

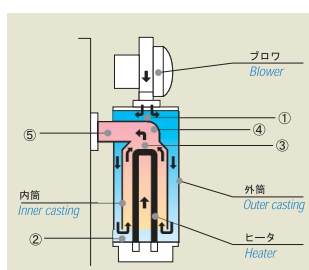
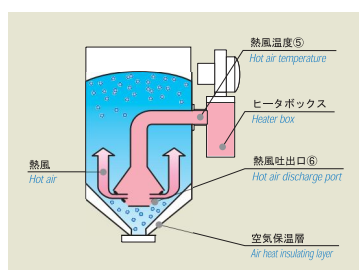
HD2

Hopper Dryer



New Digital Panel

- **Even Material Flow on First-in**
The HDII Hopper Dryer minimizes the material residence time, permitting the material to be discharged uniformly.
- **Energy-saving Design**
The heater box features a new design that offers both heat insulation and heat transfer, using innovative construction in the lower part of the dryer. In this way heat radiation has been substantially reduced, so that efficient utilization of energy is ensured.
- **Light weight and Compact**
A cartridge-type exhaust filter is used which remains free from powder deposition. This filter permits minimum pressure loss and is of lightweight, compact design prohibiting the escape of powder.
- **Evenly Distributed Resin Temperature**
Matsui's high-performance diffuser cone used in the HDII Hopper Dryer permits evenly distributed hot air to penetrate the resin material quickly, thereby maintaining a uniform temperature profile across the material.
- **Resin Temperature Maintained in Close Approximation to the hot Air Set-point**
HDII employs a sheathed heater instead of the conventional Nichimo wire type. The heater box has been newly designed in consideration of the straightening effect, with improved hot air temperature control. Therefore, the difference between the plastic material temperature and dryer temperature is the set-point to be reduced to the minimum.



Winds from the blower are distributed at ①. The distributed winds uniformly flow between the inner and outer castings and enter the inner casting from ② to conduct an efficient heat exchange with the heater. The hot air gathers at ③ and collides against the inner casting upper part ④, mixed or turbulent and the averaged hot air is blown from ⑤.

Standard specifications

Model	Load capacity (Kg.)	Power consumption (kW)		Breaker (Amp.) 50 Hz.		Outside dimensions Width Depth High (mm) x (mm) x (mm)	Weight (Kg)
		Heater (kW)	Blower (kW)	380V/3P	(200V/3P)		
HD2-10S	10 Kg.	1.5	0.03	10	(10)	677 x 439 x 736	30
HD2-15S	15 Kg.	1.5	0.03	10	(10)	677 x 439 x 846	31
HD2-25S	25 Kg.	3.6	0.12	10	(20)	876 x 542 x 1035	50
HD2-50S	50 Kg.	4.0	0.13	10	(20)	876 x 542 x 1251	55
HD2-75S	75 Kg.	5.4	0.13	20	(30)	977 x 582 x 1221	64
HD2-100S	100 Kg.	6.3	0.13	20	(30)	977 x 582 x 1421	73
HD2-150S	150 Kg.	10.8	0.30	32	(30)	1372 x 730 x 1486	150
HD2-200S	200 Kg.	12.4	0.30	32	(40)	1372 x 730 x 1486	160
HD2-250S	250 Kg.	17.1	0.40	40	(63)	1504 x 860 x 1724	245
HD2-300S	300 Kg.	19.8	0.40	40	(80)	1504 x 860 x 1844	260
HD2-400S	400 Kg.	25	0.75	50	(100)	1923 x 1200 x 2535	590

- Load capacity is given for ABS virgin pellets of 0.6 apparent specific gravity.
- Outside dimensions for HD-150S and larger models are those of the system including the exhaust cyclone.
- As the heater turns on and off repeatedly according to drying conditions, actual power consumption of the heater is 50 to 70% smaller than that shown above.
- Allowable working temp. is up to 130° C (160° C is option)