UDX

Refrigeration Dryers

Nominal air-flow 21 - 2'075 m^3/h

UDX, the fail-safe industrial solution
Quality, performance and reduced carbon footprint

ultrafilter UDX dryers offer accurate dew point control in an easyto-use package with very wide operating parameters and a strong focus on reducing overall global impacts. Unique features and patented technologies ensure the requirements of individual industrial applications are fully catered for.

UDX: designed to perform, always

Optimum operation in all conditions
UDX offers 70°C air inlet (65°C for UDX 0720-2075) and 50°C ambient temperature limits, with a 16barg maximum pressure and automatic continuous adjustment to all operating conditions.

Peace of mind
A robust construction with field-proven technologies, premium quality components, extensive factory testing and easy frontal access offers reliability and ease-of-use.

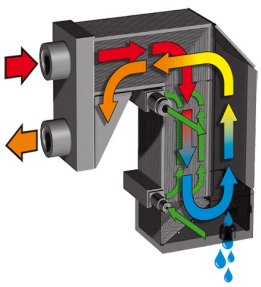
Advanced microprocessor
The multi-icon microprocessor features a digital dew point reading, multiple alarms, maintenance scheduling and extensive remote connectivity. UDX is Industry 4.0 ready.

Low Load Function
LLF automatically cycles operation at zero load, offering stand-by energy savings. LLF furthermore protects against dryer freezing and simplifies seasonal adjustment needs.

Condensate drains
Timed drains, Smart electronic zero-loss drains (UDX 0021-0361) and electronic zero-loss drains with a visual alarm are available. All offer a protective filter, shut-off valve and test button.

Xtraordinary
UDX – the benefits

- **Low pressure drop**
  Market leading pressure drops (average < 0,11 bar)
- **Environmentally friendly**
  Refrigerant R513A on UDX 0021-0541, offering a 70% GWP reduction (GWP = 573)
- **Always operates**
  Air inlet up to 70°C, 50°C ambient limit
- **High reliability**
  Field proven technology, premium components
- **Unique X-MODULE exchanger**
  Patented 3-in-1 heat exchanger
- **Easy to use**
  Intuitive controller, avoids field adjustments, low maintenance



X-MODULE
The innovative patented heat exchanger

- Market leading pressure drops (average < 0,11 bar)
- Compact and robust construction
- Optimum dew point control
- Patented design

GB-UDX-5050UDXY001BA-2022-10-2

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Technical data

Model	Nominal air flow				Overall dimensions (mm)			Nominal absorbed power	Weight	Air connections
	CLASS 4 dew point ≤ 3 °C		CLASS 5 dew point ≤ 7 °C							
	m³/min	m³/h	m³/min	m³/h	A (width)	B (depth)	C (height)	kW	(Kg)	(Rp)
UDX 0021	0,35	21	0,43	26	390	407	400	0,11	21	1/2"
UDX 0030	0,5	30	0,6	37	390	407	400	0,15	21	1/2"
UDX 0039	0,65	39	0,8	48	390	407	400	0,18	21	1/2"
UDX 0057	0,95	57	1,15	69	390	407	400	0,23	23	1/2"
UDX 0072	1,2	72	1,5	88	390	407	400	0,3	24	1/2"
UDX 0090	1,5	90	1,8	108	380	497	661	0,35	36	3/4"
UDX 0108	1,8	108	2,2	131	380	497	661	0,41	41	3/4"
UDX 0132	2,2	132	2,7	161	380	497	661	0,46	42	3/4"
UDX 0162	2,7	162	3,2	195	380	497	661	0,58	45	1"
UDX 0192	3,2	192	3,8	229	720	536	856	0,81	54	1"
UDX 0241	4,0	241	4,8	290	720	536	856	1,01	57	1"
UDX 0270	4,5	270	5,4	325	720	518	856	1,01	68	1"
UDX 0361	6,0	361	7,2	429	720	518	856	1,1	71	1 1/2"
UDX 0420	7,0	420	8,3	498	720	518	856	1,13	75	1 1/2"
UDX 0541	9,0	541	10,6	638	885	703	1086	1,35	110	1 1/2"
UDX 0720	12,0	720	14,2	853	885	710	1086	1,21	115	2"
UDX 0840	14,0	840	16,5	990	885	710	1086	1,67	115	2"

Data refers to the following working conditions: air FAD 20°C / 1bara, pressure 7 bar(g), ambient temperature 25°C, air inlet temperature 35°C, according to ISO 8573-1:2010 standard. Weights are net (without packing and for timed drain configuration).
Refrigerant fluids: R513A (UDX 0021-0541), R410A (UDX 0720-2075). Protection class IP22.
Maximum working pressure: 16 bar(g) (UDX 0021-0840), 14 bar(g) (UDX 1050-2075).
Maximum ambient temperature: 50°C (UDX 0021-1441), 48°C (UDX 1712), 46°C (UDX 2075).
Maximum inlet temperature: 70°C (UDX 0021-0420), 65°C (UDX 0541-2075).
Power supply: 230V ±10% / 1Ph / 50Hz (UDX 0021-0840), 400V ±10% / 3Ph / 50Hz (UDX 1050-2075); other power supplies on request.
A pre-filter (minimum filtration grade FF - 1 µm) is highly recommended to be installed to protect the dryer and improve air quality.
Timed drains are mounted internally; electronic zero-loss drains are mounted internally on UDX 0090-0840, while on UDX 0021-0072 they are packaged separately to be mounted externally using the supplied couplings.

The correction factors in the following table should be used as a guide only; for accurate selection at conditions differing from the above please contact us.
Capacity Correction Factors (indicative values): CAPACITY = RATED VALUE CLASS 4 at 7 bar(g) x K1 x K2 x K3 x K4.

Working pressure	bar (g)	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	K1	0,68	0,79	0,88	0,95	1,00	1,04	1,07	1,10	1,13	1,15	1,17	1,18	1,20	1,21

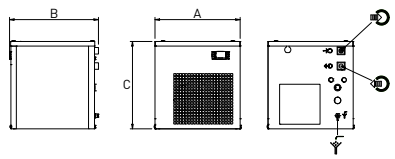
Air inlet temperature	°C	30	35	40	45	50	55	60	65	70
Correction factor	K2	1,19	1,00	0,82	0,66	0,55	0,48	0,48	0,48	0,48

Note: UDX 0720-2075
max air inlet temperature = 65°C.

Pressure dew point	°C	3	4	5	6	7	8	9	10
Correction factor	K3	1,00	1,05	1,10	1,15	1,20	1,25	1,30	1,37

Ambient temperature	°C	20	25	30	35	40	45	50
Correction factor	K4	1,04	1,00	0,95	0,90	0,84	0,78	0,72

UDX 0021 – 0072



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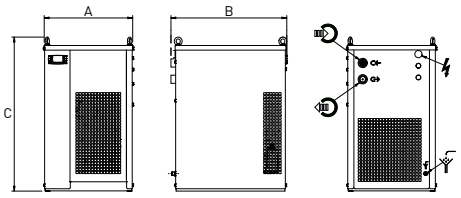

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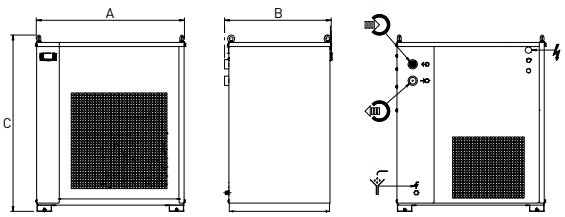

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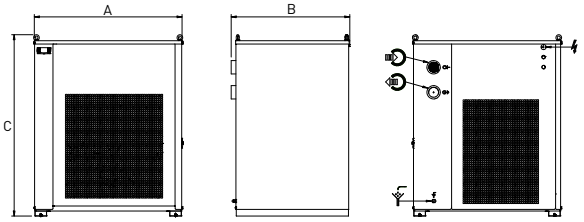
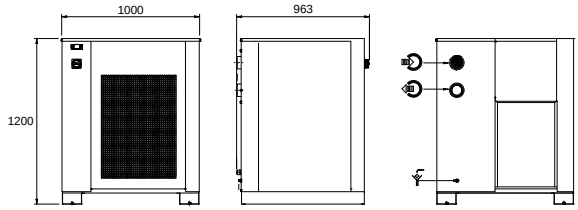


UDX 1050 – 2075



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