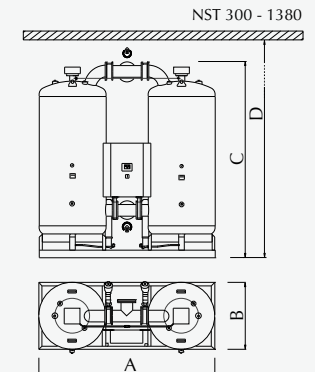
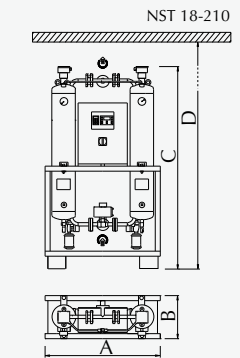
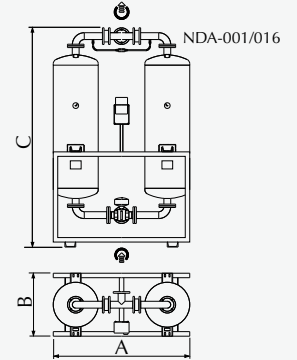
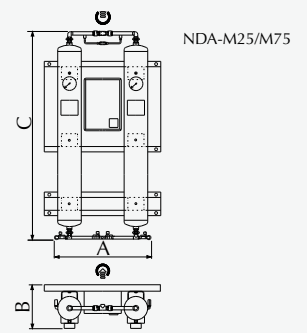


Model	Airflow				dimensions (mm)				Weight (kg)	Air connections
	activated alumina		molecular sieve		A	B	C	D		
	m <sup>3</sup> /h	m <sup>3</sup> /min	m <sup>3</sup> /h	m <sup>3</sup> /min						
<b>DryXtreme NDA</b>										
NDA-M25	27	0,45	19	0,31	655	233	935	/	28	1/2"
NDA-M50	53	0,89	37	0,62	655	233	1235	/	38	1/2"
NDA-M75	80	1,34	56	0,94	655	259	1795	/	70	1/2"
NDA-001	80	1,34	56	0,94	600	240	1867	/	96	1/2"
NDA-002	101	1,69	71	1,18	600	240	1867	/	96	1/2"
NDA-003	161	2,69	113	1,88	750	330	1780	/	96	1"
NDA-004	235	3,92	164	2,74	750	330	1780	/	156	1"
NDA-005	355	5,91	248	4,14	1000	380	2065	/	156	1 1/2"
NDA-006	429	7,15	300	5,00	1000	380	2065	/	260	1 1/2"
NDA-007	589	9,82	412	6,87	1100	500	2185	/	410	1 1/2"
NDA-008	729	12,1	510	8,50	1100	500	2185	/	410	1 1/2"
NDA-009	837	13,9	586	9,76	1200	560	2315	/	546	2"
NDA-010	1073	17,8	751	12,5	1200	610	2355	/	650	2"
NDA-011	1288	21,4	902	15,0	1340	700	2346	/	776	DN 65
NDA-012	1610	26,8	1127	18,7	1370	750	2405	/	912	DN 65
NDA-013	1933	32,2	1353	22,5	1380	800	2453	/	1210	DN 65
NDA-014	2361	39,3	1652	27,5	1780	850	2556	/	1042	DN 80
NDA-015	2683	44,7	1878	31,3	1830	900	2548	/	1414	DN 80
NDA-016	3543	59,0	2480	41,3	1930	1000	2605	/	1716	DN 80

<b>DryXtreme NST</b>										
NST 18	116	1,93	on request	940	350	1658	2600	160	3/4"	
NST 30	193	3,22	on request	940	350	1912	2965	230	1"	
NST 45	290	4,83	on request	933	380	1794	2850	300	DN 32	
NST 70	451	7,52	on request	1070	410	2108	3370	390	DN 40	
NST 110	709	11,8	on request	1320	560	1983	3165	520	DN 50	
NST 140	903	15,0	on request	1390	610	2005	3340	640	DN 65	
NST 210	1354	22,6	on request	1490	700	2233	3640	855	DN 65	
NST 300	1935	32,2	on request	1750	600	3010	4950	1675	DN 80	
NST 400	2580	43,0	on request	2122	720	3051	4975	2270	DN 100	
NST 510	3290	54,8	on request	2300	800	2897	4850	2600	DN 100	
NST 630	4064	67,3	on request	2400	920	3236	5150	3560	DN 125	
NST 810	5225	87,0	on request	2720	1020	3496	5510	4620	DN 150	
NST 1000	6451	107,5	on request	2985	1100	3595	5810	5300	DN 200	
NST 1380	8903	148,4	on request	3285	1250	3649	5725	6620	DN 200	

Data refers to the following conditions: air FAD 20°C/1 barA, pressure 7 bar(g), relative humidity 100%, air inlet temperature 35°C, pressure dew point -40°C for activated alumina and -60°C for molecular sieve, according to ISO 8573.1 standards. For differing conditions contact M.T.A. For NST with refrigeration dryer installed upstream the dew point reduces to -60°C. Weights are net (without packing).

Maximum working pressure 16 bar(g) (NDA-M25 to NDA-010); 10 bar(g) (NDA-011 to NST 1380). Higher pressures available on request. Power supply: 230 V +/-10% / 1Ph / 50Hz (NDA); 400 V +/-10% / 3Ph / 50Hz (NST). 60 Hz available on request.



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# DryXtreme

adsorption dryers  
(heatless and heat regenerated configurations)



pure energy



Purifying your compressed air,  
increasing your efficiency.



Cooling, conditioning, purifying.

# DryXtreme

DryXtreme adsorption dryers are utilised in those conditions where very low dew points, below those of a refrigeration dryer, are required. Dew points down to  $-60^{\circ}\text{C}$  are offered, in an advanced and simple to use drying package which focuses on long-term system reliability. DryXtreme has been designed to operate effortlessly in the critical applications for which it has been developed.



## Why an adsorption dryer?

Adsorption dryers are applied in those cases where the dew point achieved by a refrigeration dryer (typically  $3^{\circ}\text{C}$ ) does not offer compressed air which is dry enough for the application. MTA adsorption dryers offer dew points down to  $-40^{\circ}\text{C}$  or even  $-60^{\circ}\text{C}$ , satisfying all individual User needs.

## Fields of application

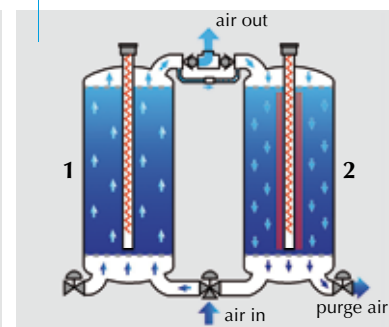
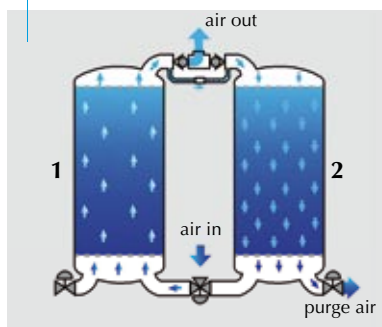
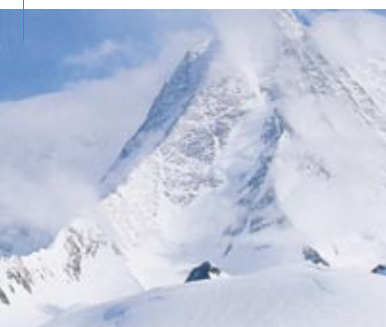
Adsorption dryers are used in a wide variety of applications, including process control equipment, photo processing, the food industry, pharmaceuticals, critical ambients, areas where ambient temperatures may drop below  $0^{\circ}\text{C}$ , painting processes, and many more beyond.

## NDA operation

Compressed air passes through column 1, where the dessicant removes moisture from the air in order to obtain the desired dew point. Contemporaneously column 2 is regenerated using a small amount of (purge) air. When column 1 becomes saturated column 2 starts drying and column 1 is regenerated.

## NST operation

Compressed air passes through column 1, where the dessicant removes moisture from the air. Contemporaneously column 2 is regenerated using a heating element and a very small amount of (purge) air. When column 1 becomes saturated column 2 starts drying and column 1 is regenerated.







## ADVANCED DRYING, EXTENDED PEACE OF MIND

**Simple quality heatless design** – NDA offers total peace of mind thanks to a very simple and reliable operating principal. 4 high quality electrovalves, featuring a brass body and stainless steel moving parts, ensure perfect operation over time. The field-proven microprocessor monitors, manages and optimizes dryer operation.

**Unique heat regenerated configuration** – NST places the heating elements within a microcolumn which is fitted directly into the vessel itself. This unique configuration avoids the abrasion of the dessicant suffered by internally heated adsorption dryers, thereby ensuring longer dessicant life (up to 15.000 hours). Furthermore, unlike typical externally heated adsorption dryers, by positioning the heaters close to the dessicant to be regenerated, the regeneration process efficiency increases.

**Advanced microprocessor control** – All DryXtreme dryers are fitted with a microprocessor as standard, ensuring optimum control and maximum energy savings.

**Design born from experience** – DryXtreme is the dryer of choice for the most prestigious customers and most advanced applications, and are the fruit of over 25 years experience in compressed air drying. A rigorous design process in MTA's test labs has led to highest performances with the most reliable operation.

**Complete range** – DryXtreme is offered in both heatless and heat regenerated versions. Activated alumina and molecular sieve configurations cover a multitude of inlet conditions and dew point requirements. Versions with special materials or for higher pressures are available on request.

### Applicable to all needs

Given that all applications and conditions vary, so DryXtreme can be adapted accordingly. Choose the dew point (down to  $-60^{\circ}\text{C}$ ) best suited to the application; according to the needs activated alumina or molecular sieves are used; various materials are offered according to individual needs.

### Simple quality design

With DryXtreme advanced design is never at the expense of reliability and quality. Highest quality valves are used throughout, and the microprocessors benefit from years of field experience. Attentive vessel design and manufacture completes the DryXtreme package, ensuring years of trouble-free operation.

### Advanced microprocessor

The standard microprocessor allows cycle times to be modified according to individual system needs. Information as to vessel status (drying, regenerating) is displayed. An optional sensor allows automatic dew point control, saving energy. NST models allow RS485 connection to a supervisor.

### Completing the network

To ensure correct DryXtreme operation adequate MTA pre and post-filtration should always be utilised. Likewise, in many applications the installation of an MTA refrigeration dryer upstream can offer notable savings. Activated carbon towers are also available to fully purify the compressed air.

