

## ENGINEERING SPECIFICATIONS FOR MODEL AFD 11,000

<b>CONFIGURATION 1 : 75/62.5 ENTERING AIR</b>	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING	11000	75	62.5	64.6	50
PROCESS AIR LEAVING SYSTEM	11000	118.0	68.1	23.5	4.9
REGENERATION ENTERING AIR	3630	95	78	117.5	47.3
REGENERATION LEAVING AIR	3630	161.3	103.9	242.2	15.8
ADSORPTION, GRAIN DEPRESSION				41.1	

<b>CONFIGURATION 1: 95/78 ENTERING AIR</b>	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	11000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	11000	140.1	81.4	67.4	7.7
REGENERATION ENTERING AIR	3630	95	78	117.5	47.3
REGENERATION LEAVING AIR	3630	154.8	105.3	269.23	20.5
ADSORPTION, GRAIN DEPRESSION				50.1	

<b>CONFIG 2: 95/78 ENT AIR (W/POST-COOL)</b>	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	11000	95	78	117.5	47.3
PROCESS AIR LEAVING DESICCANT WHEEL	11000	137.6	80.8	67.4	8.3
PROCESS AIR LEAVING SYSTEM	11000	52.7	52.1	56.7	96
REGENERATION ENTERING AIR	3630	95	78	117.5	47.3
REGENERATION LEAVING AIR	3630	154.8	105.3	269.23	20.5
ADSORPTION, GRAIN DEPRESSION				60.8	

<b>CONFIG 3: 95/78 ENT AIR (W/PRE-COOL)</b>	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	11000	95	78	117.5	47.3
PROCESS AIR LEAVING SYSTEM	11000	100.6	60.3	14.1	4.9
REGENERATION ENTERING AIR	3630	95	78	117.5	47.3
REGENERATION LEAVING AIR	3630	147.5	103	254.82	23.2
ADSORPTION, GRAIN DEPRESSION				103.4	

<b>CONFIG 4: 95/78 ENT AIR (W/PRE/POST)</b>	SCFM	°FDB	°FWB	GR/LB	%RH
PROCESS AIR ENTERING, OUTSIDE AIR	11000	95	78	117.5	47.3
PROCESS AIR LEAVING PRECOOL COIL	11000	53.1	52.9	59.4	99.1
PROCESS AIR LEAVING DESICCANT WHEEL	11000	98.1	59.4	14.1	5.3
PROCESS AIR LEAVING SYSTEM	11000	56.1	41	14.1	21.3
REGENERATION ENTERING AIR	3630	95	78	117.5	47.3
REGENERATION LEAVING AIR	3630	154.8	105.3	269.23	20.5
ADSORPTION, GRAIN DEPRESSION				103.4	

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.

<b>PROCESS AIR BLOWER</b>				
	SIZE	RPM	BHP	HP
CONFIGURATION 1	221	1559	6.46	7 1/2
CONFIGURATION 2	221	1752	9.01	10
CONFIGURATION 3	221	1680	8.6	10
CONFIGURATION 4	221	1785	10.1	15

<b>REGENERATION AIR BLOWER</b>				
	SIZE	RPM	BHP	HP
CONFIGURATION ALL	150	3500	6.8	7.5

<b>DESICCANT ROTOR 1740 mm X 200 mm</b>	
WHEEL DIAMETER / DEPTH	68.5/7.9 (IN)
PROCESS AIR FACE VELOCITY	608.6 (FPM)
DELTA P FOR PROCESS / REGENERATION	0.9/1.4 (IN WC)
REGENERATION AIR FACE VELOCITY	602.6 (FPM)
HEATER OUTPUT	814 (MBH)

<b>STATIC PRESSURE</b>	PROCESS			REGENERATION		
	UNIT	ESP	TOTAL	UNIT	ESP	TOTAL
CONFIG 1	1.85	1	2.85	2.35	1	3.35
CONFIG 2	3.02	1	4.02	2.35	1	3.35
CONFIG 3	2.84	1	3.84	2.35	1	3.35
CONFIG 4	3.52	1	4.52	2.35	1	3.35

<b>COIL DATA</b>	CONFIG 2	CONFIG 3	CONFIG 4	
	POST	PRE	PRE	POST
FACE AREA (SQ FT)	21.58	24.67	24.67	21.58
FIN HEIGHT X LENGTH (IN)	42X74	48X74	48X74	42X74
FACE VELOCITY (FPM)	509.65	445.95	445.95	509.7
NUMBER OF ROWS	6	6	6	4
CAPACITY (MBH)	1136.69	960.73	960.73	544.79
FLUID VELOCITY (GPM)	238.67	203.25	203.25	120.8
FLUID PRESSURE DROP(IN WC)	21.63	14.35	14.35	10.31
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.