

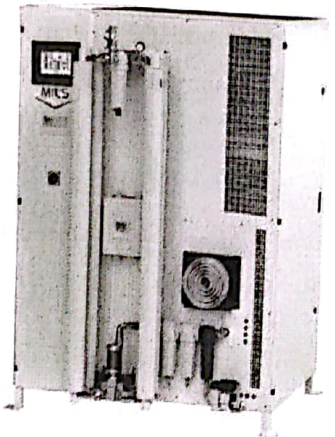
PSA HOSPITAIR® SCROLAIR PACK



Oil-less scroll technology



- Medicinal air plant fit to the EN ISO 7396-1 standard, HTM BS and NFPA either 2 sources, or 3 sources of medicinal air supply for Oxygen generator
- Oil-less scroll compression head fixed on a sliding support to facilitate maintenance access
- Ultra compact design, low noise level
- Air treatment system with adsorption air dryer SEC 7HC type for medical O₂
- Integrated hygrometry sensor and network alarm
- Air quality complying with European pharmacopoeia
- PROCOM 2 control device



Characteristics per air production assembly

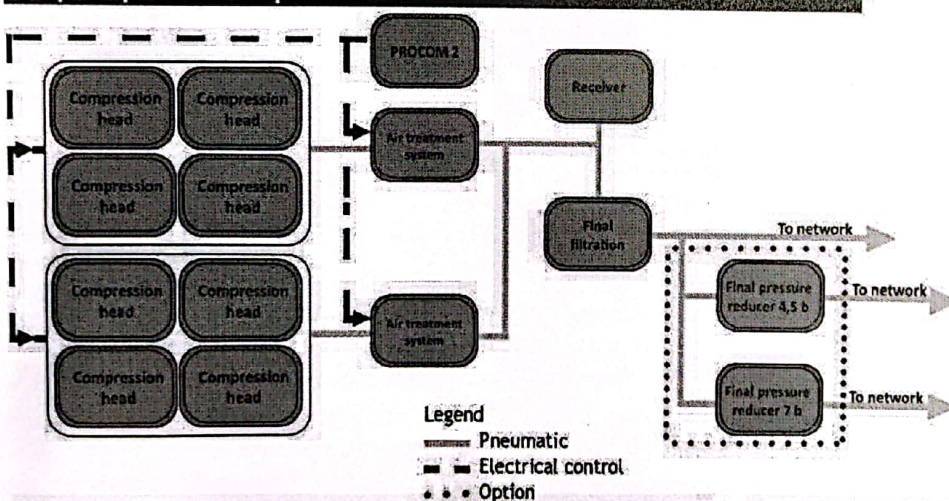
HOSPITAIR® SCROLAIR PACK	Flow rate m ³ ·h ⁻¹	Power kW	Air dryer type	Noise level dB(A)	Weight kg	
						at 10 bar
10 bar - 50/60 Hz 3E40R 1 head	58,6	72	11	1 x AD5065	64	295
MVB12 2 heads	87,9	108	11	1 x AD5130	65	312
17K53 3 heads	117,2	144	16,5	1 x AD5130	66	476
58SP2 4 heads	146,5	180	30	1 x AD5195	67	625
BSD55 5 heads	175,8	216	55	1 x AD5195	68	1140
MVF55 6 heads	196,5	235	55	1 x AD5195	69	1290

* Total compressor flow rate / Scroll RPM at 8bar = + 657 RPM

Standard configuration example

- For an HOSPITAIR SCROLAIR PACK plant with 3 packages
- 1 HOSPITAIR SCROLAIR PACK Principal plant 3 lines PROCOM 2
 - 2 HOSPITAIR SCROLAIR PACK PILOTED plants

Duplex process sequence



Range complying with 93/42/CEE directive

Available set-up

	1 production package	2/3 production packages	4 production packages
PROCOM 2	■	■	■
CO monitoring	◆	◆	◆

■ Standard equipment ◆ Optional equipment

Specifications are subject to be changed without notice

Power supply

- 3-phase, 400V+N+E / 50Hz (standard)
- Other tensions and frequencies on request





Compressed Air Dryers

Refrigerant Dryers

We know the importance of high quality compressed air and guarantee to provide you the highest available quality air in the market.

Using clean and dry air is very important for all kinds of applications. The moisture and contaminants which will come from the standard compressor outlet will cause important system failures and decrease the productivity. Bad quality air will not just affect the production processes; it will also affect the quality of the final products.

Advantages

- Low pressure drop saves compressor power
- Quick start and reaction time gives you additional time to work
- Each dryer is specially designed with the right components to consume lowest energy.
- The highly energy efficient R134a refrigerant is standard for the whole range.
- State of the art heat exchanger is one of the highest cost saving in the market.
- Best class refrigerant compressors consume less energy.
- Pressure switches control the condenser's fan motor for saving energy and letting the system always operate at desired conditions.



The SDE Series Refrigerant Circuit and Insulation

We only use R134a refrigerant gas in the dryers which is environmentally friendly. This refrigerant is suitable for low temperature as well as for high temperature applications. Excellent thermodynamic properties are the main advantage. It operates at lower pressure than many other refrigerants which increases the compressor life.

With R134a the dryers give the flexibility to work in high ambient temperatures. On top of that engineers add extra power to the heat exchangers with our excellent and extraordinary no loss insulation system. Dryers supply constant dew point at all flow ranges. The perfect insulation idea continues also on the refrigerant circuit side. Thanks to the perfect insulation and the oversized condensers (even for ultra-high ambient temperatures) refrigerant air dryers offer the highest technology with its custom solutions.



Compressed Air Dryers

Technical Specifications

Model	Capacity (m³/h)	Voltage	Connection Size	Filter Type	Pressure drop (mbar)	Control Type	Dimensions			Weight (kg)
							Length (mm)	Width (mm)	Height (mm)	
SDE-25	23	230-1-50	1/2"	GKO45 + Y	115	Digipro	423	393	567	32
SDE-40	38	230-1-50	1/2"	GKO45 + Y	170	Digipro	423	393	567	32
SDE-55	53	230-1-50	1/2"	GKO45X + Y	280	Digipro	423	393	567	32
SDE-70	70	230-1-50	1/2"	GKO070X + Y	250	Digipro	423	393	567	35
SDE-100	100	230-1-50	3/4"	GKO150X + Y	100	Digipro	473	453	832	51
SDE-160	155	230-1-50	3/4"	GKO150X + Y	220	Digipro	473	453	832	53
SDE-190	190	230-1-50	3/4"	GKO150X + Y	320	Digipro	473	453	832	55
SDE-210	210	230-1-50	1 1/2"	GKO500X + Y	220	Digipro	553	503	874	78
SDE-310	305	230-1-50	1 1/2"	GKO500X + Y	320	Digipro	553	503	874	83
SDE-380	375	230-1-50	1 1/2"	GKO500X + Y	200	Digipro	553	503	874	86
SDE-500	495	230-1-50	2"	GKO851X + Y	310	Digipro	678	648	1157	160
SDE-600	588	230-1-50	2"	GKO1210X + Y	210	Digipro	678	648	1157	165
SDE-830	825	230-1-50	2"	GKO1210X + Y	120	Digipro	948	728	1370	220
SDE-1100	1100	230-1-50	2"	GKO1210X + Y	160	Digipro	948	728	1370	230
SDE-1300	1310	400-3-50	3"	GKO1820X + Y	310	Digipro	948	798	1460	270
SDE-1650	1628	400-3-50	3"	GKO1820X + Y	320	Digipro	948	798	1460	285
SDE-2200	2200	400-3-50	3"	GKO2700X + Y	150	Digipro	1163	778	1725	392
SDE-2600	2620	400-3-50	3"	GKO2700X + Y	310	Digipro	1163	778	1725	410
SDE-3150	3144	400-3-50	DN100	EXTERNAL	240	Digipro	1397	847	1770	492
SDE-3700	3996	400-3-50	DN100	EXTERNAL	340	Digipro	1397	847	1770	520
SDE-4800	4800	400-3-50	DN100	EXTERNAL	280	ESD-3	1467	1077	1930	696
SDE-5500	5522	400-3-50	DN100	EXTERNAL	310	ESD-3	1467	1077	1930	718
SDE-6600	6584	400-3-50	DN150	EXTERNAL	280	ESD-3	2188	1062	1925	900
SDE-7450	7434	400-3-50	DN150	EXTERNAL	310	ESD-3	2188	1062	1925	925
SDE-8500	8496	400-3-50	DN150	EXTERNAL	310	ESD-3	2697	897	1975	975
SDE-9900	9912	400-3-50	DN200	EXTERNAL	310	ESD-3	2697	897	1975	1100
SDE-11800	11800	400-3-50	DN200	EXTERNAL	310	ESD-3	2550	1550	2100	1600

Capacity is given at atmospheric pressure at 20°C (ISO 1217) in accordance with ISO8573.1 (7 bar—35°C Inlet—25°C Ambient—60% Relative Humidity).

Dryers are ISO8573.1 Class 1.4.1 depending on the inlet conditions.

CORRECTION FACTORS FOR SDE DRYERS								
Inlet temperature (°C)	30	35	40	45	50	60		
F1	1,29	1	0,92	0,78	0,65	0,45		
Ambient temperature (°C)	20	25	30	35	40	50		
F2	1,05	1	0,98	0,93	0,84	0,7		
Pressure (bar)	4	6	7	8	10	12	14	16
F3	0,8	0,94	1	1,04	1,11	1,16	1,22	1,25

FOR ALL MODELS	
Maximum pressure	16 bar(g)
Maximum ambient temperature	50°C
Minimum ambient temperature	5°C
Maximum inlet temperature	60°C
Refrigerant	R134a

Example for choosing the correct dryer: If an air compressor delivers 200 m³/h at 6 bars, the dryer inlet temperature is 40°C and the ambient temperature is 30°C, than choose your dryer as follows:
 $200 / 0.94 / 0.92 / 0.98 = 236 \text{ m}^3/\text{h}$. The correct dryer is SDE-310.

MIL'S reserves its rights to change the specifications without any prior notice