

COMPTECH

Compressed Air Dryer



ED SERIES AIR DRYER



ISO9001, ISO14001, ISO18001 Certificate



High-efficiency heat exchanger

- Counter-flow on both air-to-air and air-to-refrigerant sides for efficient heat transfer. As the outgoing air is reheated, it protects the outlet piping against pipe sweating.
- Unlike some other dryer designs, a separate pre-filter is not required. This results in a low pressure drop. The design ensures a smooth air flow which makes the dryer less sensitive to contamination.



Integrated water separator

- Low velocity condensate separator with high separation efficiency even in low flow conditions.
- Reliable and effective condensate evacuation from the separation chamber via the no-loss condensate drain.

Condenser

The condenser using copper fin has a high heat transfer coefficient to increase the degree of super cooling and refrigerating capacity.

Refrigerant compressor

International brand compressors with super high energy efficiencies and excellent reliability which guarantee the preeminent performance of refrigerant dryers.

Electric drain valve

Electric timed drainer is installed with anti-blocking device to prevent any blocking in the drainer.

Technical Data Sheet

Model		ED-10FC	ED-20FC/HF	ED-30FC/HF	ED-50FC/HF	ED-60FC/HF	ED-75FC/HF	ED-100FC/HF	ED-125FC/HF	
Air processing capacity	Nm ³ /min	1.5	2.8	4.0	7.0	9.0	11.0	14.0	18.0	
	SCFM	53	98	140	245	315	385	490	630	
Electricity consumption	Kw	0.62	0.8/0.88	0.97/1.0	1.25/1.4	1.8/2.0	2.2/2.33	2.8/3.1	3.75/3.9	
Nozzle size		PT 3/4"	PT1"	PT1 1/2"	PT1 1/2"	PT2"	PT2"	PT2"	DN50	
Dimension	Length(mm)	720	720/720	720/720	720/800	720/900	720/1100	780/1250	850/1410	
	Width(mm)	500	550/550	600/600	650/650	680/680	680/680	680/680	800/850	
	Height(mm)	741	741/1050	831/1050	921/1120	1001/1250	1051/1250	1151/1350	1251/1540	
Weight	kg	55	70/100	80/110	95/124	105/154	120/180	145/204	162/240	
Power		220V/50HZ,60HZ/1PHASE						380V/50HZ/3PHASES		

Model		ED-150FC/HF	ED-200FC/HF	ED-250FC/HF	ED-300FC/HF	ED-350FC/HF	ED-400FC/HF
Air processing capacity	Nm ³ /min	23.0	28.0	34.0	39.0	45.0	53.0
	SCFM	805	980	1190	1365	1575	1855
Electricity consumption	Kw	4.15/4.68	5.3/5.53	6.1/7.6	9.1/10.5	11.1/11.5	12.5/13.67
Nozzle size		DN65	DN80	DN80	DN100	DN100	DN100
Dimension	Length(mm)	910/1580	1100/1695	1150/1890	1200/2030	1490/2180	1580/2380
	Width(mm)	850/850	900/900	950/950	1000/1000	1050/1100	1100/1300
	Height(mm)	1361/1480	1381/1600	1481/1700	1531/1710	1560/1800	1650/1900
Weight	kg	224/290	254/330	265/410	300/470	474/535	550/570
Power		380V/50HZ/3PHASE					

Dryers maximum air flow = Dryer air flow x K1 x K2 x K3 x K4

Correction Factor								
Ambient temperature °C	28	30	32	35	38	40	42	45
Factory (K1)	1.14	1.1	1.03	1	0.93	0.90	0.86	0.84
Air inlet temperature °C	45	50	55	60	70	80		
Factory (K2) ED-HF	1.2	1	0.87	0.8	0.75	0.68		
Air inlet temperature °C	35	40	45	50	55	60	63	65
Factory (K2) ED-FC	1.45	1.14	1	0.80	0.72	0.56	0.50	0.46
Working pressure Kg/cm ²	4	6	7	8	9	10	13	16
Factory (K3)	0.79	0.94	1	1.05	1.09	1.12	1.12	1.26
Dew point temperature °C	2	3	4	5	6	7	8	10
Factory (K4)	0.98	1	1.02	1.03	1.06	1.07	1.09	1.13

- ED-HF Series Air Inlet Temperature 80 °C (Max.)
- ED-FC Series Air Inlet Temperature 65 °C (Max.)
- Dew Point Temperature 2-10 °C
- Ambient Temperature 10-45 °C
- ED-HF Series Independent After Cooler
- Air In-Out Pressure Drop <3 Psig
- 2 Years Warranty for Evaporator.
- Refrigerant R-22/R-410A (optional)