



FOXY DRYER / FD-SERIES



The FD-series of qip-GmbH represent the next generation of compressed air resin dryers based on the many years approved two-circuit-system. Beside the major advantages that no desiccant is required to generate dry air for the drying process and the very low compressed air consumption due to the two-circuit-technology, the FD-series offer an total round drying hopper made of high-quality stainless-steel without any air inlet pipe. This minimizes the cleaning effort in case of material changes and releases further possibilities for material processing. The heated air is lead into the drying hopper along the outer perimeter and causes an efficient and consistent heat-up process. This allows a further reduction of compressed air and turns the FD-series into one of the most energy-efficient resin dryers in the market.

Benefits:

- * **Compressed air savings up to 85%**
- * **3-years full warranty on parts and workmanship**
- * **Maintenance-free**
- * **Constant drying performance for life time**
- * **Automatic energy control, optimized to actual material throughput**
- * **Low operating costs due to low compressed air consumption**
- * **Space-saving and optimized design for mounting directly on extruder**
- * **Drying hopper and sheet metal parts made of high-quality stainless-steel**
- * **Intuitive and self-explanatory operation through colored touch screen**
- * **Simple to install**
- * **Easy to clean**

TECHNICAL DATA		FD44	FD77	FD120	FD170	FD220
Drying hopper	[liter]	44	77	120	170	220
Power supply	[V / Hz]	1N~230 / 50..60			3N~400 / 50..60	
Installed power	[W]	2000	4000	4000	4000	8000
Compressed air consumption	[Nm³/h]	3.0 to 4.0*	3.0 to 5.5*	3.0 to 9.0*	3.0 to 12.0*	3.0 to 16.0*
Compressed air supply	[bar]	6 to 10				
Compressed air quality		dew point: 3 to 5°C at 7bars / residual oil content: max. 0.1ppm				
Drying temperature	[°C]	20 to 180				
Permitted ambient temperature / humidity		+20 to +60°C / 80% relative humidity (no condensation)				
Height	[mm]	905	1095	1270	1420	1560
Width	[mm]	445	510	560	610	670
Depth	[mm]	590	620	700	750	800
Weight	[kg]	42	52	76	94	125

* The compressed air consumption rises during Boost-Mode and momentarily at drying start by 0.5 to 4 Nm³/h (depending on the dryer type).

DRYING DATA

	Time [h]	Temp. [°C]	Material throughput [kg/h]				
			FD44	FD77	FD120	FD170	FD220
ABS	2	80	14.3	25.0	39.0	55.2	71.5
ASA	3	80	9.5	16.7	26.0	36.8	47.7
CAB	2	75	14.3	25.0	39.0	55.2	71.5
CP	4	75	7.2	12.5	19.5	27.6	35.8
EVA	2	80	14.3	25.0	39.0	55.2	71.5
EVOH	5	120	5.7	10.0	15.6	22.1	28.6
LCP	4	150	7.2	12.5	19.5	27.6	35.8
PA	4	80	7.2	12.5	19.5	27.6	35.8
PBTP	3	140	9.5	16.7	26.0	36.8	47.7
PC	2	120	14.3	25.0	39.0	55.2	71.5
PE	2	85	14.3	25.0	39.0	55.2	71.5
PEEK	3	150	9.5	16.7	26.0	36.8	47.7
PET	4	180	8.8	15.4	24.0	34.0	44.0
PET G	6	75	4.8	8.3	13.0	18.4	23.8
PI	3	120	9.5	16.7	26.0	36.8	47.7
PMMA	3	80	9.5	16.7	26.0	36.8	47.7
POM	3	100	9.5	16.7	26.0	36.8	47.7
PP	3	90	9.5	16.7	26.0	36.8	47.7
PPS	2	150	14.3	25.0	39.0	55.2	71.5
PS	2	80	14.3	25.0	39.0	55.2	71.5
PUR/TPU	3	90	9.5	16.7	26.0	36.8	47.7
SAN	2	80	14.3	25.0	39.0	55.2	71.5
TPE	3	100	9.5	16.7	26.0	36.8	47.7



