

ENGINEERING SPECIFICATIONS FOR MODEL AFD 6,000

CONFIGURATION 1 : 75/62.5 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING	6000	75	62.5	64.6	50
PROCESS AIR LEAVING SYSTEM	6000	118.5	68.4	24.1	5
REGENERATION ENTERING AIR	1980	95	78	117.5	47.3
REGENERATION LEAVING AIR	1980	166.2	104.4	240.4	14
ADSORPTION, GRAIN DEPRESSION				40.5	

CONFIGURATION 1: 95/78 ENTERING AIR	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	6000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	6000	141.3	81.8	68.3	7.6
REGENERATION ENTERING AIR	1980	95	78	117.5	47.3
REGENERATION LEAVING AIR	1980	157.6	105.3	266.7	18.9
ADSORPTION, GRAIN DEPRESSION				49.2	

CONFIG 2: 95/78 ENT AIR (W/POST-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	6000	95	78	117.5	47.3
PROCESS AIR LEAVING DESICCANT WHEEL	6000	136.7	80.7	68.3	8.5
PROCESS AIR LEAVING SYSTEM	6000	53.8	53.1	58.9	95.7
REGENERATION ENTERING AIR	1980	95	78	117.5	47.3
REGENERATION LEAVING AIR	1980	157.6	105.3	266.7	18.9
ADSORPTION, GRAIN DEPRESSION				58.6	

CONFIG 3: 95/78 ENT AIR (W/PRE-COOL)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	6000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	6000	100.6	60.4	14.3	5
REGENERATION ENTERING AIR	1980	95	78	117.5	47.3
REGENERATION LEAVING AIR	1980	153.3	103.6	252.7	20
ADSORPTION, GRAIN DEPRESSION				103.2	

CONFIG 4: 95/78 ENT AIR (W/PRE/POST)	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	6000	95	78	117.5	47.3
PROCESS AIR LEAVING PRECOOL COIL	6000	52.8	52.7	58.9	99.4
PROCESS AIR LEAVING DESICCANT WHEEL	6000	95.9	58.6	14.3	5.7
PROCESS AIR LEAVING SYSTEM	6000	54.5	39.8	14.3	22.9
REGENERATION ENTERING AIR	1980	95	78	117.5	47.3
REGENERATION LEAVING AIR	1980	153.3	103.6	252.7	20
ADSORPTION, GRAIN DEPRESSION				103.2	

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	161	2249	4.39	7 1/2
CONFIGURATION 2	161	2471	5.89	7 1/2
CONFIGURATION 3	161	2392	5.73	7 1/2
CONFIGURATION 4	161	2514	6.67	7 1/2

REGENERATION AIR BLOWER				
	SIZE	RPM	BHP	HP
CONFIGURATION ALL	120	3500	1.9	3

DESICCANT ROTOR 1220 mm X 200 mm	
WHEEL DIAMETER / DEPTH	48/7.9 (IN)
PROCESS AIR FACE VELOCITY	674.5 (FPM)
DELTA P FOR PROCESS / REGENERATION	1.1/1.6 (IN WC)
REGENERATION AIR FACE VELOCITY	667.7 (FPM)
HEATER OUTPUT	444 (MBH)

STATIC PRESSURE	PROCESS			REGENERATION		
	UNIT	ESP	TOTAL	UNIT	ESP	TOTAL
CONFIG 1	2.05	1	3.05	2.55	1	3.55
CONFIG 2	3.26	1	4.26	2.55	1	3.55
CONFIG 3	3.10	1	4.10	2.55	1	3.55
CONFIG 4	3.84	1	4.84	2.55	1	3.55

COIL DATA	CONFIG 2	CONFIG 3	CONFIG 4	
	POST	PRE	PRE	POST
FACE AREA (SQ FT)	11.25	12.94	12.94	11.25
FIN HEIGHT X LENGTH (IN)	30X54	34.5X54	34.5X54	30X54
FACE VELOCITY (FPM)	533.33	463.77	463.77	533.3
NUMBER OF ROWS	6	6	6	4
CAPACITY (MBH)	616.06	528.37	528.37	302.58
FLUID VELOCITY (GPM)	135.2	113.89	113.89	66.17
FLUID PRESSURE DROP (IN WC)	10.75	14.69	14.69	18.56
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.