



COMPRESSED AIR





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Icon Guide



Material(s)
For filter elements this is describing the filter media.



Certificate(s)
FDA or PED? You find any certificate here.



Flow
Recommended max. flow unless otherwise described.



Surface Roughness
The roughness of the filter housing surface. Described in μm .



Dimensions
For filter elements this describes the length.



Filtration Rate
The micron rating of the filter element.



Inlet/Outlet Connection
Refer to the table if the filterhousing has various connection sizes.



Diameter
The cartridge diameter of filter elements.



Effectivity
Describes the retention of particles equal to the micron rating.



End Cap
See guides for overview of end caps.



Pressure
Recommended max. pressure unless otherwise described.



Differential Pressure
Recommended max. diff. pressure unless otherwise described.



O-ring Material
Describes the standard o-ring. We can supply different materials.



Temperature
Recommended max. temperature unless otherwise described.



Dew Point
Describes the achievable dew points.



THE SCANDINAVIAN FILTRATION PARTNER

Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids, water and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter Group. Production is in Germany and we have several subsidiaries in Europe.

From all locations, you can buy our products on local websites. Information about our products as well as brochures and manuals, can be found on our website. We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

We have a huge selection of compressed air filters, that are compatible with compressed air systems of all brands. We also offer compressed air dryers, adsorption and membrane dryers in addition to auto drain compressors, compressed air tanks and oil-water separators. Additionally, we have sterile compressed air filters for the food and beverage applications.

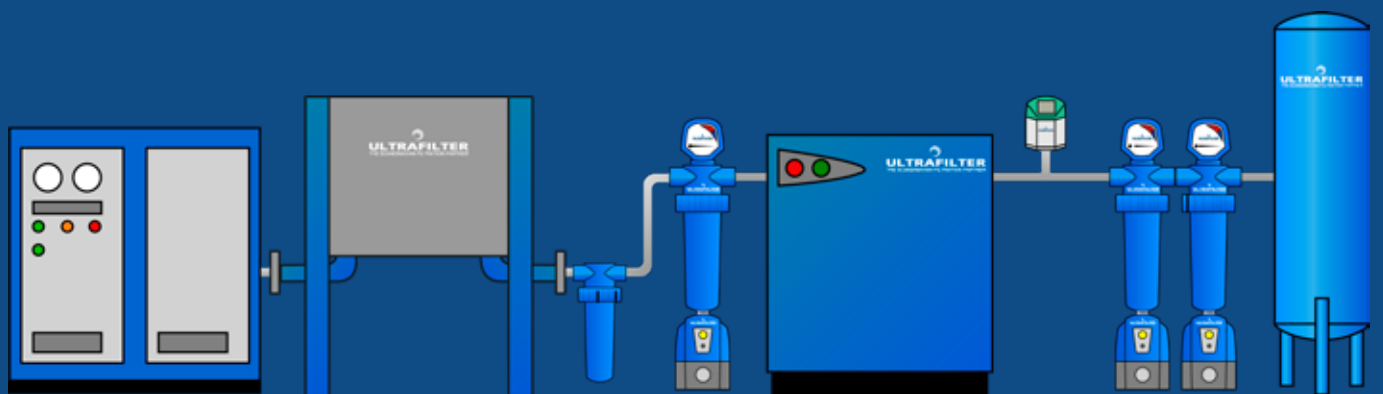
We offer all kinds of filters for liquids such as bag filters, cartridge filters and membrane filters, with industrial applications, such as coolant. We have a great deal of experience with filter solutions for the food and beverage industry, and our products are approved by EC 1935/2004 as well as FDA. We also carry a selection of filters for drinking water.

We have one of the best generators for manufacturing nitrogen and oxygen and for filtering all kinds of gas like methane and bio gas.

Ultrafilter Scandinavia has a wide selection of reverse osmosis-systems. Sizes that fits all types of companies.

Ultrafilter designs and manufactures components and systems for the purification of compressed air, technical gases water and liquids.





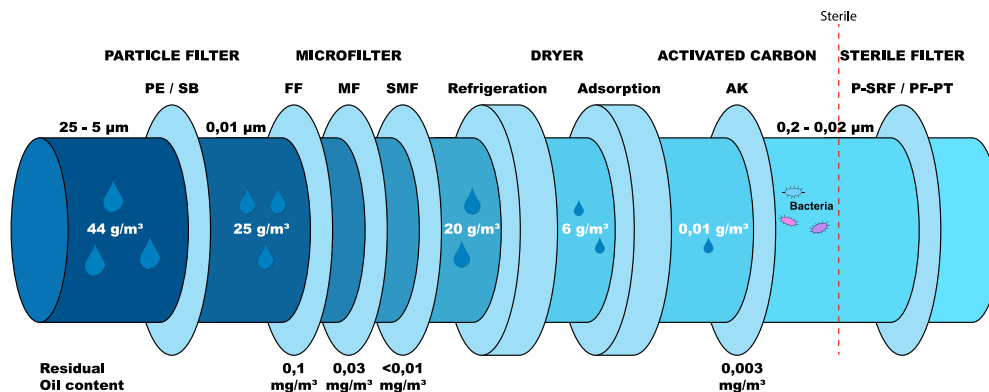
COMPRESSED AIR



Compressed air contains water, oil and particles, therefore it is a good idea to filter your compressed air, before it is used in production. The quality of the compressed air depends on how and where you need to use it. Ultrafilter offers all types of compressed air and technical gas filtration.

At Ultrafilter we have extensive experience with compressed air and compressed air filters. We are ready to share this experience, if you need advice and guidance in relation to compressed air. We help you find the air filter that suits your compressed air system, and that comply with industry and customer requirements.

To achieve compressed air of high quality we need to remove the oil, water and particles from the air. On the illustration below you can see how the different filters affects the compressed air.



Application	Particle Class	Water Class	Oil Class	Class	Particles pr. m³			Dew Point	Residual Oil Content
					0,1 - 0,5 µm	0,5 - 1 µm	1 - 5 µm		
General automatic	2-5	3-4	2						
Blown air	5	5	2	1	≤ 20.000	≤ 400	≤ 10	-70°C	≤ 0,01 mg/m³
Laser cutting	1	1-2	1	2	≤ 400.000	≤ 6.000	≤ 100	-40°C	≤ 0,1 mg/m³
Paints	1	2-3	1	3		≤ 90.000	≤ 1.000	-20°C	≤ 1 mg/m³
Machines with automation	2-3	2-3	1-2	4			≤ 10.000	+3°C	≤ 5 mg/m³
Surface	1-3	3-4	1	5			≤ 100.000	+7°C	
Sandblasting	3-5	3-5	4	6				+10°C	
Breathing air	1	3	1						

Process Industry			
Automatic (cylinders, solenoid valves)	1-5	3-4	1-3
General compressed air	3-5	4-5	2
Measurement & control engineering	1	2-4	1
Process air	1-3	2-3	1
Blasting / powder transport	1-3	2-4	1

Food Industry			
Automatic (cylinders, solenoid valves)	1-3	3-4	1-2
Wrappers	1-3	3-4	1-2
Tapping columns	1-3	3-4	1-2
Air tools in the production room	1-3	3-4	1-2
Air tools in workshop	4-5	4-5	4

We use ISO 8573-2010 as a reference when choosing compressed air filters, and to find out to which level it is necessary to clean the air. ISO 8563-2010 contains particles class, water class and oil class. When referring to an ISO class, the classes are written in that order.

As an example: ISO class 2.4.1



AIR-COOLED AFTERCOOLER

AIR

Technical Data

 10 or 16 bar (Other pressure by request)

 200°C

 Steel and aluminium

 72 - 3000 m³/h



The aftercoolers in the AIR series use ambient air to cool the output compressed air at the compressor at an output temperature of only 10°C higher than the ambient temperature. This cooling causes condensation of up to 80% of the moisture in the compressed air. The condensate is then gathered and discharged in the cyclone, installed at the aftercooler outlet.

The aftercoolers are made up from a heat exchanger with a finned coil, cooled by a high-efficiency axial fan mounted on a galvanised and painted sheet structure.

Model	Flow m³/h	Connection	
		In	Out
AIR 0072	72	3/4"	1/2"
AIR 0216	216	1 1/4"	1 1/4"
AIR 0510	510	2"	2"
AIR 0710	720	2 1/2"	2 1/2"
AIR 1200	1200	2 1/2"	2 1/2"
AIR 2323	2323	2 1/2"	2 1/2"

ACCESSORIES



Timer Drain



Float Drain



Zero Loss Drain

WATER-COOLED AFTERCOOLER

WATER





Technical Data

 10 or 16 bar

 200°C

 Steel

 90 - 7500 m³/h

 PED

Aftercoolers from the Water series allow the efficient purification of compressed air by cooling the air at the outlet of the compressor at an outlet temperature of only 10°C higher than that of the inlet process water. This cooling causes condensation of up to 80% of the moisture present in the compressed air, which can be separated out of the air by the cyclone installed at the outlet of the cooler.

UA-Water has a robust design suited to the extreme conditions of typically industrial tasks;

Carbon steel vessel with copper tubes, which can also be used for seawater.

Model	Flow m3/h	Connection	
		In	Out
WATER 0090	90	1"	1/2"
WATER 0162	162	1 1/2"	1"
WATER 0445	445	2"	2"
WATER 0630	630	2"	2"
WATER 0990	990	2 1/2"	2 1/2"
WATER 1620	1620	DN80	DN80
WATER 2700	2700	DN125	DN125
WATER 3420	3420	DN150	DN150
WATER 4800	4800	DN200	DN200
WATER 6180	6180	DN200	DN200
WATER 7500	7500	DN250	DN200

ACCESSORIES



Timer Drain



Float Drain



Zero Loss Drain



COMPRESSED AIR FILTER

AG

Technical Data

- Aluminium
- 16 bar
- 65°C
- Perbunan Gasket
- SB, PE, FF, MF, SMF, AK & AKK
- PED

Features & Benefits

- BSP or NPT Connection
- Low differential pressure (>50mbar)

AG standard filter housings are designed for the purification of compressed air and gases in an industrial operation. This product series offers 14 different housings ranging from a volume flow of 20 m³/h to 2880 m³/h (related to 1 bar and 20°C). We offer you 10 years working guarantee.

The housings are made out of three parts and due to an optimized construction, offer low differential pressures at high flow rates and as a standard equipped with a manometer and a float type drain. Other drains and accessories available.



ACCESSORIES FOR AG FILTER



Manometer



Float Drain



Zero Loss Drain



Timer Drain

Model	Flow m³/h	Connection in/out	Filter Element
AG 0002	20	1/4"	02/05
AG 0004	40	3/8"	03/05
AG 0006	60	3/8"	03/10
AG 0009	90	1/2"	04/10
AG 0012	120	1/2"	04/20
AG 0018	180	3/4"	05/20
AG 0027	270	1"	05/25
AG 0036	360	1 1/4"	07/25
AG 0048	480	1 1/2"	07/30
AG 0072	720	2"	10/30
AG 0108	1080	2"	15/30
AG 0144	1440	2 1/2"	20/30
AG 0192	1920	3"	30/30
AG 0288	2880	3"	30/50

Correction factor (flow x K1 = recommended flow rate)

Operating pressure	bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,25	0,36	0,5	0,6	0,75	0,9	1	1,1	1,2	1,4	1,5	1,6	1,75	1,9	2	2,1

FILTER HOUSING WITH FLANGES

SG



SG filter housing series with bottom opening for easy maintenance and exchange of filter elements. For higher filtration efficiency with Ultrafilter "High Performance" filter elements.

The SG filter housing offer minimal pressure loss due to improved flow technology and we guarantee the filter a long life thanks to the resin coating and the automatically controlled, level sensing float drain.

The SG filter housing comes with flange connections from DN50 to DN300.

Max. operating pressure: 16 bar.



Technical Data

- Steel
- 16 bar (25 bar option)
- 120°C
- Perbunan Gasket
- SB, PE, FF, MF, SMF, AK & AKK
- PED

Features & Benefits

Flange DN / ANSI Connection

Low differential pressure (>50mbar)

ACCESSORIES FOR SG FILTER



Manometer



Zero Loss Drain



Zero Loss Drain



Timer Drain

Model	Flow m³/h	Connection in/out	Filter Element	
			Size	Qty
SG 0108	1080	DN 50	15/30	1
SG 0144	1440	DN 65	20/30	1
SG 0192	1920	DN 80	30/30	1
SG 0288	2880	DN 80	30/50	1
SG 0432	4320	DN 100	20/30	3
SG 0576	5760	DN 100	30/30	3
SG 0768	7680	DN 150	30/30	4
SG 1152	11520	DN 150	30/30	6
SG 1536	15360	DN 200	30/30	8
SG 1920	19200	DN 200	30/30	10
SG 2304	23040	DN 250	30/30	12
SG 3072	30720	DN 250	30/30	16
SG 3840	38400	DN 300	30/30	20

Correction factor (flow x K1 = recommended flow rate):

Operating pressure	bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,25	0,36	0,5	0,6	0,75	0,9	1	1,1	1,2	1,4	1,5	1,6	1,75	1,9	2	2,1



HIGH PRESSURE FILTER HOUSING

HD

Technical Data

-  Aluminium or carbon steel
-  25, 40, 64, 100, 250 or 400 bar
-  -10 to +80°C
-  Perbunan Gasket
-  SB, PE, FF, MF, SMF, AK & AKK
-  PED



The Ultrafilter HD high pressure filter housings are designed for the purification of compressed air and gases.

Due to the modular design of the housings different filter elements can be used.

A multitude of housings with different connections, allow to match the requirements of the application, e. g. the compressor size. This product series offers 8 different housings ranging from a volume flow of 30 m³/h to 720 m³/h, in the pressure stages PN 25 to PN 400 (related to 7 bar (ü) and 20°C).



Timer Drain
Optional

Model	Flow @ 7 bar m ³ /h	Connection in/out	Pressure PN	Filter Element
HD 0003	30	1/4"	25-400	03/05
HD 0006	60	3/8"	25-400	03/10
HD 0012	120	1/2"	25-400	04/20
HD 0018	180	3/4"	25-400	05/20
HD 0027	270	1"	25-400	05/25
HD 0036	360	1 1/4"	25-400	07/25
HD 0048	480	1 1/2"	25-400	07/30
HD 0072	720	2"	25-400	10/30

Correction factor (flow x K1 = recommended flow rate):

Operating pressure	bar	7	25	40	64	100	250	400
Correction factor	K1	1	3	5	8	12	12	12

ZERO LOSS CONDANSATE DRAIN

UAD100/150L/333/1000/5277



Technical Data

- Plastic
- 0-16 bar
- 1 to 60 °C
- G½"

Zero Loss Condensate drains with level control ensure loss free condensate discharge.

In compressed air systems condensate and contaminants contained in it can cause considerable damage to the compressed air lines.

The tasks of condensate drains is to remove the condensate from the pressurised air system safely.

Features

- Non-wearing magnetic core level control for optimised and loss free discharge of condensate
- Integrated dirt screen between level measurement and drain valve to protect the diaphragm valve with alarm monitor
- Diaphragm valve with large cross-section and condensate pilot control
- Volt free alarm contact

Data						
Model	Compressor aftercooler	Capacity refrigeration dryer	Filter	max. working pressure	Temperature range	Connections
UAD100	180 m³/h	360 m³/h	1800 m³/h	16 bar	1-60 °C	G ½
UAD150L	450 m³/h	900 m³/h	4500 m³/h	16 bar	1-60 °C	G ½
UAD333	600 m³/h	1200 m³/h	600 m³/h	16 bar	1-60 °C	G ½
UAD1000	1800 m³/h	3600 m³/h	18000 m³/h	16 bar	1-60 °C	G ½
UAD5277	9500 m³/h	19000 m³/h	95000 m³/h	16 bar	1-60 °C	G ½



PREFILTER ELEMENTS

SB / PE

Technical Data

-  PE: Polyethylene. SB: Stainless Steel
-  PE: 25 µm. SB: 1, 5 or 25 µm
-  99%
-  PE up to 80, SB up to 120
-  Aluminium end caps
-  Perbunan Gaskets



Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.

PE elements are made of a sintered polyethylene filter media and guarantee absolute retention rates. By using various filtration mechanisms – such as direct impact and sieve effect – contaminants down to the size of 25 µm are being retained.

The SB is a prefilter, developed for retention of particles and liquids out of compressed air. The sintered stainless steel filtration material assures high thermal durability.

Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.

RECOMMENDED FILTER HOUSINGS



AG



SG



HD

MICROFILTER ELEMENTS

FF / MF / SMF



Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.

The FF/MF/SMF filter elements are made with a pleated oleophobic filter media that rejects oil and water.

Advanced pleating techniques mixed with nano technology, makes our "High Performance" filters much more effective than a standard filter, as the pleating provides a 450% larger filtration surface per square inch. The special pleating also secures a much larger particle retention capacity.

The benefits of using this type of filter is low differential pressure, up to 70% lower energy costs and improved efficiency of filtration.

Technical Data

-  Borosilicate, cerex and polyurethane
-  0,01 µm
-  99%
-  80°C
-  Aluminium end caps
-  Perbunan Gaskets

OPTION: HT-CR 120C & HT-NX 180C

Features & Benefits

Low differential pressure entire lifetime
Lifetime: 8000 hours / 1 year

RECOMMENDED FILTER HOUSINGS



AG



SG



HD

Type	Filtration rate	Effectivity	Residual oil content	Start-up differential pressure
FF	0,01 µm	99,999%	0,1 mg/m³	0,04 bar
MF	0,01 µm	99,99998%	0,03 mg/m³	0,08 bar
SMF	0,01 µm	99,99999%	<0,01 mg/m³	0,09 bar



ACTIVATED CARBON ELEMENTS

AK / AKK

Technical Data

 Activated Carbon and Borosilicate

 10 - 40°C

 Aluminium end caps

 Perbunan Gaskets

Residual oil content: < 0,003 mg/m³

Lifetime: 1000-2000 hours (AK)
2000-4000 hours (AKK)

Maximum 3 months.



AKK

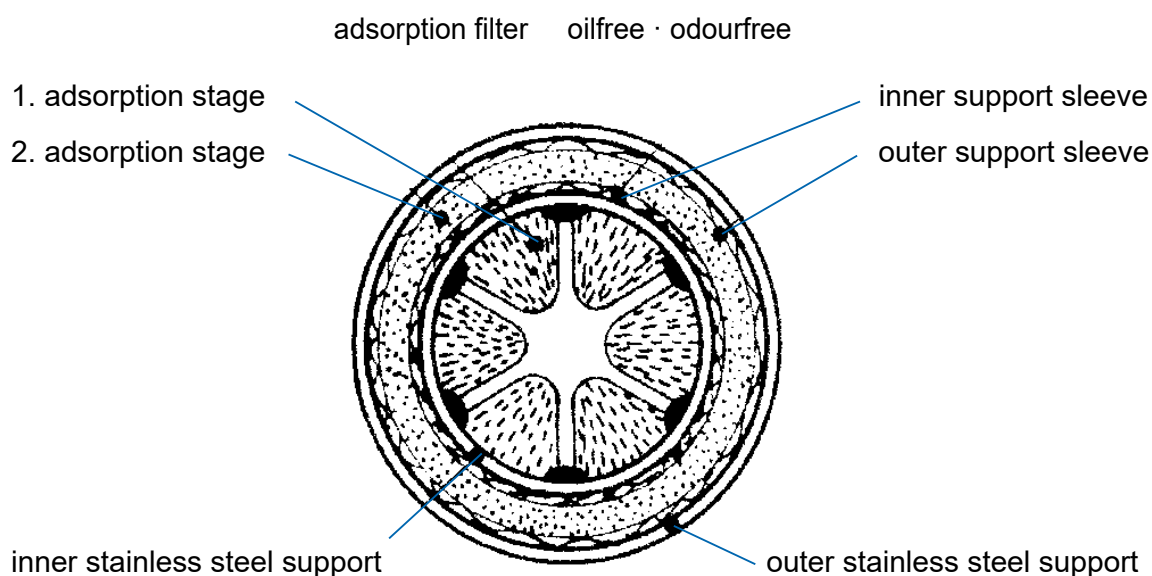


AK

Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.

The AK filter elements consist of a two-stage filtration. All particles are kept in a nanofiber depth filter media, while the activated carbon adsorbs all oil vapors and gaseous hydrocarbons.

Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.



ALTERNATIVE ELEMENTS

Our series of cross over elements makes it possible to use our high quality filters in filter housings from different manufactures. We are mostly using the same pleating mixed with nano technology in all the cross over elements we offer.



Domnick Hunter
Evolution



Domnick Hunter
Oil-X



Hiross



Atlas Copco



Zander



Hankison



Deltech



Walker



Donaldson



Kaeser



Stenhøj

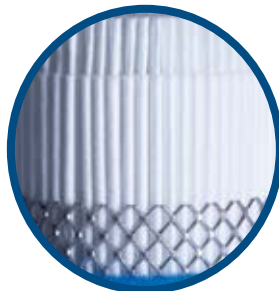


BEKO

BY REQUEST ALSO

Compair
Ceccato
Ingersoll Rand
ALUP
ALMiG
Pneumatech
Chicago Pneumatic
MARK

And many others (see table on next page or contact our customer service.)



**PLEATED MEDIA
TECHNOLOGY**



ALTERNATIVE ELEMENTS

	Prefilter	Prefilter	Microfilter	Submicrofilter	Activated Carbon
ISO Class (8573-2010)	6	3	2	1	1*
Residual oil content	N/A	0,1 mg/m ³	0,01 mg/m ³	0,001 mg/m ³	0,003 mg/m ³
Particle Removal	3,0 µm	1,0 µm	0,01 µm	0,01 µm	N/A
ABAC	AQF	APF, AEF	AHF	-	ACF
ALMIG	AFP	AFM	AFS	-	AFC
ALUP	VA	-	MA, SA	-	AK
Atlas Copco	-	DD, DDP	PD	-	QD
BEA	RM	RB / RF	RA	-	CA
BEKO	X25, X5	X1	XA	-	CA
BOGE (1/5 - 1/400)	V	-	FP	-	A
BOGE (6 - 380)	-	FP	FM	-	FA
Ceccato	FPRO	FMO	FMM	-	FCA
Compair (7 - 300)	-	GPP	OFP	-	OVR
Compair (CE0005 - CE 0051D)	A	E, B	C	-	D
Compair (CE0006N - CE0600N)	-	B, E, F	C	-	D
Deltech	-	PFD	HFD	-	CFD
Domnick Hunter Oil-X	PF	AO, AR	AA, AAR	AX	ACS, AC
Domnick Hunter Evolution	-	AO, AR	AA, AAR	-	ACS
Donaldson	PE	FF	MF, SMF	-	AK
Friulair	P	S	X	-	Z
FST	V	ZN	XN	XXN	A
Hankison	E9	E6, E7	E5	E3	E1
Hiross	Q	P	S	-	C
Ingersoll Rand (E4 - E300)	-	AO, AR	AA	-	AC
Ingersoll Rand (E005 - 0372)	-	AO, AR	AA	-	AC
Ingersoll Rand (IR-* - 25 - IR-* - 1775)	-	D,P	H	-	C
Kaeser	B	C,D	E	F	G
KSI	FF5, VF25	MFO	SMA	-	CA
MARK	FPRO	FMO, FPRE	FMM	-	FCA
Mikropor	P	X	Y	-	A
MTA	P	M	S	-	A
Omega	AFF	R,M	S	-	A
OMI	QF	PF	HF	-	CF
Walker	X5	X1	XA	-	AC
Wilkerson	FRP	MSP	MTP	-	MXP
Worthington	X5	D	M,S	-	A
Zander (1030 - 5075)	V	Y, Z, ZP	X, XP	XP4	A
Zander (CP1008 - CP5080)	VL	ZL	XL	-	A

ACTIVATED CARBON TOWER

UFCT



Technical Data

 4 to 16 bar

 Max. 50°C

 50 - 9500 m³/h

Features & Benefits

Operating lifetime: 8000 hours

Residual oil content: < 0,003 ppm

Filter available on request

Optional: Oil test indicator

The activated carbon adsorber is designed to ensure oil- and odour free compressed air.

Compressed air is lead through an activated carbon bed and ensures a residual oil content of < 0,003 ppm.

The residual oil content depends on the inlet conditions. A residual oil content of < 0,003 ppm is related to an operating pressure of 7 bar (g), 35°C inlet temperature, and pre-dried compressed air with a dewpoint of -40°C, as well as a prefiltration of particles < 0,03 mg/m3.

Model	Flow m³/h	Connection in/out	Dimensions (mm)		
			Height	Width	Depth
UFCT 002	8,4	¼"	422	276	210
UFCT 004	15,6	¼"	672	276	210
UFCT 007	24,2	¼"	922	276	210
UFCT 010	34,8	¼"	1122	276	210
UFCT 015	56,4	½"	996	406	250
UFCT 020	72	½"	1246	406	250
UFCT 030	108	1"	1036	565	320
UFCT 045	162	1"	1386	565	320
UFCT 0053	190	DN25	1890	335	500
UFCT 0067	240	DN25	2050	335	500
UFCT 0106	380	DN25	1920	450	500
UFCT 0150	540	DN40	2130	450	650
UFCT 0181	650	DN 40	2240	450	650
UFCT 0236	850	DN 40	2000	580	650
UFCT 0292	1050	DN 50	2290	580	670

For larger models download datasheet from our homepage or request

Correction factor (flow x K1 x K2 = recommended flow rate):

Operating pressure	bar	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,63	0,75	0,88	1,00	1,10	1,20	1,35	1,44	1,50	1,60	1,75	1,86	2,00

Inlet temperature	°C	35
Correction factor	K2	1



MEASURING INSTRUMENTS

Ultrafilter has a wide range of measuring equipment for compressed air. The range includes dew point sensors, flow sensors, leakage detectors as well as oil vapour sensors and laser particle counters.

Dew Point Sensors



S 211/215/220
-100°C to +50°C



S 305
-50°C to +20°C

Air Analyzer



S 600 Air Purity
Analyzer

Flow Sensors



UF400
Insertion Type



UF420
Inline Type

Flow Meters



S415 Thermal
Mass Flow Meter



S462 Ultrasonic
Flow Meter

We chose measuring equipment specifically on customer request to ensure that they live up to the demands of each customer.

OIL / WATER SEPARATOR

Ultra-Sep



Technical Data

 ABS or PE

 LGA 5361301-01

Features & Benefits

Up to 12 m³/min compressor capacity

3-stage filtersystem

Compact design

The production of compressed air always generates condensate water too. The amount of condensate depends of the size and the number of operating hours of the compressor and can easily range from 10 to 10.000-liter condensate per month. Such condensate water from oil-lubricated compressors may contain up to 2.000 mg oil per liter.

Environmental protection legislation already requires, or will soon require condensate water to be cleaned from oil before it is discharged into the public sewage system. In countries with such legislation for Water Resources Conservation, the limit-value is set at 20 mg oil per liter of condensate water.

If the condensate is not discharged oil-free, it must be collected and treated by an approved waste oil treatment company.

The Ultra-Sep removes the oil from condensate water on efficiently and reliably - by calming the water and utilizing a series of coalescence- and activated carbon filters.

The condensate water is now so clean, that it can be discharged into the public sewage system. The oil is being collected in an oil-container and can be handled and disposed separately and safely.

Model	Compressor capacity		Connection	
	m ³ /min	kW	In	Out
Ultra-Sep 1	1,8	13,0	½" x3	1"
Ultra-Sep 2	2,5	15,0	½" x3	1"
Ultra-Sep 3	3,5	22,0	½" x3	1"
Ultra-Sep 6	6,0	37,0	½" x4	1"
Ultra-Sep 8	10,0	65,0	½" x4	1"
Ultra-Sep 10	12,0	75,0	½" x4	1"



ACTIVATED CARBON BAGS

Ultrafilter offers a complete range of oil/water separator maintenance kits for competitor oil/water separators.



Producer	Suitable for			
BEKO (BOGE)	Atlas Copco	Kaeser	Ecoair	Schneider
Öwamat 1/2	OSW 5/11	Aquamat 1/2	-	Owatec 10/40
Öwamat 3	-	Aquamat 3	TS 3	-
Öwamat 4	OSW 30	Aquamat 4	TS 4	Owatec 130
Öwamat 5	-	Aquamat 5	TS 15	-
Öwamat 5R	OSW 55	Aquamat 5R	-	Owatec 175
Öwamat 6	OSW 110	Aquamat 6	TS 16	Owatec 250
Öwamat 8	OSW 315	Aquamat 8	-	-
Öwamat 10	-	-	-	-
Öwamat 11	-	-	-	-
Öwamat 20	-	Aquamat 20	TS 60	-

Producer		Suitable for			
Wortmann	Zander	Wortmann/ Kaeser	Hankison		Zander
Drukumat 1/MINI	Ekolog 1/Mini		HS1	HS 60, 70, 120	Ecosep S1/MINI
Drukumat 2	Ekolog 2	WOI-II	HS2	HS 140-480	Ecosep S2
Drukumat 4	Ekolog 4	WOI-II	HS3	HS 140-900	Ecosep S4
Drukumat 8	Ekolog 8	WOI-II	HS4	HS 140-900	Ecosep S8
Drukumat 15	Ekolog 15	WOI-II*	HS5*	HS 140-900*	Ecosep S15
Drukumat 30	Ekolog 30	WOIII	HS6	HS 1800	Ecosep S30
Drukumat 61	Ekolog 61	WOIV	HS7	HS 3600	Ecosep S61

REFRIGERATION DRYER 50Hz

Dryer DE-X



Technical Data

-  Standard: 16 barg
-  Ambient temp.: 5-50°C
Air Inlet temp. (003-090): 25-70°C
Air Inlet temp. (120-140): 25-65°C
-  21 - 840 m³/h (dewpoint 3°C)
-  Dewpoint: 3-7°C
-  230/1/50
- Refrigerant fluids:
003-090: R513A
120-140: R410A

DE-X is a direct expansion refrigeration dryer applying hot gas by-pass valve technology, with 21-840 m³/h air flows and spanning 17 models.

Features:

- Market leading pressure drops.
- Environmentally friendly refrigerant R513A on DE-X 003-090.
- Reliable operation in all conditions, with air inlets up to 70°C (65°C on DE-X 120-140), ambient temperatures up to 50°C and maximum pressure 16 barg.
- Premium quality components and field-proven technical solutions.
- Low load function for increased peace of mind and energy savings.

Model	Flow m³/h	Connection in/out	width	depth	height	kg
DE-XG 003	21	½"	390	407	400	21
DE-XG 005	30	½"	390	407	400	21
DE-XG 007	39	½"	390	407	400	21
DE-XG 010	57	½"	390	407	400	23
DE-XG 012	72	½"	390	407	400	24
DE-XG 015	90	¾"	380	497	661	36
DE-XG 018	108	¾"	380	497	661	41
DE-XG 022	132	¾"	380	497	661	42
DE-XG 027	162	1"	380	497	661	45
DE-XG 032	192	1"	720	536	856	54
DE-XG 040	241	1"	720	518	856	56
DE-XG 045	270	1"	720	518	856	68
DE-XG 060	361	1 ½"	720	518	856	71
DE-XG 070	420	1 ½"	720	518	856	75
DE-XG 090	541	1 ½"	885	703	1086	110
DE-XK 120	720	2"	885	710	1086	115
DE-XK 140	840	2"	885	710	1086	115



REFRIGERATION DRYER 60Hz

UDI-60Hz

Technical Data

 Standard: 16 bar

 Max. Ambient: 50°C
Max. Inlet: 70°C

 25 - 552 m³/h

 Dewpoint: 3-9°C

 115/1/60 or 230/1/60

Refrigerant fluids: R134a or R410A



Some industries and countries use higher frequency power as their standard – 60 Hz instead of the European standard, 50 Hz. Some equipment can function on either frequency, and a range of voltage, however for most critical industrial machinery, a set frequency and voltage on the equipment are required to guarantee the stability of the production with the equipment.

Such industries count many marine and off-shore installations, and projects in or from North America, and we have a complete range of refrigeration dryers for 60 Hz installations.

These refrigeration dryers come with the usual benefits of our normal range of refrigeration dryers.

Model	Flow m³/h	Connection in/out	Power V/ph/Hz
UDI-60Hz 0015	25	½"	115/1/60
UDI-60Hz 0025	42	½"	115/1/60
UDI-60Hz 0050	85	½"	115/1/60
UDI-60Hz 0075	127	1"	115/1/60
UDI-60Hz 0100	170	1"	115/1/60 or 230/1/60
UDI-60Hz 0125	212	1"	115/1/60
UDI-60Hz 0160	270	1"	115/1/60
UDI-60Hz 0250	425	1"	230/1/60
UDI-60Hz 0325	552	1"	230/1/60

Based on specific operation conditions. For accurate dimensioning see our guide page 90.

HIGH PRESSURE REFRIGERATION DRYER

UDI-HP



Technical Data

-  Standard: 50 bar
 -  Max. Ambient: 45°C
Max. Inlet: 70°C
 -  87 - 7133 m³/h
 -  Dewpoint: 3-9°C
 -  230/1/50 or 400/3/50
- Refrigerant fluids: R134a or R407C

UDI-HP has been specifically designed for the needs of the high pressure dryer User, offering working pressures of up to 50 barg. The extremely reliable design concept ensures that UDI-HP operates perfectly at all times and in all conditions. UD-HP automatically adopts its operation to the air flow and ambient conditions, offering energy savings of up to 80% compared with traditional dryers. UDI-HP forms part of a complete range of Ultrafilter products for higher pressures, ensuring all User needs are perfectly satisfied.

Model	Flow m³/h	Connection in/out	Nominal absorbed power (kW)
UDI0087HP	87	½"	0,21
UDI0237HP	237	½"	0,46
UDI0354HP	354	½"	0,53
UDI0466HP	466	1"	0,82
UDI0598HP	598	1"	0,84
UDI1006HP	1006	1"	1,10
UDI1422HP	1422	1½"	1,89
UDI1575HP	1575	1½"	2,34
UDI1951HP	1951	1½"	3,09
UDI2682HP	2682	1½"	4,29
UDI4013HP	4013	2"	4,44
UDI4409HP	4409	2"	5,39
UDI6037HP	6037	2"	8,72
UDI7133HP	7133	3"	10,42

Based on specific operation conditions. For accurate dimensioning see our guide page 90.



MEMBRANE DRYER

MEMDRYER

Technical Data

- Max. 12,5 barg
- Max. 60°C
- 1 - 180 m³/h
- Reduces dewpoint: 15-40°C

Membrane dryer are well suited for point of use applications and for small volume flows.

Designed with ease-of-installation and operation in mind, the inlet and outlet are provided as easy-to-install BSP thread connections.

The compressed air flows through a bundle of hollow fibers. As the humid compressed air flows down the bore of the fiber, water vapor diffuses through the walls of the fibers.

At the outlet of the unit, a small volume of the dry compressed air is expanded and released into the space surrounding the outside of the fibers. The dry air sweeps the moisture away from the outside of the fibers and exhausts to the atmosphere as a humid air stream.

Each membrane dryer is equipped with a calibrated purge air blend. No further adjustments are necessary.

The membrane dryer doesn't release any fibers and is suitable for medical air applications.

Our membrane dryers are extremely efficient due to their new, improved hollow fiber technology. Even with low pressure dewpoints, only a relatively small purge air requirement is necessary.

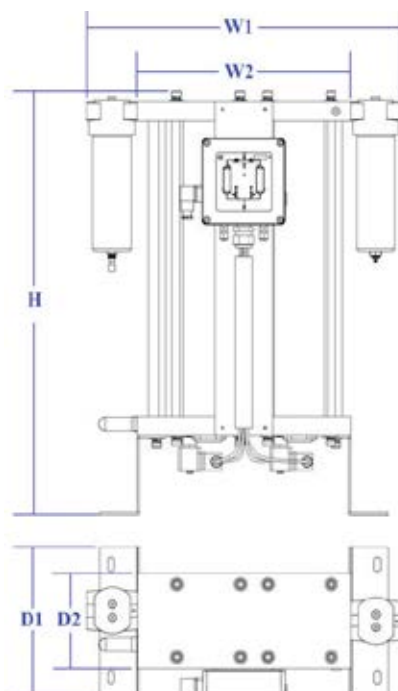


Model	Purge air (m³/h)	Connection in/out	Flow @ 15°C DP (m³/h)		Flow @ 3°C DP (m³/h)		Flow @ -20°C DP (m³/h)		Flow @ -40°C DP (m³/h)	
			In	Out	In	Out	In	Out	In	Out
0003	0,3	¼"	3,0	2,7	2,2	1,9	1,4	1,1	1,0	0,7
0006	0,6	¼"	6,0	5,4	4,3	3,7	2,8	2,2	2,0	1,4
0009	0,96	¼"	9,0	8,04	6,4	5,44	4,3	3,34	3,1	2,14
0012	1,14	¼"	12,0	10,86	8,5	7,36	5,7	4,56	4,1	2,96
0018	1,74	½"	18,0	16,26	12,8	11,06	8,5	6,76	6,2	4,46
0024	2,28	½"	24,0	21,72	17,1	14,82	11,3	9,02	8,2	5,92
0036	3,42	½"	36,0	32,58	25,6	22,18	17,1	13,68	12,4	8,98
0048	4,56	½"	48,0	43,44	34,1	29,54	22,7	18,14	16,4	11,84
0064	6,18	½"	64,0	57,82	44,8	38,62	29,8	23,62	21,6	15,42
0090	9	½"	90,0	81	67,2	58,2	43,8	34,8	31,5	22,5
0125	12,5	½"	125,0	112,5	91,8	79,3	58,8	46,3	42,6	30,1
0180	18	1"	180,0	162	128,1	110,1	85,5	67,5	61,5	43,5

Based on specific operation conditions. For accurate dimensioning see our guide page 91.

COMPACT ADSORPTION DRYER

Ultra-Dry Compact UDD



Technical Data

- 4-10 bar
- Max. 50°C
- 7 - 162 m³/h
- Dewpoint: -40°C

Features & Benefits

- Including pre- and afterfilter (MF)
- Easy maintenance
- Compact design

The UDD series of compact desiccant air dryers offers users the air quality at the point where it is needed. Utilizing a reliable technology, the UDD dryers provide the security to run the process without interruption and to have safe and reliable operations of downstream machines and air tools.

This series comes with installed pre- and afterfilter, desiccant fill and a reliable PCB controller with indication lights to monitor the operation. The PCB controller is ready build in and only has to be connected to an electrical power source and compressed air inlet/outlet. Optionally available is a dryer run/stop dry contact as well as a load control system for energy savings.

This series of compact desiccant air dryers will meet the requirements of ISO 8573.1 Class 1.2.1 as a standard. Higher quality classes based on request are available.

Model	Flow m³/h	Connection in/out	Dimensions (mm)					Filter Element Size	Weight
			H	W1	W2	D1	D2		
UDD 002	8,2	¼"	420	435	245	226	106	02/05	14
UDD 004	15,5	¼"	670	435	245	226	106	02/05	18
UDD 007	25,4	⅜"	920	435	245	226	106	03/10	24
UDD 010	35,1	⅜"	1120	435	245	226	106	03/10	28
UDD 015	56,3	⅜"	992	565	375	273	160	03/10	51
UDD 020	72,0	½"	1242	565	375	273	160	04/10	51
UDD 030	108	1"	1036	745	495	338	220	05/25	93
UDD 045	162	1"	1386	745	495	338	220	05/25	114

*Technical data may be subject to change

Correction factor (flow x K1 = recommended flow rate):

Correction Factor K1		Operating Pressure (bar g)												
		4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet temp. (C)	35	0,63	0,75	0,88	1	1,13	1,25	1,38	1,5	1,55	1,6	1,65	1,7	1,76
	40	0,55	0,66	0,77	0,88	0,99	1,1	1,21	1,32	1,43	1,54	1,65	1,7	1,76
	45*	0,42	0,5	0,59	0,67	0,76	0,84	0,92	1,01	1,09	1,17	1,26	1,34	1,42
	50**	0,35	0,41	0,48	0,55	0,62	0,69	0,76	0,83	0,9	0,96	1,03	1,1	1,17



COMPACT ADSORPTION DRYER

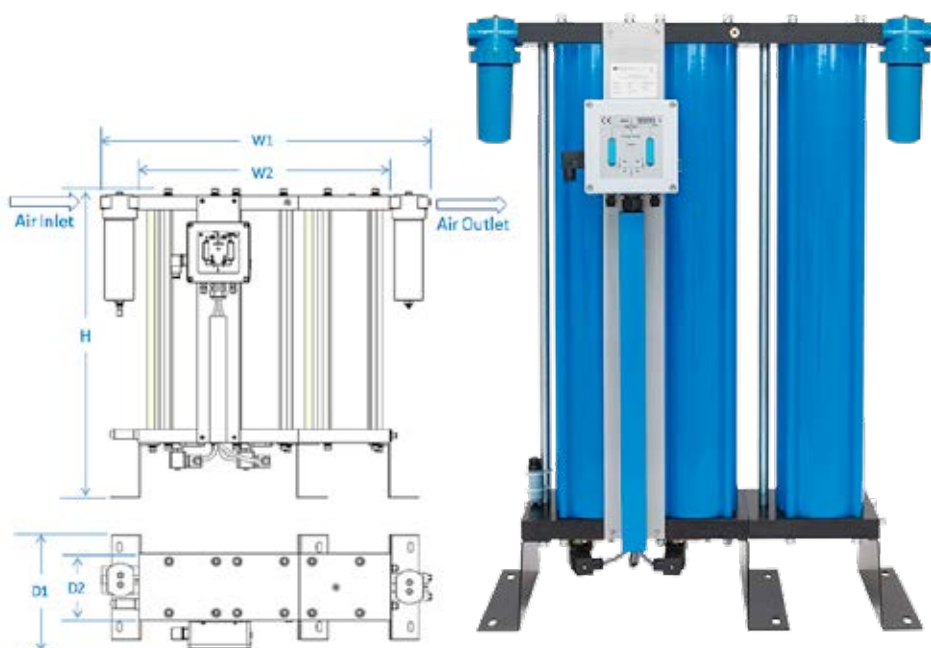
Ultra-Dry Compact UDDA

Technical Data

- 4 - 10 bar
- Max. 50°C
- 7 - 162 m³/h
- Dewpoint: -40°C

Features & Benefits

- Activated Carbon Tower
- Including pre- and afterfilter (MF)
- Easy maintenance
- Compact design
- Suitable for breathing air



The UDDA adsorption dryer is the exact same dryer as our UDD with the addition of an activated carbon tower. This compact unit, consisting of filters, adsorption dryer and activated carbon tower has the capacity to reduce particles, oil and water and ensure high quality compressed air.

This series comes with installed pre- and afterfilter, desiccant fill and a reliable PCB controller with indication lights to monitor the operation. The PCB controller is ready build in and only has to be connected to an electrical power source and compressed air inlet/outlet. Optionally available is a dryer run/stop dry contact as well as a load control system for energy savings.

This series of compact desiccant air dryers will meet the requirements of ISO 8573.1 Class 1.2.1 as a standard. Higher quality classes based on request are available.

Model	Flow m³/h	Connection in/out	Dimensions (mm)					Filter Element Size	Weight
			H	W1	W2	D1	D2		
UDDA 002	8,2	¼"	422	578	388	226	106	02/05	22
UDDA 004	15,5	¼"	672	578	388	226	106	02/05	30
UDDA 007	25,4	⅜"	922	578	388	226	106	03/10	38
UDDA 010	35,1	⅜"	1122	578	388	226	106	03/10	44
UDDA 015	56,3	⅜"	995	780	590	273	160	03/10	77
UDDA 020	72,0	½"	1245	780	590	273	160	04/10	92
UDDA 030	108	1"	1037	1030	780	338	220	05/25	145
UDDA 045	162	1"	1387	1030	780	338	220	05/25	178

*Technical data may be subject to change

Correction factor (flow x K1 = recommended flow rate):

Correction Factor K1		Operating Pressure (bar g)												
		4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet temp. (C)	35	0,63	0,75	0,88	1	1,13	1,25	1,38	1,5	1,55	1,6	1,65	1,7	1,76
	40	0,55	0,66	0,77	0,88	0,99	1,1	1,21	1,32	1,43	1,54	1,65	1,7	1,76
	45*	0,42	0,5	0,59	0,67	0,76	0,84	0,92	1,01	1,09	1,17	1,26	1,34	1,42
	50**	0,35	0,41	0,48	0,55	0,62	0,69	0,76	0,83	0,9	0,96	1,03	1,1	1,17

HEATLESS ADSORPTION DRYER

HeatLess HLD



As a complete system the HeatLess HL adsorption dryer, has a prefilter (with automatic condensate drain), silencers and an integrated dust filter onboard providing maximum efficiency and operational safety.

HeatLess HL adsorption dryer are produced for a wide range of applications and are delivered ready to connect and easy to install. Standard pressure 16 bar - up to 25 bar optional.

Technical Data

-  Standard: 16 bar (25 bar optional)
-  Max. Inlet: 50°C
-  50 - 9500 m³/h
-  Dewpoint: -40°C up to -70°C
-  230V 50Hz (115V 60Hz optional)

Features & Benefits

- Pre- and after filter included
- Galvanized in- and outlet

Model	Flow m³/h	Connection in/out	Dimensions (mm)		
			Width	Depth	Height
HLD0190	190	1"	1300	610	1960
HLD0240	240	1"	1300	610	2120
HLD0380	380	1"	1380	610	2000
HLD0540	540	1½"	1500	610	2220
HLD0650	650	1½"	1500	610	2320
HLD0850	850	1½"	1550	610	2090
HLD1050	1050	2"	1700	790	2370
HLD1400	1400	DN80/3"	1510	740	2150
HLD1700	1700	DN80/3"	1620	760	2180
HLD2050	2050	DN80/3"	1670	790	2220
HLD2400	2400	DN80/3"	1720	860	2270
HLD2800	2800	DN80/3"	1770	920	2340
HLD3200	3200	DN100/4"	2100	930	2380
HLD3700	3799	DN100/4"	2160	970	2400
HLD4200	4200	DN100/4"	2270	1020	2400

Correction factor (flow x K1 = recommended flow rate):

Correction Factor K1		Operating Pressure (bar g)												
		4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet temp. (°C)	35	0,63	0,75	0,88	1	1,13	1,25	1,38	1,5	1,55	1,6	1,65	1,7	1,76
	40	0,55	0,66	0,77	0,88	0,99	1,1	1,21	1,32	1,43	1,54	1,65	1,7	1,76
	45*	0,42	0,5	0,59	0,67	0,76	0,84	0,92	1,01	1,09	1,17	1,26	1,34	1,42
	50**	0,35	0,41	0,48	0,55	0,62	0,69	0,76	0,83	0,9	0,96	1,03	1,1	1,17

Based on specific operation conditions. For accurate dimensioning see our guide page 91.



HEATLESS ADSORPTION DRYER

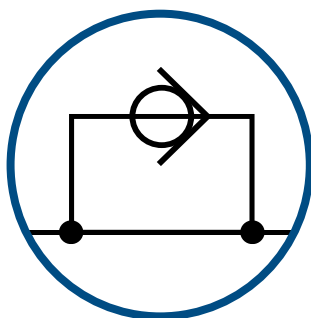
HeatLess HL



DRYER OPTIONS



Dewpoint
Measurer



Bypass



ATEX



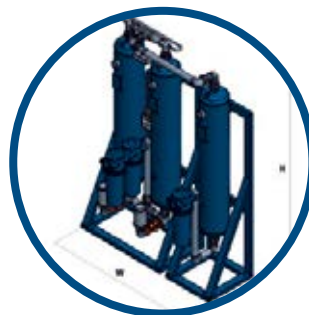
Anti Freezing
Trace Heating



Cabinet
Version



Oil Free
Version



Breathing Air
Version



Siemens PLC

HEAT REGENERATED DRYER

UDDH



Technical Data

- 4-10 bar (25bar option)
- Max. 43°C
- 400 - 9500 m³/h
- Dewpoint: -20°C up to -70°C
- 380 V - 440 V / 50 Hz - 60 Hz
- PED

Features & Benefits

Siemens PLC S7

Zero purge

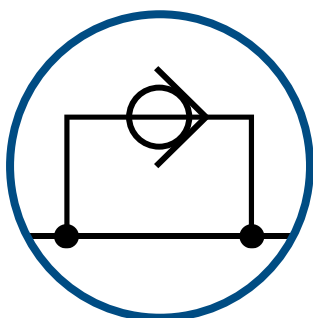
Drying compressed air through adsorption represents a purely physical process in the course of which water vapour is bound to the drying medium (desiccant) through binding forces of molecular adhesion. For adsorption to take place, moist air is directed through the adsorber at various operating pressures.

During this process, the moist compressed air comes into contact with the hydrophilic desiccant molecules when it flows from the bottom to the top of the vessel. The desiccant molecules will retain the moisture which results in dry compressed air leaving the vessel.

DRYER OPTIONS



Dewpoint
Measurer



Bypass



ATEX



SG



Anti Freezing
Trace Heating



HEAT REGENERATED DRYER

UDDH

Model	Volume flow rate *				Dimensions in mm (ca.)			Connection inch	Power kW	Power Supply	Weight kg (ca.)
	l/s	m3/min	m3/h	pressure	D	W	H				
UDDH0800	222	13,33	800	4-10 bar	1099	1368	2160	DN50	6,4	400V/50/3PH	759
UDDH1200	333	20,00	1200		1285	1610	2360	DN80	9,5		1106
UDDH1670	464	27,83	1670		1390	1700	2360	DN80	13,4		1493
UDDH2100	583	35,00	2100		1425	2040	2360	DN80	16,2		1792
UDDH2700	750	45,00	2700		1515	2085	2850	DN80	19,2		2335
UDDH3300	917	55,00	3300		1590	2100	2850	DN80	25,4		2755
UDDH3800	1056	63,33	3800		1600	2390	3100	DN100	29,4		3188
UDDH4200	1167	70,00	4200		1780	2470	3100	DN100	33,0		3600
UDDH4900	1361	81,67	4900		1820	2470	3250	DN150	39,2		4060
UDDH5600	1556	93,33	5600		1875	2580	3250	DN150	42,4		4713
UDDH6150	1708	102,50	6150		1895	2630	3250	DN150	46,5		5370
UDDH7120	1978	118,67	7120		2081	3142	3250	DN150	55,3		5895
UDDH7980	2217	133,00	7980		2230	3180	3250	DN150	61,9		6950
UDDH8600	2389	143,33	8600		2285	3240	3400	DN200	68,1		7250
UDDH10200	2833	170,00	10200		2330	3320	2320	DN200	77,0		8445

*Based on -40°C pressure dew point with inlet conditions of 7 barg and 35°C

Example	
flow rate	3000 m3/h
Pressure	9
inlet temperature	35°
pressure dew point	-40°

Pressure barg	Temperature °C			
	25	30	35	40
4	0,66	0,64	0,62	0,59
5	0,80	0,77	0,75	0,71
6	0,94	0,90	0,87	0,84
7	1,07	1,03	1,00	0,96
8	1,16	1,14	1,11	1,08
9	1,23	1,21	1,18	1,14
10	1,32	1,30	1,27	1,24

*Technical data may be subject to change

COMPRESSED AIR RECEIVER TANKS

Painted, Galvanized, Stainless Steel



Technical Data

 Painted, Galvanized, SS304/316L

 11 or 16 bar (23 and 41 optional)

Available Certificates

SPVD 2009/105/EC

PED 97/23/EC

ASME Sect. VIII Div. 1 / Div. 2

ISO 9001:2008

Dir. 2014/68/EU (CE 003)

AD 2000 Merkblaetter

Our compressed air receivers are designed to store compressed air. The vessels are manufactured in Europe to the highest quality standards. On request we can also deliver vessels designed for any other technical gas.

The vessels are available in three materials: Galvanized, painted and stainless steel. We offer receiver tanks for pressure: 11, 16, 23 or 41 bar.

Finding the right receiver tank, based on airflow

Airflow Capacity	m³/h	170	340	510	680	850	1275	1700	2550	3400
Recommended receiver volume	liters	500	900	1500	1500	2000	3000	4000	6000	8000

Compressed Air												
Liters	5	10	15	24	50	90	100	150	200	250	270	350
Painted 11 bar H	•	•	•	•	•		•	•	•		•	
Painted 11 bar V					•	•	•	•	•		•	
Painted 16 bar H				•			•		•		•	
Painted 16 bar V							•	•			•	
Galvanized 11 bar H					•			•		•		•
Galvanized 11 bar V					•			•		•		•
Galvanized 16 bar H					•	•		•		•		•
Galvanized 16 bar V					•	•		•		•		•
SS304 11 bar V					•		•		•			

H = Horizontal. V = Vertical



COMPRESSED AIR RECEIVER TANKS

Painted, Galvanized, Stainless Steel



RECEIVER ACCESSORIES



Safety Valves



Complete Receiver Kit



Manometer



Vent Filter

Vessel Volumes

	500	720	750	900	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000	10000
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BREATHING AIR FILTER SYSTEM



Technical Data

Users: 1-4 (based on 250 l/min pr. user)

Inlet: $\frac{3}{8}$ "

Outlet: $\frac{1}{4}$ "

Elements: MF 03/10 and AK 03/10

Mounting: Wall brackets or floor stand

Made to the standards of the Danish working environment authority regulation D.5.1 and EN 12021.

Filtered compressor air from a compressor can be used where there is a low oxygen concentration (less than 17% vol.) Or the ambient air is not suitable for breathing air.

Ultrafilter's new breathing air panel with SMF & AK filter (oil and particle filter and carbon filter) is used for filtration of compressed air from the compressor and compressed air dryer. This product is available in two versions: Floor stand or wall mounting, both available for 1 to 4 users.

Ultrafilter compressed air breathing system is made to the standards of the Danish working environment authority (arbejdstilsynet) regulation D.5.1 by July 2000 or EN 12021.

It is a must to have your breathing air quality checked at least one time per year.

OPTIONS FOR BREATHING AIR

Ultrafilter offers air heaters for compressed air and gas filtration with or without integrated temperature measurement. Our product allows a precise temperature control from 20°C to 120°C and are suitable for industrial or breathing air applications.

Additionally, we offer pressure regulators and mounting solutions for floor or wall for our breathing air filters.

For applications where the compressed air isn't dry we have the UDDA. A complete breathing air system with filters, adsorption dryer and activated carbon tower. The UDDA is available in sizes from 1-13 users.



UDDA



Manometer



Floor Mount



Wall Mount

SHOP ONLINE

At our online shop you will find a wide selection of filtration products ready for you to order.

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ABOUT US

Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter group. Our production facility is in Germany and we have several subsidiaries in Europe.

You can buy our products on local websites. Information about our products as well as brochures and manuals can be found on our website (www.ultra-filter.com).

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