



DAASeries



CHALLENGER III

Dehumidifying Dryer

**New Corrugated
Honeycomb for High-
Efficiency Drying (-40°C
Dew Point)
Capacity of 200kg-800kg**



DA series has evolved to a higher level.

Achieves a high level of dehumidification and drying! !!

Extension of DA Series: New Advanced Dehumidifying Dryer

New Corrugated Honeycomb

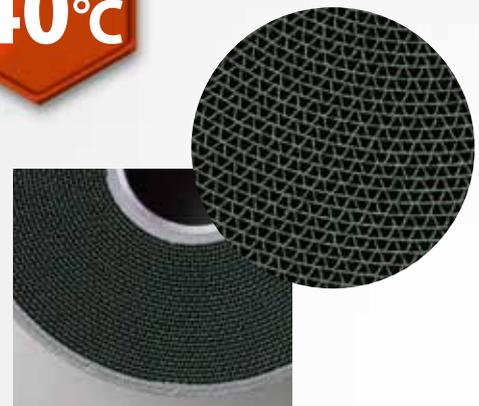


The specific method generates low dew point air of -40°C with zeolite supported on the interior of the honeycomb.

*Standard and H Type (B and U Type: -30°C)

- In contrast to other desiccants, even when the process air temperature is 100°C the dry air is efficiently dehumidified.
- Moisture is effectively removed from the process air in low humidity range. Zeolites used as the desiccant have a crystalline and microporous structure, decreasing deterioration by heat and maintaining dehumidification performance.
- The honeycomb structure has a low pressure loss for energy conservation.

Lower dew point
 -40°C



Zeolite-based honeycomb body

Heat Recycling System for Energy Savings (DAA-200 series)



Drying Hopper with Thermal Insulation as Standard



About 15%
Energy savings
Compared to standard machine.

DA-200U
Average electric power

6.2
kW

Approximate 15%
Lower
Compared to our company

5.3
kW

● The hopper body and core are thermal insulated for energy savings.



*This figure shows when DAA-200U is used singly, not including a drying heater.

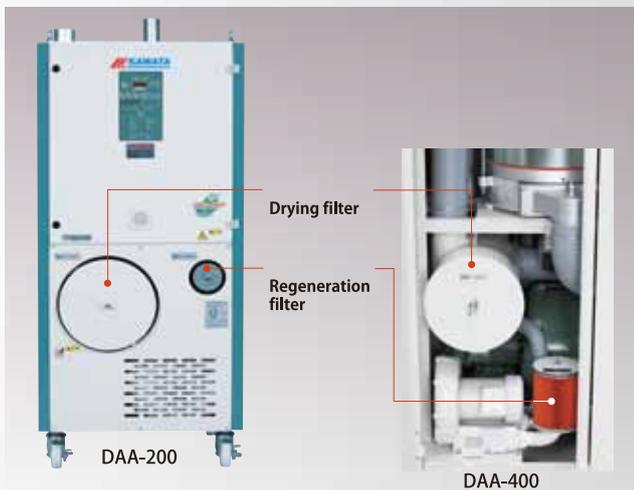
Microprocessor-controlled Panel

- The controller with alarm function is automatically operated by microprocessor. The PID control system ensures high-accuracy drying temperature. The digital displays enable easy verification of set and indicated values. Remote control and timer operation are standard equipment.



Easy Maintenance.

- The wide opening of the front panel makes access to filters and maintenance easy. (DAA-400: with the hinged door)



Simple Cleaning

- Drying hopper
 - Double wide opening of the access door and the one-touch removable diffuser cone (DHA200-400) for easier cleaning inside the hopper
 - Easy material discharge by the collection box (suction of all material)



Collection box (option)

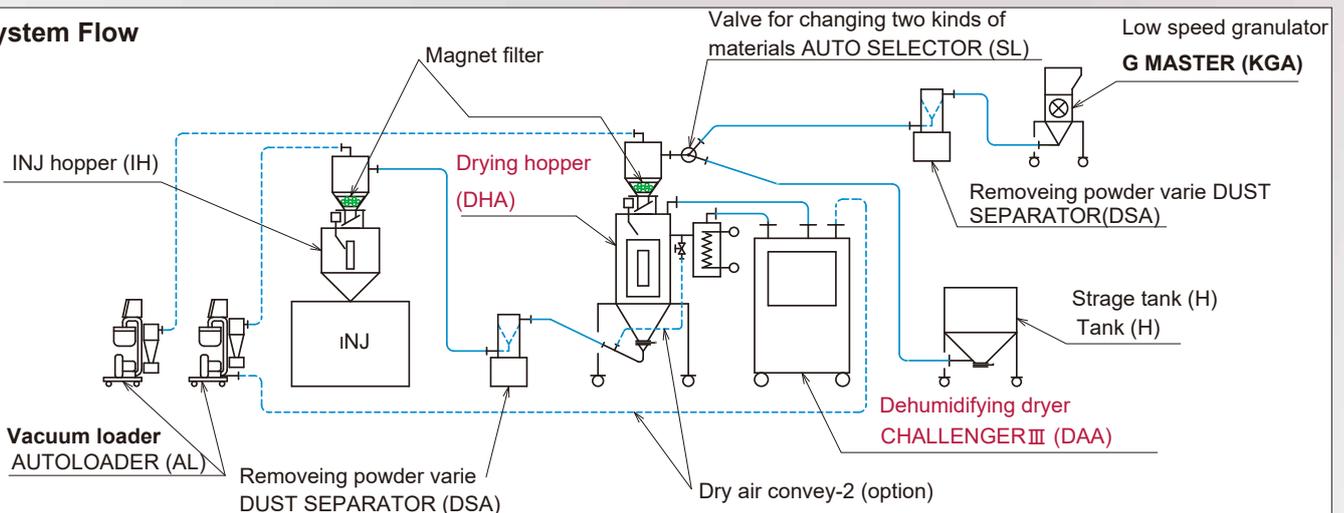


<DHA-200BH~400BH>

Dry Air Conveying (option) <DHA-200BH~400BH>

- Dry air conveying for secondary circuit prevents moisture reabsorption.

System Flow



CHALLENGER III

Model

DAA - 200

(200, 400)

Standard

H TYPE High heat model (High heat model (Drying temperature 70~180°C))

B TYPE Bigger blower model (Increase drying capacity with large air flow (Drying temperature 70~100°C))

U TYPE High heat & Bigger blower model (Increase drying capacity with large air flow (Drying temperature 70~130°C))

Dryer Specifications

Dryer model

Model	DAA-200				DAA-400				
	Standard	H Type	B Type	U Type	Standard	H Type	B Type	U Type	
Air Flow (m ³ /hr) (50/60Hz)	180/200		240/270		330/400		540/600		
Dew Point (°C)	Less than -40		Less than -30		Less than -40		Less than -30		
Drying Temperature (°C)	70~130	70~180	70~100	70~130	70~130	70~180	70~100	70~130	
*Drying Heater (kW) (50/60Hz)	6/7.3	9/10.9	6/7.3	9/10.9	12/14.5	18/21.8	12/14.5	18/21.8	
Regeneration Heater (kW) (50/60Hz)	6/7.3				9/10.9				
Drying Blower (kW) (50/60Hz)	1.3/1.9		2.3/3.4		2.2/2.2		3.7/3.7		
Regeneration Blower (kW) (50/60Hz)	0.17/0.28				0.55/0.85				
Desiccant Chamber Rotation Motor (kW)	0.015				0.015				
Utility	Power Supply	3 Phase AC200V/200, 220V 50/60Hz 3W							
	Power Demand (kVA)	14.6/18.0	17.6/21.6	16.2/20.0	19.2/23.6	25.5/30.5	31.5/37.8	27.3/32.5	33.3/39.8
	Main Breaker (AT)	60	75		100	125	100	125	
	Cooling Water (L/min)	10 (0.1~0.3MPa)				32 (0.1~0.3MPa)			
Accessories	Silicon Hose for Dry Air Piping	φ76×2m × 2 pcs				φ114×2m × 2 pcs			
	Cable	Power Supply Cable	5m			Not attaching power cable			
		Control Cable	5m						
Weight (kg)	350				600				

* Drying heater is located on the drying hopper (local heater).

Ability table Unit (kg/hr) (Resin drying speed •Drying time example) Example of drying temperature and drying time for resins.

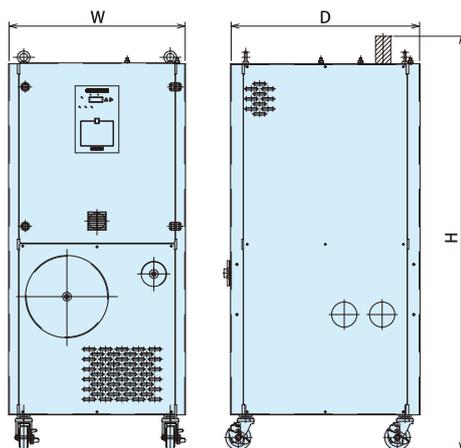
Resin	Drying temperature (°C)	General drying time (hr)	DAA-200			DAA-400			
			DHA-200BH	DHA-250BH	DHA-300BH	DHA-300BH	DHA-400BH	DHA-600BH	DHA-800BH
ABS	80 ~ 90	2 ~ 4	66	83	100	100	133	200	266
PC-ABS	80 ~ 100	3 ~ 5	50	62	75	75	100	150	200
PMMA	80 ~ 90	4 ~ 6	50	62	75	75	100	150	200
PC	120 ~ 130	2 ~ 4	66	83	100	100	133	200	266
PET	140 ~ 160	2 ~ 4	66	83	100	100	133	200	266
PBT	110 ~ 160	2 ~ 4	66	83	100	100	133	200	266
PA (Natural)	70 ~ 80	4 ~ 6	50	62	75	75	100	150	200
PA (Black)	80 ~ 120	3 ~ 4	66	83	100	100	133	200	266
TPY	50 ~ 100*	4 ~ 6	50	62	75	75	100	150	200
PPS	130 ~ 180	2 ~ 4	66	83	100	100	133	200	266
PPO	80 ~ 110	2 ~ 3	66	83	100	100	133	200	266
POM	80 ~ 110	3 ~ 4	66	83	100	100	133	200	266
PET-G	65 ~ 70*	4 ~ 6	50	62	75	75	100	150	200

* The drying capacity varies depending on molding methods or required quality.

* Consult us for the use at drying temperatures of 69°C or lower, or 181°C or higher.

* For nylon (natural), it is assumed that resin makers dry it in advance before feeding. * The drying time and temperature may vary depending on resin properties or conditions.

Dryer Dimensions



Unit : mm

Model	W	D	H	Weight (kg)
DAA-200	700	750	1650	350
DAA-400	1030	795	1656	600



Drying Hopper

Model

DHA - **200** - **B** - **H**

Stand Insulated

Feeding Volume (kg) (200,250,300,400,600,800)
Capacity

Hopper Specifications

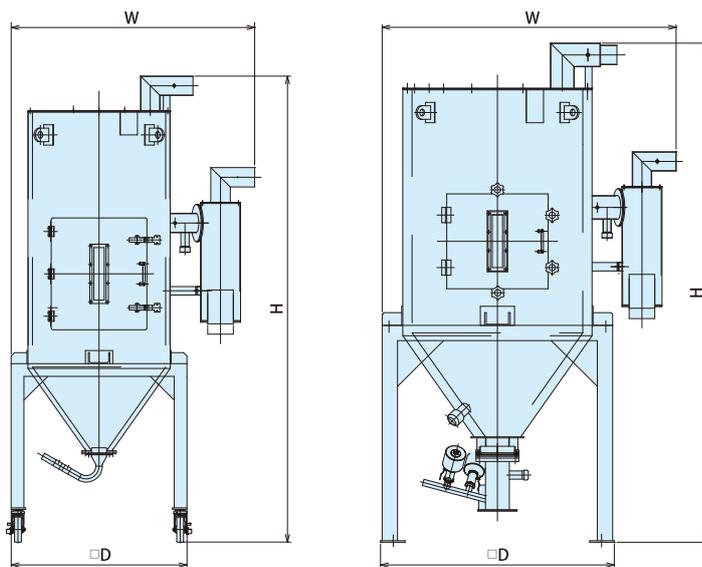
● marks: Standard combination

Model	DHA-200BH	DHA-250BH	DHA-300BH	DHA-400BH	DHA-600BH	DHA-800BH
DAA-200 / DAA-200H	●	●	—	—	—	—
DAA-200H / DAA-200U	—	●	●	—	—	—
DAA-400 / DAA-400H	—	—	●	●	—	—
DAA-400B / DAA-400U	—	—	—	●	●	●
Volume (L)	333	416	500	670	1000	1330
Feeding Volume (kg)	200	250	300	400	600	800
Material	Contact Point	SUS				
	Other	SS400				
	Insulating Material	Glass wool				
Accessories	Access door, sight glass					
	Stand	With casters			No casters	

Notes:

1. The insulated hopper and a stand on casters are equipped as standard (Casters are not attached for DHA-600BH and DHA-800BH).
2. Capacity of drying hoppers varies depending on shapes of material.
3. The combinations with the above hoppers may change because it takes time to dry some materials.
4. Combinations other than the above are optional.

Dimensions (Standard)



DHA-200BH, 250BH, 300BH, 400BH

DHA-600BH, 800BH

Model	W	D	H	Unit : mm
				(kg) Weight
DHA-200BH	1200	850	2180	240
DHA-250BH	1310	980	2360	265
DHA-300BH	1360	1030	2465	325
DHA-400BH	1430	1030	2755	360
DHA-600BH	1725	1350	2950	600
DHA-800BH	1725	1350	3380	650

Options

Item		DAA-200	DAA-400
Collection Box for DHA (Suction of All Material)	Pipe Size (OD)	φ38 or φ48.6	
	Number of Nozzle	1P or 2P (unable to suction simultaneously)	
	Suction Inlet for Secondary Conveying Air	Damper, Air breaker, Dry air	
Dewpoint Meter		Setting area : -40~0°C 1P or 2P (unable to suction simultaneously)	
Demister		Remove oil mist	
Dry Air Conveying		Dry air conveying for secondary circuit (Kawata's proprietary)	
Visual Alarm		Indicate alarm conditions	
Audible Alarm		Sound under abnormal conditions (attached to control panel cover)	
Filter Clog Alarm		Detect filter clogging by differential pressure switch	
Electric Leakage Breaker		Replaceable with a standard non-fuse breaker	
SSC		Replaceable with a standard magnet breaker	
Alarm Signal		ON under abnormal conditions (no voltage contact)	
Running Signal		ON during drying operation (no voltage contact)	
Weekly Timer		999hr. timer as standard	
Emergency Stop Button		Stop drying operation in emergencies (attached to the control panel cover)	
Breaker with External Handle			
Power Cable		5m standard	5m (use-selectable)

KAWATA U.S.A., INC.

www.kawata-usa.com

*These specifications are subject to change without notice.
*Please read the instruction manual carefully before use.

Total Systems Engineer

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