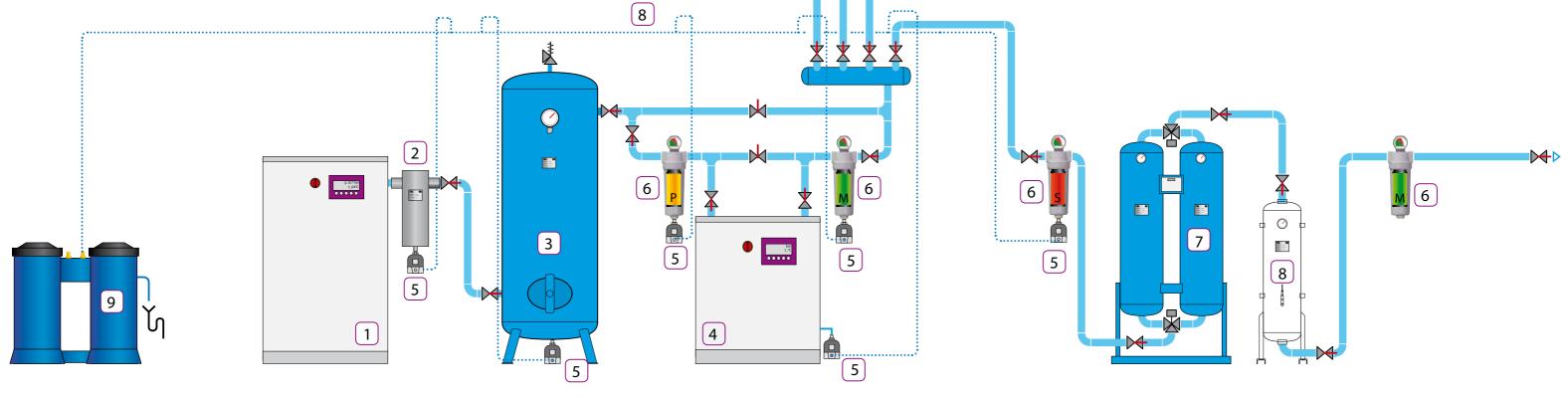


Basic Components of Compressed Air System





1. COMPRESSOR

Air is compressed by one of 3 major types of compressor – reciprocating piston, rotary screw or centrifugal.

2. CYCLONIC CONDENSATE SEPARATOR

Uses centrifugal motion to separate liquid water out of compressed air. Rotation causes the condensate mist to coalesce on the centrifugal separator walls, when the condensate gains enough mass it falls to the bottom of the separator bowl where it pools in the sump until it is flushed out of the system by the automatic float drain valve.

3. AIR RECEIVER

Plays very important role in compressed air systems: dispersing heat from the air, damping pulsations caused by reciprocating compressors, providing a location for free water and oil to settle from the compressed air stream, supplying peak demands from stored air with less need to run an extra compressor, reducing load/unload or start/ stop cycle frequency to help compressors run more efficiently, reducing motor starts and slowing system pressure changes to allow better compressor control and more stable system

4. REFRIGERATED DRYER

Compressed air leaving the compressor is normally warmer than the ambient air and fully saturated with moisture. As the air cools the moisture will condense in the compressed air lines. Excessive entrained moisture can result in undesired pipe corrosion and contamination of tools or product. For this reason an air dryer is normally required. Common types: refrigerant, desiccant or membrane.

5. AUTODRAIN

Drains are needed at all separators, filters, dryers and receivers in order to remove the liquid condensate from the compressed air system. Lack of drains can allow slugs of moisture to flow downstream that can overload the air dryer and foul point-of-use equipment. Main types are zero air loss, electrically operated solenoid valves, float operated mechanical drains or manual drains.

6. FILTER

Falcon high efficiency compressed air filters are vital for removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems. To meet the required compressed air quality appropriate filter element (B, P, R, M, S, A, A², H², M_s, S_s) must be installed into filter housing. Common types: particulate, coalescing or absorption.

7. DESSICANT DRYER

Some end-use applications require very dry air, such as food processing, instruments, electronics or high quality manufacturing. Drying the air to dew points below ambient conditions is also necessary to prevent ice buildup where pipes are exposed to cold conditions.

8. CARBON TOWER

Activated carbon towers eliminate hydrocarbon vapours and odours from compressed air.

Activated carbon towers are used at applications where content of oil vapours needs to be reduced to minimum. They are able to absorb oil carry-over (both liquid and vapour) to provide the plant with technically oil-free compressed air, particularly breathing air, paint systems, food contact, etc.

9. OIL-WATER SEPARATOR

Local environmental laws and regulations state that condensate drained from compressed air systems cannot be discharged to the sewage system due to the content of compressor lubricating oil. Oil/water separators are one of the most effective and economical solutions.

International Certificates



















Contents

Filters, Dryers & Accessories

Aluminium Industrial Filters

CF Series 16 bar (20 bar on application)







Cast Aluminium High Pressure Filters

HF Series 50 bar







Cyclone **Condensate Separators**

CKL-B Series 16 bar





Breathing Air Filters

B-AIR Series 16 bar





Pump Protection Filters

P-VAC Series 20-2000 mbar



Silicone Free Filters

AFs Series 16 bar





Air Filter Elements

Quality Compressed Air Elements





Pressure Drop Indicator

PDI16, MDA 60, MDM 60, MDM 60E, MDM 60C





Electronic Pressure Guage

MDH Series





Filter Mounting Kit

AK Assembly Kit





Automatic and Manual Condensate Drains

MCD 20 bar AOK 16B 16 bar







Exhaust

Float Operated Automatic Condensate Drains

AOK 20B Series 20 bar



Electronic Timer Controlled Condensate Drains

TD16M Series 16 bar



Electronic Condensate Drains

EMD 12 Series



Electronic Condensate Drains

ECD-B Series



Activated Carbon Towers

TAC Series





Oil-Water Separators for Compressed Air

WOS-M Series



Oil-Water **Separators for Compressed Air**

WOS Series



Adsorption Dryers

A-Dry 6-200



Adsorption Dryers

B-DRY 110-1000



Industrial Applications

CF Series - Aluminium Compressed Air Filters - 16 Bar

Compressed air filters CF Series are used for efficient removal of solid particles, water, oil vapours, taste and odours from compressed air in industrial applications.

The type and size of filters depends on compressed air flow, type and quantity of pollutant.

- max. operating pressure: 16 bar(230 psi),
 20 bar(290 psi) on application
- operating temperature range: 1.5 to 65°C (35 to 149°F)



















CF FILTER CARTRIDGES

CF Filter cartridge range includes 6 filtration stages (B, P, R, M, S and A), which are designed to remove particulates, water, oil vapours, taste and odours from compressed air.

The design of CF Filter media ensures the effective and efficient removal of most contaminates from compressed air systems. Note that these filters will not remove carbon monoxide or carbon dioxide.

Threaded connnection of filter cartridges ensures reliable fitting into the filter head.

All materials are suitable for operation in the temperature range from 1.5 to 65°C (35 to 149°F). They are corrosion-proof and suitable for most applications.

The filter and cartridge size is determined by the compressed air flow. They are all designed for operational pressure of up to 20bar (290 psi)





15 µm sintered brass



3 μm acrile fibres, cellulose



1 μm acrile fibres, cellulose



0.1 µm borosilicate microfibres



0.01 µm borosilicate microfibres



activated carbon, borosilicate microfibres

		TEC	HNICAL D	ATA							CF-F	ILTER EL	EMENTS		
Filter Model	Pipe size	Flow Rat	e at 7 bar		Dimensio	ons (mm	1)	Mass	CKL-CF centrifugal	B sintered	P prefilter	R prefilter	M microfilter	S microfilter	A activated
Wiodei	Inch	Nm³/h	scfm	A	В	С	D	Kg	separator	15 µm	3 μm	1 μm	0.1 μm	0.01 μm	carbon
CF 20	3/8	72	42	187	88	20	80	0.7	CKL-CF 20	20CB	20CP	20CR	20CM	20CS	20CA
CF 21	1/2	96	56	256	88	20	80	8.0	CKL-CF 21	21CB	21CP	21CR	21CM	21CS	21CA
CF 30	1/2	150	88	278	106	25	100	1.3	CKL-CF 30	30CB	30CP	30CR	30CM	30CS	30CA
CF 31	3/4	216	127	278	106	25	100	1.3	CKL-CF 31	31CB	31CP	31CR	31CM	31CS	31CA
CF 40	1	282	166	252	125	32	120	2.1	CKL-CF 40	40CB	40CP	40CR	40CM	40CS	40CA
CF 41	1	360	212	352	125	32	140	2.4	CKL-CF 40	41CB	41CP	41CR	41CM	41CS	41CA
CF 42	1 1/4	432	254	352	125	32	140	2.4		42CB	42CP	42CR	42CM	42CS	42CA
CF 43	1 1/2	510	300	450	125	32	160	3.2	CKL-CF 43	43CB	43CP	43CR	43CM	43CS	43CA
CF 44	1 1/2	750	441	450	125	32	160	3.2	CKL-CF 43	44CB	44CP	44CR	44CM	44CS	44CA
CF 50	2	888	522	605	160	43	180	5.1	CKL-CF 50	50CB	50CP	50CR	50CM	50CS	50CA
CF 51	2	1.176	692	605	160	43	180	5.1	CKL-CF 50	51CB	51CP	51CR	51CM	51CS	51CA
CF 52	2 1/2	1.440	847	685	160	43	200	6.3	CKL-CF 52	52CB	52CP	52CR	52CM	52CS	52CA
CF 60	3	1.968	1158	800	240	60	300	12.9	CKL-CF 61	60CB	60CP	60CR	60CM	60CS	60CA
CF 61	3	2.760	1624	800	240	60	300	12.9	CKL-CF 61	61CB	61CP	61CR	61CM	61CS	61CA
					So	lid partic	ele size: (down to		15 microns	3 microns	1 micron	0.1 micron	0.01 micron	-
					Quality o	class -so	lids (ISO	8573-1)		4	3	2	1	1	-
					Residual	Oil cont	ent (mg/n	n³ / ppm		-	-	-	0.1/0.08	0.01/0.01	0.005/0.005
					Quali	ity class	oils (ISO	8573-1)		-	-	-	2	1	1
	Pressure drop -new element (mbar/									30/0.43	40/0.58	<50/0.72	<80/1.16	<90/1.3	120/1.74
	Change filter at pressure drop (mbar/g									600/8.7	600/8.7	600/8.7	600/8.7	600/8.7	6 monthly
							COR	RECTION	ON FACTOR	rs					
Operating	erating Pressure (bar) 2 3 4 5 6 7 8									12 1	3 14	15 1	6 17	18 19	20

100 115 130 145 160 174 189 203 218 232 247 261 276

0.38 0.5 0.63 0.75 0.88 1 1.13 1.25 1.38 1.5 1.63 1.75 1.88 2 2.13 2.25 2.38 2.5

Activated Carbon filters must not be operated in oil saturated conditions and be changed at least every 6 months.

Industrial Applications

HF Series - Cast Aluminium High Pressure Filters - 50 bar

High Pressure Filters HF are used for industrial applications with pressure up to 50 bar (725 psi). Strong cast aluminium construction assures safety operating at high pressures.

The HF series is produced in accordance with Pressure Equipment Directive PED 97/23 CE.

- max. operating pressure: 50 bar (725 psi)
- operating temperature range: 1.5 to 65 °C (35 to 149 °F)

















HF FILTER CARTRIDGES

Six filtration grades enables elimination of impurities from the compressed air in a temperature range 1.5 to 65°C (35 to 149°F)



Operating Pressure (bar)

Correction Factor







5.13

6.38

		TEC	HNICA	L DAT	A				HF-FILTER ELEMENTS								
Filter	Pipe	Flow	Rate	Dir	mensio	ns (mr	n)	Mass	В	P	R	M	S	Α			
Housing Model	size	Nm²/h	cfm	A	В	С	D	Kg	sintered 15 µm	prefilter 3 µm	prefilter 1 µm	microfilter 0.1 μm	microfilter 0.01 µm	activated carbon			
HF 007	1/2	71	418	250	110	30	80	2.1	HF 6060 B	HF 6060 P	HF 6060 R	HF 6060 M	HF 6060 S	HF 6060 A			
HF 010	3/4	112	659	250	110	30	90	2.1	HF 7060 B	HF 7060 P	HF 7060 R	HF 7060 M	HF 7060 S	HF 7060 A			
HF 018 1 204 765 250 110 30 1					140	2.1	HF 12060 B	HF 12060 P	HF 12060 R	HF 12060 M	HF 12060 S	HF 12060 A					
HF 047	1 1/2	282	1059	535	160	45	260	9.5	HF 22090 B	HF 22090 P	HF 22090 R	HF 22090 M	HF 22090 S	HF 22090 A			
HF 070	1 1/2	400	1500	535	160	45	360	9.5	HF 32090 B	HF 32090 P	HF 32090 R	HF 32090 M	HF 32090 S	HF 32090 A			
HF 094	2	494	1853	715	160	45	540	12.2	HF 50090 B	HF 50090 P	HF 50090 R	HF 50090 M	HF 50090 S	HF 50090 A			
HF 150	2	799	3000	715	160	45	550	12.2	HF 51090 B	HF 51090 P	HF 51090 R	HF 51090 M	HF 51090 S	HF 51090 A			
					Sol	id partic	ele size:	down to	15 microns	3 microns	1 micron	0.1 micron	0.01 micron	-			
					Quality c	lass -so	lids (ISC	8573-1)	4	3	2	1	1	-			
				R	esidual (Oil cont	ent (mg/ı	m³ / ppm	-	-	-	0.1/0.08	0.01/0.01	0.005/0.005			
			Quality class oils (ISO 8573-1)					-	-	-	2	1	1				
				Pressure drop -new element (mbar psi)				ıbar psi)	30/0.43	40/0.58	<50/0.72	<80/1.16	<120/1.74	<90/1.3			
				Change	filter at p	ressure	drop (m	bar/psi)	600/8.7	600/8.7	600/8.7	600/8.7	600/8.7	6 monthly			

CORRECTION FACTORS

1.38

Activated Carbon filters must not be operated in oil saturated conditions and be changed at least every 6 months.

0.50

Industrial Applications

CKL-B Series - Aluminium Condensate Separators - 16 bar

Efficient removal of condensate from a compressed air system has several advantages: extended life of compressed air tools, improved lubrication of all pneumatic components, improved painting processes components and improved painting processes.

CKL-B condensate separators have been developed for high efficiency removal of bulk liquids and droplets from compressed air and vacuum systems with very low pressure drop. The separators provide added protection and improved performance for dryers and filters.

Inside the housing there is an insert with vanes that create controlled rotation of the air. As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and carried over into the airstream.

To discharge condensate from the CKL-B cyclone separator it is essential to install automatic or electronic condensate drain. Standard equipment includes automatic condensate drain AOK 16B.









Condensate Separator element

Benefits

Construction of aluminium cyclone separators assures high efficiency condensate separation with low pressure drop.

The cartridge inside the cyclone separator assures reliable operation for the life of the separator, without clogging or increased operating costs.

Operating temperature range: 1.5 to 65°C (35 to 149°F)

Operating pressure range : 0 - 16 bar (0-232 psi).

The aluminium bodies are finished with powder coat paint to prevent corrosion.)













TECHNICAL DATA												
Filter	Pipe size	Flow	Rate		Dimension	ons (mm)		Mass				
Model	Inch	Nm³/h	cfm	A	В	С	D	Kg				
CKL 005 B	3/8	120	70	187	88	20	60	0.7				
CKL 007 B	1/2	155	91	187	88	20	60	0.7				
CKL 010 B	3/4	235	138	257	88	20	80	0.8				
CKL 018 B	1	365	215	263	125	32	100	1.8				
CKL 047 B	1 1/2	770	452	461	125	32	140	2.5				
CKL 094 B	2	1.280	753	684	163	43	520	5.1				
CKL 150 B	2 1/2	2.460	1447	684	163	43	520	5.1				
CKL 200 B	3	2.850	1677	795	240	59	630	12.9				

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CORRECTION FACTORS															
Operating Pressure (bar)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating Pressure (psi)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction Factor	0.38	0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

B-AIR Series - Breathing Air Filter Set

The B-AIR™ point of use filter set has been specifically developed for high efficient preparation of top quality breathing air.

On request B-AIR[™] filter set can be supplied with wall mounting brackets, pressure regulator and quick connect safety couplings.

Operating temperature range : 1.5 to 45 $^{\circ}\text{C}$ (35 to 113 $^{\circ}\text{F})$

Operating pressure range: 0 - 16 bar (0 - 232 psi).

APPLICATIONS

Spray painting Sandblasting

Medical & Hospital air

Asbestos removal

Cylinder filling

Enclosed space breathing air

Pharmaceutical manufacturing





WARNING! Breathing air filter set B-AIR is not declared as a CO and CO2 removal filter. Despite that, the B-AIR filter element can reduce CO content.

	TECHNICAL DATA											B-AIR ELEMENTS																				
Filter	Pipe size	-	Rate at bar	7	Dir	mensio	ons (m	m)	Ma	iss	s			H²			A ²															
Model	Inch	Nm³/h	cfi	m .	A	В	С	D	К	g																						
B-AIR 0076	1/2	78	40	6 1	87	264	20	60	3 x	0.47	0705	60 S		07050 H	2		07050 A ²	2														
B-AIR 0106	3/4	120	70	0 2	257	264	20	80	3 x	0.6	1405	60 S		14050 H	2		14050 A ²	2														
B-AIR 0186	1	198	11	6 2	263	375	32	100	3 x	1.57	1207	'5 S		12075 H ²			12075 H ²		12075 H ²			12075 A ²	2									
B-AIR 0306	1	335	19	97 3	863	375	32	120	3 x	2.2	2207	'5 S		22075 H	2		22075 A ²	2														
B-AIR 0476	1 1/2	510	30	00 4	61	375	32	140	3 x	2.8	3207	75 S		32075 H	2		32075 A ²	2														
B-AIR 0706	1 1/2	780	45	59 6	340	375	32	160	3 x	3.9	5007	75 S		50075 H	2		50075 A ²	2														
						FI	ILTER M	EDIUM			borosi micro			l² hopcali licate mic			tivated ca															
						S	olid par	ticle size	purifica	ntion	>0.0	1µm		>0.1µm	ı		>0.1µm															
						Qu	ality cla	ss solids	(ISO 857	73-1)	1			1			1															
						Q	uality c	lass OILS	(ISO 857	73-1)	1			-			0/1															
							Pressi	ure drop	new eler	nent	80/1	.16	-			-			-		-		-		-		-		-			
					Cha	ange ele	ement a	t press. d	rop mba	r/psi	3 mo	nths		3 month	S		3 months	3														
							C	ORRE	CTION	I FAC	TORS																					
Operati	ng Pressure ((bar)	2	3	4		5	6	7	8	9	10	11	12	13	14	15	16														
Operati	ing Pressure	(psi)	29	44	58	3	72	87	100	115	130	145	160	174	189	203	218	232														
Corr	rection Facto	r	0.38	0.50	0.6	3 0	0.75	0.88	1.00	1.13	1.25	1.38	38 1.50 1.63 1.75 1.88			2.00	2.13															

Set includes 3 Filter Housings, 3 Filter Elements, 2 AOK 16B condensate drains, 1 MCD drain & 1 PDI differential pressure indicator

P-VAC filters have been specifically developed for protection of vacuum pumps. These filters are optimised for high-efficient removal of solid particles and other contamination from the suction side of vacuum pumps preventing damage to the pump.

For P-VAC filter series, two filtration stages are available. Coarse prefilter VACP removes bulk liquid and large solid particles while high efficiency microfilter VACM removes very fine impurities which may damage the pump.

- operating pressure range: 20 2000 mbar (abs) (0.29 29 psi)
- operating temp. range: 1.5 65 °C (35-149 °F)

APPLICATIONS

vacuum pumps



13



		TECH	INICAL E	DATA					FILTER ELEMENT TYPE				
Filter	Pipe size	Flow Ra		D	imensio	ons (mr	n)	Mass	Coarse P prefilter	Fine F microfilter			
Model	Inch	Nm³/h	cfm	A	В	С	D	Kg	·				
P-VAC 0056	3/8	7.5	4.5	187	88	20	60	0.7	06050 VACP	06050 VACM			
P-VAC 0076	1/2	9.8	5.8	187	88	20	60	0.7	07050 VACP	07050 VACM			
P-VAC 0106	3/4	15.0	8.8	257	88	20	80	0.8	14050 VACP	14050 VACM			
P-VAC 0186	1	24.8	14.6	263	125	32	100	1.8	12075 VACP	12075 VACM			
P-VAC 0306	1	41.9	24.6	363	125	32	120	2.5	22075 VACP	22075 VACM			
P-VAC 0476	1 1/2	63.8	37.5	461	125	32	140	2.5	32075 VACP	32075 VACM			
P-VAC 0706	1 1/2	97.5	57.4	640	125	32	160	3.2	50075 VACP	50075 VACM			
P-VAC 0946	2	125	73.6	684	163	43	520	5.1	51090 VACP	51090 VACM			
P-VAC 1506	2	187	110	935	163	43	770	7.1	76090 VACP	76090 VACM			
P-VAC 1756	2 1/2	210	123	935	163	43	770	6.9	76090 VACP	76090 VACM			
P-VAC 2006	3	270	159	795	240	59	630	12.9	51140 VACP	51140 VACM			
P-VAC 2406	3	345	203	1000	240	59	780	14.0	75140 VACP	75140 VACM			

Replace cartridges every 12 months or earlier for specific applications.

Silicone Free

Filtration

Quality Class

Compressed Air Filter Elements



AFs filters have been specifically developed for applications in the paint industry. These filters are free of substances that could cause defects in paint applications, and provide high efficiency removal of water, oil aerosols, hydrocarbons and odour vapours from compressed air systems.

To meet the required compressed air quality, appropriate 'paint compatible' filter element must be installed into the filter housing. These elements have been developed tested and proven for paint operations.

- max. operating pressure: 16 bar (232 psi)
- operating temperature range: 1.5 65°C (35 149 °F)

APPLICATIONS

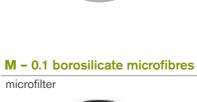
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- · Painting applications
- · Automotive industry



	TECHNICAL DATA														AFS ELEMENT					
Filter	Pipe siz	е	Flow Ra	ate at 7	bar		Dime	nsions (mm)		Mass	Ms N	licrofibr	e	Ss Micro	fibre				
Model	Inch		Nm²/h	С	fm	A	В	(;	D	Kg	C).1µm		0.01μ	m				
AFs 0056	3/8		60	;	35	187	88	2	0	60	0.7	06	050 Ms		06050	Ss				
AFs 0076	1/2		75	4	46		88	2	0	60	0.7	07	050 Ms		07050	Ss				
AFs 0106	3/4		120	-	70	257	88	2	0	80	0.8	14	050 Ms		14050	Ss				
AFs 0186	1		198	1	16	263	125	3	2	100	1.8	12075 Ms			12075 Ss					
AFs 0306	1		335	1	97	363	125	3	2	120	2.5	22075 Ms		22075 Ms			22075	Ss		
AFs 0476	1 1/2		510	3	00	461	125	3	2	140	2.5	32075 Ms		32075 Ms		32075 Ms			32075	Ss
AFs 0706	1 1/2		780	4	59	640	125	3	2	160	3.2	50	50075 Ms		50075 Ms		50075	Ss		
AFs 0946	2		1.000	5	88	684	163	4	3	520	5.1	51	51090 Ms		51090	Ss				
AFs 1506	2		1.500	8	82	935	163	4	3	770	7.1	76	76090 Ms		76090	Ss				
AFs 1756	2 1/2		1.680	9	90	935	163	4	3	770	6.9	76	090 Ms	ls 76090		Ss				
AFs 2006	3		2.160	12	270	795	240	5	9	630	12.9	51	140 Ms		51140	Ss				
AFs 2406	3		2.760	10	620	1000	240	5	9	780	14.0	75	140 Ms		75140	Ss				
						CORRE	CTION	FACT	ORS											
Operating Press	nerating Pressure (bar) 2 3 4			4	5	6	7	8	9	10	11	12	13	14	15	16				
Operating Press	ure (psi)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232				
Correction Fa	Correction Factor		0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13				









A² - activated carbon, borosilicate microfibres adsorption



P - 3 µm acrylic fibres, cellulose



S - 0.01 borosilicate microfibres

microfilter





H² - hopcalite, borosilicate microfibers





R - 1 µm acrylic fibres, cellulose





A - activated carbon, borosilicate microfibres

adsorption





CKL-B - stainless steel, PA

centrifugal separation





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Pressure Drop Indicators

For Compressed Air Filters

NB: ALL PRESSURE DROP INDICATORS ONLY INDICATE MEANINGFUL PRESSURE DROP AT FULL FLOW, AND IF THERE HAS BEEN NO EVENT TO AFFECT THE INTEGRITY OF THE ELEMENT. IF THERE IS LOW OR NO FLOW THERE WILL BE NO PRESSURE DROP

PDI 16 - Pressure Drop Indicator

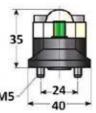
The Pressure Drop Indicator PDI 16 has been developed to indicate pressure drop across the filter element in compressed air system. PDI 16 is typically installed on the head of the filter housing. PDI 16 saves compressed air energy by indicating when the filter element needs to be changed. If the filter element is clean, the indicator remains green. It changes to red when the filter is clogged and should be changed.

PDI 16 can be used in a wide variety of applications, if not sure, please contact us or your local dealer.

Technical Data:

- green area: pressure drop 0 - 0.6 bar (0 - 8.7 psi)
- red area: pressure drop 0.6 - 0.9 bar (8.7 - 13 psi)
- max. operating pressure:
 16 bar (232 psi)
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)





MDA 60 - Pressure Drop Indicator

Pressure drop indicator MDA 60 is used to accurately display the pressure drop across the filter. The housing is made of aluminium alloy, which is available either in white or aluminium colour.

Technical Data:

- max. operating pressure:
 20 bar (290 psi)
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)
- measuring range:
 +/- 2 bar (+/- 29 psi)







MDM 60, MDM 60E, MDM 60C -Pressure drop indicators

Magnetic differential manometer MDM 60 has been developed to indicate pressure drop across the filter element in compressed air systems (1).

- The Magnetic differential pressure drop indicator MDM60 is available in three versions:
- basic version MDM 60

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- electonic version MDM 60E (with LED alarm light for cartridge changing)
- voltage-free dry contact version MDM 60C for remote alarm

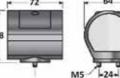
Technical data:

- green area:
 pressure drop 0 0.6 bar (0 8.7 psi)
- red area: pressure drop 0.6 – 0.9 bar (8.7 - 13 psi)
- max. operating pressure:
 16 bar (232 psi)
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)









(1) For any other technical gas please contact producer or your local distributor.

Electronic Pressure Gauge - EPG

EPG Series

EPG Electronic Pressure Guage

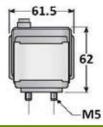
The EPG electronic pressure gauge is designed for monitoring of filter cartridge condition based on pressure drop, working hours, total hours or their combination.

A change filter cartridge warning is issued when these parameters approach their limiting values. It is battery operated and has voltage free contact output.

- An optional Alarm/ Warning output and Service Network Protocol for remote surveillance available.
- Specially designed electronics ensure low power consumption allowing long intervals between battery replacements, typically over 1 year with ordinary AA batteries.







TECHNICAL DATA: EPG-60								
ТҮР	E	EPG-SN	EPG					
Service network	connection	Yes No						
Pressure	range	0 –	16 bar (0 – 232 psi)					
Differential pre	ssure range	0.07 – 1.00 bar (0 – 14.5 psi)						
Maximum differentia	al pressure range	1 bar (14.7 psi)						
Operating temperature	Ambient		1.5°C – 40°C					
Operating temperature	Compressed air		1.5°C – 65°C					
Mas	S	130	g without batteries					
Mater	als	PA6, fibreglass, NBR (seals)						
Battery	Life	>1 year (alkaline AA)						

MDH Differential High Pressure Drop Indicator

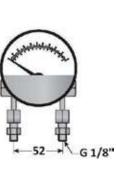
The Differential High Pressure Drop Indicator MDH has been developed for accurate indication of pressure drop across the filter element in the compressed air system. It is optimized for installing on the head of the filter housing.

- · Operating pressure: 50 bar
- Operating temp range:1.5 to 60°C
- The permissible medium temperature does not only depend on the instrument design, but also on the ignition temperature of the surrounding explosive atmosphere. Both aspects must be taken into account.

all other temperature classes



+100°C



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	TECHNICAL DATA: MDH					
Ambient temperature range	1.5 –	60°C				
Measuring range	0 – 400 mbar to 0 – 10 bar	0.58 psi to 0 – 147 psi				
Static pressure	50 bar	1463, 3673, 5878 psi				
Protection class	IP	54				
Accuracy	± 3% of	full scale				
Connection	2 x G½	a" male				
PERMI	SSIBLE MEDIUM TEMPERATURE					
Temperature class of the ambient atmosphere (ignition temperature)	Maximum permissible temper	rature (in the pressure system)				
T6 (>85°C)	+70°C					
T5 (>100°C)	+85°C					



AK assembly kit

The AK assembly kit is designed for assembling two, three or more filters together. It includes mounting brackets which can easily be attached to the wall or other structures.

The design of the assembly kit means it is universal and can be used for any filter types, including other brands.





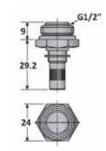
MCD - manual condensate drain

The MCD manual condensate drain has been developed for the simple discharging of condensate or any other non-aggressive fluid from compressed air system. In order to prevent condensate from becoming reentrained in the airstream we recommend controlling the condensate level in filter bowl, with an automatic drain trap. MCD is easy to install on the filter housing.

Technical Data:

- · material: brass
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)
- operating pressure range:
 0 -20 bar (0 290 psi)
- connection: 1/2"bsp
- · oil resistant o-ring





AOK 16B - Automatic Condensate Drain

AOK 16B is primarily used in filter housing bowls. Its task is the automatic discharge of condensate and oil. When the accumulated condensate exceeds to discharge level, the fl oat rises, opens the outlet aperture, and discharges condensate from the system. A manual emergency drain function allows the operator to manually drain the filter, and confirm the automatic operation.

Technical Data:

- · material: durable plastic, brass
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)
- operating pressure range:
 0 -16 bar (0 -232 psi)
- connection: 1/2"bsp
- · oil resistant o-ring



ES Exhaust Silencer

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The ES series exhaust silencers are designed for efficient noise reduction at a variety of applications where compressed air is vented to ambient pressure.

TECHNIC	CAL DATA				
ТҮРЕ	Connection	Operating Pressure	Operating Temperature	Dimensions mm diameter	Dimensions mm height
ES 06050	1/4"			51	69
ES 14050	3/8"			51	127
ES 12075	1/2"			75	131
ES 22075	3/4"	0.40 hav	1 5 1- 0500	75	231
ES 22090	1"	0-13 bar	1.5 to 65°C	90	231
ES 32090	11/4"			90	333
ES 32140	11/2"			140	336
ES 45140	2"			140	462



The AOK20B has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air systems.

It is used when larger amounts of condensate (up to 300 l/h) must be automatically discharged from filters, pressure vessels and cyclone separators. It ensures reliable operation up to 20 bar (290 psig). The AOK20B is also equipped with separate manual drain function for testing or venting.





AOK 20B - Automatic Condensate Drain

Condensate accumulates in the aluminium reservoir. When the condensate exceeds the discharge level, the float rises, opens the discharge aperture and discharges condensate from the system without any air losses. We recommend:

- Install ball valve between pressure vessel and Y strainer.
- Install Y-strainer between ball valve and breather nipple.
- Install breather nipple with integral venting tube to avoid air locks.
- · Nipple is screwed in inlet connection.

Technical Data:

- material: aluminium alloy
- operating temperature range:
 1.5 to 65 °C (35 to 149 °F)
- operating pressure range:
 0 20 bar (0 290 psi)
- connection: 1/2"bsp
- · oil resistant o-ring













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EMD Series

Electronic Condensate Drains - 16 bar



PATENTED VALVE **TECHNOLOGY**

The TD 16M timer controlled condensate drain range has been developed for reliable removal of condensate or other liquid from filters or pressure vessels in the compressed air system.

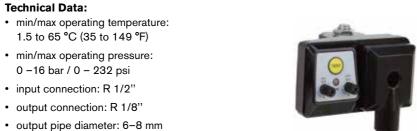
The TD16 M allows the user to discharge condensate for a controlled time and duration. Discharge intervals can be set with two adjustment knobs - discharge frequency and opening time.

TD drain is available in several types based on operating pressure and operating medium.

Benefits:

- · easy opening time settings
- · easy opening frequency settings
- · no moving parts
- · reliable operating without clogging and unaffected by outside conditions
- · test button
- · warning LED light for condense disposal





TECHNICAL DATA	TD16M	TD25M	TD150M	TD16MCR
Operating Pressure	16 bar (232 psi)	25 bar (362 psi)	150 bar (2175 psi)	16 bar (232 psi)
Supply voltage	230/240 volt	230/240 volt	230/240 volt	230/240 volt
Operating Temperature	1.5 - 65°C	1.5 - 65°C	1.5 - 65°C	1.5 - 65°C
Protection class	IP65	IP65	IP65	IP65
Coil power	18 VA (holding) 36 VA (inrush)	18 VA (holding) 36 VA (inrush)	18 VA (holding) 36 VA (inrush)	18 VA (holding) 36 VA (inrush)
Cable dimensions	3 x 0.75mm ²	3 x 0.75mm ²	3 x 0.75mm ²	3 x 0.75mm ²
Mass (cable + valve)	0.35 Kg	0.35 Kg	0.35 Kg	0.35 Kg
Mass (strainer)	0.23 Kg	0.23 Kg	0.23 Kg	0.23 Kg
Time OPEN (duration)	0.5 sec - 10 sec	0.5 sec - 10 sec	0.5 sec - 10 sec	0.5 sec - 10 sec
Time CLOSED (frequency)	0.5 min - 45 min	0.5 min - 45 min	0.5 min - 45 min	0.5 min - 45 min
Drain capacity @ 7 bar	95 l/hr	96 l/hr	97 l/hr	98 l/hr
Flow rate Kvs	2.4 l/min	1.5 l/min	0.7 l/min	3.4 l/min
Inlet connection	R 1/2" bsp	R 1/2" bsp	R 1/2" bsp	R 1/2" bsp
Outlet connection	R 1/4" bsp	R 1/4" bsp	R 1/4" bsp	R 1/4" bsp
Dimensions L x D x H mm	87.5 x 90.5 x 123	87.5 x 90.5 x 124	87.5 x 90.5 x 125	87.5 x 90.5 x 126
Medium	Air, water, oil	Air, water, oil	Air, water, oil	Aggressive fluids
Strainer option	yes	yes	no	no

capacity at 10 bar (145 psi): 0.2 – 114 l/h

mass: 0.35 kg











The new generation of electronic condensate drains - EMD Series is used for the automatic discharge of accumulated condensate from compressed air systems.

The real advantage of the EMD 12 is contactless measurement by a precise capacitive level sensor. Condensate accumulates in the collecting reservoir which is detected by the sensor then discharged without the loss of valuable compressed air.

Condensate flow constantly flushes debris out of the valve which assures reliable operation.

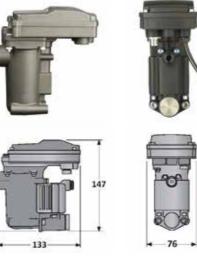
In the rare event of debris blocking the valve, the first sign is incorrect plunger position. By detecting an incorrect position, the automatic 'blocked plunger release' procedure is started. This procedure assures safe and reliable plunger activation. No staff intervention is

A version with Service Network for diagnostics parameter setting and alarm output is also available.

Benefits:

- · compact design
- integrated strainer(easy access for cleaning)
- · reliable direct acting, self cleaning valve
- · warning LED light for condensate disposal phase
- · horizontal or vertical installation
- PA housing

EMD 12





TECHNICAL DATA	EMD 12	EMD 12C	EMD 25	EMD 75
Service network connection	Χ	Yes	X	Х
Voltage	24	10	240	240
Fuse	5 x 20	1A T	5 x 20 1A T	5 x 20 1A T
Power	10	VA	24A	24A
Frequency	50 - 6	60 Hz	50 - 60 Hz	50 - 60 Hz
Operating Pressure range	0 - 16 bar (0 - 232 psi)	0 - 16 bar (0 - 232 psi)
Drain capacity (at 7 bar/101 psi)	12 l/hr (0.	.007 cfm)	25 l/h	75 l/h
Operating temperature min/max	1.5 -	65°C	1.5 - 65°C	1.5 - 65°C
Inlet connection	G 1/2"	bsp	G 1/2"	G 1/2"
Outlet connection	8 mmØ	push-in	8 mmØ	8 mmØ
Protection class	IP	54	IP 54	IP 54
Mass	55	0g	900g	1.2 Kg

IVIQSS		330g	9009	1.2 Ng
USE THE RELEVANT CL	.IMA	TE ZONE WHEN SIZING YO	OUR APPLICA	TION
Peak compressor capacity (m³/min)	а	8.8	16.6	55
	b	7.4	15.4	46.2
		4.6	9.6	28.7
	а	18.56	38.6	116
Peak dryer capacity (m³/min)	b	14.9	31	93.1
	С	9.28	19.3	58
	а	92.8	193.3	580
Peak filter capacity (m³/min)	b	74.4	154.9	465
	С	46.4	96.6	290

	CLIMATE ZONE
а	Dry inland
b	Coastal /temperate
С	Tropical

Also available in 24v











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ECD-B Series

Electronic Condensate Drains - 16 bar

Electronic condensate drains – ECD-B series is used for the automatic discharge of accumulated condensate from compressed air systems.

The basic principle is a contactless measurement of the accumulated condensate which is then discharged without the loss of valuable compressed air.

Condensate flows constantly flush debris out of the valve, which is the main factor in providing trouble free operation.

If in the unlikely occurrence of a debris blockage, the unit detects if there is an incorrect plunger position, then it automatically initiates a plunger release procedure to self purge. No staff intervention is needed.

ECD-B Series is made of an aluminium housing with a plastic cover to protect the internal electronics from potentially harmful external conditions.

Benefits:

- · Robust aluminium housing
- · Integrated filter mesh
- Compact design
- Two-way connectionsContactless measuring
- Direct acting, self cleaning valve (patented)
- Blocked plunger release procedure
- Operating diagnostic monitoring
- Warning LED light for "drain operating" and "alarm"

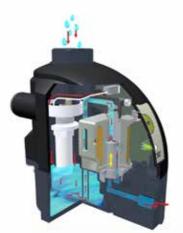


Technical department)
• IP 54 electrical protection

Operating Pressure: 0 – 16 bar Inlet connection: ½"

Operating temp range: 1.5 to 65°C















TECHNICAL DATA	ECD 15B	ECD 40B	ECD 90B	ECD 150B					
Drain capacity at 7 bar (101 psi)	15 l/hr	40 l/hr	90 l/hr	150 l/hr					
Voltage	230/240								
Power		24	A						
Frequency	50 – 60 Hz								
Operating Pressure	0 - 16 bar (0 - 232 psi)								
Operating temperature range	1.5 – 65°C								
Inlet connection		R 1/2"k	osp						
Outlet connection		R 1/8"	bsp						
Power interface		3 x .75	mm²						
Protection class	IP 54								
Mass Kg	0.9	0.9	1.05	1.15					
Dimensions A x B x C	120 x 82 x 125								

USE TH	E REL	EVANT CLIMATE ZO	NE WHEN SIZING YO	OUR APPLICATION	
	a	11.6	29.4	60.6	111.6
Peak compressor capacity (m³/min)	b	9.3	23.5	48.5	89.3
	С	5.8	14.7	30.3	55.8
Peak dryer capacity (m³/min)	а	23.2	58.8	121.2	223.2
	b	18.6	47	97	178.6
	С	11.6	29.4	60.6	111.6
	а	116	294	606	1116
Peak filter capacity (m³/min)	b	93	235	485	893
	С	58	147	303	558
Compressor motor (kW)		<30	<75	<160	<315

	CLIMATE ZONE										
а	Dry inland										
b	Coastal /temperate										
С	Tropical										

50 bar version also available







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TAC Series

Activated Carbon Towers

WOS-M Oil Separator Unit



The TAC activated carbon towers have been developed for removing oil vapours from compressed air (dry type separation).

The TAC series is made from high quality carbon steel. And the TACm series is made from aluminium. Both types are finished with powder coat epoxy. Flow distributors ensure uniform distribution of air flow through the activated carbon bed.

Oil vapours as well as some other hydrocarbons are separated due to adsorption process. Super fine coalescing filter is required upstream of the TAC and 1 µm dust filter is recommended downstream to intercept any activated carbon dust.

High pressure version is available on request.

CORRECTION FACTORS

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To calculate the correct capacity of a given tower based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).



CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x COP x COT

Operating pressure: 0 – 16 bar

Operating temp range: 1.5 to 45°C

Filter Housing	Inlet/Out- let	Operating Pressure	Flow Rate at 7 bar (g), 20°C		g), Dimensions (mm)		Dimensions (mm)		Activated Carbon	Volume	Cartridge
Size	Inch	bar	Nm³/h	cfm	A	В	С	kg	kg	litres	Number
TACm 6	3/8	16	6	3.5	404	164	120	3.5	0.5	1	1 x Ø80
TACm 12	3/8	16	12	7.1	938	164	120	5.3	1	2	2 x Ø80
TACm 23	3/8	16	24	14.1	1106	164	120	6.5	2	4	4 x Ø80
TACm 35	3/8	16	36	21	1574	164	120	12	3	6	6 x Ø80
TACm 56	1/2	16	60	35	1120	212	170	15	5.2	10.4	4 x Ø129
TACm 70	1/2	16	75	44.1	1350	212	170	18	6.5	13	5 x Ø129
TACm 105	1/2	16	105	61.8	1817	212	170	22	9.1	18.2	7 x Ø129
TAC 10	3/4	16	100	59	1369	300	261	44	11	22	bulk
TAC 18	1	16	175	103	1380	300	315	51	19	38	bulk

	CONNECTION FACTORS - FRESSORE														
Operating Pressure (bar)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating Pressure (psi)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correctional Factor	0.38	0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

	CORRECTION FACTORS – TEMPERATURE											
Operating temperature C	Operating temperature C 20 25 30 35 40 45 50 55 60											
Correction factor	1	0.098	0.97	0.92	0.86	0.75	0.6	-	-			

Quality class - solids (ISO 8573-1) —

Quality class - water (ISO 8573-1) —

Quality class - oils (ISO 8573-1) 0/1

Pressure drop -new element (mbar/psi) 20/0.29

Filter media activated carbon

Residual oil vapour content (nominal) [mg/m³ <0.003

Larger sizes ASME certified with capacity rated up to 1646 cfm are available.

Replace activated carbon every 12 months or sooner if required. Check residual oil content with test kit monthly

Local environmental laws and regulations state that condensate drained from compressed air systems cannot be discharged to the sewage system due to the content of compressor lubricating oil.

WOS-M water oil separators have been developed to separate lubricant oil from condensate generated in compressed air systems.

The WOS-M is an oil separator unit with a disposable filter cartridge. Due to patented technology regular service can be done in 30 seconds without any cleaning. Separation begins in "cyclonic depressurization chamber" and continues in the "filter cartridge". Multi-stage separation process using oleophilic filters and activated carbon ensures exceptional performance and trouble free operation. When the "filter cartridge" is fully saturated you just simply unscrew the complete cartridge and replace it with a new one. All the condensate stays in the old cartridge which can also be sealed with plastic cover and disposed of according to local directives and laws.



Easy installation due to compact design and small dimensions.

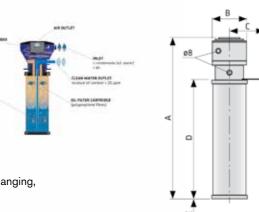
WOS-M series covers compressor capacities up to 4 m³/min.

Benefits:

- · no complex sizing required,
- · floor or wall installation,
- · works with any type of condensate drain,
- · can handle and separate any type of oil,
- oil residue value is less than 20 ppm,
- · easy to maintain,

- disposable filter cartridge,
- · quick and clean filter cartridge changing,
- · quick coupling connection,
- no condensate settling tank is required (therefore there is no bacteria build-up),
- small compact design





	TECHNICAL DATA: WOSm						DIMENSIONS (mm)					
Filter Housing		Climate Zone a	Climate Zone b	Climate Zone c	A	В	С	D	E	Kg		
	Max oil adsorption [g]	740	650	370								
WOSm1	Max FAD [Nm3/min]/[cfm]	1,23/43,05	1,08/37,8	0,62/21,9	483	106	80	335	50	1.21		
	Max condensate flow [I/h]	0,57	0,90	1,91								
Max oil adsorption [g]		1520	1340	770								
WOSm2	Max FAD [Nm3/min]/[cfm]	2,54/88,9	2,23/78,05	1,28/45,2	816	106	80	670	50	1.75		
	Max condensate flow [I/h]	1,19	1,87	3,96								

	CLIMATE ZONE										
а	Dry inland	15 °C	60% RH								
b	Coastal /temperate	25 °C	60 % RH								
С	Tropical	40 °C	100 % RH								



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Local environmental laws and regulations state that condensate drained from compressed air systems cannot be discharged to the sewage system due to the content of compressor lubricating oil.

The WOS is one of the most effective and economical oil-water separators. Multi-stage separation process using oleophilic filters and activated carbon, ensures exceptional performance and trouble free operation.

WOS series covers all compressor capacities up to 35 m³/min.

Benefits:

- · no complex sizing required,
- simple to install,
- · works with any type of condensate drain,
- can handle and separate any type of oil,
- oil residue value is less than 10 ppm,
- · easy to maintain,
- no condensate settling tank is required (therefore there is no bacteria build-up),
- small compact design,
- test valve and test set included for sampling purposes.

Water quality test

Water quality test should be performed at least once per month, to monitor the contamination level of disposed condensate. If oil concentration is reached, oil filter cartridges must be changed.





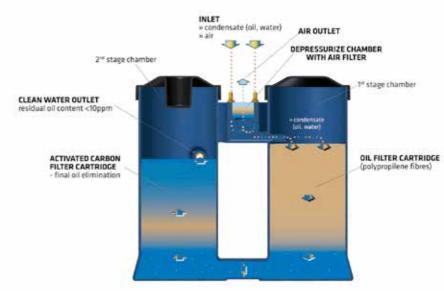












	TECHNICAL DA	TA: WOS			DIMI	ENSIONS	(mm)	Filter Element	
Filter Housing		Climate Zone a	Climate Zone b	Climate Zone c	A	В	C		
WOS-4	Max oil adsorption [g]	2,89	2,43	1,23					
	Max FAD [Nm3/min]/[cfm]	4,82/170	4,04/142	2,05/72,3	416	243	411	PP, AK WOS 4	
	Max condensate flow [I/h]	2,3	3,4	6,3					
	Max oil adsorption [g]	6,01	5,04	2,55					
WOS-8	Max FAD [Nm3/min]/[cfm]	10,0/353	8,4/296	4,25/150	730	343	680	PP, AK WOS 8	
	Max condensate flow [I/h]	4,7	7,1	13,1					
	Max oil adsorption [g]	14,64	12,28	6,22					
WOS-20	Max FAD [Nm3/min]/[cfm]	24,4/861	20,5/723	10,37/366	820	366	940	PP, AK WOS 20	
	Max condensate flow [I/h]	11,4	17,2	32,0					
	Max oil adsorption [g]	25,4	21,31	10,79					
WOS-35	Max FAD [Nm3/min]/cfm]	42,3/1495	35,5/1254	17,99/635	960	386	1137	PP, AK WOS 35	
	Max condensate flow [I/h]	19,8	29,8	55,6					

CLIMATE ZONE								
а	Dry inland	15 °C	60% RH					
b	Coastal /temperate	25 °C	60 % RH					
С	Tropical	40 °C	100 % RH					









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The A-DRY desiccant adsorption dryer has been designed to separate water moisture from compressed air thus reducing the dew point in the system.

The A-DRY is a range of products that offers our customers a wide array of dried air solutions with volumetric flow rates ranging from 6 Nm3/h to 105 Nm3/h.

An innovative new design of A-DRY adsorption driers, developed with consideration for our customers, enables fast and reliable installation, use and servicing.

Installation is simple with our ready to use controller while minimising the number of parts and steps required for assembly and disassembly makes servicing fast and reliable.

Advantages:

- Wide range of products to fit your need.
- · Robust and intuitive ready to use controller.
- · Simple assembly and disassembly.
- Fast and reliable servicing.
- Adsorbent in cartridges for less mess and ease of use.
- Standard version includes coalescing pre-filter and particle afterfilter.



	TECHNICAL DATA A-DRY ADSORPTION DRYER											
Filter	Connection	onnection Inlet Flow Rate		Outlet F	Dimensions (mm)							
Housing Model	Inch	[Nm³/h]	cfm	[Nm³/h]	cfm	A	В	С	D	E	F	kg
A-DRY 06	G3/8	6	3.5	4.7	2.6	339	404	288	352	100	120	10.5
A-DRY 12	G3/8	12	7	9.4	5.3	573	638	288	352	100	120	13.5
A-DRY 24	G3/8	24	14.1	18.8	10.5	1041	1106	288	352	100	120	19
A-DRY 36	G3/8	36	21.1	28.2	15.8	1509	1574	288	352	100	120	27.5
A-DRY 60	G1/2	60	35.3	47	26.3	1041	1106	370	434	148	170	45
A-DRY 75	G1/2	75	44.1	58.8	32.8	1275	1340	370	434	148	170	53
A-DRY 105	G1/2	105	61.8	61.8	34.5	1743	1808	370	434	148	170	70
A-DRY 150	G 1	150	88.3	88.3	52	1345	145	440	815	198	240	170.5
A-DRY 200	G 1	200	117.7	117.7	69.3	1538	1648	440	815	198	240	182.2







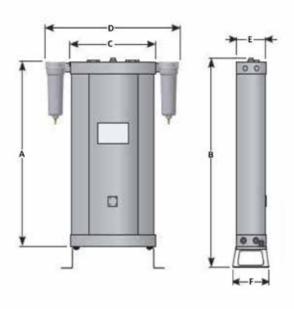


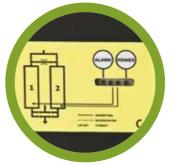


CORRECTION	ON FACT	CORRECTION FACTO	R - DE	W POIN	NT F3					
Inlet temperature	25	30	35	40	45	50	°C	-25	-40	-70
Correction factor F2	1	1	1	0.97	0.87	0.8	F3	1.1	1	0.7

TECHNICAL SPECIFICATIONS						
Pressure Range	4 –16 bar					
Operating Temperature	1.5°C t0 45°C					
Pressure Dewpoints	-40°C (-25°C, -70°C)					
Voltage, Frequency	230V, 50/60 Hz					
Power consumption	<30 W					
Protection class	IP 65					
M Prefilter	0.1 borosilicate					
S Final filter	0.01 borosilicate					

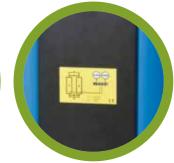
CONSTRUCTION						
End caps	Aluminium					
Columns, Side covers	Aluminium					
Valves	Brass, Aluminium					
Seals	NBR					
Flexible connection	Nylon					
Fittings, screws, plugs	Inox, Brass					
Cartridges	Aluminium, Polyamide, aluminosilicate					
Lubricant	Shell cassida RLS 2					
External protection	Epoxy-polyester powder coat					











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B-DRY 110 - 1000

Heatless Regenerated Adsorption Dryer

The B-DRY 110-1000 adsorption dryers have been designed for continuous separation of water vapour from compressed air thus reducing dew point.

Operation of dryer consists of 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 LED 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.

DRYER RATING ACCORDING TO ISO 8573-1:

Solid particles: class 1

Water: class 1-3 (Class 2 when operated at nominal operating conditions)

Oil: class 1

PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE (Fluid group 2) B-DRY 110 to B-DRY 300 Category 2 Module H



	TECHNICAL DATA B-DRY ADSORPTION DRYER									
Filter Connection Inlet Flow Rate Outlet Flow Rate Dimensions (mm) Mass Volum									Volume	
Housing Model	Inch	Nm³/h	cfm	Nm³/h	Nm³/h cfm A B C kg					
B-DRY 110	G1"bsp	110	64.7	86	50.6	750	550	1500	126	20
B-DRY 150	G1"bsp	150	88.3	117.5	69.2	750	550	1700	142	25
B-DRY 200	G1"bsp	200	117.7	157	92.4	750	550	1750	180	35
B-DRY 250	G1"bsp	260	153	204	120.1	750	550	1850	220	45
	OPERATING PRESSURE									

	OPERATING PRESSURE														
(bar)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(psi)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correctional Factor - C _{OP}	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13









OPERATING TEMPERATURE									
°C	25	30	35	40	45	50	55	60	
\mathbf{C}_{ot}	1	1	1	0.97	0.87	0.8	0.64	0.51	

DEW POINT							
°C	-25	-40	-70				
C _D	1.1	1	0.7				

CORRECTION FACTORS:

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

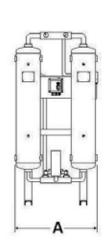
CORRECTED CAPACITY = NOMINAL FLOW CAPACITY \times C_{oo} \times C_{ot} \times C_d

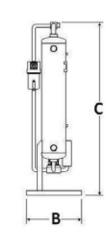
MAINTENANCE:

For maintenance, please follow operating manual. Check dryer operation weekly. Typical service interval:

- filter elements: every 12 months in operation or sooner if required
- silencers, valve components,: every 24 months in operation or sooner if required
- desiccant: every 48 months in operation or sooner if required







TECHNICAL SPECIFICATIONS						
Pressure Range	4 – 16 bar					
Operating Temperature	1.5°C to 45°C					
Pressure Dewpoints	-40°C (-25°C , -70°C)					
Voltage, Frequency	230V, 50/60 Hz					
Power consumption	<60 W					
Protection class (controller)	IP 65					
S Prefilter	0.01 borosilicate					
R Final filter	Dust 1μm					

CONSTRUCTION							
General construction	Steel						
External protection	Powder coat Epoxy- polyester						
Dessicant support screen	Stainless steel						
Valves	Brass, Aluminium						
Seals	NBR						
Fittings	IP 65						
Lubricant	Shell Cassida grease RLS 2						
Dessicant	80% Molecular sieve 4A, 20% Silica gel						

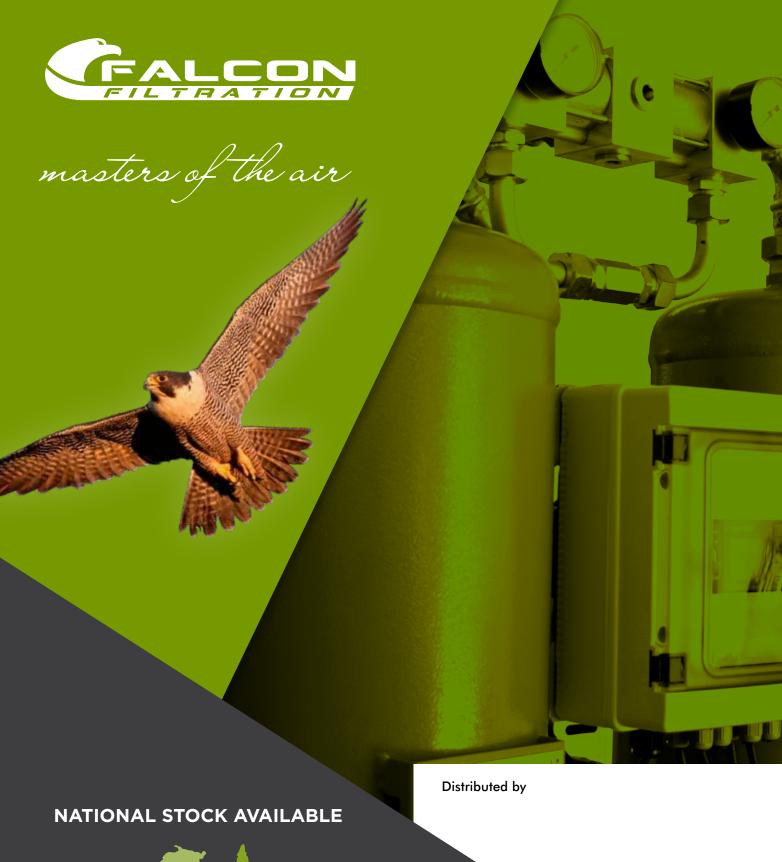








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QLD NSW VIC

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