

UDT Refrigeration dryer



Specifications

Flowrate, m3/h	20 - 1900 m3/h
Max. Temp. C°:	55°C
Max Pressure:	16 bar
Power supply	1/230/50 / 230/60 or 1/230/50 / 230/60
Connection:	3/4" - 2½" BSP
Dewpoint °C:	3°C

The UDT has a timer-controlled drain. Drying is achieved through a principle of cooling, which takes place inside a highly efficient and ultra-compact 3-stage heat exchanger. In the first stage (air-to-air heat exchanger), the hot and humid incoming air is pre-cooled by the cold outgoing air.

In the second stage (air-to-refrigerant heat exchanger), intensive water condensation occurs due to the cooling of the air. All condensed water is separated from the main compressed air stream in the third stage by the integrated dehumidifier.

A well-tested and robust design ensures efficient and reliable operation, quick installation, and simple maintenance.

Model	Flow m ³ /h	Connections	Dimensions (mm)			Power supply	Weight
			W	L	H		
UDT 20	20	G 3/4" BSP-F	352	485	592	1/230/50*	25
UDT 35	35	G 3/4" BSP-F	352	485	592	1/230/50*	25
UDT 50	50	G 1" BSP-F	352	485	592	1/230/50* / 230-60	26
UDT 75	75	G 1" BSP-F	352	485	592	1/230/50*	27
UDT 100	100	G 1" BSP-F	355	550	592	1/230/50 / 230/60	32
UDT 140	140	G 1" BSP-F	355	550	592	1/230/50 / 230/60	50
UDT 180	180	G 1½" BSP-F	495	558	826	1/230/50*	52
UDT 235	235	G 1½" BSP-F	495	558	826	1/230/50*	56
UDT 300	300	G 1½" BSP-F	495	558	826	1/230/50*	84
UDT 380	380	G 1½" BSP-F	495	558	826	1/230/50 / 230/60	90
UDT 480	480	G 1½" BSP-F	495	558	826	1/230/50 / 230/60	99
UDT 600	600	G 2" BSP-F	491	708	973	1/230/50 / 230/60	110
UDT 750	750	G 2" BSP-F	491	708	973	3/400/50 / 440/60	120
UDT 950	950	G 2" BSP-F	491	708	973	3/400/50 / 440/60	150
UDT 1150	1150	G 2 1/2" BSP-F	662	856	1.534	3/400/50 / 440/60	250
UDT 1300	1300	G 2 1/2" BSP-F	662	856	1.534	3/400/50 / 440/60	280
UDT 1500	1500	G 2 1/2" BSP-F	662	856	1.534	3/400/50 / 440/60	290
UDT 1900	1900	G 2 1/2" BSP-F	662	856	1.534	3/400/50 / 440/60	310

*Nominal conditions: inlet flow 20 °C at 1 bara, ambient 25 °C, dryer inlet 35 °C at 7 barg,

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES

Operating pressure(bar)	4	5	6	7	8	10	12	14	16
Operating pressure (psi)	58	72	87	100	115	145	174	203	232
Correction factor	0,77	0,86	0,93	1	1,05	1,14	1,21	1,27	1,32

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES

Temperature [°C]	≤25	≤30	35	40	45	50	55
Temperature [°F]	77	86	95	104	113	122	131
Correction factor	1,2	1,12	1	0,83	0,69	0,59	0,5

CORRECTION FACTOR FOR DEW POINT CHANGES

Temperature [°C]	3	5	7	10
Temperature [°F]	37,4	41	44,6	50
Correction factor	1	1,099	1,209	1,385

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES

Inlet temperature [°C]	≤25	30	35	40	45
Correction factor	77	86	95	104	113
Correction factor	1	0,96	0,9	0,82	0,72