



HEAT & VACUUM REGENERATED ADSORPTION DRYER TECHNOLOGY

Products Catalog

Vacuum Regenerated Dryers



SAVE THE ENERGY WITH BEST QUALITY PRODUCTS RANGE



**NanoDehumidifying- ECO®-ELITEAIR¹ Series
Heat and Vacuum Regenerated Adsorption**

SAVE THE ENERGY WITH BEST QUALITY PRODUCTS RANGE

ECO® ELITE¹-Z Series

ECO® - ELITE¹-Z/-VG

Sets standards by operating entirely free of purging air, in combination with a low regeneration temperature based

on vacuum technology. In addition, it has a user-friendly and extensive control. The adsorption dryer in complete convinces with optimum efficiency and top-quality compressed air and compressed gas with constant supply at the highest level.

The System

- Regeneration by heated ambient air in parallel flow to adsorption (APW-Z) or counter-flow to adsorption (APW-VG)
 - Cooling by ambient air in parallel flow to adsorption
 - No need for purge air – Zero Purge
- For maximum requirements even in critical environment



Touch-Screen EDC Control (based on Siemens S7-1200)

- Touchscreen for maximum user-friendliness.
- Intuitive menu guidance.
- Text messages provide quick and clear status information.
- Optionally available TPS dewpoint control with dewpoint sensor.



The ECO® ELITE¹-Z/-VG Plus Effect

1. High-end mechanical engineering => high reserve capacities & safety
2. Linear dew points => constant compressed air quality
3. Intelligent process solutions => low energy costs
4. Powerful, long-living desiccant => constant and high compressed air quality
5. User-friendly design => easy maintenance
6. Brand-name components => simplified maintenance & high operational reliability
7. Modular design => high price efficiency
8. Optional dew point control => provides more security and saves energy
9. Special designs on request; i.e. made of stainless steel or with design approvals
10. Even suitable for applications in critical environments
11. Intelligent control => plus process safety & linear dew point
12. Lower energy costs, gained by switching system or loop cooler, on request
13. Alternative powers such as hot steam optional => + energy efficiency
14. Thermal isolation of vessels on request

The Service Advantages

- Vacuum blower at the height of workbench
- Heater at comfortable working height
- Low-maintenance plug valves
- Special service kits for each dryer
- Use of standardized parts; no special tools required
- Controls are easy to use; simple menu guidance system

Standard Product Range – Heat and Vacuum Regenerated Adsorption Dryers

Each 20 types from 425 m³/h up to 15.000 m³/h.

Higher capacities available on request

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TECHNICAL DATA

Adsorption dryers-HEAT-REGENERATED						
MODEL APW-Z	Connection	Nominal vol. flow	Dimensions			
	IN/OUT	Inlet ¹	A	B	C	Mass
	DN	Nm ³ /h	mm	mm	mm	Kg
ELITE ¹ -Z -42	DN 40	425	1980	1260	1120	With Quotation
ELITE ¹ -Z-52	DN 40	520	2220	1260	1120	With Quotation
ELITE ¹ -Z-63	DN 50	630	2260	1450	1200	With Quotation
ELITE ¹ -Z-83	DN 50	830	2290	1450	1200	With Quotation
ELITE ¹ -Z-120	DN 80	1200	2670	1530	1280	With Quotation
ELITE ¹ -Z-152	DN 80	1520	2710	1610	1330	With Quotation
ELITE ¹ -Z-205	DN 80	2050	2730	1820	1430	With Quotation
ELITE ¹ -Z-245	DN 100	2450	2860	1900	1510	With Quotation
ELITE ¹ -Z-296	DN 100	2960	2890	2060	1550	With Quotation
ELITE ¹ -Z-365	DN 100	3650	2980	2220	1650	With Quotation
ELITE ¹ -Z-420	DN 150	4200	3130	2380	1680	With Quotation
ELITE ¹ -Z-480	DN 150	4800	3200	2400	1720	With Quotation
ELITE ¹ -Z-525	DN 150	5250	3500	2590	1900	With Quotation
ELITE ¹ -Z-640	DN 150	6400	3500	2610	1920	With Quotation
ELITE ¹ -Z-710	DN 150	7100	3570	2650	1960	With Quotation
ELITE ¹ -Z-860	DN200	8600	3590	4300	2000	With Quotation
ELITE ¹ -Z-920	DN200	9200	3610	4550	2000	With Quotation
ELITE ¹ -Z-1090	DN200	10900	3660	4800	2000	With Quotation
ELITE ¹ -Z-1250	DN200	12500	4000	5000	2020	With Quotation
ELITE ¹ -Z-1500	DN200	15000	4000	5150	2060	With Quotation

Correction factors														
Working pressure		4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Inlet temperature	30 C°	0,652	0,691	0,775	0,833	0,891	0,956	1,0125	1,077	1,098	1,142	1,203	1,271	1,31
Inlet temperature	35 C°	0,513	0,594	0,648	0,705	0,825	0,89	1	1,071	1,121	1,183	1,238	1,291	1,32
Inlet temperature	40 C°	-	0,402	0,433	0,492	0,561	0,626	0,6825	0,772	0,802	0,862	0,911	0,977	1,02

with external heater and vacuum pump Pressure dew point -20°C to -70°C Capacity up to 15.000 m3/h

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OPTIONS

Possible Options

- Dew point control device
- Pre-filter SMA (0,01 μ) with condensate drain
- Final filter AMF (1 μ) with manual drain
- Dryer version with regeneration in vacuum counter-flow process
- Vessel insulation for over the cylindrical length of the vessel, heater pipe and bottom pipe bridge
- Insulation with vessel heads
- Regeneration with steam-to-air exchanger
- Silicone-free version
- Change-over monitoring
- Start-up device
- Noise cancellation
- Suction filter for the heating
- Special material for vessels (e.g. stainless steel)
- Higher volume flow
- Higher inlet temperature
- Other dew points
- Other pressure ranges

Specifications

Pressure dew point	-40°C (Standard)
Medium	Compressed air and gases
Min. working pressure	4 bars g
Max. working pressure	11 bars g
Power supply	400 V / 50-60 Hz AC
Color	Blue, RA L 5010

Dimensional & Drawing



