

DRYING

DFG Series (Honey comb Type)



DFG-50Z-KI

New Corrugated Honeycomb

Even the inside of the honeycomb element is supported by zeolite, producing lower dew point air (-40°C).

The zeolite as a desiccant has high absorption efficiency even in dehumidifying the high temperature air of 100°C and the air of low humidity.

Crystalline zeolite has a microporous structure, reducing heat deterioration and minimizing a decline in dehumidifying efficiency.

Honeycomb structure saves energy and reduces pressure loss.



Secondary Quantify Conveying with Cleaning

Prevents the resin from remaining in the pipeline and from absorbing moisture again

Dry Air Conveying

Dried material is conveyed into a molding machine with dry air, preventing moisture absorption, material temperature drop and entry of foreign matter during conveying.



Options

▶ **Secondary Two-way Conveying**

▶ **Oil Demister**

Suitable for drying oil base plastic resin

▶ **Conveying Blower up**

Suitable for the long distance conveying

▶ **Air Blend Hopper**

Kawata's original "Air Blend Hopper", which is mounted on a molding machine, removes resin powder and foreign matter by air flow after conveying.

Standard Drying Capacity by Type of Resin

Resin	Drying temperature (°C)	Drying time (h)	DFG(DRG) 15ZB-KI	DFG(DRG) 25ZB-KI	DFG(DRG) 50ZB-KI	DFG(DRG) 75ZB-KI	DFG(DRG) 100ZB-KI	DFG(DRG) 150ZB-KI	DFG(DRG) 200ZB-KI	DFG(DRG) 300ZB-KI
ABS	80-90	2-4	5	8	17	25	33	50	66	100
PC-ABS	80-100	3-5	3	6	12	18	25	35	50	70
PMMA	80-90	4-6	3	6	12	18	25	35	50	70
PC	120-130	2-4	5	8	17	25	33	50	60	100
PET	140-160	2-4	5	8	17	25	33	50	66	100
PBT	110-160	2-4	5	8	17	25	33	50	66	100
PA	70-80	4-6	3	6	12	18	25	35	50	70
PA	80-120	3-4	5	8	17	25	33	50	66	100
TPY	50-100	4-6	3	6	12	18	25	35	50	70
PPS	130-180	2-4	5	8	17	25	33	50	66	100
PPO	80-110	2-3	5	8	17	25	33	50	66	100
POM	80-110	3-4	5	8	17	25	33	50	66	100
PET-G	65-70	4-6	3	6	12	18	25	35	50	70

DRYING

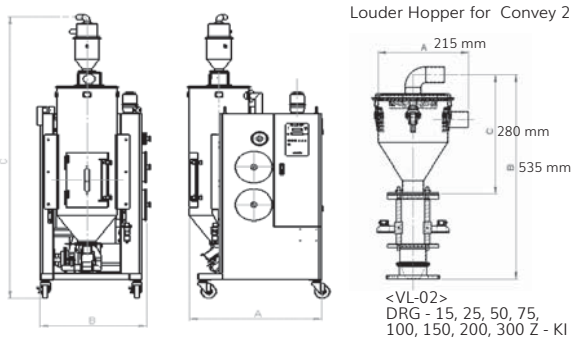
DEHUMIDIFYING DRYER (Honey comb Type)

Specifications

Model		DFG-15Z-KI	DFG-25Z-KI	DFG-50Z-KI	DFG-75Z-KI	DFG-100Z-KI	DFG-150Z-KI	DFG-200Z-KI	DFG-300Z-KI
Air Flow (M3/h)(50/60Hz)		35/45		50/60	80/100		110/120	145/160	220/240
Dew Point (°C)		-40							
Drying Temperature (°C)		65-160							
Drying Blower Capacity (kw)(50/60Hz)		0,17		0,28	0,55		1,3	2,3	3,3
Regeneration Heater Capacity (kw)(50/60Hz)		2,0				2,7		4,0	
Regeneration Blower Capacity (kw)(50/60Hz)		0,09						0,17	
Desican Chamber Motor Capacity (ke)(50/60Hz)		0,025							
Drying Hopper	Effective Capacity (L)	25	42	84	125	167	250	335	500
	Feeding Volume (kg)	15	25	50	75	100	150	200	300
	Material Contac Surface	SUS304							
	(kw) Drying Heater capacity (50/60Hz)	2,0		2,7	4,0		6,0		9,0
	Accessories	Dehumidified air circulation conveying, batch conveying, glass wool insulation							
Convey-1	AL-02 Magnetic Sensor			AL-05 Magnetic Sensor			AL-10 Magnetic Sensor		
Convey-2	VL-02 Photo Sensor				VL-05 Torque Level Sensor		VL-10 Torque Level Sensor		
Conveying Blower Capacity (kw)(50/60Hz)		0,55				1,3			
Power Supply (KVA)(50/60Hz)		5,3	6,2	8,0	8,9	10,3	15,3	19,8	
(L/min) Compressed air requirement		5 (0,4-0,6Mpa) (Piping diameter 6 mm)							
Cooling method		Air Cooled					Water Cooled		
(L/min) Cooling water requirement		No need					15 (0,1-0,3 Mpa at 32 °C) 15 (0,1-0,3 Mpa below 32 °C) (pipe size 16*2)		
Accessories		PVC (38*20M), Suction Pipe (38*650*1), Power Cable 5M, signal cable 5M							
Painting	Frame	Y15-85A							
	Control panel Door	Y59-50D							
Weight (kg)		265	297	335	365	475	485	800	850
Dimensions (A x B x C) mm		864x696x1604	846x696x1844	883x746x2164	966x746x2264	1137x746x2274	1193x746x2496	1452x900x2630	1516x900x2850

*The dew point varies according to ambient air conditions.

Outlines Dimensions



Convey-2 Hopper Specification

Model	VL-02	VL-05	VL-10
A (mm)	215	215	325
B (mm)	535	630	692
C (mm)	280	345	375
Sensor	Photo sensor	Torque level sensor	
Pipe Size (mm)	Ø38		

