



Refrigerated dryers

FIMA offers a wide range of energy savings refrigerated dryers, with flow rates ranging from 400 L/min to 30.000 L/min. Although it does not offer as low a dew point as can be obtained with other types, the refrigerant type dryer is the most popular, as the dew point obtained is acceptable in many general industrial plant air applications.



FD 10



FDP 300

Refrigeration dryers 5°C dew point

Compressed Air Treatment







Model DRYER	Flow rate*			Power supply	Connections Ø (IN-OUT)	Pressure drop	Dimensions	Weight
	L/min	CFM	M3/h	V/Hz	Inch		mm	Kg
FD 5	500	17,7	30	230/50	3/4 BSP-F	0,12	305 x 373 x 440	18
FD 7	700	24,7	42	230/50	3/4 BSP-F	0,15	305 x 373 x 440	18
FD 10	1000	35,3	60	230/50	3/4 BSP-F	0,20	305 x 373 x 440	19
FD 15	1500	53	90	230/50	3/4 BSP-F	0,16	345 x 409 x 480	21
FD 20	2000	70,6	120	230/50	3/4 BSP-F	0,20	345 x 409 x 480	24
FD 25	2500	88,3	150	230/50	1 BSP-F	0,16	396 x 462 x 536	27
FD 32	3200	113	192	230/50	1 BSP-F	0,20	396 x 462 x 536	35
FD 40	4000	141,3	240	230/50	1 BSP-F	0,17	396 x 462 x 536	41
FD 55	5500	194,2	330	230/50	1.1/2 BSP-F	0,17	538 x 538 x 684	55
FD 61	6100	215,4	366	230/50	1.1/2 BSP-F	0,17	527 x 627 x 1123	72
FD 73	7333	259	440	230/50	1.1/2 BSP-F	0,15	527 x 627 x 1123	72
FD 93	9333	329,6	560	230/50	1.1/2 BSP-F	0,14	527 x 627 x 1123	78

*At 7 Barg (P)/ 35 °C (T)/ 25 °C (AT)/ 5 °C (D)

Dimension: Length x Depth x Height

Refrigeration dryers 3°C dew point





Compressed Air Treatment

Model DRYER	 Flow rate*			 Power supply	 Connections Ø (IN-OUT)	 Pressure drop	 Dimensions	 Weight
	L/min	CFM	M3/h	V/Hz	Inch		mm	Kg
FDP 4	400	14,1	24	230/50	3/4 BSP-F	0,1	305 x 373 x 440	18
FDP 6	600	21,2	36	230/50	3/4 BSP-F	0,13	305 x 373 x 440	18
FDP 9	900	31,8	54	230/50	3/4 BSP-F	0,18	305 x 373 x 440	19
FDP 13	1300	45,9	78	230/50	3/4 BSP-F	0,14	345 x 409 x 480	21
FDP 18	1767	62,4	106	230/50	1 BSP-F	0,18	345 x 409 x 480	24
FDP 24	2400	84,8	144	230/50	1 BSP-F	0,14	396 x 462 x 536	27
FDP 30	3000	105,9	180	230/50	1 BSP-F	0,18	396 x 462 x 536	35
FDP 36	3600	127,1	216	230/50	1.1/2 BSP-F	0,15	396 x 462 x 536	41
FDP 50	5000	176,6	300	230/50	1.1/2 BSP-F	0,15	538 x 538 x 684	55
FDP 61	6083	214,8	365	230/50	1.1/2 BSP-F	0,15	527 x 627 x 1123	72
FDP 80	8000	282,5	480	230/50	2 BSP-F	0,15	527 x 627 x 1123	78
FDP 110	11000	388,5	660	230/50	2 BSP-F	0,14	675 x 716 x 1548	151
FDP 130	13000	459,1	780	230/50	2 BSP-F	0,18	675 x 716 x 1548	153
FDP 133	13333	470,8	800	400/50	2 BSP-F	0,18	675 x 716 x 1548	175
FDP 167	16667	588,6	1000	400/50	2.1/2 BSP-F	0,14	675 x 716 x 1548	190
FDP 217	21667	765,2	1300	400/50	2.1/2 BSP-F	0,18	675 x 716 x 1548	193
FDP 300	30000	1059,4	1800	400/50	3 BSP-F	0,15	657 x 1156 x 1709	265

*At 7 Barg (P)/ 35 °C (I)/ 25 °C (AT)/ 3 °C (D)

Dimension: Length x Depth x Height

CORRECTION FACTORS

	Operating pressure correction factors (P)	Operating pressure (Bar)	4	5	6	7	8	10	12	14
		Operating pressure (Psi)	58	72	87	100	116	145	174	203
		Correction factor	0,77	0,86	0,93	1,00	1,05	1,14	1,21	1,27
	Operating temperature correction factor (T)	Inlet temperature (°C)	≤30	35	40	45	50	55		
		FD correction factor	1,11	1,00	0,81	0,67	0,55	0,45		
		FDP correction factor	1,12	1,00	0,83	0,69	0,59	0,50		
	Ambient temperature correction factor (AT)	Ambient temperature (°C)	≤25	30	35	40	45			
		FD correction factor	1,00	0,95	0,88	0,72	0,68			
		FDP correction factor	1,00	0,96	0,90	0,82	0,72			
	Dew point correction factor (D)	Temperature (°C)	3	5	7	10				
		FD correction factor	0,91	1,00	1,10	1,26				
		FDP correction factor	1,00	1,09	1,19	1,37				