

ENGINEERING SPECIFICATIONS FOR MODEL AFD 15,000

CONFIGURATION 1 : 75/62.5 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING	15000	75	62.5	64.6	50
PROCESS AIR LEAVING SYSTEM	15000	117.2	67.9	23.8	5
REGENERATION ENTERING AIR	4950	95	78	117.5	47.3
REGENERATION LEAVING AIR	4950	164.5	104.3	241.1	14.6
ADSORPTION, GRAIN DEPRESSION				40.8	

CONFIGURATION 1: 95/78 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	15000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	15000	139.7	81.4	67.9	7.9
REGENERATION ENTERING AIR	4950	95	78	117.5	47.3
REGENERATION LEAVING AIR	4950	156.6	105.3	267.6	19.4
ADSORPTION, GRAIN DEPRESSION				49.6	

CONFIG 2: 95/78 ENT AIR (W/POST-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	15000	95	78	117.5	47.3
PROCESS AIR LEAVING DESICCANT WHEEL	15000	137.0	80.7	67.9	8.4
PROCESS AIR LEAVING SYSTEM	15000	54.6	53.9	60.8	96
REGENERATION ENTERING AIR	4950	95	78	117.5	47.3
REGENERATION LEAVING AIR	4950	156.6	105.3	267.6	19.4
ADSORPTION, GRAIN DEPRESSION				56.7	

CONFIG 3: 95/78 ENT AIR (W/PRE-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	15000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	15000	99.6	60.1	14.5	5.2
REGENERATION ENTERING AIR	4950	95	78	117.5	47.3
REGENERATION LEAVING AIR	4950	151	103.4	253.9	21.2
ADSORPTION, GRAIN DEPRESSION				103	

CONFIG 4: 95/78 ENT AIR (W/PRE/POST)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	15000	95	78	117.5	47.3
PROCESS AIR LEAVING PRECOOL COIL	15000	53.1	52.9	59.5	99.4
PROCESS AIR LEAVING DESICCANT WHEEL	15000	96.9	59.1	14.5	5.6
PROCESS AIR LEAVING SYSTEM	15000	54.9	40.5	14.5	22.9
REGENERATION ENTERING AIR	4950	95	78	117.5	47.3
REGENERATION LEAVING AIR	4950	156.6	105.3	267.6	19.4
ADSORPTION, GRAIN DEPRESSION				103	

Ratings listed above are based upon component selection data with an added safety factor.
Actual system performance of the **DRYOMATIC** unit will meet specification intent.

PROCESS AIR BLOWER				
	SIZE	RPM	BHP	HP
CONFIGURATION 1	241	1504	9.36	15
CONFIGURATION 2	241	1649	12.4	15
CONFIGURATION 3	241	1613	12.4	15
CONFIGURATION 4	241	1695	14.4	20

REGENERATION AIR BLOWER				
	SIZE	RPM	BHP	HP
CONFIGURATION ALL	200	1750	5.8	7.5

DESICCANT ROTOR 1940 mm X 200 mm	
WHEEL DIAMETER / DEPTH	76.4/7.9 (IN)
PROCESS AIR FACE VELOCITY	651.7 (FPM)
DELTA P FOR PROCESS / REGENERATION	1.0/1.5 (IN WC)
REGENERATION AIR FACE VELOCITY	645.1 (FPM)
HEATER OUTPUT	1092 (MBH)

STATIC PRESSURE	PROCESS			REGENERATION		
	UNIT	ESP	TOTAL	UNIT	ESP	TOTAL
CONFIG 1	1.95	1	2.95	2.45	1	3.45
CONFIG 2	3.04	1	4.04	2.45	1	3.45
CONFIG 3	3.04	1	4.04	2.45	1	3.45
CONFIG 4	3.7	1	4.7	2.45	1	3.45

COIL DATA	CONFIG 2	CONFIG 3	CONFIG 4	
	POST	PRE	PRE	POST
FACE AREA (SQ FT)	30	31.67	31.67	30
FIN HEIGHT X LENGTH (IN)	54X80	57X80	57X80	54X80
FACE VELOCITY (FPM)	500	473.68	473.68	500.0
NUMBER OF ROWS	6	6	6	4
CAPACITY (MBH)	1475.2	1310.1	1310.1	740.79
FLUID VELOCITY (GPM)	317.65	277.16	277.16	160.51
FLUID PRESSURE DROP(IN WC)	15.43	16.41	16.41	18.09
EWV/LWT (°F)	45/55	45/55	45/55	45/55

Coil ratings are in compliance with ARI 410.
Blower ratings comply with the requirements of the AMCA Certified Ratings Program.