

## REFRIGERATED COMPRESSED AIR DRYERS

### EDT SERIES REFRIGERATED AIR DRYERS



operating pressure	<b>up to 16 bar</b>
max. ambient temp.	50 °C
pressure dew point	3°C
flow rate	30 to 1620 m <sup>3</sup> /h
max. inlet air temp.	70 °C

#### DESCRIPTION

The EDT series of energy saving refrigeration dryers offers important advantages in terms of energy saving, reliability and operating costs. 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 conditions.

The EDT series is a synonym for high efficiency heat exchanger, highest energy savings, minimum pressure drops, lowest environmental impact, reduced carbon footprint, easy installation, easy serviceability and maximum reliability.

Type	Air flow		Power supply	Dimensions			Air connections IN/OUT	Power	Mass [kg]
	m <sup>3</sup> /h	cfm		A mm	B [mm]	C [mm]		kW	
EDT 5	30	17	230V /1f / 50Hz	319	298	390	3/8"	0,16	18
EDT 7	42	25	230V /1f / 50Hz	319	298	390	3/8"	0,18	19
EDT 9	54	32	230V /1f / 50Hz	359	298	415	1/2"	0,18	22
EDT 12	72	42	230V /1f / 50Hz	359	298	415	1/2"	0,22	22
EDT 18	108	63	230V /1f / 50Hz	380	514	625	1"	0,38	35
EDT 26	2,6	92	230V /1f / 50Hz	380	514	625	1"	0,49	39
EDT 32	156	113	230V /1f / 50Hz	380	514	625	1"	0,59	42
EDT 40	240	141	230V /1f / 50Hz	680	511	860	1"	0,74	68
EDT 50	300	176	230V /1f / 50Hz	680	511	860	1 1/2"	0,81	75
EDT 60	360	212	230V /1f / 50Hz	680	511	860	1 1/2"	0,84	76
EDT 80	480	282	230V /1f / 50Hz	755	555	995	1 1/2"	1,10	94
EDT 101	600	353	230V /1f / 50Hz	1031	799	1039	2"	1,53	180
EDT 121	720	424	230V /1f / 50Hz	1031	799	1039	2"	1,85	190
EDT 140	840	494	230V /1f / 50Hz	1170	939	1180	2 1/2"	2,21	235
EDT 165	990	583	400V /3f / 50Hz	1170	939	1180	2 1/2"	2,24	246
EDT 190	1140	671	400V /3f / 50Hz	1170	939	1180	2 1/2"	2,55	246
EDT 230	1380	812	400V /3f / 50Hz	1170	939	1180	2 1/2"	2,97	268
EDT 270	1620	953	400V /3f / 50Hz	1170	939	1180	2 1/2"	3,33	272

#### CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES

Operating pressure [bar(g)]	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor K1	0,71	0,82	0,90	0,96	1,00	1,04	1,07	1,09	1,11	1,13	1,15	1,16	1,18	1,19

#### CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES

Temperature [°C]	20	25	30	35	40	45	50
Correction factor K3	1,05	1,00	0,95	0,89	0,84	0,78	0,72

#### CORRECTION FACTOR FOR DEW POINT CHANGES

Temperature [°C]	3	5	7	9
Correction factor K4	1,00	1,12	1,24	1,38

#### CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES

Operat. pressure [bar(g)]	30	35	40	45	50	55	60	65	70
Correction factor K2	1,23	1,00	0,81	0,66	0,57	0,52	0,48	0,44	0,40

Data refers to the following working conditions: air FAD 20 °C / 1bar A, pressure 7 bar(g), ambient temperature 25 °C, air inlet temperature 35 °C, pressure dew point 3 °C, according to ISO 8573.1 standard humidity class 4.

Weights are net (without packing and for timed drain configuration). Refrigerant fluids: R134a (EDT 5-80), R404A (EDT 100-270). Protection class IP22.

Maximum working pressure 16 bar(g); maximum ambient temperature 50 °C; maximum inlet temperature +70 °C (EDT 5-80), +60 °C (EDT 100-270).

The correction factors in the following table should be used as a guide only; for accurate selection at conditions differing from the above the selection software should be utilised.

CAPACITY correction factors (indicative values): CAPACITY = RATED VALUE 7 bar(g) x K1 x K2 x K3 x K4.