

**ULTRAFILTER COMPACT ADSORPTION DRYER**

**WWW.ULTRA-FILTER.COM**

# COMPACT ADSORPTION DRYER

Ultra-Dry UDC



## Technical Data

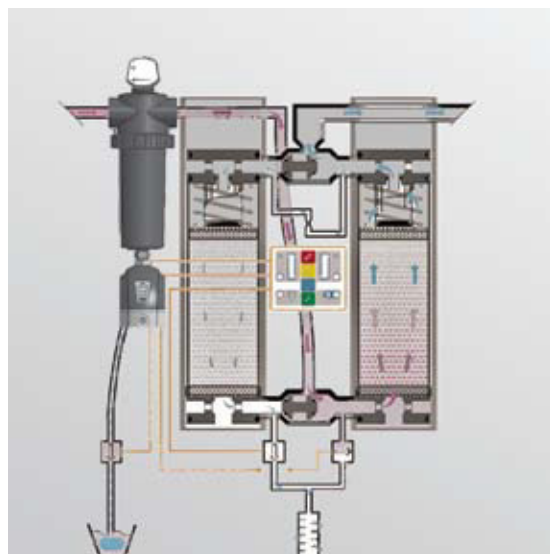
- 4-16 bar
- Max. 50°C
- 7 - 620 m³/h
- Dewpoint: -40°C up to -70°C
- 12-24 VDC, 100-240 VAC

The UDC is our most compact dryer. The integrated prefilter retains particles and oil. Condensate is drained securely and efficiently by an integrated condensate drain.

The subsequent adsorption dryer removes moisture from the compressed air up to a pressure dewpoint of -40°C (optionally -70°C). Regeneration and drying is made in two parallel installed vessels. Dust particles out of the desiccant are retained in the included afterfilter.

## Ultra-Dry compact: The intelligent system solution

- The energy management facility reduces the regeneration air requirement and ensures cost savings
- Diagnostics system: Monitoring of the performance and early recognition of service requirement
- Display window to visualise system function
- Software interface to transfer the service interval to the remote monitoring
- PC interface for remote diagnosis



# COMPACT ADSORPTION DRYER

Ultra-Dry UDC



## Ultra-Dry compact – Quality and reliability

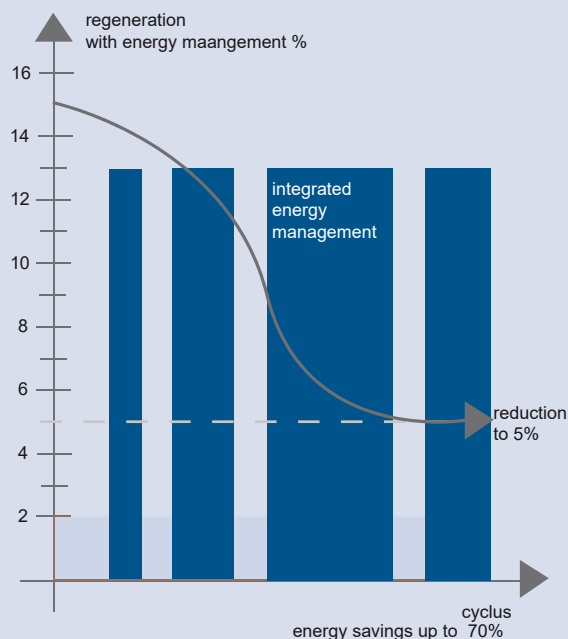
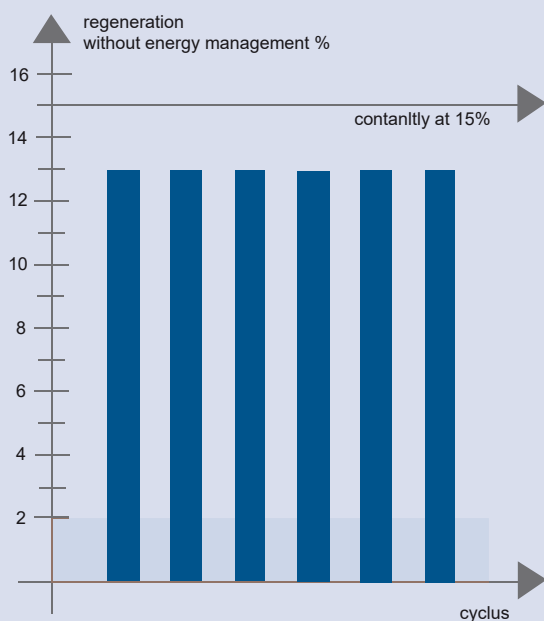
- Complete package with pre and after filter and electronic condensate drain.
- All components ready to connect, easy to install.
- The desiccant is in cartridges, easy to ex-change. Movement of desiccant is eliminated due to spring fixture.
- Function monitoring is controlled by an intelligent processor. Service is displayed.
- Memory function: Operational data is stored if the power supply fails. The drying cycle is finished in operational safe mode after regeneration.
- Extremely compact, space-saving construction. Installation on smallest foot prints.
- Easy installation:

ultra.dry compact is series produced and repared for the widest variety of installation and appli-cations. The multipart distributor enables the compressed air entry to be from left or right. The pre and after filters can be installed either beside, in front of or at the rear of the dryer. Integrated broadband for power supply 100–240 VAC, 12–24 VDC, 50– 60 Hz.



## Desiccant cartridge - The superior solution

It is easy and quick to exchange the desiccant cartridges – without disconnecting compressed air connection. The cartridges are fitted with integrated dust filter. Springs inside the cartridge ensure that the desiccant is fixed in all operati-on cycles.



# COMPACT ADSORPTION DRYER

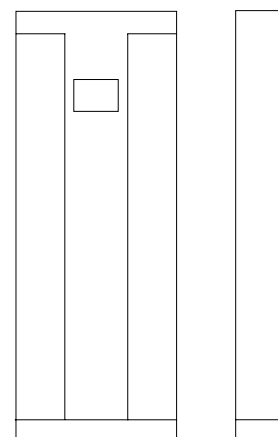
Ultra-Dry UDC



| Model   | Flow<br>m³/h | Connection<br>in/out | Dimensions (mm) |       |       | Prefilter MF<br>Size | Weight |
|---------|--------------|----------------------|-----------------|-------|-------|----------------------|--------|
|         |              |                      | Height          | Width | Depth |                      |        |
| UDC 007 | 7            | 3/8"                 | 445             | 281   | 92    | 03/05                | 13     |
| UDC 010 | 10           | 3/8"                 | 504             | 281   | 92    | 03/05                | 14     |
| UDC 014 | 14           | 3/8"                 | 565             | 281   | 92    | 03/05                | 15     |
| UDC 017 | 17           | 3/8"                 | 635             | 281   | 92    | 03/05                | 16,5   |
| UDC 026 | 26           | 3/8"                 | 815             | 281   | 92    | 03/05                | 19,5   |
| UDC 038 | 38           | 3/8"                 | 1065            | 281   | 92    | 03/05                | 24     |
| UDC 056 | 56           | 3/8"                 | 1460            | 281   | 92    | 03/05                | 31     |
| UDC 076 | 76           | 3/4"                 | 700             | 520   | 164   | 05/20                | 47     |
| UDC 093 | 93           | 3/4"                 | 800             | 520   | 164   | 05/20                | 55     |
| UDC 110 | 110          | 1/2"                 | 900             | 520   | 164   | 05/20                | 61     |
| UDC 144 | 144          | 1"                   | 1100            | 520   | 164   | 05/20                | 64     |
| UDC 178 | 178          | 1"                   | 1410            | 520   | 164   | 05/20                | 69     |
| UDC 229 | 229          | 1 1/4"               | 1610            | 520   | 164   | 07/25                | 81     |
| UDC 297 | 297          | 1 1/4"               | 2010            | 520   | 164   | 07/25                | 87     |
| UDC 365 | 365          | 1 1/2"               | 1410            | 520   | 328   | 07/30                | 96     |
| UDC 467 | 467          | 1 1/2"               | 1610            | 520   | 328   | 07/30                | 108    |
| UDC 620 | 620          | 2"                   | 3010            | 520   | 328   | 10/30                | 122    |

Correction factor:

|                    |     |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Operating pressure | bar | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
| Correction factor  | K1  | 0,62 | 0,75 | 0,87 | 1,00 | 1,12 | 1,25 | 1,37 | 1,50 | 1,62 | 1,75 | 1,87 | 2,00 |
| Inlet temperature  | °C  | 25   | 30   | 35   | 40   | 45   | 50   |      |      |      |      |      |      |
| Correction factor  | K2  | 1,07 | 1,06 | 1,04 | 1,00 | 0,93 | 0,78 |      |      |      |      |      |      |
| Dew Point          | °C  | -40  | -70  |      |      |      |      |      |      |      |      |      |      |
| Correction factor  | K3  | 1,0  | 0,7  |      |      |      |      |      |      |      |      |      |      |





**THE SCANDINAVIAN FILTRATION PARTNER**

## SHOP ONLINE

At [www.ultra-filter.com](http://www.ultra-filter.com) you will find a wide selection of filtration products ready for you to order.



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## ABOUT US

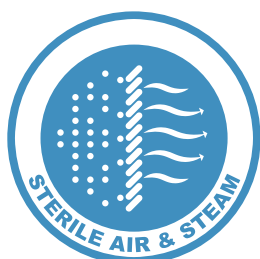
Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

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](http://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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