

167-500
m³/min

5885-17657
cfm

4-10
bar



HIGH CAPACITY TURBO AIR DRYERS



What is Turbo Type Air Dryer?

The new compact design of turbo dryers, which can dry compressed air at high capacities, gathers all the components of the drying system under a single canopy. With DTD Series, compressed air with capacities of 10000 Nm³/h - 30000 Nm³/h can be dried up to 3°C dew point. In addition, thanks to thermal mass technology, it dries the air with low energy consumption even in systems where compressed air consumption is not constant.



Key Features

- 7" Touch Screen (DTD 25000 - 30000), 4.3" Touch Screen (DTD 10000 - 20000)
- Standard MODBUS RS485 Communication
- High strength aluminium heat exchanger
- High efficiency scroll (DTD 10000 - 20000) and screw (25000 - 30000) refrigerant gas compressor
- Constant dew point thanks to thermal mass technology
- Stainless steel thermal mass-cooler evaporator and thermal mass circulation pump
- Speed controlled (EC) fan motor
- Zero-loss evacuation
- 10 barg maximum operating pressure
- Water cooled condenser

Model	Pressure		Capacity		Air Connection	Voltage (V/ph/Hz)	Dimensions (mm)			Cooling Type	Refrigerant Type
	bar	psi	(m³/min)	cfm			Length	Width	Height		
DTD 10000	10	145	167	5885	DN 200	400V / 3ph / 50Hz	1290	3040	2345	Air Cooled	R410a
DTD 12500	10	145	208	7357	DN 200	400V / 3ph / 50Hz	1575	3440	2345	Air Cooled	R410a
DTD 15000	10	145	250	8828	DN 250	400V / 3ph / 50Hz	1575	3440	2460	Air Cooled	R410a
DTD 20000	10	145	333	11771	DN 300	400V / 3ph / 50Hz	1580	3440	2490	Air Cooled	R410a
DTD 25000	10	145	417	14714	DN 300	400V / 3ph / 50Hz	3727	2387	2483	Air Cooled	R407c
DTD 30000	10	145	500	17657	DN 350	400V / 3ph / 50Hz	3727	2387	2483	Air Cooled	R407c
DTD 10000 W	10	145	167	5885	DN 200	400V / 3ph / 50Hz	1360	2340	2465	Water Cooled	R410a
DTD 12500 W	10	145	208	7357	DN 200	400V / 3ph / 50Hz	1575	3440	2345	Water Cooled	R410a
DTD 15000 W	10	145	250	8828	DN 250	400V / 3ph / 50Hz	1575	3440	2460	Water Cooled	R410a
DTD 20000 W	10	145	333	11771	DN 300	400V / 3ph / 50Hz	1580	3440	2485	Water Cooled	R410a
DTD 25000 W	10	145	417	14714	DN 300	400V / 3ph / 50Hz	3292	2067	2481	Water Cooled	R407c
DTD 30000 W	10	145	500	17657	DN 350	400V / 3ph / 50Hz	3292	2067	2511	Water Cooled	R407c

CORRECTION FACTOR FOR DTD SERIES								
Pressure (bar)	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	-	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,76	0,7	-
Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-

Validation Formula: Dryer Capacity = Compressor Air Delivery Capacity / F1 / F2 / F3

Nominal Operating Pressure	7 barg
Max. Operating Pressure	10 barg
Minimum Operating Pressure	4 barg
Nominal Inlet Temperature	35°C
Max. Inlet Temperature	60°C
Minimum Inlet Temperature	5°C
Nominal Ambient Temperature	25°C
Max. Ambient Temperature	50°C
Minimum Ambient Temperature	5°C