ULTRAFILTER
THE FILTRATION MANUFACTURER

THE SCANDINAVIAN FILTRATION PARTNER

LIQUID

GAS

STERILE AIR & STEAM

AIR

ULTRAFILTER COMPACT ADSORPTION DRYER UDDA

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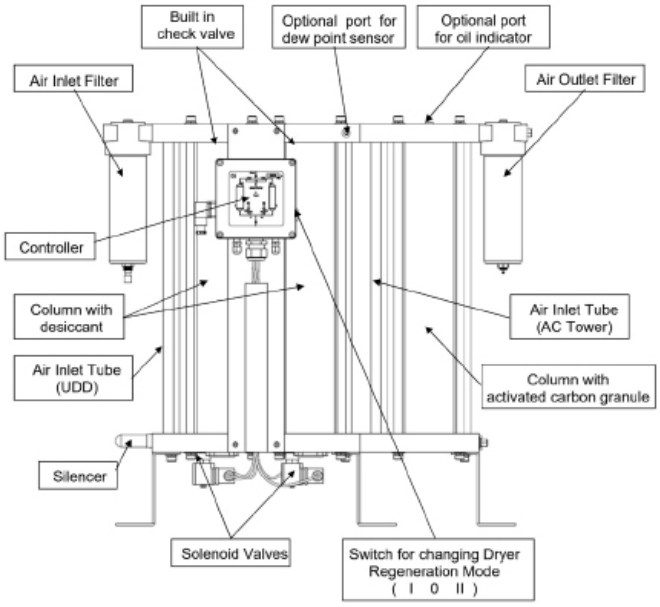
Ultrafilter Compact Adsorption dryer

UDDA



Technical Data

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

Included: pre- and after- MF filters

Compressed air is a commonly used power source. Over the years it became a crucial part of a wide range in industrial processes. However, compressed air after compression is not clean and contains impurities like water, oil, dirt, wear particles and so on. This mixture creates a form of condensate which damages downstream equipment like air tools, pneumatic cylinders and other pneumatic equipments. It also causes high product rejects, high maintenance and costly air leaks in compressed air systems. The use of highly efficient compressed air filters and condensate drains will remove a lot of these impurities and can eliminate most of the problems downstream.

For many applications this is not enough. These applications need an even higher level of compressed air quality. AFE's UDD desiccant dryers will provide this level of air quality at the point where the quality is needed without investing a large amount in centralized purification systems which are often not needed because only certain areas of the production process need that high quality air.

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.

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UDDA

Model	Volume Flow Rate [1]				Dimensions					Conn.	Weight
	l/s	m3/min	m3/h	cfm	H	W1	W2	D1	D2	inch	kg
UDDA 002	2,30	0,14	8,20	4,80	420	366	245	226	106	G ¼"	14
UDDA 004	4,40	0,26	15,50	9,11	670	366	245	226	106	G ¼"	18
UDDA 007	7,05	0,42	25,40	14,95	920	366	245	226	106	G ¼"	24
UDDA 010	9,75	0,58	35,10	20,65	1120	366	245	226	106	G ¼"	28
UDDA 015	15,64	0,94	56,30	33,12	992	550	375	273	160	G ½"	51
UDDA 020	20,00	1,20	72,00	42,35	1242	550	375	273	160	G ½"	51
UDDA 030	30,00	1,80	108,00	63,50	1036	755	495	338	220	G 1"	93
UDDA 045	45,00	2,70	162,00	95,30	1386	755	495	338	220	G 1"	114

[1]. Based on -40 °C pressure dew point with inlet conditions of 7 bar g and 35 °C

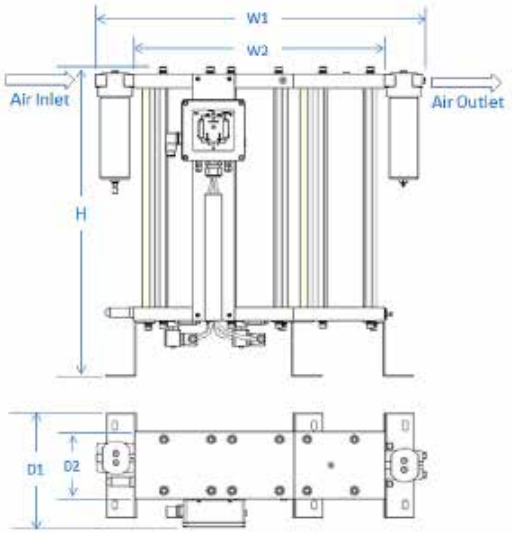
Systems for lower pressure dew points are available upon request.

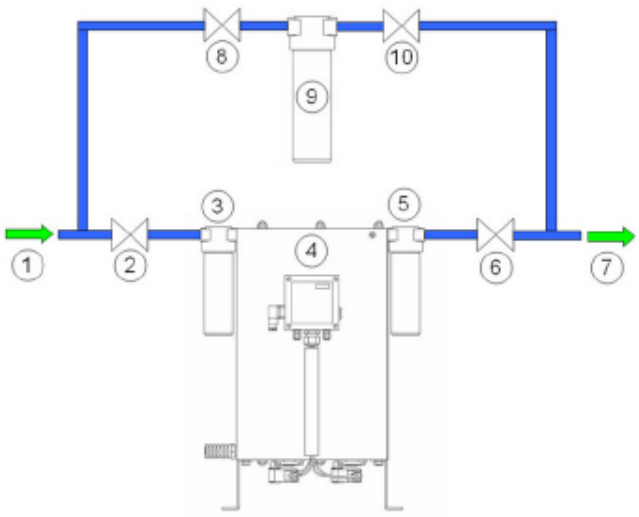
Pressure bar g	Inlet Temperature °C					
	25	30	35	40	45	50
4	0,66	0,64	0,62	0,59	0,55	0,50
5	0,80	0,77	0,75	0,71	0,67	0,63
6	0,94	0,90	0,87	0,84	0,79	0,76
7	1,07	1,03	1,00	0,96	0,92	0,87
8	1,16	1,14	1,11	1,08	1,04	1,00
9	1,23	1,21	1,18	1,14	1,10	1,07
10	1,32	1,30	1,27	1,24	1,20	1,16

Example	
Flow rate	16,9 m3/h
Pressure	6 bar
Inlet temperature	40°
Pressure dew point	-40°

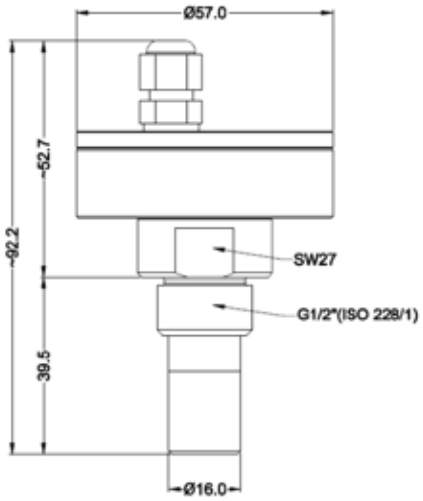
Dryer capacity = 16,9/0,84 = 20,12 m³

Therefore, selected dryer model: UDDA 007



Compressed air system	Item	Component
	1	Inlet (humid air)
	2	Air inlet valve (owner end)
	3	Upstream filter
	4	UDDA
	5	Downstream filter
	6	Air outlet valve (owner end)
	7	Outlet (dry air)
	8	Bypass line valve (optional)
	9	Bypass Filter (optional)
	10	Bypass line valve (optional)

DEW POINT SENSOR LCS 217



Technical Data

- Stainless steel / casing: al alloy
- -0,1...5,0 MPa
- -30° to +70 °C Operating temp.
- G½" thread (ISO 228/1)

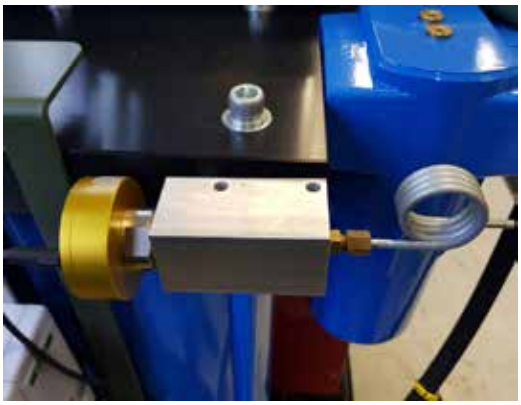
The LCS 217 dew point sensor provides reliable and long term stable dew point monitoring in industrial applications. The newly developed sensor features improved signal and stability in demanding industrial applications.

The sensor is specially designed for heatless dryer application. Common sensors are usually designed to measure dew point's up to -70 degC or better. In order to be accurate this makes the sensor relative expensive.

Technical Information	
Measuring range	-50 ... +20°C
Accuracy	1°C (-50 ... +20°C) / 2°C (remaining range)
Pressure range	12 ... 30 VDC / loop powered
Power supply	12 ... 30 VDC / loop powered
Measured gas	non-corrosive gases
Ambient conditions	-10 ... 50°C
Transport temperature	-30 ... 70°C
Response time t_{90}	<30 sec (descending) / <10 sec (ascending)
Output signal	4 ... 20 mA, 2-wire
Cable gland	supports cable outer diameter from 2,5 ... 4,5mm
Wire sizes	0,14 ... 1,5mm²
Casing	Process connection: stainless steel / casing: al alloy
Classification	IP65
Process connection	G ½" thread (ISO228/1)
Sensor protection	Stainless steel sinter filter pore size <30µm
EMC	According to IEC 61326-1

Features

- small size - ideal for dryer installation
- measure dew points down to -50°C
- 2-wire loop powered sensor
- IP65 casing provides robust protection
- very fast response time
- high accurcy of 1..2°C dew point
- withstand condensation
- wire connection through terminal blocks
- cable gland



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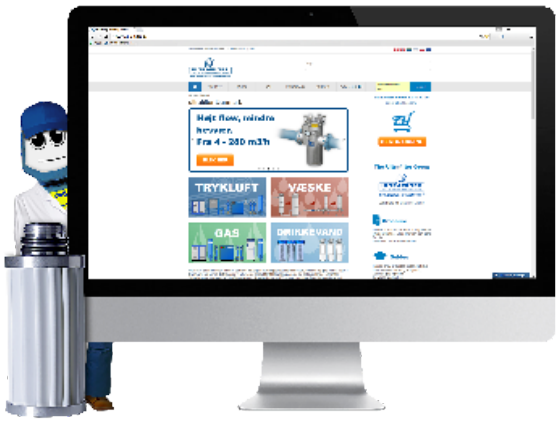
SHOP ONLINE

At www.ultra-filter.com 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 and the United States.

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).

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 also offer on going service on our products once they are installed.

FILTRATION OF

AIR · STERILE AIR & STEAM · GAS · LIQUID

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