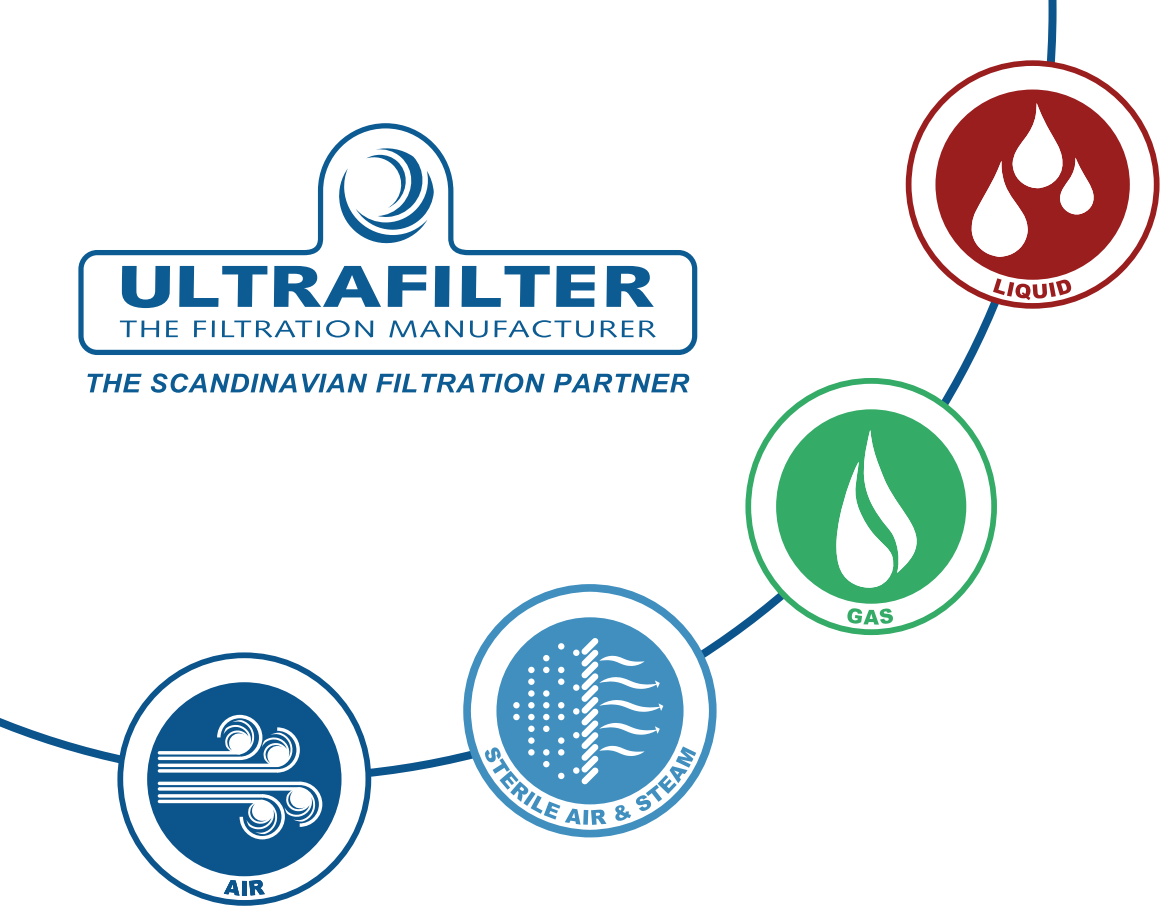
ULTRAFILTER
THE FILTRATION MANUFACTURER

THE SCANDINAVIAN FILTRATION PARTNER



ULTRAFILTER REFRIGERATION DRYER UDI

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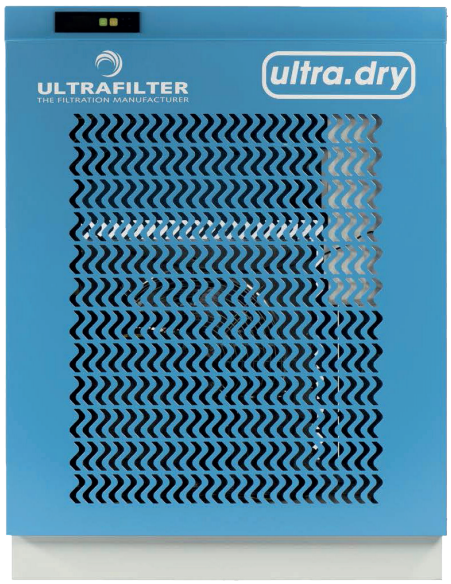
REFRIGERATION DRYER UDI



Technical Data

- Max. working pressure: 16 bar
- Max. Ambient: 50°C (46°C UDI 0990-)
  Max. Inlet: 70°C (65°C UDI 0990-)
- 36 - 2340 m³/h
- Dewpoint: 3-10°C
- 230/1/50hz(UDI 0036-UDI 0990),
  230/1/50-60hz(UDI 0840-UDI 1440),
  400/3/50hz-460/3/60hz(UDI 1440-UDI 2340)

Refrigerant fluids: R134a or R410A

With the introduction of ultra.dry, the new generation of energy-saving refrigeration dryers has arrived.

The new ultra.pulse technology offers important advantages in terms of energy saving, reliability and operating costs as the ultra.dry dryer is able to adapt itself to the real needs of the compressed air system.

The regulation system of the dryer controls the dryer operation granting the most energetically effective method of compressed air drying, achieving high energy saving and ensuring at the same time an excellent dew point stability also in dynamic condition.

High maximum inlet temperature up to +70°C (ultra.dry UDI 0036 - 0840) +65°C (ultra.dry UDI 0990 - 2340) and maximum ambient temperature of +50°C and +46°C respectively, ensure a fail-safe operation at all times. The standard ultra.dry refrigeration dryer has a high operational pressure limit of 16 bar. Some models have both 50hz and 60hz.

Thermal storage operation for low air flows

The refrigerant compressor cycles ON/OFF for maxi-mum savings and reliability. Since the refrigeration ca-pacity is greater than the load, the excess capacity cools the all-in-one exchanger that acts like a thermal storage.

Productivity Savings

Compressed air networks rarely operate at full load. Air compressors typically run at 70-80% of capacity for the first shift operation, further decreasing on second and third shifts because of variable process demands as well as seasonal fluctuations in ambi-ent temperature. Ultra.dry saves energy across the full load spectrum and maximizes the bottom line energy savings.

REFRIGERATION DRYER UDI

Advanced Digital Control

Ultra-Dry features advanced microprocessor control technology, with all models fitted with easy to use digital controls.

A comprehensive digital display keeps the user fully informed. Maintenance operations are simplified, and remote supervision RS485 can easily be supplied.

•The display shows continuously with icon basedmenus the following parameters:

-Status of the dryer (OFF/dry/hdP);
-Status of the compressor;
-Status of condensate drain;
-Energy saving level;
-Alarms.

•33 coded alarms ensuring faultless dryer operation.

•Programmable user alarm.

•Service warning, informing user that preventivemaintenance should be carried out.

•Condensate drain control and programming, including manual drain test function.

•Remote ON/OFF function.

•Potential-free general alarm contact for remotealarm indication.

•Possibility to connect the dryer to a supervisorsystem via RS485 Modbus (option).

REFRIGERATION DRYER UDI

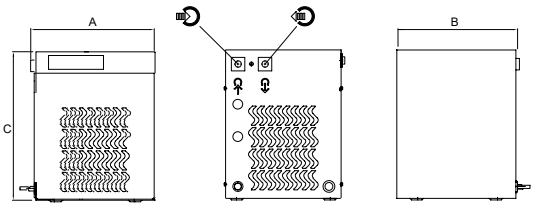
Model	Flow m³/h	Air Connections Rp	Differential Pressure (bar)	Power V/ph/Hz	Nominal adsorption power (kW)	Dimensions (mm)			Weight (kg)
						A	B	C	
UDI 0036	36	⅜”		230/1/50	0,13	310	312	390	18
UDI 0072	72	⅜”		230/1/50	0,22	310	312	390	19
UDI 0096	96	½”		230/1/50	0,22	350	312	414	22
UDI 0126	126	½”		230/1/50	0,35	350	312	414	22
UDI 0168	168	1”		230/1/50	0,42	380	513	625	35
UDI 0264	264	1”		230/1/50	0,60	380	513	625	39
UDI 0360	360	1”		230/1/50	0,91	380	510	860	68
UDI 0420	420	1½”		230/1/50	0,93	680	511	860	75
UDI 0540	540	1½”		230/1/50	0,99	680	511	860	76
UDI 0720	720	1 ½”		230/1/50	1,34	755	555	995	94
UDI 0840	840	2”		230/1/50-60	1,44	883	721	1107	138
UDI 0990	990	2”		230/1/50-60	1,80	883	721	1107	140
UDI 1440	1440	2½”		230/1/50-60	2,55	1170	939	1180	247
UDI 1680	1680	2½”		400/3/50-460/3/60	2,88	1170	939	1180	255
UDI 2040	2040	2½”		400/3/50-460/3/60	3,37	1170	939	1180	252
UDI 2340	2340	2 ½”		400/3/50-460/3/60	3,80	1170	939	1180	276

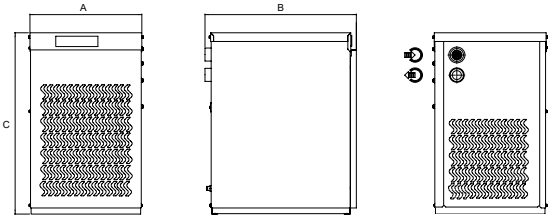
Correction factor:

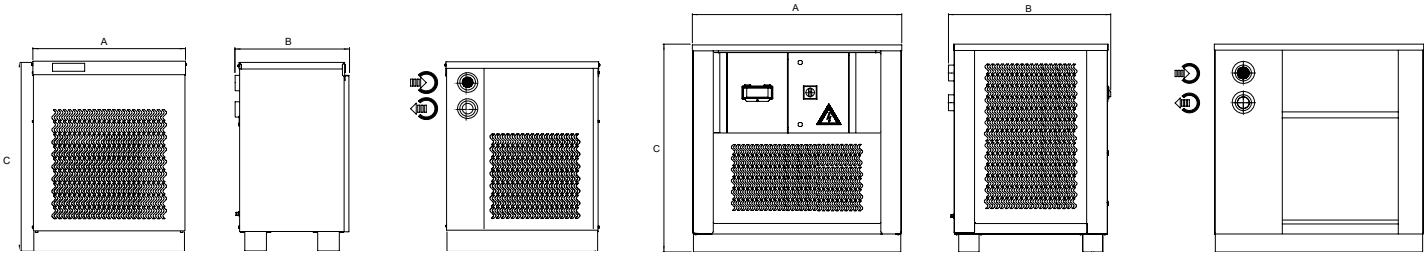
Operating pressure	bar	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,63	0,76	0,86	0,94	1,00	1,05	1,09	1,13	1,18	1,21	1,24	1,26	1,27	1,28

Inlet temperature	°C	30	35	40	45	50	55	60	65	70
Correction factor	K2	1,10	1,00	0,78	0,60	0,45	0,37	0,37	0,37	0,37

Ambient temperature	°C	20	25	30	35	40	45	50
Correction factor	K3	1,07	1,03	1,00	0,96	0,92	0,87	0,83







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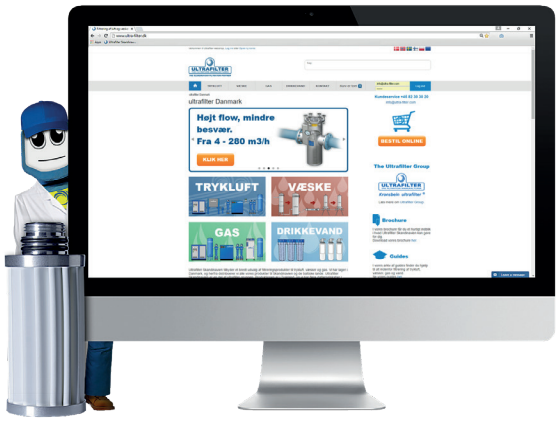
SHOP ONLINE

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

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