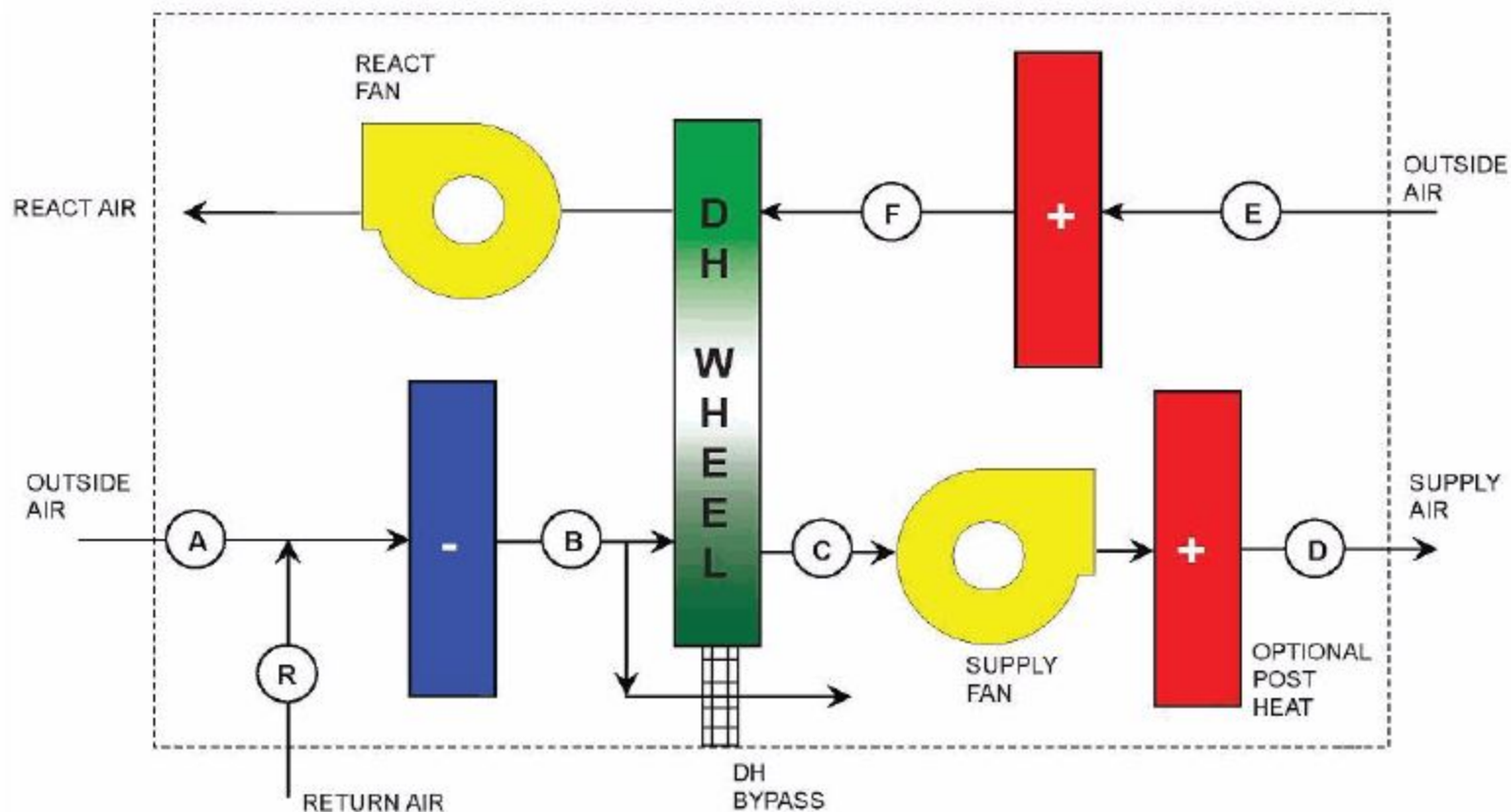


Flow Diagram

Model: HCUc8040AAD-B0BS80M-LNYSB0AAB-0A0000000
Product Designator: DRYCOOL HCU HCU-8000 4,000 to 8,000 CFM
Unit Tag: OAU-1,OAU-2
Site Altitude: 620 ft
Project Name: HEB #694 NewBraunfels, TX
Quote Number: MDT515070



Run# 1	DESIGN	R	A	B	C	D	E	F
	SCFM	0	7000	7000	7000	7000	8000	8000
SUMMER	DB °F		99	54	73	75	99	118
	WB °F		77	53.6	55.4	56.1	77	81.7
	GRLB		105	61	37	37	105	105
	LB/HR = 307.5		Leaving DP (°F) = 40.1		kW = 53.5		MRE (lb/kWh) = 5.7	
WINTER		R	A	B	C	D		
	DB °F		25	25	25	109		

NOTES:

DH Mode 100% Load 2 Condenser Fan Run

Item	Feature	Code	Description
0	Product Designator	HCU	DRYCOOL HCU
1	Munters Design Sequence	c	3rd Generation Product
2	Unit Size	80	HCU-8000 4,000 to 8,000 CFM
3	Unit Tonnage or Sequence Number	40	40 Tons (nominal)
4	System Type	A	DX Air-cooled Packaged Condensing Outdoor
5	Refrigerant	A	R-410a
6	Voltage	D	460V/60
7	Air Inlet Options	B	100 % Makeup Air w / Damper
8	Return Air Location	D	None
9	Supply Air Outlet	B	Bottom Supply Outlet
10	Heat Type	S	Natural Gas - Stainless Steel
11	Heat MBH / kW	80	800 MBH
12	Heat Stages / HW Coil Circuits	M	5:1 Turn Down Modulating (Stainless Steel only)
13	Supply Fan Motor Options	L	10 HP - Premium Efficiency TEFC- 1st Upgrade w / VFD
14	Coils and Coatings	N	Non-Coated Coils
15	Microprocessor and BMS Communications	V	Siemens Microprocessor - Lonworks
16	Filters (Supply / Reactivation)	S	2" Pleated 30 % / 2" Pleated 30 %
17	Accessories	B	Convenience Outlet
18	Customer Options	D	None
19	Unit Control Method	A	Auto - Constant - Factory Sensors
20	Hot Gas Bypass	A	Hot Gas Bypass - Primary Circuits
21	Wheel Bypass Damper	B	2-Position Wheel Bypass Damper
22	Variable Capacity Options	D	None
23	Condenser fan Options	A	Standard 1140 RPM condensing fans
24	Post-Cooling Options	D	None
25	Auxiliary Input - Digital #1	D	None
26	Auxiliary Input - Digital #2	D	None
27	Auxiliary Input - Analog #1	D	None
28	Auxiliary Input - Analog #2	D	None
29	Customer SPA	D	None
30	Packaging for shipment	D	None

MODEL	HCUC8040AAD-B0BS80M-LNVSB0AAB-0A0000000			JOB #	21541181-01	
SERIAL	C16BHCUC800599			DATE	2/8/2016	
This unit if for				OUTDOOR	use	
MAX. EXTERNAL STATIC ("W.C.)			1.00	MAX TEMP (°F)		200 F
			QTY	HP	FLA	VOLT
WHEEL MOTOR			1	1/50	0.33	120
REACT FAN			1	7.5	9.0	460
SUPPLY FAN			1	10	12.4	460
COMPRESSOR A			1	--	16	460
COMPRESSOR B			1	--	16	460
COMPRESSOR C			1	--	16	460
COMPRESSOR D			1	--	16	460
C/U FAN A1			1	2	3.7	460
C/U FAN A2			1	2	3.7	460
C/U FAN A3			--	--	--	--
C/U FAN A4			--	--	--	--
			QTY	W	FLA	VOLT
CRANKCASE HEATERS			4	360 W	0.8	460
ELECTRIC POST-HEAT			--	--	--	--
CONTROL VOLT		120/24				
V / PH / HZ			UNIT FLA	UNIT MCA	UNIT MOP	
460/3/60			95.0	99.0	100	
Short circuit current: 10kA mms symmetrical,					460 V	maximum
FILTERS	2" Pleated 30%					
			SIZE	QTY		
REACT	FILTER 30% 20" x 20" x 2"			3		
REACT	FILTER 30% 16" x 20" x 2"			3		
SUPPLY	FILTER 30% 24" x 24" x 2"			6		
SUPPLY	--			0		
DH WHEEL PRESSURE DROP						
PROCESS		1.03	" W.C.	REACT	1.36	" W.C.
CONDENSING UNIT						
		COMPRESSOR CHARGE (LBS)	TONS PER CIRCUIT			
A	12	10.0	REFRIGERANT		410a	
B	16	10.0	TONS		40	
C	16	10.0	HIGH SIDE		600	
D	16	10.0	LOW SIDE		350	
GAS HEATER						
SUPPLY PRESSURE (W.C.)		6"-15"	GAS TYPE		NG	
QTY OF HEATERS		2	TOTAL CAPACITY (MBTU/H)		800	
HTR 1 INPUT (MBTU/H)		400	HTR 2 INPUT (MBTU/H)		400	
HTR 3 INPUT (MBTU/H)		--	HTR 4 INPUT (MBTU/H)		--	