

# S-DRYs SERIES

## MODULAR TYPE HEATLESS ADSORPTION DRYERS

operating pressure	4 to 16 bar
operating temp.range	1,5 to 50 °C
pressure dew points	-40°C (-25°C / -70°C)
flow rate	3 to 220Nm <sup>3</sup> /h

### APPLICATIONS

Compressed air system

### DESCRIPTION

S-DRY 003-220 modular adsorption dryers are designed for continuous separation of water vapour from compressed air thus reducing dew point. Operation of dryer requires two columns operated alternately.

Adsorption takes place under pressure in first column while second column regenerates with a portion of already dried compressed air at ambient pressure.

A dryer consists of two columns, filled with desiccant beads, controller with LCD display, valves, manometers, support construction and suitable filter housings with the required filter element. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.



### Advantages

- ✓ Energy efficiency thanks to low purge loss
- ✓ Compact & robust aluminum-alloy structure
- ✓ Stable pressure dew point with optional multiple filtration to ensure air quality
- ✓ Low dust adsorbent with longer service period and less filling quantity
- ✓ Buffer chambers in upper and lower end to reduce pressure drop
- ✓ Intelligent control with automatic working after powering on



TECHNICAL DATA							
Type	Connection IN/OUT	Nominal volume flow		Dimensions			Weight kg
		[Nm <sup>3</sup> /h]	[CFM]	W [mm]	D[mm]	H [mm]	
S-DRY 003S	G 1/2"	3	1,8	70	125	490	12
S-DRY 006S	G 1/2"	6	3,5	70	125	860	13
S-DRY 012S	G 1/2"	12	7,1	70	125	1050	16
S-DRY 021S	G 1/2"	21,6	12,7	125	290	675	19
S-DRY037S	G 1/2"	37,2	21,9	125	290	775	21
S-DRY 060S	G 1/2"	60	35,3	125	290	875	23
S-DRY 079S	G 1/2"	79,2	46,6	125	290	1175	28
S-DRY 108S	G 1"	108	63,5	125	380	1175	38
S-DRY 147S	G 1"	147	86,5	125	505	1175	54
S-DRY 220S	G 1"	220	129,9	125	645	1175	72

Refers to 1bar(a) and 20°C at 7 bar operating pressure, inlet temperature 35°C and pressure dew point at outlet -40°C.

Operating pressure range	4 to 16 bar
Operating temperature range	+1,5 °C to +50 °C
Pressure dew points	-40°C (-25 °C / -70 °C)
Voltage, frequency	230V, 50/60 Hz
Power consumption	<60 W
Protection class	IP 65
Filter (inlet)*	super fine - 0,01 µm
Filter (outlet)*	dust filter; 1 µm



CORRECTION FACTORS - F1															
Operating pressure	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2	2,13
CORRECTION FACTORS - F2							DEW POINT								
Inlet temperature [°C]	25	30	35	40	45	50	[°C]	-25	-40	-70					
Correction factor	1,00	1,00	1,00	0,97	0,87	0,80	C <sub>D</sub>	1,1	1	0,7					