

Fiber Dry

Hollow fiber membrane filter type air dryer

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

FDT (1)	100 (2)	- 6 - (3)	A (4)	 (5)
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(1) Type

Code	FDT	DMP	DMM	DMB	DMF	FFT
Type	Filter and Dryer	Dryer (Resin body)	Dryer (Resin case U type)	Dryer (Union straight)	Dryer (Flexible type)	Filter only

(2) Flow rate

Code	040	100	301	500
Flow rate (l/min (ANR))	40	100	300	500

(3) Tube dia. (øD)

Code	mm size (mm)							inch size (inch)*	
	4	6	8	10	12	16	00	1/4	3/8
Tube O.D.	ø4	ø6	ø8	ø10	ø12	ø16	No tube fitting	ø1/4	ø3/8

* Inch size is available only for FFT100.

(4) Drainage method (FDT and FFT only.)

Code	No code	A
Drainage method	Manual Drain (Push type)	Auto Drain (Automatic drain type *)

* When internal pressure in the case is less than 0.05MPa, the auto drain function starts the operation.

(5) Operating flow rate (Outlet Port) (DMM040 only.)

Code	1	2	3
Operating flow rate	16l/min [ANR]	30l/min [ANR]	40l/min [ANR]

Characteristics

■ Connect in your pneumatic system as simple as a filter.

Higher performance than a refrigeration air dryer.

■ Fiber Dry Series produce no drainage.

Removed water is evacuated as a water vapor.

■ No power supply required.

■ Purging flow is adjustable.

When the Purging air flow is too large, it can be adjusted by 3 levels.

* For DMM040, the purging flow needs to be specified in the model code.

Specifications

Fluid medium	Air
Operating pressure range	Inside of hollow fiber membrane : 0.3 to 0.85 MPa Outside of hollow fiber membrane : 0 to 0.05 MPa
Fluid medium temp.	0 to 55°C (No freezing)
Operating temp. range	0 to 55°C (No freezing)

* When fluid medium other than air is used, contact us for details before using.

Basic Performance

Example: DMP100

■ Inlet port Air

Pressure	0.7 MPa
Air flow rate	125 l/min (ANR)
Air temp.	20°C
Water vapor amount	Saturation
Purge rate	20% (Purging circuit: 3)

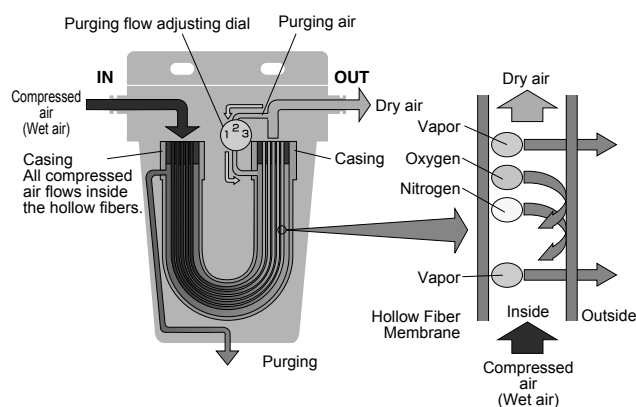


■ Outlet port Air

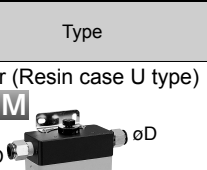
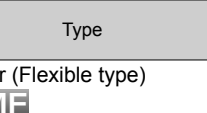
Air flow rate	100 l/min (ANR)
Achieved dew point	-17°C or less (Atmospheric pressure)

Mechanism of Dehumidification

- Only vapor in compressed air flows inside the hollow fiber films is discharged and purged to outside the system by the purging air (A part of dried air).



RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code FDT100-øD-[4]	Type	Model code DMP100-øD	Type	Model code FFT100-øD-[4]
Filter and Dryer FDT	FDT100-4 FDT100-4-A FDT100-6 FDT100-6-A FDT100-8 FDT100-8-A FDT100-10 FDT100-10-A	Dryer (Resin body) DMP	DMP100-4 DMP100-6 DMP100-8 DMP100-10	Filter only FFT	FFT100-4 FFT100-4-A FFT100-6 FFT100-6-A FFT100-8 FFT100-8-A FFT100-10 FFT100-10-A FFT100-1/4 FFT100-1/4-A FFT100-3/8 FFT100-3/8-A
					
Type	Model code DMM040-øD-[5]	Type	Model code DMM100-øD	Type	Model code DMM301-øD
Dryer (Resin case U type) DMM	DMM040-4-[5] DMM040-6-[5]	Dryer (Resin case U type) DMM	DMM100-4 DMM100-6 DMM100-8 DMM100-10 DMM100-00	Dryer (Resin case U type) DMM	DMM301-6 DMM301-8 DMM301-10 DMM301-12 DMM301-16 DMM301-00
					
Type	Model code DMB100-øD	Type	Model code DMB500-øD	Type	Model code DMF040-øD
Dryer (Union straight) DMB	DMB100-4 DMB100-6 DMB100-8 DMB100-10	Dryer (Union straight) DMB	DMB500-12	Dryer (Flexible type) DMF	DMF040-4 DMF040-6 DMF040-8
					



Notes

* For [5] in the end of model code for DMM040, please select a code for an operating flow rate (outlet port).



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag