

ENGINEERING SPECIFICATIONS FOR MODEL AFD 10,000

CONFIGURATION 1 : 75/62.5 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING	10000	75	62.5	64.6	50
PROCESS AIR LEAVING SYSTEM	10000	115.8	67.6	24.3	5.4
REGENERATION ENTERING AIR	3300	95	78	117.5	47.3
REGENERATION LEAVING AIR	3300	168.7	104.7	239.5	13.2
ADSORPTION, GRAIN DEPRESSION				40.3	

CONFIGURATION 1: 95/78 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	10000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	10000	139.0	81.3	68.7	8.1
REGENERATION ENTERING AIR	3300	95	78	117.5	47.3
REGENERATION LEAVING AIR	3300	159.1	105.5	265.4	18.2
ADSORPTION, GRAIN DEPRESSION				48.8	

CONFIG 2: 95/78 ENT AIR (W/POST-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	10000	95	78	117.5	47.3
PROCESS AIR LEAVING DESICCANT WHEEL	10000	136.2	80.7	68.7	8.7
PROCESS AIR LEAVING SYSTEM	10000	53.1	52.4	57.3	95.6
REGENERATION ENTERING AIR	3300	95	78	117.5	47.3
REGENERATION LEAVING AIR	3300	159.1	105.5	265.4	18.2
ADSORPTION, GRAIN DEPRESSION				60.2	

CONFIG 3: 95/78 ENT AIR (W/PRE-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	10000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	10000	97.0	59	14	5.4
REGENERATION ENTERING AIR	3300	95	78	117.5	47.3
REGENERATION LEAVING AIR	3300	156.8	104	250.76	18.2
ADSORPTION, GRAIN DEPRESSION				103.5	

CONFIG 4: 95/78 ENT AIR (W/PRE/POST)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	10000	95	78	117.5	47.3
PROCESS AIR LEAVING PRECOOL COIL	10000	52.4	52.3	58	99.4
PROCESS AIR LEAVING DESICCANT WHEEL	10000	94.3	58	14	5.9
PROCESS AIR LEAVING SYSTEM	10000	55.1	40.5	14	21.9
REGENERATION ENTERING AIR	3300	95	78	117.5	47.3
REGENERATION LEAVING AIR	3300	159.1	105.5	265.4	18.2
ADSORPTION, GRAIN DEPRESSION				103.5	

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	221	1560	6.41	7 1/2
CONFIGURATION 2	221	1752	8.74	10
CONFIGURATION 3	221	1689	8.56	10
CONFIGURATION 4	221	1791	9.95	10

REGENERATION AIR BLOWER				
	SIZE	RPM	BHP	HP
CONFIGURATION ALL	130	3500	5.2	7.5

DESICCANT ROTOR 1525 mm X 200 mm	
WHEEL DIAMETER / DEPTH	60/7.9 (IN)
PROCESS AIR FACE VELOCITY	708.9 (FPM)
DELTA P FOR PROCESS / REGENERATION	1.2/1.7 (IN WC)
REGENERATION AIR FACE VELOCITY	701.8 (FPM)
HEATER OUTPUT	740 (MBH)

STATIC PRESSURE	PROCESS			REGENERATION		
	UNIT	ESP	TOTAL	UNIT	ESP	TOTAL
CONFIG 1	2.15	1	3.15	2.65	1	3.65
CONFIG 2	3.23	1	4.23	2.65	1	3.65
CONFIG 3	3.17	1	4.17	2.65	1	3.65
CONFIG 4	3.79	1	4.79	2.65	1	3.65

COIL DATA	CONFIG 2	CONFIG 3	CONFIG 4	
	POST	PRE	PRE	POST
FACE AREA (SQ FT)	20.67	21.96	21.96	20.67
FIN HEIGHT X LENGTH (IN)	48x62	51x62	51x62	48x62
FACE VELOCITY (FPM)	483.87	455.51	455.41	483.9
NUMBER OF ROWS	6	6	6	4
CAPACITY (MBH)	1019	891.41	891.41	454.16
FLUID VELOCITY (GPM)	211	184.77	184.77	99.44
FLUID PRESSURE DROP (IN WC)	14.75	17.2	17.2	9.26
EWTL/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.