Compressed air conditioning

The basis for outstanding compressed air quality

schneider airsystems

Efficient compressed air systems & services

for small and medium companies

JAG MAR | ul. Złota 36 | 62-800 Kalisz | tel. 62 766 31 01 | www.jag-mar.pl | biuro@jag-mar.pl

Application recommendation

The compressed air cold dryer and adsorption dryer dry the moist compressed air that comes from the compressor to protect downstream components as well as increase the productivity and economic efficiency of your compressed air system.

Application recommendation

Condensate dischargers automatically discharge the condensate from vessels, filters and compressed air dryers. The dischargers are extremely low-maintenance due to the electronic level measurement function and are suitable for compressed air systems up to 15 bar.

Application recommendation

Oil-water separators use an automatic separation process and multiple-stage cleaning process to purify condensate containing oil. They represent an environmentally friendly cost-saving solution for separating condensate.

Application recommendation

Achieve maximum compressed air quality and outstanding working results with our filters and maintenance units – from prefilters and microfilters to activated carbon filters.

COMPRESSED AIR DRYERS, FILTERS & CONDENSATE TECHNOLOGY

Excellent air quality for your applications

Save money!

The correct conditioning of compressed air guarantees outstanding working results and minimises additional processing costs. You also extend the service life of your pneumatic tools and machines as well as reducing maintenance work on your compressed air system.

Depending on the compressed air quality you require for your application, several conditioning stages are usually required to achieve the relevant compressed air quality class.

Compressed air quality classes according to DIN ISO 8573

Class	Particles (dirt)		Water (condensate)		Oil
	Particle size [µm max.]	Particle density [mg/m³ max.]	Pressure dew point [°C]	Water content [g/m³]	Residual oil content [mg/m³]
0	<0.1	<0.1	< -70 °C	<0.003	<0.01
1	0.1	0.1	-70 °C	0.003	0.01
2	1	1	-40 °C	0.11	0.1
3	5	5	-20 °C	0.88	1
4	15	8	+3 °C	6	5
5	40	10	+7 °C	7.8	25
6	>40	>10	+10 °C	9.4	> 25
7	–	–	> +10 °C	> 9.4	–

Choose a more energy-efficient dryer!

When purchasing a cold dryer, always bear in mind that conventional dryers operate in continuous control mode and permanently consume energy, even if no air is consumed, resulting in high operating costs. Our dryers with ECO energy-saving function on the other hand only consume the energy that is actually required for drying, and automatically switch to stand-by mode when air consumption stops or during times of low capacity utilisation.

Design data for compressed air dryers and filters

Performance data for compressed air cold dryers

The performance specifications of our compressed air cold dryers are based on an operating pressure of 7 bar, an air inlet temperature of 35 °C and an ambient temperature of 25 °C. For other pressures or temperatures, please refer to the factors (f) that correspond to your values in the tables below.

With other operating pressures p_1, multiply the flow volume by factor (f_1):

p_1 [bar]	3	4	5	6	7	8	9	10	11	12	14	16
(f_1)	0.75	0.85	0.90	0.95	1.00	1.04	1.07	1.10	1.12	1.14	1.18	1.20

With other compressed air inlet temperatures t_1, multiply the flow volume by factor (f_2):

t_1 [°C]	30	35	40	45	50
(f_2)	1.25	1.00	0.85	0.75	0.60

With other cooling medium temperatures t_c, multiply the flow volume by factor (f_3):

t_c [°C]	25	30	35	40	45
(f_3)	1.00	0.96	0.92	0.88	0.80

For other pressure dew points t_{dp}, multiply the flow volume by factor (f_4):

t_{dp} [°C]	3	5	7	9
(f_4) ECO	1	1.2	1.35	1.45

Correction factors for compressed air filters

With other operating pressures (p_1), multiply the flow volume of the filter by factor f:

p_1 [bar]	1	2	3	4	5	6	7	8	9	10	12	16
(f)	0.138	0.53	0.65	0.76	0.84	0.92	1.00	1.07	1.13	1.19	1.31	2.13

Conversion factor for operating pressure/compressed air inlet temperature for adsorption dryers

Operating pressure	35 °C	40 °C	45 °C	50 °C
5 bar	0.75	0.64	0.61	0.59
6 bar	0.89	0.78	0.73	0.67
7 bar	1.00	0.91	0.82	0.79
8 bar	1.08	1.00	0.94	0.86
9 bar	1.26	1.08	1.03	0.99
10 bar	1.31	1.16	1.07	1.03
11 bar	1.36	1.24	1.10	1.07
12 bar	1.49	1.36	1.23	1.18
13 bar	1.62	1.47	1.35	1.29
14 bar	1.71	1.57	1.46	1.38
15 bar	1.79	1.67	1.57	1.46
16 bar	1.90	1.77	1.66	1.55

Pictograms and their meaning

With integral electronic elements

Dryer model overview

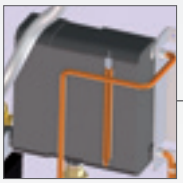
Model	Art. no.	Volume flow at pressure dew point +3°C [l/min]	Volume flow at pressure dew point +7°C [l/min]	Volume flow at pressure dew point -40°C [l/min]	Air outlet [inches]	Page in the catalogue
DK 600 ECO	H612075	600	810		G 3/4"i	8
DK 985 ECO	H612114	985	1330		G 3/4"i	8
DK 1500 ECO	H612162	1500	2025		G 3/4"i	8
DK 2200 ECO	H612222	2200	2970		G 1 1/2"i	8
DK 3500 ECO	H612360	3500	4725		G 1 1/2"i	8
DK 5000 ECO	H612540	5000	6750		G 1 1/2"i	8
DK 7100 ECO	H612720	7100	9585		G 2"i	8
DK 10000 ECO	H612105	10000	13500		G 2"i	8
DRY-DAT 120	H604012			133	1/4"i	9
DRY-DAT 230	H604023			250	1/4"i	9
DRY-DAT 350	H604035			416	1/4"i	9
DRY-DAT 580	H604058			583	1/4"i	9
DRY-DAT 850	H604085			933	3/8"i	9
DRY-DAT 1200	H604120			1200	3/8"i	9
DRY-DAT 1400	H604140			1433	1/2"i	9

Compressed air dryer

Dry air – the basis for all applications

Example: Compressed air cold dryer DK 600 ECO

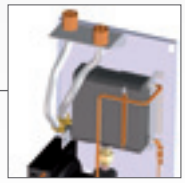
Maximum operating safety of production systems through continuous operation with stable dew point



Efficient cooling through vertically positioned stainless steel plate heat exchanger

Energy-saving even when used sporadically due to ECO switch-off function

Energy-saving heat transfer: warm compressed air entering is pre-cooled by cold air escaping



Extremely low maintenance self-cleaning vertical arrangement of rust-free heat transfer areas reduces dirt quantities

Compressed air cold dryers dry the moist compressed air that comes from the compressor to protect downstream components as well as increase the productivity and economic efficiency of your compressed air system. The dryers from Schneider airsystems use pioneering technology, are exceptionally powerful and reliable and keep pressure losses to a minimum.

Compressed air cold dryer ECO

Compressed air cold dryer ECO

- Air dried consistently to a pressure dew point of 3°C by Super-Dry Technology for maximum operating safety and perfect working results
- Energy-saving ECO mode: Fan and cold compressor switch off if air is not drawn from the unit for a certain time.
- Energy-saving heat transfer: warm compressed air entering is pre-cooled by cold air escaping from the air/air heat exchanger
- Stainless steel plate heat exchanger with self-cleaning effect for outstanding cooling and a long service life

✓	ECO energy-saving function
✓	Heat exchangers with large flow cross-sections ensure constantly low pressure losses
✓	Electronic level-controlled condensate discharger
✓	Tendency indicator for monitoring the cooling temperature

Type	Art. no.	Volume flow[1] at pressure dew point +3 °C (l/min)	Volume flow[1] at pressure dew point +7 °C (l/min)	Power input (kW)	Pressure loss (bar)	Voltage (V)	Weight (kg)	Air outlet	Dimensions (W x D x H)
DK 600 ECO	**H612075**	600	810	0.20	0.20	230	24	G 3/4" i	325x263x745
DK 985 ECO	**H612114**	985	1330	0.30	0.25	230	25	G 3/4" i	325x263x745
DK 1500 ECO	**H612162**	1500	2025	0.40	0.25	230	34	G 3/4" i	325x263x745
DK 2200 ECO	**H612222**	2200	2970	0.50	0.16	230	48	G 1 1/2" i	410x415x845
DK 3500 ECO	**H612360**	3500	4725	0.75	0.28	230	56	G 1 1/2" i	410x415x845
DK 5000 ECO	**H612540**	5000	6750	1.00	0.21	230	111	G 1 1/2" i	670x550x844
DK 7100 ECO	**H612720**	7100	9585	1.30	0.22	230	170	G 2" i	670x550x844
DK 10000 ECO	**H612105**	10000	13500	1.80	0.23	230	195	G 2" i	752x695x1100

[1] Flow rate in acc. with ISO 7183, compressed air temperature 35 °C, ambient temperature 25 °C, inlet pressure at cold dryer 7 bar (high pressure). Compressed air inlet temperature max. 50 °C, operating pressure max. 16 bar (high pressure).

Additional technical features: With electric connection cable as standard

Tip Always protect your cold dryer from contaminants with a pre filter because solid particles can clog the plate exchanger.

Bypass line

- Dryer can be bypassed during maintenance for greater operational safety

Type	Art. no.	Version
UGL 3/4	**B110172**	
UGL 1 1/2	**B110175**	for DK 2200 / 3500 ECO only

Mounting kit

- Can be retrofitted to stationary piston compressors (UniMaster STS) on 270 l or 500 l vessel

Type	Art. no.
ABZ-DK ECO 1	**B612000**

“Cooling” adsorption dryer

Adsorption dryer

- Air dried consistently to a pressure dew point of -40°C for a high degree of process security and perfect working results
- Energy-saving with 12 pressure changes per hour for max. regeneration air requirements of 14.3 %
- Longer service life: Collecting chamber within the moist zone protects the drying agent from concentrated moisture

Dew point-dependent control system with digital display	✓
Pressure dew point can be preset easily	✓
LED function displays on the front of the switch cabinet for: power, adsorption, regeneration and economy cycle	✓
Potential-free output	✓
With pre filter and downstream filter	✓

Type	Art. no.	Volume flow[1] at pressure dew point -40°C (l/min)	Weight (kg)	Air outlet	Dimensions (W x D x H)
DRY-DAT 120	**H604012**	133	9	1/4" i	312x210x390
DRY-DAT 230	**H604023**	250	13	1/4" i	312x210x565
DRY-DAT 350	**H604035**	416	17	1/4" i	359x210x815
DRY-DAT 580	**H604058**	583	24	1/4" i	359x210x1085
DRY-DAT 850	**H604085**	933	52	3/8" i	436x300x1160
DRY-DAT 1200	**H604120**	1200	65	3/8" i	436x300x1410
DRY-DAT 1400	**H604140**	1433	77	1/2" i	436x300x1610

[1] Compressed air inlet temperature 35°C, ambient temperature 20°C, operating pressure 7 bar. Compressed air inlet temperature max. 50°C/min. 5°C, operating pressure max. 16 bar/ min. 5 bar

Additional technical features: An adsorption dryer with a pressure dew point of -40°C achieves class 2 residual moisture according to ISO 8573-1.

Condensate dischargers

Energy saving and reliable – automatic condensate discharger

Automatic drainage of generated condensate reduces maintenance work

Permanent drainage of aggressive condensate **preserves the vessel and extends its service life**

2.5 m connection cable **ready to install**

Lower air losses due to electronic level measurement function

Example: Condensate discharger Ecomat 3100

Condensate dischargers automatically discharge the condensate from vessels, filters and compressed air dryers. The dischargers are extremely low-maintenance due to the electronic level measurement function and are suitable for compressed air systems up to 15 bar.

Condensate discharger

Condensate discharger Ecomat

- Automatic drainage of generated condensate reduces maintenance work
- Permanent drainage of aggressive condensate preserves the vessel and extends its service life
- Less air lost due to electronic level measurement function
- For all applications up to 16 bar

Ready to install with 2.5 m connection cable	✓
Simple installation using attachment set	✓
Compact design	✓

Type	Art. no.	for quantity delivered (l/min)	Weight (kg)	Compressed-air supply	Dimensions (W x D x H)
KAL-Ecomat 3100	**D605023**	2500	0.80	G1/2" i	149x65x118
KAL-Ecomat 4500	**D605025**	6300	0.85	G 1/2" i	150x65x141
KAL-Ecomat 20000	**D605030**	28000	2.0	G 1/2" i	212x93x162

Tip

Avoid using float divertors or divertors with a time-controlled drain because they are maintenance-intensive and consume large quantities of energy.

Mounting kit

- For Ecomat condensate discharger on pressure vessels, cold dryers and filters

Type	Art. no.	Adapted for
ABZ-Eco 3000 B	**B605082**	Pressure vessel 90 l horizontal manufactured from 1997
ABZ-Eco 3000 BST	**B605086**	UniMaster STA, 10+Master STA
ABZ-Eco 3000 AM	**B605085**	AirMaster on vessel
ABZ-Eco 3000 F	**B605084**	Filter DFP 6 to DFP 160 and DVP 6 to DVP 160
ABZ-Eco 4500 B	**B605080**	all pressure vessels (except 90 l horizontal) and all pressure vessels vertikal without pressure line

Condensate collection pipe

- For channelling condensate from the compressed air vessel, cold dryer or filter into the oil-water separator

Type	Art. no.	Condensate inlets (piece(s))
KSL 2	**B605062**	2
KSL 3	**B605063**	3
KSL 4	**B605061**	4

Oil-water separators

Economical and ecological – oil-water separating systems

Multiple cleaning stages for environmentally friendly disposal of condensate according to §7a of the Water Resources Act

Particularly simple and efficient due to automatic separation of oil and water

Economical solution as only the separated oil needs to be discarded

Example: OWS-Öwamat 12

Oil-water separators use an automatic separation process and multiple-stage cleaning process to purify condensate containing oil. They represent an environmentally friendly cost-saving solution for separating condensate and allow the oil to be discharged into the sewage system as specified in §7a of the Water Resources Act.

Oil-water separation devices

Oil-water separator, Öwamat

- Environmentally friendly disposal of condensate according to §7a of the Water Resources Act
- Extremely efficient – automatic isolation and multiple cleaning stages
- Cost-effective solution due to separate purification

Type	Art. no.	for quantity delivered (l/min)	Weight (kg)	Dimensions (W x D x H)
OWS-ÖWAMAT 10	**H601001**	2400/1700	3.5	290x222x528
OWS-ÖWAMAT 11	**H601002**	4900/3400	5.8	387x260x595
OWS-ÖWAMAT 12	**H601003**	7300/5100	12.0	350x397x719
OWS-ÖWAMAT 14	**H601004**	14600/10100	16.0	410x461x892

Tip

Compressed air condensate often consists of 99 % water and 1 % oil. It is therefore always more favourable to purify condensate using oil/water separation systems than choose cost-intensive disposal by specialist companies.

Filter element for oil-water separator

Type	Art. no.
FE-Öwamat 10	**B201023**
FE-Öwamat 11	**B201024**
FE-Öwamat 12	**B201025**
FE-Öwamat 14	**B201026**

- Incl. prefilter

Maintenance units and filters

Excellent air quality for every application

Pressure regulator with piston **for high operational reliability**

Regular oil flow **for efficient supply to tools**

Centrifugal acceleration of compressed air **for efficient separation of dirt particles and condensate**

Fully assembled maintenance unit consisting of a filter pressure reducer and mist oiler **ready for immediate use**

Example: 2-way filter unit

Achieve maximum compressed air quality and outstanding working results with our filters and maintenance units – from prefilters and microfilters to activated carbon filters.

Filter

Cyclone separator

- Centrifugal acceleration of compressed air for efficient separation of dirt particles and condensate
- Including condensate discharger with integrated float valve
- Installed between compressor and vessel

Type	Art. no.	Volume flow (l/min)	Air outlet	Weight (kg)	Dimensions (mm)
ZA 5500	**D640055**	5500	R 1" i	2.2	367 x 109

Tip

Extremely effective – often underestimated! Under certain conditions, the cyclone separator can extract up to 90 % of the moisture from compressed air.

Preliminary filter

- Separation of condensate and solid contaminants with particles up to 15 em for efficient preliminary purification of the working air
- Particle size, class 4: ≤15 µm
- Particle density, class 3: ≤5 mg/m³
- Residual oil content, class 4: ≤5 mg/m³
- Installed upstream of the cold dryer

Standard feature VP filter element	✓
With float valve as standard	✓

Type	Art. no.	Volume flow (l/min)	Compressed-air supply	Weight (kg)	Dimensions (mm)
VF-DVP 6	**D640700**	700	R 3/8" i	0.6	200x70
VF-DVP 10	**D640701**	1300	R 1/2" i	1.1	240x105
VF-DVP 15	**D640702**	1900	R 1/2" i	1.2	295x105
VF-DVP 30	**D640703**	3000	R 3/4" i	2	300x125
VF-DVP 45	**D640704**	5200	R 1" i	2.4	420x125
VF-DVP 80	**D640706**	8500	R 1 1/2" i	3.2	452x125

Tip

A single compressed-air system with compressed air dryer, pre filter, microfilter and activated carbon filter guarantees the best working results and maximum operating safety.

Accessories for prefilters

Type	Art. no.
F-VP 6	**B640700**
F-VP 10	**B640701**
F-VP 15	**B640702**
F-VP 30	**B640703**
F-VP 45	**B640704**
F-VP 80	**B640706**

- Replacement filter element

Filter

Micro filter

- Separation of extremely fine oil and water aerosols and solid contaminants with particles up to 0.01 em for final purification of the working air
- Particle size, class 1: ≤0.1 µm
- Particle density, class 1: ≤0.1 mg/m³
- Residual oil content, class 1: ≤0.01 mg/m³
- Installed downstream of the cold dryer

✓ Standard feature FP filter element

✓ With float valve as standard

Type	Art. no.	Volume flow (l/min)	Compressed-air supply	Weight (kg)	Dimensions (mm)
FF-DFP 6	**D640710**	700	R 3/8" i	0.6	200x70
FF-DFP 10	**D640711**	1300	R 1/2" i	1.1	240x105
FF-DFP 15	**D640712**	1900	R 1/2" i	1.2	295x105
FF-DFP 30	**D640713**	3000	R 3/4" i	2.0	300x125
FF-DFP 45	**D640714**	5200	R 1" i	2.4	420x125
FF-DFP 80	**D640716**	8500	R 1 1/2" i	3.2	452x125

Tip A single compressed-air system with compressed air dryer, pre filter, microfilter and activated carbon filter guarantees the best working results and maximum operating safety.

Accessories for microfilters

- Replacement filter element

Type	Art. no.
F-FP 6	**B640710**
F-FP 10	**B640711**
F-FP 15	**B640712**
F-FP 30	**B640713**
F-FP 45	**B640714**
F-FP 80	**B640716**

Differential pressure gauge

- Differential pressure manometer for the prefilter and microfilter (6-45) available as an optional extra. Provides information on whether the filter element is fully functional or needs replacing.

Type	Art. no.
MM-DDM-F	**B640503**

Tip Only visible for flow pressure.

Filter

Activated carbon filters

- For separating oil vapours, aroma and flavouring additives to achieve the best compressed air quality
- Particle size, class 1: ≤0.1 µm
- Particle density, class 1: ≤0.1 mg/m³
- Residual oil content, class 1: ≤0.008 mg/m³
- Installed downstream of the microfilter

With FP filter element ✓

Type	Art. no.	Volume flow (l/min)	Compressed-air supply	Weight (kg)	Dimensions (mm)
AF-DAP 6	**D640720**	700	R 3/8" i	0.6	200x70
AF-DAP 10	**D640721**	1300	R 1/2" i	1.1	240x105
AF-DAP 15	**D640722**	1900	R 1/2" i	1.2	295x105
AF-DAP 30	**D640723**	3000	R 3/4" i	2.0	300x125
AF-DAP 45	**D640724**	5200	R 1" i	2.4	420x125
AF-DAP 80	**D640726**	8500	R 1 1/2" i	3.2	452x125

Tip

A single compressed-air system with compressed air dryer, pre filter, microfilter and activated carbon filter guarantees the best working results and maximum operating safety.

Accessories for activated carbon filters

Type	Art. no.
F-AP 6	**B640720**
F-AP 10	**B640721**
F-AP 15	**B640722**
F-AP 30	**B640723**
F-AP 45	**B640724**
F-AP 80	**B640726**

- Replacement filter element

Angular bracket

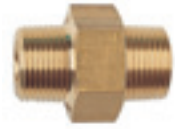
Type	Art. no.
WKB-F-G3/8	**B640399**
WKB-F-G1/2	**B640400**
WKB-F-G3/4	**B640401**
WKB-F-G1	**B640402**
WKB-F-G1 1/2	**B640404**

- For mounting the complete filter DVP, DFP, DAP and filter combinations to the wall.

Double nipple

Type	Art. no.
DNL-MS-R3/8a x R3/8a	**E030054**
DNL-MS-R1/2a x R1/2a	**E030055**
DNL-MS-R3/4a x R3/4a	**E030056**
DNL-MS-R1a x R1a	**E030057**
DNL-R1 1/2a x R1 1/2a	**G004123**

- For connecting several complete filters to create a combination of filters



Maintenance units

Pressure reducer

- Pressure regulator with piston for high operational reliability
- High stability of adjusting pressure, even if the input pressure or the flow rate changes
- Installation independent of flow direction because pressure gauge can be connected on both sides

- ✓ Locking control knob
- ✓ Regulation range 0-12 bar
- ✓ Standard features include: pressure gauge

Type	Art. no.	Connecting thread	Connection for pressure gauge	Dimensions (W x D x H)
DM 1/4 W	D202002	G 1/4"i	G 1/8"i	42x42x94
DM 3/8 W	D302002	G 3/8"i	G 1/8"i	60x60x130
DM 1/2 W	D402002	G 1/2"i	G 1/8"i	60x60x130
DM 3/4 W	D502002	G 3/4"i	G 1/4"i	80x80x184
DM 1 W	D602002	G 1"i	G 1/4"i	80x80x184

Water separator with filter

- Centrifugal acceleration of compressed air for efficient separation of dirt particles and condensate
- Filtering function upstream of the pressure reducer

- ✓ Two-stage mechanical filter with 20 µm
- ✓ Semi-automatic drainage

Type	Art. no.	Connecting thread	Cond. vessel volume (cm^3)	Dimensions (W x D x H)
FWA 1/4 W	D221002	G 1/4"i	10	42x42x142
FWA 3/8 W	D321002	G 3/8"i	45	60x60x180
FWA 1/2 W	D421002	G 1/2"i	45	60x60x180
FWA 3/4 W	D521002	G 3/4"i	170	80x80x235
FWA 1 W	D621002	G 1"i	170	80x80x235

Filter pressure reducer

- Combines the technical benefits of the pressure reducer and the water separator in one compact unit
- Pressure regulator with piston for high operational reliability
- Installation independent of flow direction because pressure gauge can be connected on both sides

- ✓ Locking control knob
- ✓ Regulation range 0-12 bar
- ✓ Standard features include: pressure gauge and 20 µm filter element

Type	Art. no.	Connecting thread	Cond. vessel volume (cm^3)	Dimensions (W x D x H)
FDM 1/4 W	D225026	G 1/4"i	10	42x42x190
FDM 3/8 W	D325026	G 3/8"i	45	60x60x245
FDM 1/2 W	D425026	G 1/2"i	45	60x60x245
FDM 3/4 W	D458305	G 3/4"i	170	80x80x332
FDM 1 W	D468305	G 1"i	170	80x80x332

Maintenance units

Mist oiler

- Regular oil flow for best supply to tools
- Proportional adjustment of the oil supply to the air flow rate for optimal lubrication possible, even at low pressures and low air flow rates
- Oil purification downstream of the filter pressure reducer

Type	Art. no.	Connecting thread	Oil reservoir volume (cm^3)	Dimensions (W x D x H)
N 1/4 W	**D223001**	G 1/4" i	50	42x42x156
N 3/8 W	**D323001**	G 3/8" i	150	60x60x195
N 1/2 W	**D423001**	G 1/2" i	150	60x60x195
N 3/4 W	**D523001**	G 3/4" i	379	80x80x260
N 1 W	**D623001**	G 1" i	379	80x80x260

Filter units

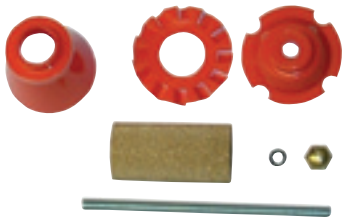
- Fully fitted maintenance system consisting of filter pressure reducer and mist oiler (2-way filter unit) or filter water separator, pressure reducer and mist oiler (3-way filter unit) ready for immediate operation
- Pressure regulator with piston for high operational reliability

Locking control knob	✓
Regulation range 0-12 bar	✓
Standard features include: pressure gauge and 20 µm filter element	✓

Type	Art. no.	Version	Connecting thread	Dimensions (W x D x H)
WE 2-fach 1/4 W	**D226026**	2-way	G 1/4" i	84x42x190
WE 2-fach 3/8 W	**D326026**	2-way	G 3/8" i	120x60x245
WE 2-fach 1/2 W	**D426026**	2-way	G 1/2" i	120x60x245
WE 2-fach 3/4 W	**D458405**	2-way	G 3/4" i	160x80x332
WE 2-fach 1 W	**D468405**	2-way	G 1" i	160x80x332
WE 3-fach 1/4 W	**D224026**	3-way	G 1/4" i	126x42x190
WE 3-fach 3/8 W	**D324026**	3-way	G 3/8" i	180x60x245
WE 3-fach 1/2 W	**D424026**	3-way	G 1/2" i	180x60x245
WE 3-fach 3/4 W	**D524026**	3-way	G 3/4" i	320x80x332
WE 3-fach 1 W	**D624026**	3-way	G 1" i	320x80x332

Maintenance units

Filter element



- For 20 µm maintenance units

Type	Art. no.
FE-FDM 1/4 W	G405012
FE-FDM 3/8-1/2 W	G405013
FE-FDM 3/4-1 W	G405014

Angular bracket

- For simple and fast wall mounting

Type	Art. no.
WKB-WE 1/4	B200701
WKB-WE3/8-1/2	B400701
WKB-WE3/4-1	B400703

Disassembly spanner

- For condensate vessel

Type	Art. no.
DSL-WE	B400707

Filter units

High-performance filter units

- Highest compressed air quality – specially for applications where a high-quality compressed air is required (e.g. painting). Temperature range +5°C to +40°C
- Simple draining of the sludge container through quick-bleed valve

Lockable adjustment button with fine adjustment	✓
Option of connecting two pneumatic tools	✓
Control range: 1.5 to 12 bar	✓
Standard features include a pressure gauge, 40 µm pre filter element, 0.01 µm microfilter element and an activated carbon filter with 0.005 mg/m³ filtration degree (3-way version only)	✓

Type	Art. no.	Version	Air inlet	Weight (kg)	Dimensions (W x D x H)
FDM/FF 1/2	**D426030**	2-way	G 1/2“	2.5	183x124x290
FDM/FF/AF 1/2	**D424030**	3-way	G 1/2“	3.5	264x124x290

Activated carbon filters

- For retrofitting the 2-way filter unit
- For separating oil vapours, aroma and flavouring additives to achieve the best compressed air quality

Type	Art. no.	Air inlet	Weight (kg)	Dimensions (W x D x H)
AF 1/2	**D640760**	G 1/2“	1.0	70x63x245

Filter

Type	Art. no.
F-FF 1/2	**B640360**
F-AF 1/2	**B640760**

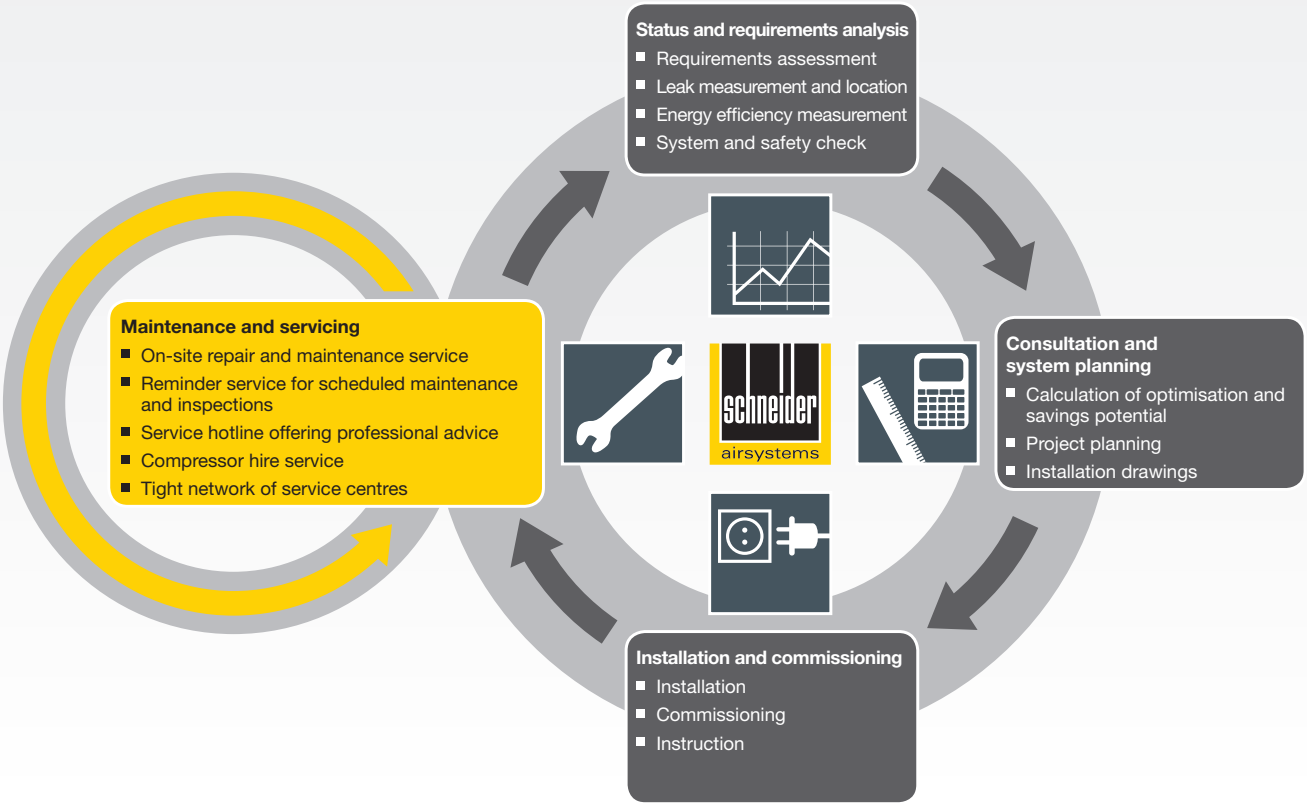
A partner at your side:

Schneider Professional Services

Optional services for your system

Schneider Professional Services from Schneider airsystems offers comprehensive, professional support for your compressed air units. The concept is simple and clearly defined: all customers have the option of choosing the services they require from an extensive service portfolio.

The services provided by Schneider airsystems can be divided into four phases: status and requirements analysis, consultation and system planning, installation and commissioning, maintenance and servicing.



Status and requirements analysis

We will lay the foundation for a compressed air system adapted to your individual needs by determining your compressed air requirements and taking leak and pressure dew point or volume flow measurements. Our range of services includes a comprehensive system and safety check. On request, we can also locate leaks and measure your energy efficiency level for a fee.

Determining your compressed air requirements

We will identify your compressed air requirements together with you, taking into consideration the air flow rate, most suitable air quality and pressure requirements as well as the number of connection points and their location.

Additional costs resulting from leaks

ø leak [mm]	Air loss at 6 bar [l/sec.]	Energy loss/year at 8,760 h/a and € 0.19/kWh [kWh]	[€]
1	1.24	2.891	549.29
3	11.14	26.017	4.943.23
5	30.95	72.270	13.731.30

Source: Bavarian Environmental Protection Agency (Hrsg.):
“Protect the Climate - Reduce Costs: Guideline for efficient energy use in trade and industry”, 1st edition, Augsburg, 2004

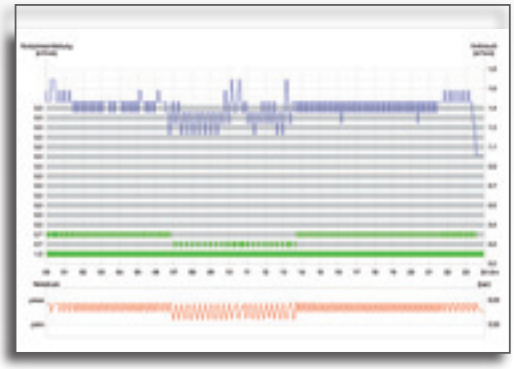
Leak measurement and location

Leaks in the conduit system can increase costs considerably. On average, 5% of the air in systems in smaller industrial and workshop networks leaks, whereas as much as 10-15%* can leak from larger networks.

We measure how much air escapes from your system. If there is a need for action, we will locate the leaks and repair them on request.

Increase the energy efficiency of your system!

Our specially trained employees would be glad to assess your entire compressed air system to identify **potential for savings**. The capacity utilisation of your system, pressure history, air consumption, pressure dew point as well as duty and idle cycles are measured for a whole week.
Our employees can determine the current energy requirements of your system, identify leaks and wear, optimise the operating performance of your compressor and reduce **energy costs** by analysing this data. Furthermore, targeted improvements to your system can **extend maintenance intervals**, **increase system reliability**, **improve working results** and **minimise wear on your tools**.



* Percentage values based on consumption during production periods.
Data: Bavarian Environmental Protection Agency

Consultation and system planning

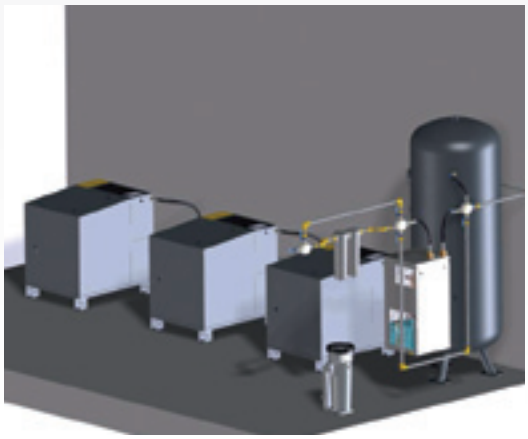
The specialists from Schneider airsystems identify which is the most suitable compressed air solution for your needs – individually adapted to your requirements. Irrespective of whether you are planning to install a new system or optimise your existing one, Schneider airsystems is the right partner for designing efficient compressed air systems.

Calculating potential for optimisation

Our specialists can calculate the achievable optimisation potential and resulting savings based on the results of the status and requirements analysis.

System and project planning

Achieve maximum efficiency in your system: we will adapt your compressed air system in line with your pressure requirements, your existing tools and the installation location, including condensate and compressed air conditioning units, conduit system and essential peripheral equipment such as a power supply or ventilation unit. We would be glad to provide you with 2D and 3D installation drawings for your project.



Conduit system design

An efficient compressed air system must include a well designed conduit network. We will design the perfect conduit system with appropriate connection points for you based on your individual requirements analysis. A correctly designed conduit system minimises the pressure lost from the line. The compression power is kept to a minimum and efficiency is increased as a result!

Designing your compressed air system – Call the professionals!

We would be glad to help you design your compressed air system and determine the required air flow rate, the most suitable air quality for your application and pressure requirements with consideration for the long-term future development of your company. We will then recommend the most suitable compressor based on your requirements.

Service hotline
07121 959-199

Installation and commissioning

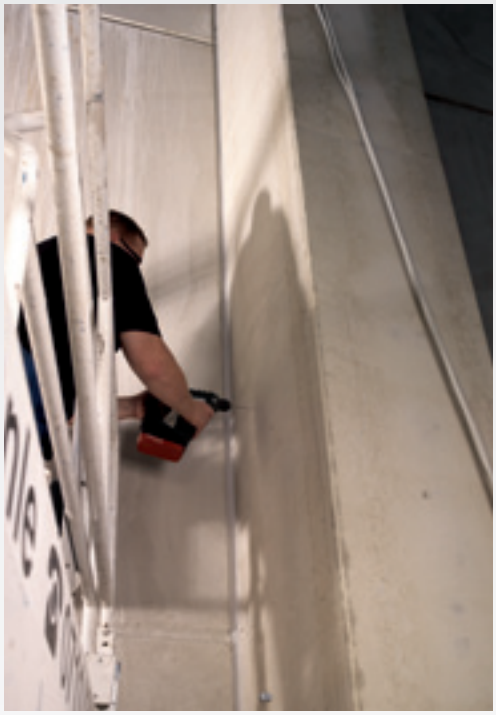
Once the compressed air system is designed according to your individual requirements, the specialists at Schneider airsystems will ensure that you can promptly use your new or optimised system.

Installation

We will take care of the installation and make sure that your system is ready for operation on schedule and to your full satisfaction. You can decide yourself which services to choose.

Commissioning

After installation, our qualified specialist staff will commission your compressed air system, configure the parameters according to your requirements and carry out a full function test. You and your employees will then receive detailed instructions on how to operate the system.



Maintenance and servicing

If your system is due for maintenance or repairs, you can count on us. We will take care of any servicing work and our nationwide service network is guaranteed to process your request quickly.

Maintenance

We accept service at face value and offer you a maintenance contract specifically for your compressed air system. When you have your system repaired by professionals, you will benefit from the following:

- Warranty extension to 3 years
- Outstanding functionality and maximum operational reliability
- Professional maintenance
- Reduced operating costs planned in the long term

Of course, we offer one-off maintenance for anyone who is not able to commit to a full service plan. Our service staff would be glad to remind you when maintenance work is due next.

Maintenance parts subscription

If you wish to maintain your machines* yourself, you can choose to have the necessary maintenance parts delivered regularly as part of a subscription so that you avoid spending time ordering parts and never forget to maintain your machines again!

Repair service

You can hand over small machines to our service partners. Larger systems are repaired directly on site so you can start using them again as soon as possible.

Compressor hire service

We offer a compressor hire service so that you can avoid downtimes and deal with anticipated peaks in operation.

* only possible with stationary piston compressors, prefilters, microfilters, activated carbon filters and oil-water separators

System failure – Call the professionals!

Should your system ever fail, you can contact our **professional specialist advisors** directly on the **Service hotline +49(0)7121 959-199**. They will keep downtimes to a minimum, make sure that your machines are repaired **professionally** and minimise repair costs wherever possible.

Service hotline
07121 959-199

schneider airsystems

JAG MAR

JAG-MAR Sp. z o.o. | ul. Złota 36 | 62-800 Kalisz | tel. 62 766 31 01 | www.jag-mar.pl | biuro@jag-mar.pl