

ENGINEERING SPECIFICATIONS FOR MODEL AFD 8,000

CONFIGURATION 1 : 75/62.5 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING	8000	75	62.5	64.6	50
PROCESS AIR LEAVING SYSTEM	8000	119.1	68.4	23.1	4.7
REGENERATION ENTERING AIR	2640	95	78	117.5	47.3
REGENERATION LEAVING AIR	2640	158.2	103.56	243.31	17.1
ADSORPTION, GRAIN DEPRESSION				41.5	

CONFIGURATION 1: 95/78 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	8000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	8000	141.0	81.5	67	7.5
REGENERATION ENTERING AIR	2640	95	78	117.5	47.3
REGENERATION LEAVING AIR	2640	153	105	271.7	21.5
ADSORPTION, GRAIN DEPRESSION				60	

CONFIG 2: 95/78 ENT AIR (W/POST-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	8000	95	78	117.5	47.3
PROCESS AIR LEAVING DESICCANT WHEEL	8000	141.0	81.5	67	7.5
PROCESS AIR LEAVING SYSTEM	8000	53.3	52.5	57.6	95.6
REGENERATION ENTERING AIR	2640	95	78	117.5	47.3
REGENERATION LEAVING AIR	2640	153	105	271.7	21.5
ADSORPTION, GRAIN DEPRESSION				50.5	

CONFIG 3: 95/78 ENT AIR (W/PRE-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	8000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	8000	101.0	60.2	13	4.5
REGENERATION ENTERING AIR	2640	95	78	117.5	47.3
REGENERATION LEAVING AIR	2640	144.8	102.6	254.4	24.8
ADSORPTION, GRAIN DEPRESSION				104.5	

CONFIG 4: 95/78 ENT AIR (W/PRE/POST)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	8000	95	78	117.5	47.3
PROCESS AIR LEAVING PRECOOL COIL	8000	52.4	52.3	58	99.4
PROCESS AIR LEAVING DESICCANT WHEEL	8000	98.4	59.3	13	4.8
PROCESS AIR LEAVING SYSTEM	8000	55.8	40.5	13	15.4
REGENERATION ENTERING AIR	2640	95	78	117.5	47.3
REGENERATION LEAVING AIR	2640	144.8	102.6	254.4	24.8
ADSORPTION, GRAIN DEPRESSION				104.5	

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	201	1719	5.07	7 1/2
CONFIGURATION 2	201	1898	6.89	7 1/2
CONFIGURATION 3	201	1844	6.76	7 1/2
CONFIGURATION 4	201	1940	7.9	10

REGENERATION AIR BLOWER				
	SIZE	RPM	BHP	HP
CONFIGURATION ALL	130	3500	3.94	5

DESICCANT ROTOR 1525 mm X 200 mm	
WHEEL DIAMETER / DEPTH	60/7.9 (IN)
PROCESS AIR FACE VELOCITY	567.1 (FPM)
DELTA P FOR PROCESS / REGENERATION	0.8/1.2 (IN WC)
REGENERATION AIR FACE VELOCITY	561.5 (FPM)
HEATER OUTPUT	592 (MBH)

STATIC PRESSURE	PROCESS			REGENERATION		
	UNIT	ESP	TOTAL	UNIT	ESP	TOTAL
CONFIG 1	1.75	1	2.75	2.15	1	3.15
CONFIG 2	2.9	1	3.9	2.15	1	3.15
CONFIG 3	2.79	1	3.79	2.15	1	3.15
CONFIG 4	3.49	1	4.49	2.15	1	3.15

COIL DATA	CONFIG 2	CONFIG 3	CONFIG 4	
	POST	PRE	PRE	POST
FACE AREA (SQ FT)	15.5	17.44	17.44	15.5
FIN HEIGHT X LENGTH (IN)	36X62	40.5X62	40.5X62	36X62
FACE VELOCITY (FPM)	516.13	458.78	458.78	516.1
NUMBER OF ROWS	6	6	6	4
CAPACITY (MBH)	796.73	711.7	711.7	392.21
FLUID VELOCITY (GPM)	165.5	147.82	147.82	86.47
FLUID PRESSURE DROP (IN WC)	13.94	18.03	18.03	10.23
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.