

Compressed air treatment

SEC A to SEC 7HC

Air treatment unit by adsorption

- Dew point at -70°C for delivery air
- High quality air
- Permissible maximum pressure: 16 bar
- Air dryer with expendable tubes
- Simple and easy installation.

Filter types

- **CY :** Cyclonic filtration
- **PF :** 1 µm micronic filtration
- **SUB :** 0.01 µm submicronic filtration
- **ER :** Electro-cooler to stimulate condensate by temperature lowering (Oil-free scroll compressors and lubricated piston compressors)
- **CHA :** Active carbon filter for odours elimination
- **MC :** Carbon monoxide filtration
- **PAR :** 0.01 µm particles filtration
- **BAC :** Bacterial filtration
- **OX Tube :** Dryer tube with molecular sieve (SEC A/1A/2A)
- **HC Tube :** Dryer tube with molecular sieve - Patented system (SEC 7HC)



Process sequence



Combination

TYPE	PREFILTRATION				DRYING			FILTRATION	DELIVERY
	ER	CY	PF	SUB	AD DRYER	MC	CHA	SUB	PAR
SEC A	◆	◆			■		■		
SEC 1A	◆	◆	■		■		■		
SEC 2A	◆	◆	■	■	■		■	■	
SEC 7HC	◆	■	■	■	■	■	■		■

Air quality complying *

TYPE	Quality class
SEC 1A	2, 1, 3
SEC 2A	1, 1, 2
SEC 7HC	1, 1, 1 or 0, 1, 0

* ISO 8573-1 Standard

Schedule for flow rate corrections according to the operation pressure

Pressure Bar	7	8	10	11	14	16
Coeff.P	0,84	0,89	1	1,1	1,18	1,26

Schedule for flow rate corrections according to inlet temperature °C

Inlet temperature °C	+25	+30	+35	+40	+45	+50
T coeff. for dew point at -45°C in reduced air	1,25	1,15	1	0,85	0,62	0,5

Percentage of regeneration gas taken from the inlet air flow rate according to the pressure, the air temperature and the expected dew point

Percentage of taken air according to the inlet temperature and the operating pressure

Expected dew point at reduce pressure	Inlet temperature °C	+ 25			+ 30			+ 35 standard			+ 40			+ 45			+ 50		
		7	10	15	7	10	15	7	10	15	7	10	15	7	10	15	7	10	15
< -25°C	Percentage	11	8	6	11	8	6	14	10	7	18	13	9	23	17	12	29	21	15
< -40°C	Percentage	12	9	7	12	9	7	15	11	8	19	14	10	24	18	13	30	22	16
< -60°C	Percentage	20	14	11	20	14	11	23	16	12	27	19	14	31	23	17	38	27	20

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Filtration devices and replacement parts references

Maxi pressure : 16 bar. Flow rates given at 10 bar at 35°C, to be corrected further to schedules page 70

	AD5035 35 m ³ .h ⁻¹	AD5065 65 m ³ .h ⁻¹	AD5130 129 m ³ .h ⁻¹	AD5195 195 m ³ .h ⁻¹	AD5260 260 m ³ .h ⁻¹	AD5325 325 m ³ .h ⁻¹	AD5455 455 m ³ .h ⁻¹
SEC A	823777	823778	823779	823780	823853	823854	823917
SEC 1A	PF36 - AD5035 924126	PF72 - AD5065 924127	PF109 - AD5130 924128	PF217 - AD5195 924130	PF217 - AD5260 924131	PF396 - AD5325 924132	PF396 - AD5455 924354
SEC 2A	PF36 - SUB36 AD5035 SUB36 924133	PF72 - SUB72 AD5065 SUB72 924134	PF109 - SUB109 AD5130 SUB109 924135	PF217 - SUB217 AD5195 SUB217 924137	PF217 - SUB217 AD5260 SUB217 924138	PF396 - SUB396 AD5325 SUB396 924139	PF396 - SUB396 AD5455 SUB396 924355
SEC 7HC with electro-cooler (for piston compressors)	CY10 PF36 - SUB36 AD5035 - CHA36 924124	CY20 PF72 - SUB72 AD5065 - CHA72 924125	---	---	---	---	---
SEC 7HC with electro-cooler (for scroll compressors)	CY10 PF36 - SUB36 AD5035 - CHA36 924421	CY20 PF72 - SUB72 AD5065-CHA72 924957	--	---	---	---	---
SEC 7HC with cyclonic filter on ground (without connector)	CY10 PF36 - SUB36 AD5035-CHA36 924409	CY20 PF72 - SUB72 AD5065-CHA72 924407	CY20 PF109 - SUB109 AD5130-CHA109 924419	CY30 PF217 - SUB217 AD5195-CHA217 924498	CY30 PF217 - SUB217 AD5260-CHA217 924503	CY30 PF396 - SUB396 AD5325-CHA396 924504	CY30 PF396 - SUB396 AD5455-CHA396 924505
SEC 7HC without cyclonic filter on ground	---	---	---	---	PF217 - SUB217 AD5260-CHA217 924367	PF396 - SUB396 AD5325-CHA396 924368	PF396 - SUB396 AD5455-CHA396 924369
CYCLONIC filter	CY10 -3/8 " 430026	CY20 -3/4 " 430027	CY20 -3/4 " 430027	CY30 -1 " 430028	CY30 -1 " 430028	CY30 -1 "1/4 430029	CY30 -1 "1/4 430029
Cartridge for replacement							
PF cartridge 1 µm	PF36 430031	PF72 430032	PF109 430033	PF217 430034	PF217 430034	PF396 430035	PF396 430035
SUB cartridge 0,01 µm	SUB36 430040	SUB72 430041	SUB109 430042	SUB217 430043	SUB217 430043	SUB396 430044	SUB396 430044
OX tube equipped for replacement	2 x T35OX 2 x 724189	2 x T65OX 2 x 724190	4 x T65OX 4 x 724190	6 x T65OX 6 x 724190	8 x T65OX 8 x 724190	8 x T65OX 8 x 724190	14 x T65OX 14 x 724190
HC tube equipped for replacement	2 x T35HC 2 x 724060	2 x T65HC 2 x 724061	4 x T65HC 4 x 724061	6 x T65HC 6 x 724061	8 x T65HC 8 x 724061	10 x T65HC 10 x 724061	14 x T65HC 14 x 724061
Recovery and destruction	used dryer tube			624355			

Accessories and option references

① HYGROMIL'S 2000 complete dew point monitor	4/20 mA output and ON/OFF contactor	715810
② HYGROMIL'S 2000 dew point probe alone	without indicator, 4/20 mA output only if compressors controlled by PM2 or C2020	715745
③ COMBI automatic sequential drain	Under CY/PF/SUB filters (1-ph 230 V)	625189
④ BEKO 12 electronic drain	Under CY/PF/SUB filters (1-ph 230 V)	615160



② HYGROMIL'S 2000 probe

HYGROMIL'S 2000 ①



COMBI ③

④ BEKO 12



Specifications are subject to be changed without notice