



About us
Who we are

TFT Dry Air Solutions is a branch of Tecnofrigo Tuscany Group, specializing in Industrial Dehumidification. Tecnofrigo is a company that has been dealing with Air Quality Control for industrial and commercial buildings worldwide for over 45 years. Founded as a repair and technical assistance company for industrial climate control, Tecnofrigo Tuscany has acquired the skills and know-how over the years to successfully design and build machines with its own TFT brand. Nowadays, TFT is a new player in the Dehumidification market able to provide the quality and reliability of a long-term experienced company.

Unlike other manufacturers, TFT Dry Air Solutions offers maximum flexibility by providing both a standard range and customized solutions that meet the needs of the most demanding customers in a wide range of applications: from the pharmaceutical to food industry, from chemical to transport, from energy to defense. This ability to customize is the trademark of TFT Dry Air Solutions.

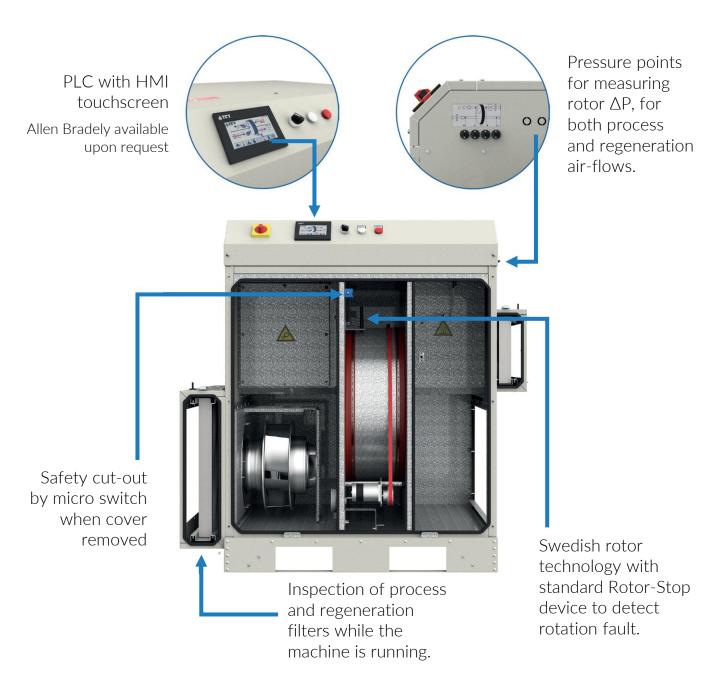
Our mission

TFT Dry Air Solutions offers tailor-made technological solutions to solve humidity issues in the industrial and commercial fields utilizing machines designed to meet any customer's requirements.

The partnership with Nicos Group Inc. for the North American market allows TFT to combine renowned European craftsmanship with 45 years of unmatched, high-quality customer service.

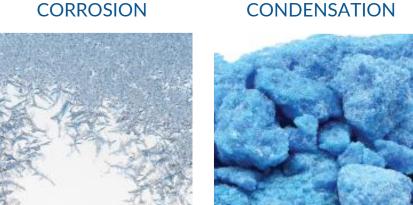
Our Technology

We design and supply reliable and efficient desiccant dehumidifiers to better satisfy the requirements of our customers. Our technical expertise is focused on improving the user experience, reducing maintenance time and costs.



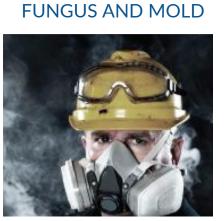
ions For Modern Industry

CORROSION











BACTERIA

ODOURS

HUMIDITY CONTROL

























Adsorption dehumidifier technology is based on the use of naturally occurring desiccant materials (i.e. with a high level of chemical/physical affinity with water vapour), such as silica gel.

This technology makes TFT dehumidifiers suitable for use in environments where constant humidity values are required, even temperatures below 0°C, and for very low dew-point values down to -60°C dpt.

TFT Dry Air Solutions has developed the AD (Air Dry) models to satisfy all needs for dehumidification across a broad range of conditions. Highly efficient energy recovery solutions can also be integrated throughout all our product ranges.





Products TECHNICAL DATA

ADS150-450

AD270-1250





MODEL	ADS	150	250	450				
Capacity at 20°C - 60% RH	lb/h	1.04	1.72	3.57				
Process air flow	CFM	88.29	147.14	264.86				
Process Static pressure	in WC	0.20	0.14	0.44				
Regeneration air flow	CFM	29.43	35.31	70.63				
Regeneration Static pressure	in WC	0.16	0.36					
Regeneration type		Electric						
Maximum absorbed power	KW	0.76	1.47	1.56				
Maximum absorbed current	Α	4.00	4.10	5.40				
LxWxH	in	11.61 x 13.19 x 12.52	11.61 x 13.86 x 13.31	16.69 x 17.91 x 17.01				
Empty weight	lb	24.25	24.91	47.62				
Process air inlet	in	10.51 x 5.43	10.51 x 5.43	15.63 x 9.17				
Dry air outlet	in	Ø 3.94	Ø 3.94	Ø 6.30				
Wet air outlet	in	Ø 2.48	Ø 2.48	Ø 2.48				

MODEL	AD	270	420	700	820	1250	
Capacity at 20°C - 60% RH	lb/h	2.18	4.78	5.69	9.52	12.21	
Process air flow	CFM	158.92	247.20	412.00	482.63	735.72	
Process Static pressure	in WC	1.36	1.45	1.20	0.40	0.92	
Regeneration air flow	CFM	29.43	52.97	79.46	123.60	158.92	
Regeneration Static pressure	in WC	0.54	0.40	0.52	0.84	0.52	
Regeneration type		Electric					
Maximum absorbed power	KW	1.97	2.93	3.84	6.95	7.22	
Maximum absorbed current	А	6.60	12.07	12.90	12.60	13.60	
LxWxH	in	16.02 x 17.72 x 16.85	18.70 x 23	.98 x 20.04	22.87 x 29	33 x 29.13	
Empty weight	lb	50.71	77.16	81.57	125.66	136.69	
Process air inlet	in	Ø 4.92	Ø 7.87	Ø 7.87	Ø 9.84	Ø 9.84	
Dry air outlet	in	Ø 4.92	Ø 7.87	Ø 7.87	Ø 9.84	Ø 9.84	
Regeneration air inlet	in	Ø 4.92	Ø 6.30	Ø 6.30	Ø 6.30	Ø 6.30	
Wet air outlet	in	Ø 3.15	Ø 4.92	Ø 4.92	Ø 6.30	Ø 6.30	

Products TECHNICAL DATA

AD800-1100

AD1000-3100





MODEL	AD	800	1100T		
Capacity at 20°C - 60% RH	lb/h	10.58	11.02		
Process air flow	CFM	470.86	647.44		
Process Static pressure	in WC	0.80	1.20		
Regeneration air flow	CFM	147.14	147.14		
Regeneration Static pressure	in WC	0.72	0.72		
Regeneration type		Electric/Steam			
Maximum absorbed power	KW	7.00	7.10		
Maximum absorbed current	А	11.20	11.60		
LxWxH	in	39.37 x 23.62 x 39.37	39.37 x 23.62 x 39.37		
Empty weight	lb	319.67	330.69		
Process air inlet	in	Ø 9.84	Ø 9.84		
Dry air outlet	in	Ø 7.87	Ø 7.87		
Regeneration air inlet	in	Ø 6.30	Ø 6.30		
Wet air outlet	in	Ø 6.30	Ø 6.30		

MODEL	AD	1000	1500	2000T	2000	2500	3100T	
Capacity at 20°C - 60% RH	lb/h	19.40	28.00	23.81	34.83	41.67	25.35	
Process air flow	CFM	588.58	882.87	1,177.16	1,177.16	1,471.44	1,824.59	
Process Static pressure	in WC	1.20	0.80	1.00	1.00	1.20	1.00	
Regeneration air flow	CFM	206.00	294.29	264.86	400.23	482.63	264.86	
Regeneration Static pressure	in WC	0.72	1.00	1.12	0.72	1.00	1.00	
Regeneration type		Electric/Steam						
Maximum absorbed power	KW	12.60	18.90	16.10	23.90	29.00	16.60	
Maximum absorbed current	А	18.40	27.50	23.80	34.80	42.50	24.30	
LxWxH	in			50.59 x 33	27 x 49.41			
Empty weight	lb	451.95	462.97	493.83	473.99	485.02	507.06	
Process air inlet	in	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	
Dry air outlet	in	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	16.54 x 24.21	
Regeneration air inlet	in	8.66 x 13.78	8.66 x 13.78	8.66 x 13.78	8.66 x 13.78	8.66 x 13.78	8.66 x 13.78	
Wet air outlet	in	Ø 9.84	Ø 9.84	Ø 9.84	Ø 9.84	Ø 9.84	Ø 9.84	

Products TECHNICAL DATA

AD3000-6500 / AD7000-25000



MODEL	AD	3000	3500	4500T	4000	5000	6500T		
Capacity at 20°C - 60% RH	lb/h	50.71	60.19	46.52	69.89	82.01	59.75		
Process air flow	CFM	1,765.73	2,060.02	2,648.60	2,354.31	2,942.89	3,825.76		
Process Static pressure	in WC	1.61	1.41	1.20	1.61	1.61	1.61		
Regeneration air flow	CFM	529.72	647.44	529.72	794.58	941.72	647.44		
Regeneration Static pressure	in WC	0.80	1.20	1.20	1.61	1.41	1.61		
Regeneration type		Electric/Steam							
Maximum absorbed power	KW	32.30	38.50	30.30	48.10	57.50	40.90		
Maximum absorbed current	А	46.70	55.80	43.70	69.50	83.10	60.80		
LxWxH	in	59	9.06 x 40.16 x 54.9	92	74	4.61 x 43.90 x 59.0	59.06		
Empty weight	lb	771.62	793.66	793.66	1,080.26	1,168.45	1,201.52		
Process air inlet	in	32.48 x 19.69	32.48 x 19.69	32.48 x 19.69	31.50 x 20.47	31.50 x 20.47	31.50 x 20.47		
Dry air outlet	in	32.48 x 19.69	32.48 x 19.69	32.48 x 19.69	31.50 x 20.47	31.50 x 20.47	31.50 x 20.47		
Regeneration air inlet	in	13.98 x 11.42	13.98 x 11.42	13.98 x 11.42	16.34 x 13.78	16.34 x 13.78	16.34 x 13.78		
Wet air outlet	in	Ø 11.02	Ø 11.02	Ø 11.02	Ø 12.40	Ø 12.40	Ø 12.40		

MODEL	AD	7000	9000	12000T	11000	13000	15000T	19000	25000
Capacity at 20°C - 60% RH	lb/h	116.62	140.43	120.59	180.34	202.83	145.50	289.03	357.15
Process air flow	CFM	4,120.04	5,297.20	7,062.93	6,474.36	7,651.51	8,828.67	11,182.98	14,714.44
Process Static pressure	in WC	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
Regeneration air flow	CFM	1,353.73	1,589.16	1,353.73	2,160.08	2,530.88	1,589.16	3,237.18	4,649.76
Regeneration Static pressure	in WC	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
Regeneration type			Electric/Steam						
Maximum absorbed power	KW	81.40	98.70	91.70	130.70	154.70	104.20	195.20	272.20
Maximum absorbed current	Α	123.50	158.60	135.50	204.30	240.80	156.40	303.20	424.50
LxWxH	in	92.	52 x 53.15 x 68	3.90	120	.08 x 62.99 x 72	151.57 x 76.77 x 84.65		
Empty weight	lb	1,499.14	1,543.23	2,336.90	2,976.24	3,064.42	3,053.40	4,365.15	4,739.93
Process air inlet	in	45.47 x 22.05			49.21 x 23.62			59.06 x 31.50	59.06 x 35.43
Dry air outlet	in	45.47 x 22.05			49.21 x 23.62			59.06 x 31.50	59.06 x 35.43
Regeneration air inlet	in		22.05 x 18.11		23.62 x 23.62			31.50 x 31.50	31.50 x 31.50
Wet air outlet	in		Ø 13.78			Ø 15.75		Ø 19.69	Ø 24.80

ADP2000-9500 / ADP2002-9502

Products TECHNICAL DATA



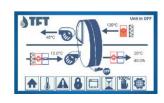
MODEL	ADP	2000	3500	5000	6500	8000	9500	
Capacity at 20°C - 60% RH	lb/h	41.01	68.56	93.70	123.24	145.50	169.98	
Process air flow	CFM	1,177.16	2,060.02	2,942.89	3,825.76	4,708.62	5,591.49	
Process Static pressure	in WC	1.61	1.61	1.61	1.61	1.61	1.61	
Regeneration air flow	CFM	412.00	706.29	1,000.58	1,294.87	1,530.30	1,824.59	
Regeneration Static pressure	in WC	1.61	1.61	1.61	1.61	1.41	1.41	
Regeneration type		Electric/Steam/Gas						
Maximum absorbed power	KW	27.40	41.90	59.40	78.10	92.80	108.70	
Maximum absorbed current	А	43.90	66.80	93.90	121.80	145.70	172.30	
LxWxH	in	63.39 x 39.37 x 73.82	67.32 x 43	.31 x 77.76	71	.26 x 47.24 x 81.	69	
Empty weight	lb	1,080.26	1,212.54	1,300.73	1,521.19	1,565.28	1,609.37	
Process air inlet	in	33.46 x 19.69	6 x 19.69 37.40 x 23.62 39.37 x 23.6		39.37 x 23.62			
Dry air outlet	in	33.46 x 19.69 37.40 x 23.62 39.37 x 23.62						
Regeneration air inlet	in	23.62 x 15.75						
Wet air outlet	in			14.57 x 7.87	7			

MODEL	ADP	2002	3502	5002	6502	8002	9502			
Capacity at 20°C - 60% RH	lb/h	35.27	63.27	84.22	111.77	129.63	147.49			
Process air flow	CFM	1,177.16	2,060.02	2,942.89	3,825.76	4,708.62	5,591.49			
Process Static pressure	in WC	1.61	1.61	1.61	1.61	1.61	1.61			
Regeneration air flow	CFM	412.00	706.29	1,000.58	1,294.87	1,530.30	1,824.59			
Regeneration Static pressure	in WC	1.61	1.61	1.61	1.61	1.61	1.61			
Regeneration type		Electric/Steam/Gas								
Maximum absorbed power	KW	25.90	45.00	64.10	77.10	97.00	114.70			
Maximum absorbed current	А	38.70	71.40	94.40	113.40	142.50	169.40			
LxWxH	in	64.96 x 39.37 x 73.82	68.90 x 45	.28 x 77.76	72.83 x 49.21 x 81.69					
Empty weight	lb	1,036.17	1,168.45	1,256.63	1,477.10	1,521.19	1,565.28			
Process air inlet	in	33.46 x 19.69	37.40 x 23.62		39.37 x 23.62					
Dry air outlet	in	33.46 x 19.69	37.40	x 23.62	39.37 x 23.62					
Regeneration air inlet	in			23.62 x 15.7	5					
Wet air outlet	in	14.57 x 7.87								

One PLC for any application

Our units can be manufactured in different configurations to fully satisfy our customer's needs. Thanks to the modular nature of our pre and post treatment sections, we can achieve many different combinations, all of which are controlled and operated by our on-board PLC (HMI).

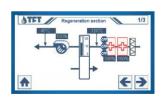




HOME

The homepage shows the general operating status of the unit. Inlet and outlet for both process and regeneration airflow, filter status and alarms. The humidity of the process air is controlled by the PLC and displayed as either Relative Humidity (RH%), Absolute Humidity (g/Kg) or Dew-Point (Tdp°C).





REGENERATION SECTION

A section dedicated to the regeneration air. The HMI shows information such as regeneration temperature, wet air outlet temperature and power utilization rate.



POST-TREATMENT SECTION

A section dedicated to the posttreatment of the process air. The HMI shows the configuration of the unit according with the installed accessories, such as cooling, heating and humidification, with more options available on request.





PRE-TREATMENT SECTION

A section dedicated to the pretreatment of the process air. The HMI shows the configuration of the unit according with the installed accessories, such as cooling, heating, different air volumes, or others on request.





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