

A new generation!

AirMaster screw compressors & compressed air cold dryers DK SMART



Powerful, robust
and efficient!

THREE GOOD REASONS

Reliable and maintenance-friendly.

The new screw compressors impress in all series with clever technical concepts. On the one hand, this guarantees reliable operation and on the other hand, it saves time and costs when it comes to maintenance because all maintenance components are easy to access.

Extensive portfolio.

The portfolio not only includes the tried-and-tested and reliable V-belt screw compressors, but also direct-drive compressors with and without gear stepping. This makes it possible for users to select reliable and robust compressors as well as compressors with maximum efficiency.

Powerful, quiet, BAFA!

All compressors impress with their high volumetric flow rate and very low noise. Some of the screw compressors also satisfy the BAFA criteria due to the maximum level of efficiency.



THE PORTFOLIO



Professional

The high-performance portfolio with V-belt drive

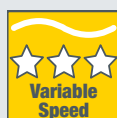
The V-belt screw compressors impress with a simple maintenance concept, optimally arranged components and a high level of efficiency. The noise insulation also significantly reduces the noise level of the already quiet compressors.



Plus

Maximum efficiency with geared drive

The screw compressors in the Plus portfolio are equipped with low-maintenance geared drives. Thanks to the direct power transmission, they are not only extremely efficient, but also much quieter than conventionally driven screw compressors. A big advantage!



Variable Speed

Maximum efficiency – adapted to actual requirements!

The Variable Speed portfolio includes both screw compressors with geared drives and also direct-drive screw compressors. This guarantees maximum efficiency, less maintenance and low noise. The speed control ensures a high level of efficiency – the power is adapted to the actual requirements!

AirMaster

The powerful screw compressors with V-belt,
direct drive or gearbox!

Easy-to-operate control systems:

AIR ENERGY CONTROL 3

With control of rotation direction, operating hours indicator, service messages, hours under load, etc.

Comfortable control: AIR ENERGY CONTROL 3+

With comfort display, control of rotation direction, operating hours indicator, maintenance schedule, service messages, hours under load, etc. (for speed-controlled screw compressors)

All maintenance components are easy to access, **which saves time and costs during maintenance work**

Variable drive
Whether it is a tried-and-tested V-belt drive, an efficient direct drive or a longlife geared drive – the focus is always on one thing: excellent performance!

Save space during installation
thanks to compact dimensions

Avoid expensive damage
with integrated control of rotation direction

Quiet
with insulated housing



Example: AM B 7-10

The solution for permanent air requirements, e.g. spray painting or industrial manufacturing applications. AirMaster screw compressors ensure easy servicing, silent operation and greater operating comfort from a clearly laid out control system that is simple to use.

NEW

AirMaster Professional Solo

- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required thanks to compact dimensions
- All maintenance components are easy to access, which saves time and costs during maintenance work
- Quiet due to soundproofed housing
- Easy-to-install exhaust air duct
- Integrated control of rotation direction prevents expensive damage during commissioning and operation (except AM B 4-10)



Durable, V-belt driven compressor blocks



AIR ENERGY CONTROL 3 electronic control system with control of rotation direction, operating hours indicator, service messages, hours under load, etc.



Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH) (mm)
AM B 4-10 (start-stop machine)	H704100	10	468	400	4	105	61	3/4"	620x612x950
AM B 5-8	H705080	8	882	400	5.5	241	62	3/4"	1,100x690x1,100
AM B 5-10	H705100	10	702	400	5.5	241	62	3/4"	1,100x690x1,100
AM B 5-13	H705130	13	564	400	5.5	241	62	3/4"	1,100x690x1,100
AM B 7-8	H707080	8	1,242	400	7.5	246	63	3/4"	1,100x690x1,100
AM B 7-10	H707100	10	1,080	400	7.5	246	63	3/4"	1,100x690x1,100
AM B 7-13	H707130	13	828	400	7.5	246	63	3/4"	1,100x690x1,100
AM B 11-8	H711080	8	1,674	400	11	266	65	3/4"	1,100x690x1,100
AM B 11-10	H711100	10	1,506	400	11	266	65	3/4"	1,100x690x1,100
AM B 11-13	H711130	13	1,212	400	11	266	65	3/4"	1,100x690x1,100
AM B 15-8	H715080	8	2,328	400	15	270	67	3/4"	1,100x690x1,100
AM B 15-10	H715100	10	2,106	400	15	270	67	3/4"	1,100x690x1,100
AM B 15-13	H715130	13	1,686	400	15	270	67	3/4"	1,100x690x1,100
AM B 18-8	H718080	8	3,114	400	18.5	361	69	1"	1,210x810x1,220
AM B 18-10	H718100	10	2,718	400	18.5	361	69	1"	1,210x810x1,220
AM B 18-13	H718130	13	2,304	400	18.5	361	69	1"	1,210x810x1,220
AM B 22-8	H722080	8	3,648	400	22	377	70	1"	1,210x810x1,220
AM B 22-10	H722100	10	3,240	400	22	377	70	1"	1,210x810x1,220
AM B 22-13	H722130	13	2,766	400	22	377	70	1"	1,210x810x1,220

¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

Screw compressors are often used incorrectly, e.g. for intermittent operation. Always request an on-site consultation meeting with our experts at Schneider airsystems.

Stationary screw compressors

AirMaster Professional with cold dryer (built-in)

NEW



- System ready for operation, with integral cold dryer
- Dry compressed air for perfect working results
- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required thanks to compact dimensions
- All maintenance components are easy to access, which saves time and costs during maintenance work
- Quiet due to soundproofed housing
- Easy-to-install exhaust air duct
- Integrated control of rotation direction prevents expensive damage during commissioning and operation



✓	Durable, V-belt driven compressor blocks
✓	AIR ENERGY CONTROL 3 electronic control system with control of rotation direction, operating hours indicator, service messages, hours under load, etc.
✓	With integral cold dryer

Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH)
AM B 5-8 XDK	H705081	8	882	400	5.5	268	62	3/4"	1,100x690x1,100
AM B 5-10 XDK	H705101	10	702	400	5.5	268	62	3/4"	1,100x690x1,100
AM B 5-13 XDK	H705131	13	564	400	5.5	268	62	3/4"	1,100x690x1,100
AM B 7-8 XDK	H707081	8	1,242	400	7.5	276	63	3/4"	1,100x690x1,100
AM B 7-10 XDK	H707101	10	1,080	400	7.5	276	63	3/4"	1,100x690x1,100
AM B 7-13 XDK	H707131	13	828	400	7.5	276	63	3/4"	1,100x690x1,100

¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

Screw-type compressors with a built-in cold dryer take up little space and ensure high air quality.

NEW

AirMaster Professional on vessel

- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required thanks to compact dimensions
- All maintenance components are easy to access, which saves time and costs during maintenance work
- Quiet due to soundproofed housing
- Easy-to-install exhaust air duct
- Integrated control of rotation direction prevents expensive damage during commissioning and operation (except AM B 4-10-270 XB)



Durable, V-belt driven compressor blocks



AIR ENERGY CONTROL 3 electronic control system with control of rotation direction, operating hours indicator, service messages, hours under load, etc.



Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH)
AM B 4-10-270 XB (start-stop machine)	H704103	10	468	400	4	170	61	3/4"	1,498x582x1,340
AM B 5-8-270 XB	H705083	8	882	400	5.5	311	62	3/4"	1,550x690x1,560
AM B 5-8-500 XB	H705084	8	882	400	5.5	396	62	3/4"	1,950x690x1,700
AM B 5-10-270 XB	H705103	10	702	400	5.5	311	62	3/4"	1,550x690x1,560
AM B 5-10-500 XB	H705104	10	702	400	5.5	396	62	3/4"	1,950x690x1,700
AM B 7-8-270 XB	H707083	8	1,242	400	7.5	316	63	3/4"	1,550x690x1,560
AM B 7-8-500 XB	H707084	8	1,242	400	7.5	401	63	3/4"	1,950x690x1,700
AM B 7-10-270 XB	H707103	10	1,080	400	7.5	316	63	3/4"	1,550x690x1,560
AM B 7-10-500 XB	H707104	10	1,080	400	7.5	401	63	3/4"	1,950x690x1,700

¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

Ensure a suitable room height for the installation. Screw compressors on a vessel should have sufficient space at the top. Otherwise, it may lead to a build-up of heat.

Stationary screw compressors

AirMaster Professional with cold dryer on vessel

NEW



- System ready for operation, with integral cold dryer
- Dry compressed air for perfect working results
- Less space required thanks to compact dimensions
- All maintenance components are easy to access, which saves time and costs during maintenance work
- Quiet due to soundproofed housing
- Easy-to-install exhaust air duct
- Integrated control of rotation direction prevents expensive damage during commissioning and operation (except AM B 4-10-270 XBDK)

✓	Durable, V-belt driven compressor blocks
✓	Motor and compressor protected against overheating
✓	With cold dryer fitted on vessel

Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH)
AM B 4-10-270 XBDK (start-stop machine)	H704106	10	468	400	4	204	61	3/4"	1,498x582x1,340
AM B 5-8-270 XBDK	H705086	8	882	400	5.5	338	62	3/4"	1,550x690x1,560
AM B 5-8-500 XBDK	H705087	8	882	400	5.5	426	62	3/4"	1,950x690x1,700
AM B 5-10-270 XBDK	H705106	10	702	400	5.5	338	62	3/4"	1,550x690x1,560
AM B 5-10-500 XBDK	H705107	10	702	400	5.5	426	62	3/4"	1,950x690x1,700
AM B 7-8-270 XBDK	H707086	8	1,242	400	7.5	346	63	3/4"	1,550x690x1,560
AM B 7-8-500 XBDK	H707087	8	1,242	400	7.5	431	63	3/4"	1,950x690x1,700
AM B 7-10-270 XBDK	H707106	10	1,080	400	7.5	346	63	3/4"	1,550x690x1,560
AM B 7-10-500 XBDK	H707107	10	1,080	400	7.5	431	63	3/4"	1,950x690x1,700
AM B 11-8-500 XBDK	H711087	8	1,674	400	11	451	65	3/4"	1,950x690x1,700
AM B 11-10-500 XBDK	H711107	10	1,506	400	11	451	65	3/4"	1,950x690x1,700
AM B 11-13-500 XBDK	H711137	13	1,212	400	11	451	65	3/4"	1,950x690x1,700
AM B 15-8-500 XBDK	H715087	8	2,328	400	15	455	67	3/4"	1,950x690x1,700
AM B 15-10-500 XBDK	H715107	10	2,106	400	15	455	67	3/4"	1,950x690x1,700
AM B 15-13-500 XBDK	H715137	13	1,686	400	15	455	67	3/4"	1,950x690x1,700

¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

Screw-type compressors with a built-in cold dryer on vessel take up very little space and ensure high air quality.

NEW

AirMaster Variable Speed

- Speed control allows for optimal adaptation to the actual air usage
- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required thanks to compact dimensions
- Having a direct drive or geared drive plus maintenance components that are easy to access saves considerable time and money during maintenance work
- Extremely quiet thanks to the soundproofed housing
- Simple assembly of outlet channel thanks to exhaust air guide directed upwards
- Integrated control of rotation direction prevents expensive damage during commissioning and operation



1 | Generating compressed air

Longlife, direct-drive compressor blocks	✓
Maximum operating comfort thanks to AIR ENERGY CONTROL 3+ electronic control system with control of rotation direction, operating hours indicator, maintenance schedule, service messages, hours under load, etc.	✓



Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH)
AM D 7-13 XVS	H907100	5-13	270-1,224	400	7.5	235	64	3/4"	1,165x655x1,045
AM D 11-13 XVS	H911100	5-13	264-1,824	400	11	251	64	3/4"	1,165x655x1,045
AM D 15-13 XVS	H915100	5-13	258-2,214	400	15	254	65	3/4"	1,165x655x1,045
AM G 18-10 XVS	H918100	5-10	560-3,340	400	18.5	496	68	1"	1,400x780x1,555
AM D 22-13 XVS	H922100	5-13	762-4,044	400	22	434	68	1"	1,400x780x1,555

¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

Speed-controlled screws can save up to 30% energy with fluctuating air requirements.

Stationary screw compressors

AirMaster Plus

NEW



- Exceptionally cost-effective thanks to the efficient yet low-maintenance geared drive
- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required thanks to compact dimensions
- All maintenance components are easy to access, which saves considerable time and costs during maintenance work
- Extremely quiet thanks to the soundproofed housing
- Simple assembly of outlet channel thanks to exhaust air guide directed upwards
- Integrated control of rotation direction prevents expensive damage during commissioning and operation



Longlife, direct-drive compressor blocks



Maximum operating comfort thanks to AIR ENERGY CONTROL 3 electronic control system with control of rotation direction, operating hours indicator, service messages, hours under load, etc.



Model	Art. no.	Pressure (bar)	Volumetric flow rate (l/min) ²⁾	Voltage (V)	Drive power (kW)	Weight (kg)	Noise (dB(A)) ¹⁾	Air outlet	Dimensions (WxDxH)
AM G 11-8	H611080	8	1,836	400	11	460	61	3/4"	1,400x780x1,555
AM G 11-10	H611100	10	1,518	400	11	460	61	3/4"	1,400x780x1,555
AM G 11-13	H611130	13	1,200	400	11	460	61	3/4"	1,400x780x1,555
AM G 15-8	H615080	8	2,484	400	15	470	62	3/4"	1,400x780x1,555
AM G 15-10	H615100	10	2,202	400	15	470	62	3/4"	1,400x780x1,555
AM G 15-13	H615130	13	1,818	400	15	470	62	3/4"	1,400x780x1,555
AM G 18-8	H618080	8	3,168	400	18.5	490	63	1"	1,400x780x1,555
AM G 18-10	H618100	10	2,700	400	18.5	490	63	1"	1,400x780x1,555
AM G 18-13	H618130	13	2,316	400	18.5	490	63	1"	1,400x780x1,555
AM G 22-8	H622080	8,5	3,660	400	22	430	68	1"	1,320x830x1,555
AM G 22-10	H622100	10	3,318	400	22	430	68	1"	1,320x830x1,555
AM G 22-13	H622130	13	2,856	400	22	430	68	1"	1,320x830x1,555

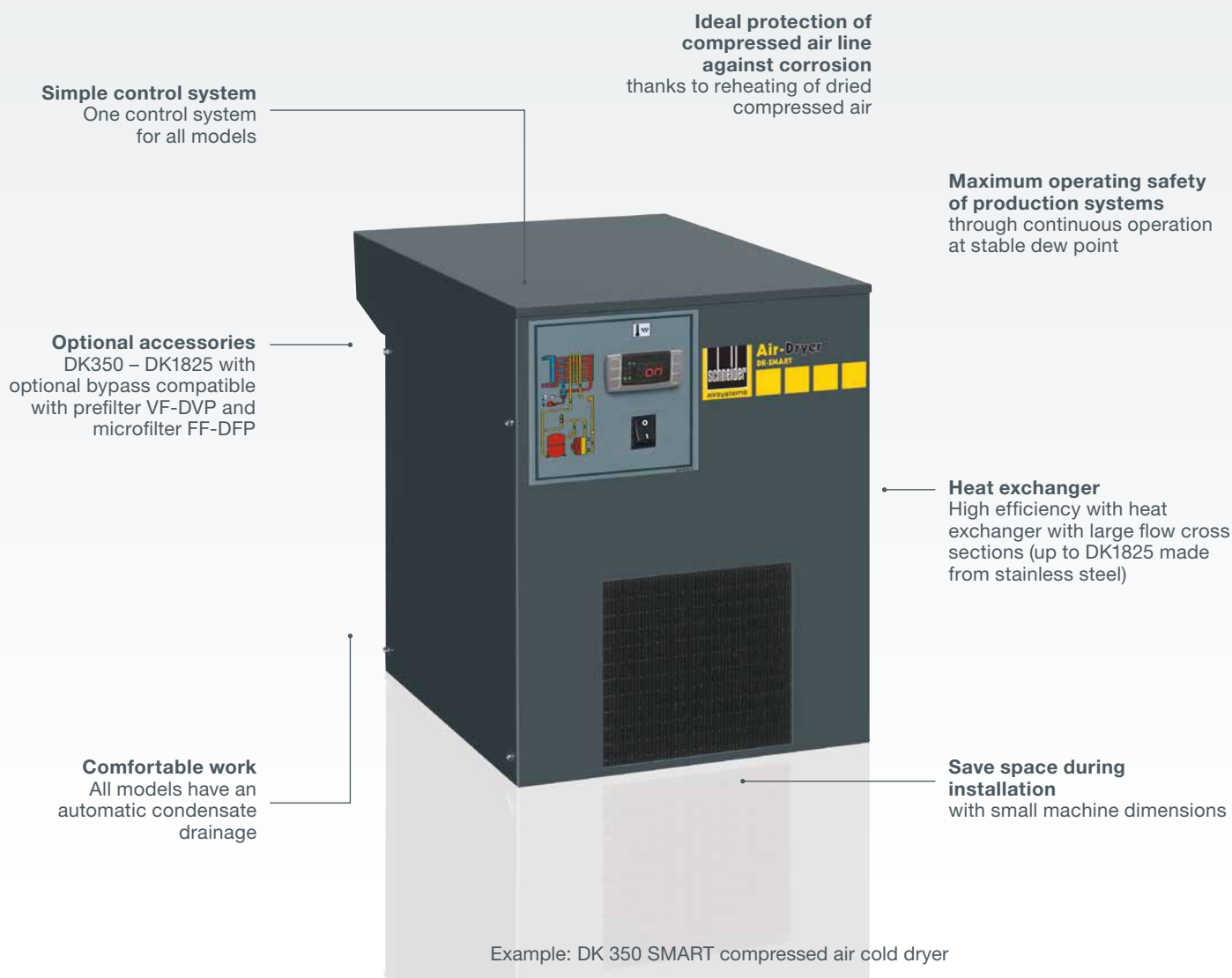
¹⁾ LpA1 sound pressure level in accordance with DIN EN ISO 2151 using EN ISO 9614/2 ²⁾ Max. volumetric flow rate at working pressure in accordance with ISO 1217 Annex C

Tip

The forces of the compressor and the gearbox work against each other. That's why with this drive there is less wear and stress on bearings!

Compressed air dryers

Dry air – the basis for all applications



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

DK 350 – 1825 SMART



- Maximum operational safety and optimum work results thanks to air dried permanently to a pressure dew point of 3 °C
- Simple control – one control system for all Schneider cold dryers
- Energy-saving heat transfer: Warm compressed air entering is pre-cooled by cold air escaping from the air/air heat exchanger

✓	Heat exchanger with large flow cross sections for constantly low pressure loss	✓
✓	Ideal protection of compressed air line against corrosion thanks to reheating of dried compressed air	✓
✓	Space-saving installation thanks to small assembly dimensions	✓
✓	Highly efficient thanks to stainless steel heat exchanger (up to DK 1825 SMART)	
✓	Optional bypass incl. filter of VF and FF series can be attached directly to the dryer (up to DK 1825 SMART)	

DK 2350 – 10000 SMART



Model	Art. no.	Flow rate ¹⁾ at pressure dew point +3°C (l/min)	Power input (kW)	Pressure loss (bar)	Voltage (V)	Weight (kg)	Refrigerant	Air outlet	Dimensions (WxDxH)
DK 350 SMART	H620035	350	0.13	0.15	230	19	R134a	3/4" a	493x350x450
DK 600 SMART	H620060	600	0.16	0.25	230	19	R134a	3/4" a	493x350x450
DK 850 SMART	H620085	850	0.19	0.25	230	20	R134a	3/4" a	493x350x450
DK 1200 SMART	H620120	1,200	0.27	0.25	230	25	R134a	3/4" a	493x350x450
DK 1825 SMART	H620182	1,830	0.28	0.30	230	27	R134a	3/4" a	493x350x450
DK 2350 SMART	H620235	2,350	0.61	0.32	230	44	R404a	1" a	460x370x764
DK 3000 SMART	H620300	3,000	0.67	0.38	230	44	R404a	1" a	460x370x764
DK 3600 SMART	H620360	3,600	0.79	0.18	230	53	R410a	1 1/2" a	520x460x789
DK 4100 SMART	H620410	4,100	0.87	0.25	230	60	R410a	1 1/2" a	520x460x789
DK 5200 SMART	H620520	5,200	1.07	0.18	230	65	R410a	1 1/2" a	520x460x789
DK 6500 SMART	H620650	6,500	1.2	0.20	230	80	R410a	1 1/2" a	550x580x899
DK 7700 SMART	H620770	7,700	1.44	0.27	230	80	R410a	1 1/2" a	550x580x899
DK 10000 SMART	H621000	10,000	1.82	0.25	230	128	R410a	2" a	898x735x962

¹⁾ Volumetric flow rate in acc. with ISO 7183, compressed air inlet 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) DK 350 SMART – DK 1825 SMART, operating pressure max. 13 bar DK 2350 SMART, DK 3000 SMART & DK 10000 SMART, operating pressure max. 14 bar DK 3600 SMART – DK 7700 SMART

Additional technical features With electric connection cable as standard

Tip

Protect your cold dryer against contamination with a prefilter. Solid particles may clog the plate exchanger.

Accessories

Bypass line

- Dryer can be bypassed during maintenance for greater operational safety
- Compatible with DK SMART 350 – 1825

Model	Art. no.
UGL SMART 3/4	B110179

Connexion set

- For connecting cold dryers with internal threads to compressed air line or vessel. The flexible connection set is adapted to local conditions by cutting the compressed air hose.

Model	Art. no.
AST DK ECO 1 1/2"	B613001
AST DK ECO 2"	B613002

Prefilter



- Separation of condensate and solid contaminants with particles up to 15 µm for efficient preliminary purification of the working air
- Solid particles class 3
- Installation upstream of the cold dryer
- Compatible with DK SMART 350 – 1825

With VP filter element as standard



With float valve as standard



Model	Art. no.	Volumetric flow rate (l/min)	Air connection	Weight (kg)	Dimensions (mm)
VF-DVP 10	D640701	1,300	G 1/2"i	1.1	240x105
VF-DVP 15	D640702	1,900	G 1/2"i	1.2	295x105

Accessories for prefilters



- Replacement filter element

Model	Art. no.
F-VP 10	B640701
F-VP 15	B640702

Microfilter



- Separation of extremely fine oil and water aerosols and solid contaminants with particles up to 0.01 µm for final purification of the working air
- Solid particles class 1
- Installation downstream of the cold dryer
- Compatible with DK SMART 350 – 1825

With VP filter element as standard



With float valve as standard



Model	Art. no.	Volumetric flow rate (l/min)	Air connection	Weight (kg)	Dimensions (mm)
FF-DFP 10	D640711	1,300	G 1/2"i	1.1	240x105
FF-DFP 15	D640712	1,900	G 1/2"i	1.2	295x105

Accessories for microfilters

Model	Art. no.
F-FP 10	B640711
F-FP 15	B640712

- Replacement filter element



Basic changeover circuit

Basic changeover circuit

- Electronically controlled utilisation of power units to extend the service life of multiple compressors
- Connection for energy-saving system and electric ball valve provides expansion option within a machine
- Option of integrating a remote switch for greater flexibility in system control



✓	Display with 3 control buttons	✓
✓	Potential-free fault contact	✓
✓	With operating hours counter, but does not include motor protection or start relief (please order AE4 separately)	
✓	For two 3 / 4 kW piston compressors with pressure switch mode (no contactors)	
	For a maximum of 4 compressors (screw and piston compressors over 3 kW can be combined with existing contactors) for distribution of basic and additional air requirements	✓
	Text display with real-time clock	✓
	Time switch function with up to 6 programmes/profiles	✓
	Harmonisation of operating hours - saves on maintenance costs	✓
	Pressure monitor with delayed activation of the compressors	✓



Model	Art. no.	Number of compressors (pc.)	Voltage (V)	Frequency (Hz)
GLW-SGSD 17	B111201	2	230	50
GLW 4	B111200		230	50



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