40 in-wg	Power 3.62 hp	Static Efficiency 59.2 %	Total Efficiency 67.5 %	Speed 1470 rpm	Outlet Velocity 2778 fpm	Efficiency Rating	
	Impeller Dia 12.0 in	Outlet Area 1.44 ft ²	Max Speed 1614 rpm	AMCA Class I	Drive Bolt Drive	Blades 43	P Volume 5.9 ft ³	Turndown 100 %	

Performance



Sound (Lwi)	63	125	250	500	1000	2000	4000	8000	Lw	LwA
	92	92	88	84	84	83	80	78	96	90



Options

- Available Bore (9 inch diameter wheels): 3/4, 1, 1-3/16, 1-7/16, 1-11/16, 15/16, 2-1/4, 3 inch
- Available Bore (11 inch diameter wheels): 3/4, 1 and 1-3/16 inch
- Additional Bores (12 inch diameter wheels): 3, 4, and 4-1/2 inch
- Additional Bores (15 through 20 inch diameter wheels): 3, 4, 4-1/2, 5 inch
- Center disc lock style: Preslick
- Adjustable motor base

A	B	C	E	F	G	H	J	K	L	M	P	S	U
21.62	19.62	9.06	13.44	1.00	1.00	10.38	12.50	15.62	17.37	8.38	23.88	1.00	1.00

Dimensions in inches

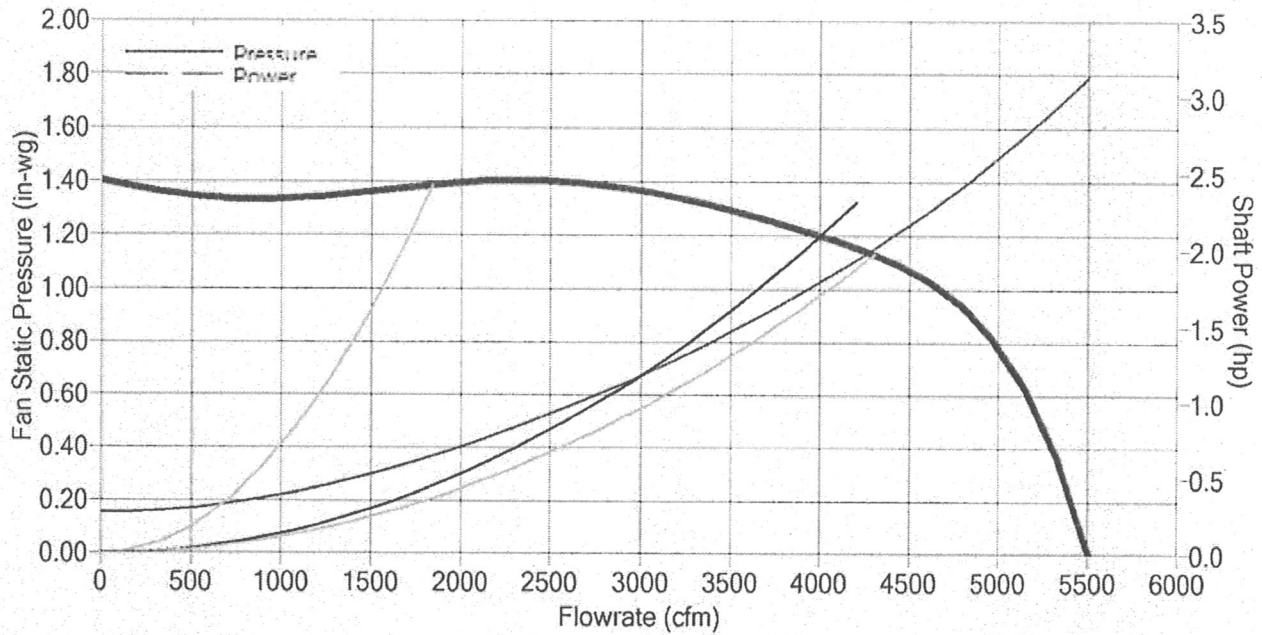
Notes: Airflow performance data are obtained in accordance with AMCA 210-07. Installed performance will vary depending on extent of cabinet geometry

Sound data are estimated from industry experience for the type of product selected. Data should be used for comparison purposes only and do not represent installed values.

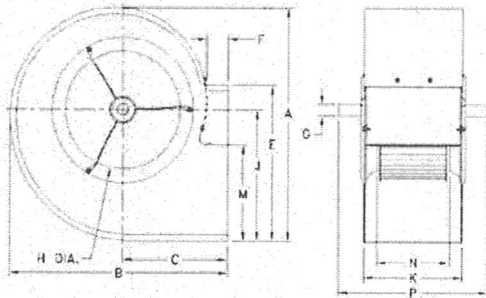


Job Name					Submitted by notes				
Model MODEL A12-12A	Flow 4000 CFM	Pressure (Ps) 1.20 in-wg	Temperature 70 °F	Altitude 0 ft	Density 0.075 lb/ft ³	Q Derate 0 cfm	P Derate 0.00 in-wg	VAV Set Point 0.00 in-wg	Date 11-13-2018
Fan Tao	Flow 4000 CFM	Pressure (Ps) 1.20 in-wg	Power 1.80 hp	Static Efficiency 42.1 %	Total Efficiency 58.9 %	Speed 943 rpm	Outlet Velocity 2778 fpm	Efficiency Ratio	
	Impeller Dia 12.0 in	Outlet Area 1.44 ft ²	Max Speed 1900 rpm	AMCA Class I	Drive Belt Drive	Blades 43	P Volume 4.5 ft ³	Turndown 100 %	

Performance



Sound (Lwi)	63	125	250	500	1000	2000	4000	8000	Lw	LwA
	87	87	82	81	79	77	76	74	92	86



DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

A	B	C	E	F	G	H	J	K	M	N	P
20.38	19.38	9.13	13.44	1.50	1.00	10.38	11.50	15.62	8.38	13.31	19.75

Dimensions in inches

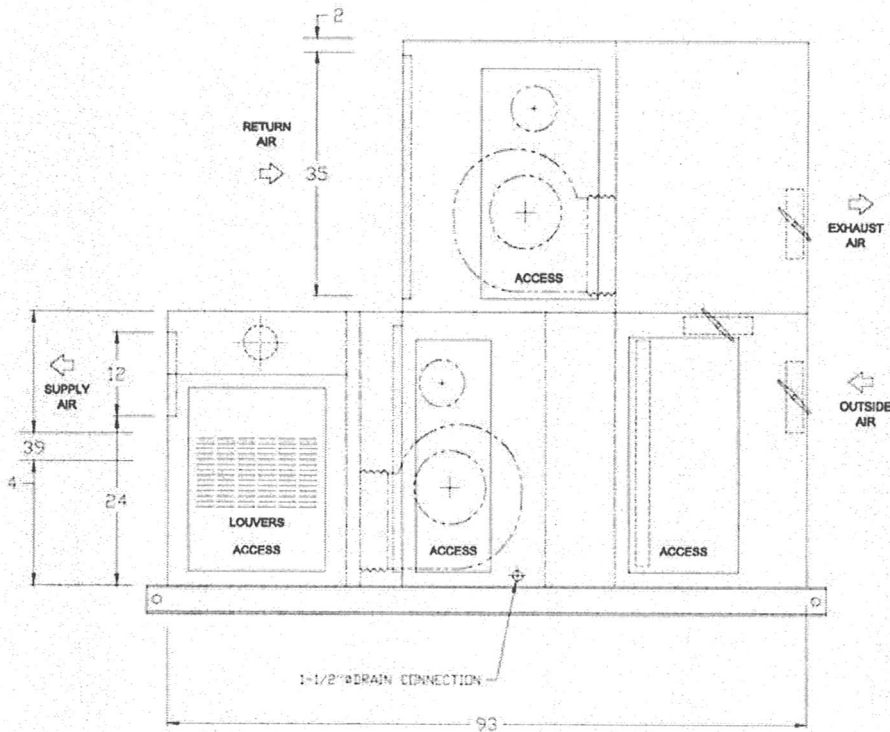
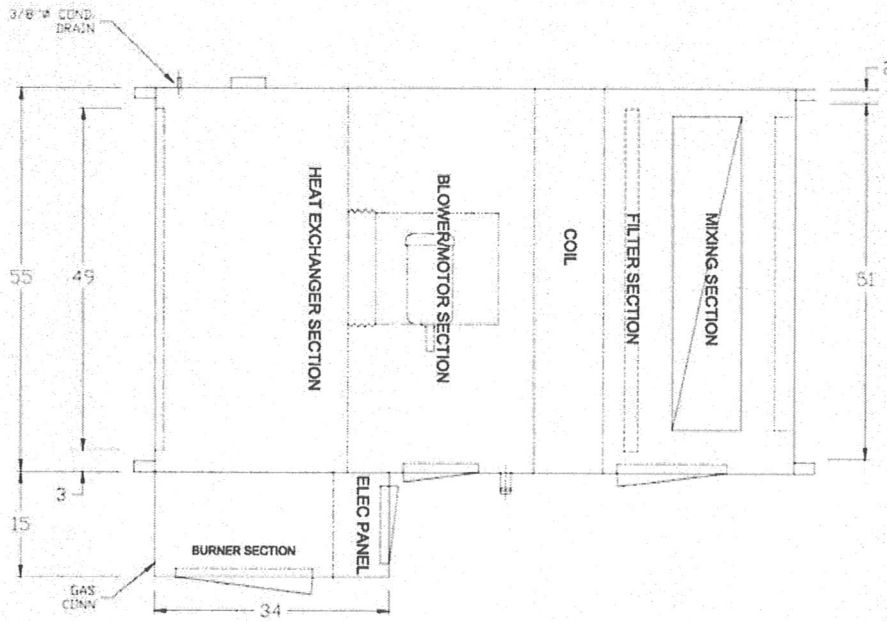
Notes: Airflow performance data are obtained in accordance with AMCA 210-07. Installed performance will vary depending on extent of cabinet geometry

Sound data are estimated from industry experience for the type of product selected. Data should be used for comparison purposes only and do not represent installed values.

Options

- Available Bore: 3/4, 1 and 1-3/16 inch
- Center disc lock style: Preslok
- Three Piece bearing bracket (Max 3HP) available for 9 - 15" blowers
- One piece bearing bracket (Max 10HP) available for 12 - 18" blowers
- Standard motor mounting bracket (3/4HP Max) or Reinforced motor mounting bracket (1 1/2HP Max)

NOTE: IF UNIT IS OUTDOOR - 2" UPSTANDS WILL BE ADDED ON ALL ROOF OPENINGS



ESTIMATED Total unit Weight = 2,496 lbs (SUBJECT TO CHANGE)

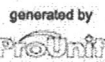
DOOR SIZES AND INTERNAL COMPONENTS ARE APPROX. VALUES. DIMENSIONS SHOWN IN INCHES ONLY UNLESS OTHERWISE NOTED.

DRAWING PATH:

TAG: -

PRELIMINARY DRAWING ONLY - NOT FOR CONSTRUCTION.

DJE40



REVISIONS:

DATE: MAY 01 2019

DRWN BY: -

CHKD BY: -

DRWG NO.:



CU AIR COOLED SYSTEM PERFORMANCE DATA - EEV UNIT

Version 3.5.23.S

Job Name: _____
 Customer: _____
 Location: Ottawa, ON

Job No.: _____
 Tag No.: _____
 Altitude: 413 feet

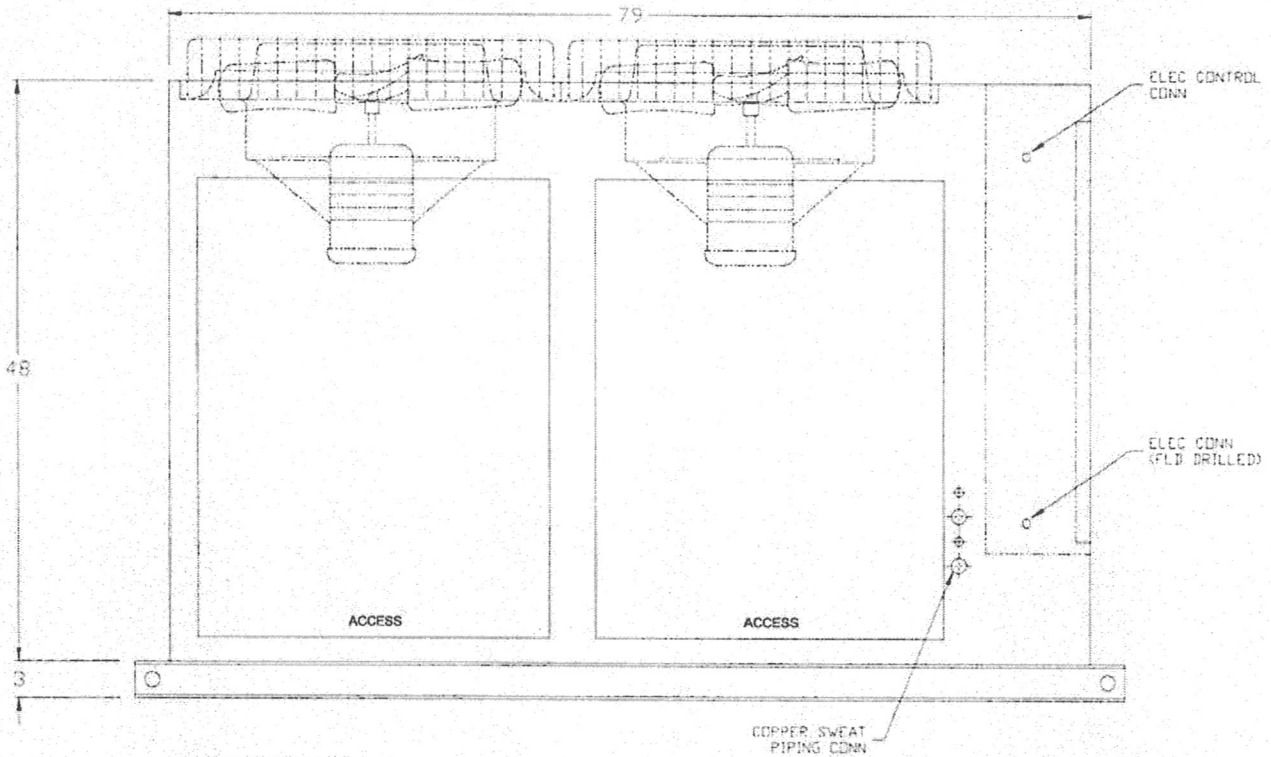
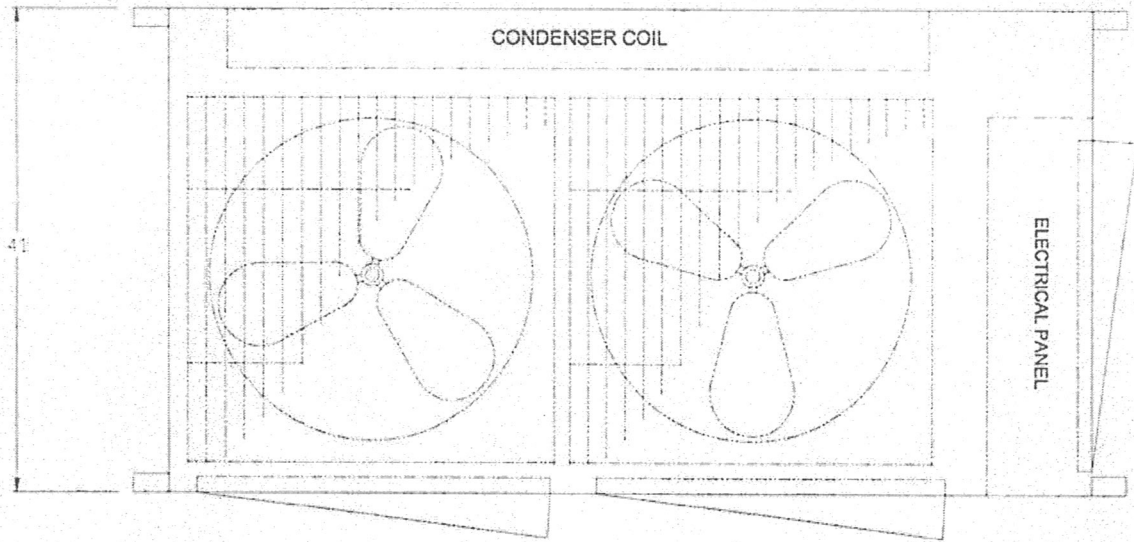
Coil Tag	dx
Unit Model	CUE92
DX Coil Size, in (H x L x R x FPI)	25 x 46 x 4R 12 (1/2")
DX Coil Size, mm (H x L x R x FPI)	635 x 1175 x 4R 12 (13 mm)
DX Coil Blank Tube	0
Header Qty. & Size, in (mm)	(2) 7/8 (22 mm)
Distributors Qty. & Size	(2) 4-3-4
# of HGBP / Ton/Circ (Ton)	1 / 1.23
Design Ambient, °F (°C) DB	95.0 (35.0)
Net Capacity, MBH (kw)	118 (34.6)
Total / Sensible Capacity, MBH (kw)	118 (34.6) / 89 (26.1)
Air Flow Conditions	Standard CFM
Total / DX Air Flow, CFM (l/s)	4000 (1888.0) / 4000 (1888.0)
Air EDBT, °F (°C) / EWBT, °F (°C)	81.0 (27.2) / 68.0 (20.0)
DX LDBT / LWBT, °F (°C)	60.4 (15.8) / 59.0 (15.0)
D/A LDBT / LWBT, °F (°C)	60.4 (15.8) / 59.0 (15.0)
Water Removal, lb/h (kg/h)	24.9 (11.3)
Drain Pan, in (mm) / No. of Mid. Pan	7 (187) / 0
Leaving Coil Velocity, AFPM (m/s)	503 (2.55)
Coil Pressure Drop, in.wc. (pa)	0.65 (161.6)
SST / SCT, °F (°C)	50.0 (10.0) / 126.2 (52.3)
Suction Line Loss, °F (°C)	2.0 (1.1)
S/A Motor Information	
R/A Motor Information	
CSA C746-06 EER (Min. Requirement)	10.70
ARI 365-2002 EER Rating	10.70
Notes	4,6

Notes:

[4] The coil performance data is based on R-410A refrigerant.

[6] Mixed air application.

Submitted By: _____ Date: 11/13/2018



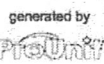
- CONNECTIONS (ODS)
 - LIQUID : (2) 1/2"Ø
 - SUCTION : (2) 1-1/8"Ø

DOOR SIZES AND INTERNAL COMPONENTS ARE APPROX. VALUES. DIMENSIONS SHOWN IN INCHES ONLY UNLESS OTHERWISE NOTED.

CUE92

PRELIMINARY DRAWING ONLY - NOT FOR CONSTRUCTION.

TAG:



REVISIONS:

DATE:
NOV 13 2018

DRWN BY:

CHKD BY:

DRWG NO.:

DRAWING2

