WENSUI

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WENSUI

WENSUI GROUP

AUXILIARY EQUIPMENT CATALOG

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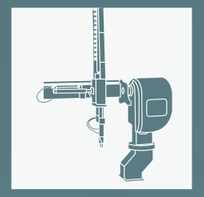

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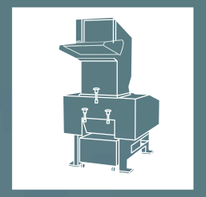

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Drying and Dehumidifying

INFUSE PRODUCTS WITH DEDICATION AND EXPERTISE.

Dehumidifier

Working Principle

❯ Air bubbles, shrinkage, crack, splash, sink-marks and intransparence are caused by hygroscopic plastic material which is not completely dried before molding. Hygroscopic materials such as PA, PC, PBT, PET, NYLON, etc, contain much humidity and cannot be dried completely by hopper dryers.

❯ With dehumidifier, honeycomb rotor provides drying air with dew point under -40°c that can remove the humidity in the material and reduce it to 0.02% before molding.

Reference Table

Material	Drying Temp. (°C)	Drying Time (hr)	Drying Capacity (kg/hr)														
			50	80	130	160	220	300	400	500	800	1000	1200	1500	2000	3000	4000
ABS	80	2~3	16	30	40	60	85	150	200	255	380	450	600	800	1100	1500	2000
POM	100	2	24	38	50	85	125	200	250	300	400	500	750	1000	1300	1800	2200
PMMA	80	3	17	25	35	60	80	135	180	240	330	400	500	666	1000	1500	1800
IONOMER	90	3~4	10	20	28	44	60	110	135	175	235	280	330	450	680	1100	1400
PA6/6. 6.10	75	4~6	9	15	20	30	45	80	100	130	200	240	300	400	600	800	1100
PA11/12	75	4~5	10	17	23	35	50	90	120	145	220	265	320	450	650	800	1150
PC	120	2~3	19	31	41	65	80	125	200	250	400	480	600	800	1200	1500	1850
PU	90	2~3	17	31	40	68	85	130	210	260	400	480	600	800	1200	1500	1900
PBT	130	3~4	13	21	31	45	65	115	146	185	245	340	420	560	820	1100	1500
PE	90	1	47	80	106	160	220	400	500	600	1000	1200	1500	1800	2500	4000	5000
PET	160	4~6	11	16	25	35	55	85	115	135	180	250	300	420	600	800	1150
PPO	110	1~2	19	40	55	90	133	220	300	355	500	600	700	1000	1450	2000	2500
PI	120	2	24	40	53	85	125	205	250	300	400	500	750	1000	1500	2000	2500
PP	90	1	39	66	90	160	205	342	480	600	850	1100	1450	1800	2500	3500	4500
PS(GP)	80	1	39	66	88	180	205	342	481	600	850	1200	1450	1800	2500	3500	4500
PSU	120	3~4	12	22	29	45	65	105	133	180	235	350	420	560	850	1150	1450
PVC	70	1~2	19	40	55	90	135	220	295	355	500	600	700	900	1350	2000	2500
SAN(AS)	80	1~2	19	33	44	90	135	220	265	355	500	600	750	900	1350	2000	2500

We reserve the right to change specifications without prior notice.

VMD 3-In-1 Dehumidifying Dryer

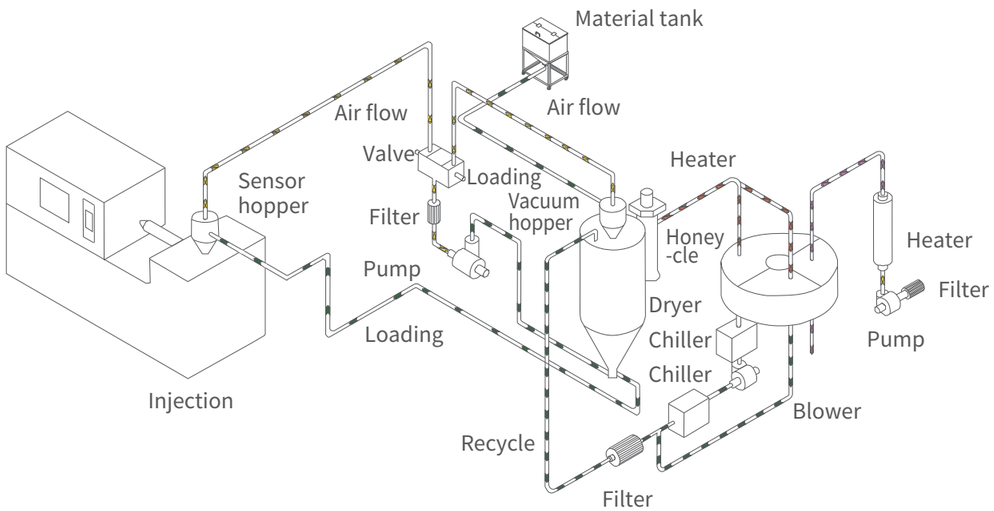
Dew point meter

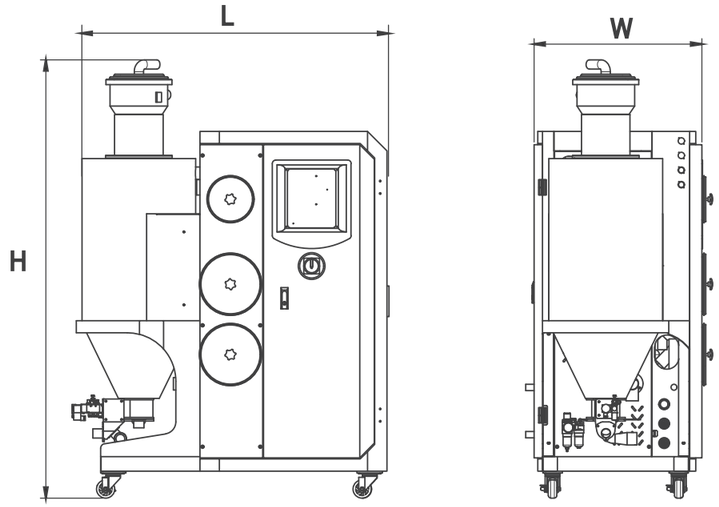
Dew point display

VMD 3-In-1 Dehumidifying Dryer

Features

- Dehumidifying, drying and feeding combined within one unit.
- Standard configuration is 1 to 2 feeding with 1 reed switch hopper and 1 photoelectric hopper.
- Optional configuration is 1 to 3 feeding with 1 reed switch hopper and 2 photoelectric hoppers.
- Max. 1 to 4 feeding with 1 reed switch hopper and 3 photoelectric hoppers.
- Controlled by microprocessor with P.I.D. temperature control.
- LCD display and keyboard.
- Double-condenser provides lower return air temperature and a dew point of below -40°C (-50°C can be achieved with chilling water).
- Easy to operate and read warning messages.
- Insulated drying hopper with European standard allows better heat preservation and drying efficiency.
- Fully sealed feeding system to prevent dried material from contacting open air and moisture.
- Discharge valve ensures no residual materials in hopper tubes.
- Portable with small footprint.
- Optional PLC control for feeding up to 5 machines.
- Optional dew-point monitor.





Specifications

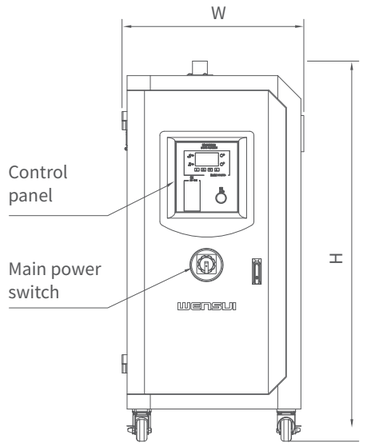
Model		VMD-45L /50A	VMD-90L /80AX	VMD-120L /80AX	VMD-160L /130AX	VMD-230L /160AX	VMD-300L /220AX	VMD-450L /300A	VMD-750L /400A	VMD-900L /500A	VMD-1200L/800A
Hopper	Capacity(L)	45	90	120	160	230	300	450	750	900	1200
	Insulating Materials	Fiberglass and Casing									
Average Dew Point		-40°C									
Drying Temp.		80-160°C									
Air Flow (m^3/h)		50	80	80	130	160	220	300	400	500	800
Blower Power(kW)		0.55	0.55	0.75	1.1	1.5	2.2	3	5.5	5.5	7.6
Regeneration Blower(kW)		0.25	0.25	0.25	0.25	0.55	0.55	0.75	0.75	2.2	2.2
Drying Heater(kW)		3.9	5.4	5.4	5. 4	7.2	12	14	18	21	21
Regeneration Heater (kW)		3.9	3.9	3.9	3.9	5. 4	5. 4	7.2	7.2	14	14
Pipe Diam -eter	Drying(mm)	38	51	51	51	63	63	76	76	100	100
	Cooling (inch)	3/4″									
	Regeneration (mm)	38	38	38	38	51	51	51	51	63	63
Conveying Blower (kW)		0.75	1.1	1.1	1.1	1.5	1.5	1.5	2.2	3.7	3.7
Convey-ing Distance (m)	Stage 1	10									
	Stage 2	10									
Hose Diam (inch)		1.5								2	2
Sensor Hopper Capacity(L)		6	6	6	6	6	6	10	10	10	10
Vacuum Hopper Capacity(L)		6	6	6	6	6	6	10	10	10	10
Dimension L×W×H (cm)		110×93×160	130X70X180	130X70X203	130X70X230	151X84X227	151X84X258	150×130×285	178×130×292	214×138×322	225×138×355
Net Weight (kg)		280	290	320	340	400	530	600	750	830	900

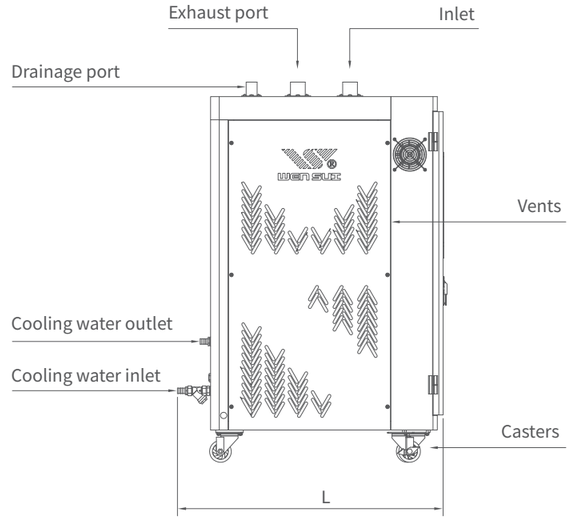
Note:The minimum air pressure is 0.4MPa and the minimum air flow is 15L/hr.Power supply：3Φ 380VAC 50Hz；
We reserve the right to change specifications without prior notice.

VD Desiccant Rotor Dehumidifier

Features

- Controlled by microprocessor with P.I.D. temperature control.
- Includes LCD display and keyboard.
- Dew-point monitor is optional.
- Easy to operate and understand warning messages.
- Double-condenser provides lower return air temperature and dew point below -40°C (-50°C is available with chilling water).





Specifications

Model	Hot-Air Flow Rate (m^3/hr)	Dryer Blower (kW)	Regenerative Blower (kW)	Regenerative Heater (kW)	Inlet & Outlet Diameter (inch)	Dimension L×W×H (cm)	Net Weight (kg)
VD80H	80	0.75	0.25	3.9	2″	80×60×128	120
VD130H	130	1.1	0.25	3.9	2″	80×60×128	140
VD160H	160	1.5	0.55	5.4	2.5″	94×70×155	215
VD220H	220	2.2	0.55	5.4	2.5″	94×70×155	225
VD300H	300	3	0.75	7.2	3″	109×76×170	240
VD400H	400	5.5	0.75	7.2	3″	109×76×170	280
VD500H	500	5.5	2.2	14	4″	130×90×180	290
VD800H	800	7.5	2.2	14	4″	130×90×180	320
VD1000H	1000	9	3	18	5″	168×126×191	400
VD1200H	1200	13	3	18	5″	168×126×191	600
VD1500H	1500	18	5.5	22.5	6″	210×141×196	510
VD2000H	2000	18	5.5	22.5	6″	210×141×196	760
VD3000H	3000	27	7.7	36	8″	224×214×196	1140
VD4000H	4000	36	11	40	8″	275×200×245	1350

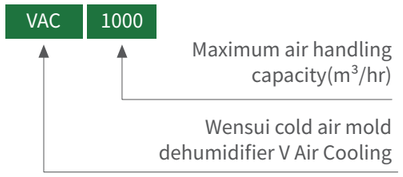
Power supply：3Φ 380VAC 50Hz；

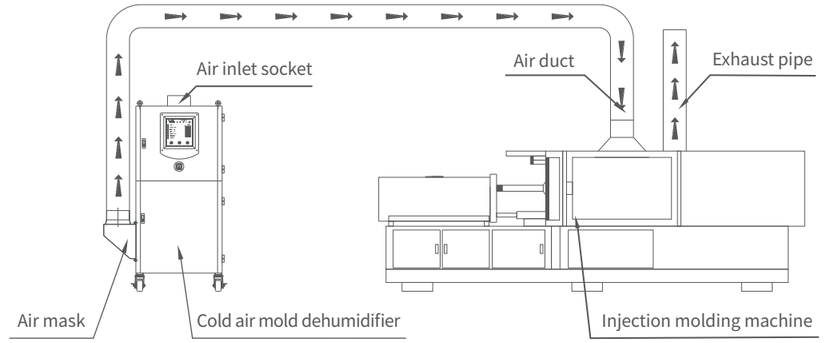
We reserve the right to change specifications without prior notice.

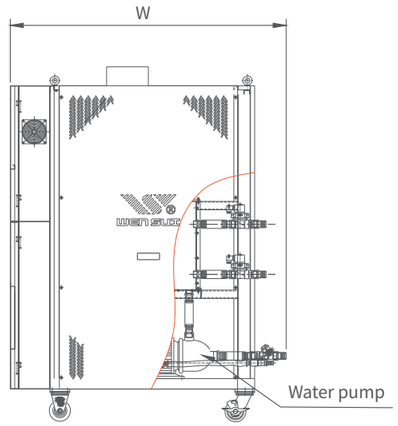
VAC Air-Cooled Mold Dehumidifier

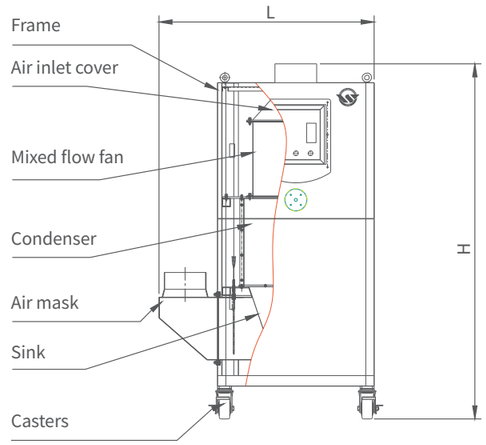
Features

- Equipped with reversed phase, faulty blower, pump overload and high temperature protection.
- Includes of buzzer and alarm to ensure safe operation.
- Cooling air temperature can be adjusted within 12~24°C, and is displayed on the controller.
- Equipped with convenient to clean air filter.









Specifications

Model	Max. Air Throughput (m³/hr)	Cooling Air Capacity (HP)	Blower Power (HP)	Working with Chiller (HP)	Air Outlet Tempera-ture(°C)	Water Inlet Diameter (inch)	Water Outlet Diameter (inch)	Cooling Air Diameter (mm)	Dimension(cm) L×W×H
VAC-1000	1000	13.5	0.37	8/5	11/13.5	1	1	Φ200	103X132X170
VAC-2000	2000	27.6	0.55	12.5/10	11/14	1	1	Φ200	110x132x174
VAC-3000	3000	40	0.75	15/12.5	11/16	1	1	Φ250	122x137x187
VAC-4000	4000	55	0.75	25/20	11/14	1	1	Φ250	122x137x187

Note:The above max. air throughput data is obtained without air shield.
Power supply：3Φ 380VAC 50Hz;
We reserve the right to change specifications without prior notice.

PET Crystallizer

Working Principle

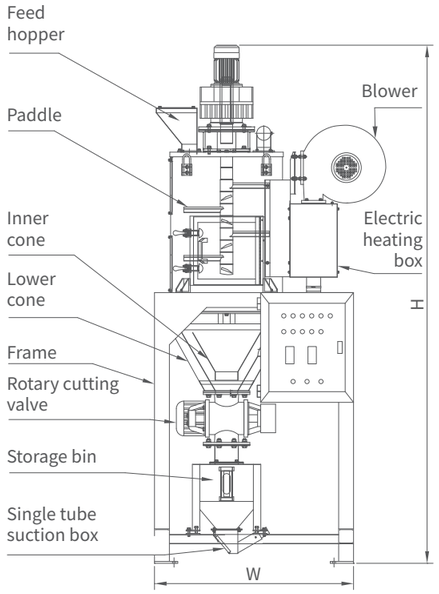
Converting amorphous PET to a crystalline state before drying is essential to prevent clumping.

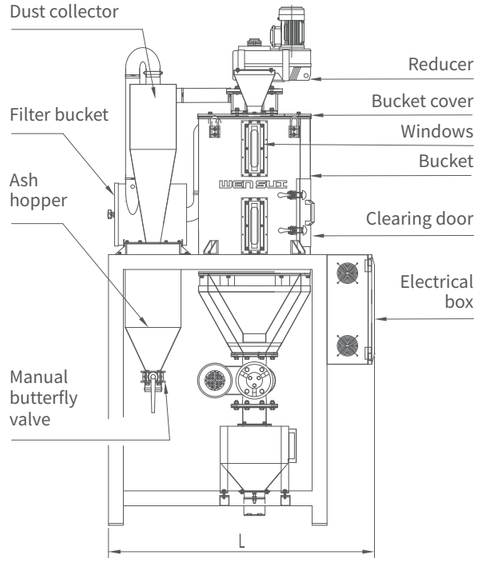
The crystallizing system includes a heat source, a blending hopper, and a rotary discharge valve.

The PET Crystallizer offers seamless integration with other material handling equipment.

Features

- Hopper with blender prevents lump and deformation.
- Constant agitation and orientation pole prevent agglomeration.
- Automatically monitors hopper temperature to ensure continuous and reliable output of crystallized material.
- Processed materials can be discharged or stored.
- Material tank is equipped with door, and blender is detachable, both of which are easy to access and clean.





Specifications

Model	Capacity (L)	Blender Motor Power(kW)	Blower Power(kW)	Heating Power(kW)	Crystallizing Ability(kg/hr)	Dimension(cm) L×W×H	Net Weight (kg)
VCR-160	160	0.55	0.55	12	50	143X125X280	230
VCR-500	500	1.1	2.2	24	150	167X145X352	500

Note:Power supply：3Φ 380VAC 50Hz;

We reserve the right to change specifications without prior notice.

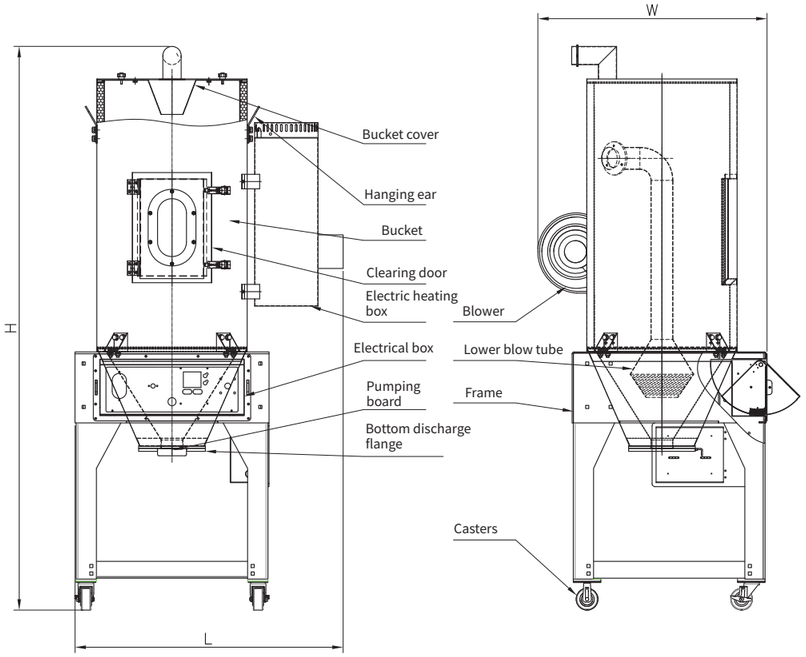
VDB Euro Design Dryer

Features

- Downward airflow and circumfluent hot air ensure even drying and high efficiency.
- Material contact surfaces are made of stainless steel.
- Large access door for easy cleaning.
- Digital temperature display.
- Double-layer overheating protection function for operational safety.
- Includes two high-temperature protective devices for safety.

VDB-50/75X

VDB-100AC



Specifications

Model	Capacity(kg)	Heating(kW)	Blower (W)	Dimension (cm) L×W×H	Net Weight (kg)
VDB-50X	50	4.5	155	84X89X163	110
VDB-75X	75	6.5	210	85X91X186	120
VDB-100AC	100	6.5	210	94X70X195	140
VDB-150AC	150	9	320	101X89X224	170
VDB-200AC	200	12	320	111X95X235	195
VDB-300AC	300	16.8	340	114X107X245	250
VDB-400AC	400	18	340	132X118X258	310
VDB-600AC	600	20.4	750	153X128X278	400
VDB-800AC	800	30.6	1100	168X141X317	570

Note:The capacity of hopper is based on PA-6 granule.
Power supply：3Φ 380VAC 50Hz;
We reserve the right to change specifications without prior notice.

WSDB Standard Hopper Dryer

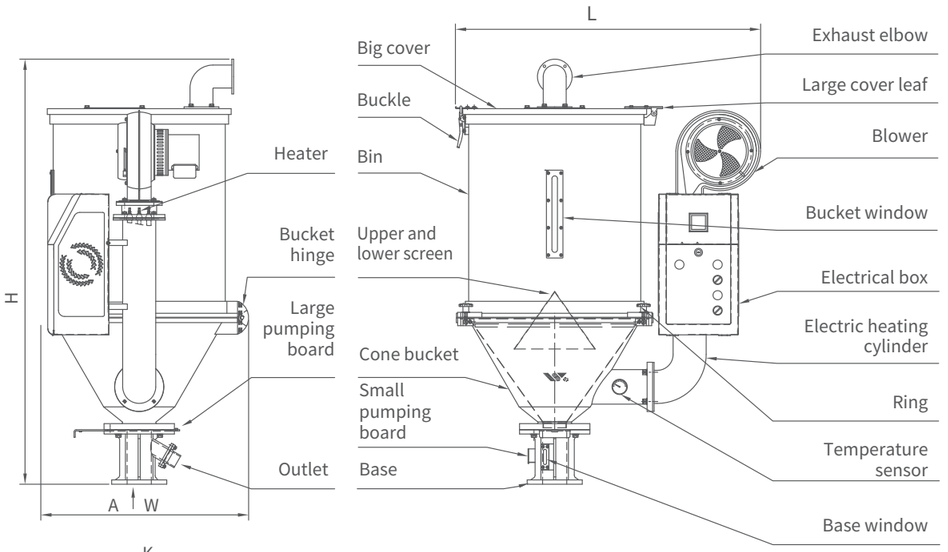
Features

- Stainless steel contact parts.
- Precise die cast aluminum housing with smooth surface and heat preservation.
- Low noise blower and the optional air filter ensures material purity.
- Proportional deviation display thermostat controls temperature accurately.
- Material tank is installed with glass for inspection.
- Curved heating cylinder is designed to avoid powder jam and overheat.
- Hopper is designed for easy opening, suitable for all robots.
- Upper and lower stainless-steel screen.
- Surface is round and smooth, easy to clean and maintain.

Upper and lower stainless steel screen.

Surface is round and smooth, easy to clean and maintain.

WSDB series



Base installation

Specifications

Model	Capacity(kg)	Heating(kW)	Blower(W)	Dimension L×W×H (cm)	Base Flange Size(cm)	Net Weight (kg)
WVDB-12	12	1.6	75	64×44×76	11×11×Φ4	22
WVDB-25	25	3.5	135	76×50×104	15×15×Φ6.2	34
WVDB-50	50	4.5	155	87×54×121	16×16×Φ7	45
WVDB-75	75	6.5	210	94×60×131	16×16×Φ7	56
WVDB-100	100	6.5	210	101×70×141	18×18×Φ8	68
WVDB-150	150	9	320	110×74×170	20×20×Φ8.8	78
WVDB-200	200	12	320	118×84×176	23×23×Φ11.5	110
WVDB-300	300	15	340	142×100×183	27.5×27.5×Φ12	152
WVDB-400	400	15	340	148×106×202	27.5×27.5×Φ12	170
WVDB-600	600	20	1030	158×116×240	28×28×Φ13.5	280
WVDB-800	800	30	1100	177×118×254	28×28×Φ13.5	380

Note:The capacity of hopper is based on PA-6 granule.

Power supply：3Φ 380VAC 50Hz；

We reserve the right to change specifications without prior notice.

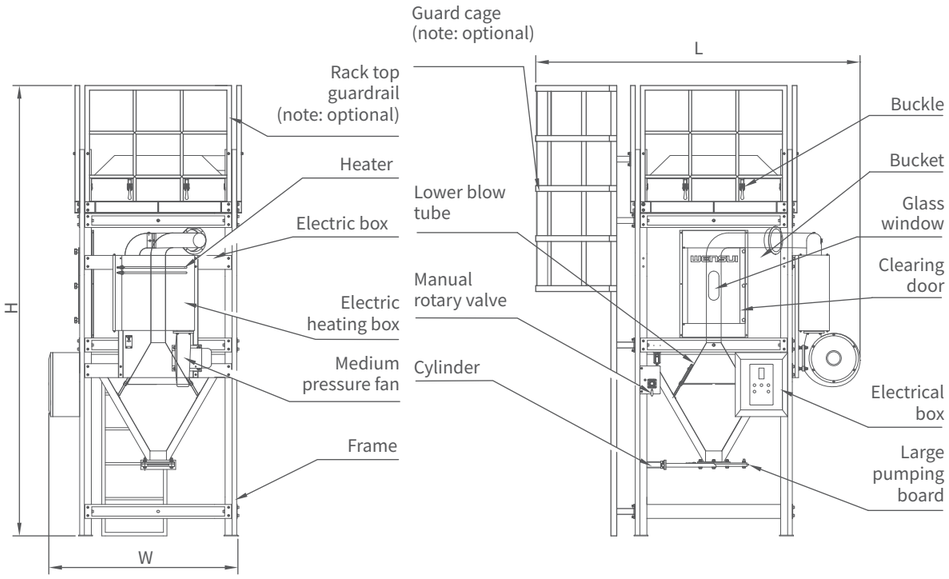
WSDH Giant Hopper Dryer

Features

- Dryer with load capacities of 1000-3000 kg (2205-6614 lbs.) and two layers of heat protection.
- Downward airflow and circumfluent hot air ensure even drying and high efficiency.
- Stainless-steel contact parts.
- Large access door for easy cleaning.
- Adopted P.I.D. control for accurate temperature control.
- Designed with two high-temperature protective devices for safety.

WSDH-1000

WSDH-1000G



Note: DH1000、DH1500、DH2000、DH3000 dryer does not include the yellow part of the frame top guardrail and cage.

Specifications

Model	Capacity(kg)	Heating(kW)	Blower(W)	Dimension (cm) LxWxH	Net Weight(kg)
WSDH-1000	1000	40.8	1100	195X164X332	570
WSDH-1500	1500	51	1500	198X173X390	710
WSDH-2000	2000	61	3000	197X223X422	960
WSDH-3000	3000	68	4000	205X227X471	1300
WSDH-1000-G	1000	40.8	1100	279X164X387	695
WSDH-1500-G	1500	51	1500	280X173X445	850
WSDH-2000-G	2000	61	3000	280X223X474	1130
WSDH-3000-G	3000	68	4000	289X227X523	1480

Note:The capacity of hopper is based on PA-6 granule.
Power supply：3Φ 380VAC 50Hz；
We reserve the right to change specifications without prior notice.

WSDD Air-Recycling Hopper Dryer

Working Principle

› Heater element and blower provide hot air to remove moisture from materials, the moist air is recycled by collector. The collector filters out dust and powder. The clean hot air is blown back to the dryer for another cycle.

Features

› Hose to recycle airflow to be more environmentallyfriendly.
› Features an internal hot air circulation system to reduce 15-30% heat loss.
› Concentrated thermal energy rapidly expels moisture.
› Confined drying chamber with filter can avoid overheat and air pollution.
› Special filter can withstand high temperature.

Euro Recycle Hose

Recycle Hose Specifications

Model	Compatible Hopper Dryer Model	Hose Diameter (mm)
EP12	DB12	Φ50.8
EP-25	DB25	Φ63.5
EP-100	DB50-DB100	Φ63.5
EP-200	DB150-DB200	Φ101.6
EP-400	DB300- DB400	Φ101.6
EP-600	DB600	Φ101.6

Note:If recycle hose EP12 adds to hopper dryer DB12, the standard blower of DB12 is required to be changed to high temperature blower.

EURO Hot Air Collector

Model	Compatible Hopper Dryer Model	Blower Side-hose Diameter (mm)	Hopper Side-hose Diameter (mm)
VEP100	VDB50-VDB100	Φ76	Φ63.5
VEP300	VDB150-VDB600	Φ101.6	Φ101.6

Note:If recycle hose VEP300 adds to euro hopper dryer VDB600, the standard blower of VDB600 is required to be changed to high temperature blower.
We reserve the right to change specifications without prior notice.

Hopper Dryer Accessories

Magnetic Separator

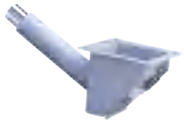
› Inserted to the cone to filter out iron from materials. Various models are available.

Dust Collecting Bin

› Installed to filter dust and avoid air pollution.

Suction Box

› For standing type hopper dryer, easy for material suction and discharge.



Single tube suction box

Double suction box

Material Storage Bin(Silo)

› Customized tank available for all sizes of S/S hopper.

Heating Element

› New energy-saving model.

Support Frame

Customization of support frame is available.

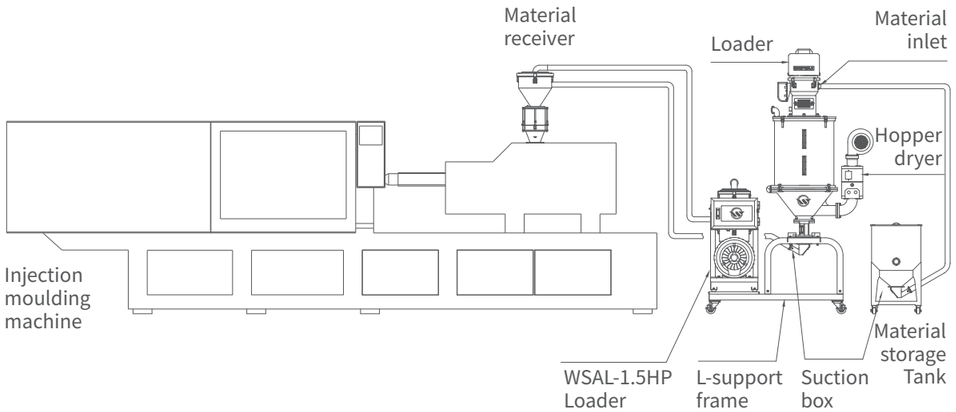
› A-support Frame(For DB12-DB150)

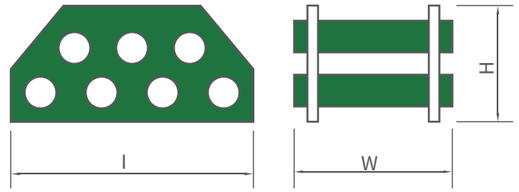
› L-support Frame(For DB12-DB150)

Autoloading And Drying System

Features

- The autoloading and drying system consists of dryer, loader, material storage bin, suction box and support frame. Such automatic system works as below: the first autoloader conveys the material in the material storage bin to dryer, where raw material is heated and dried. After that, the second autoloader feeds the dried material to the injection molding machine.
- Optimal combination of dryer and loader, increasing work efficiency.
- Save space and overcomes workshop height limit.
- Convenient to change materials and cleaning.
- Moveable, easy to operate and maintain.





Specifications

Description	Model	Dimension L×W×H (cm)	Compatible Models
L Frame	FR-L	Customize	All
A Frame	FR-A	Customize	All
Single Suction Box	SB-1	34×17×16	All
Dual Suction Box	SB-2	34×17×16	All
Dust Collector	DC-1	23×23×70	DB12-DB100
Dust Collector	DC-2	27×23×88	DB150-DB800

Description	Model	Capacity(kg)	Dimension L×W×H(cm)
Material Storage Bin	Rt-25	25	43×43×87
	Rt-50	50	48×48×102
	Rt-75	75	58×58×102
	Rt-100	100	67×67×104
	Rt-150	150	72×72×121
	Rt-200	200	79×79×129
	Rt-300	300	88×88×150
	Rt-500	500	103×103×175
	Rt-1000	1000	127×127×219

Description	Model	Number of Magnet	Max. Temp. (℃)	Dimension L×W×H (mm)	Compatible Models
(Strong) Magnetic Separator	MS-02	2	200	165×165×45	DB12-DB50
	MS-03	3		200×200×45	DB75-DB200
	MS-04	4		275×275×45	DB200-DB800
Magnetic Separator	MS-07	7		180×200×80	DB12-DB25
	MS-09	9		230×240×80	DB50-DB100
	MS-11	11		280×270×80	DB200
	MS-13	13		330×350×80	DB400-DB800

We reserve the right to change specifications without prior notice.

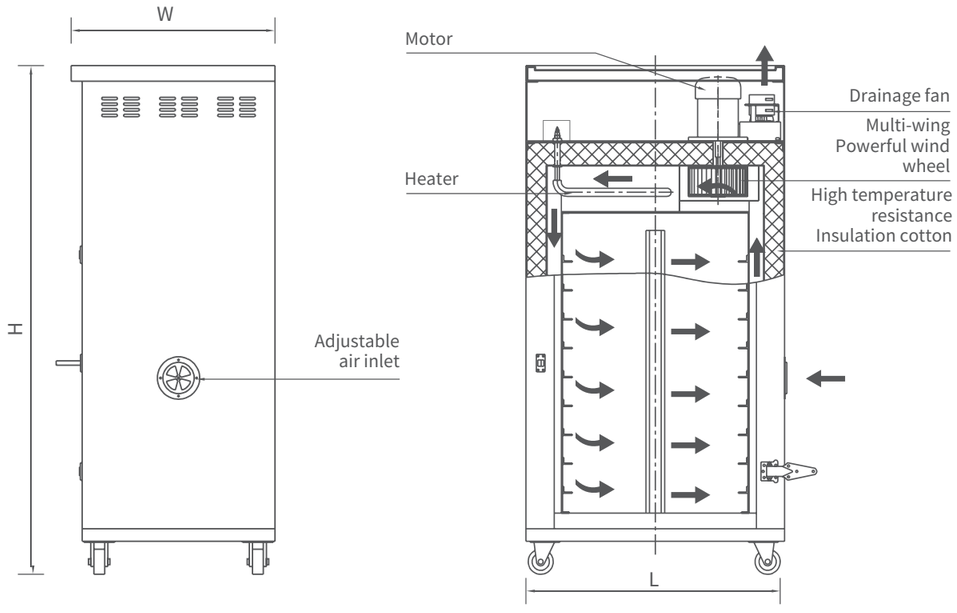
WSDA Cabinet Dryer

Features

- Applicable for drying all kinds of plastic materials with different texture and color simultaneously. Designed particularly for materials with high demand for temperature in small quantities and many colors.
- Suitable for other preheating or drying purposes, e.g. food, medical, electronic and electroplating.
- Adopted P.I.D. control to precisely control drying temperature.
- Temperature and timer control in one unit for easy parameter setting.
- Premium heat insulating material and sealed structure can save energy.
- Adjustable air inlet.
- Installed with motor overload protector and phase controller.

Working Principle

Place material on the movable trays and start the machine. After air is blown from the air inlet to electric heater elements, hot air evenly goes through and dry the material. Consequently, moisture will be expelled by another blower and then material is dried through the repeated process.



Specifications

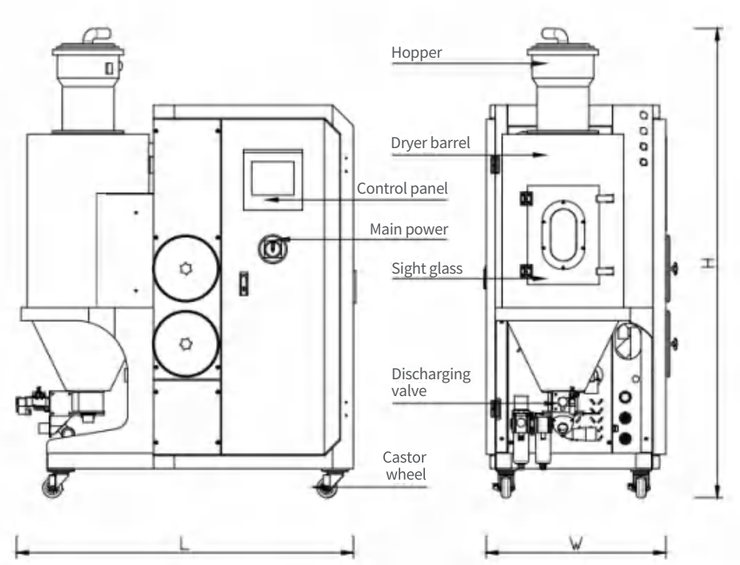
Model	Power(kW)	Blower(kw)	Max.Temp.(°c)	Number of Tray	Capacity(kg)	Dimension L×W×H(cm)	Net Weight (kg)
WSDA-9	6	0.75	200	9	80	92×69×175	190

Tray Dimensions:57.6x48x5cm; Power supply:3Φ 380VAC 50Hz;
The capacity is based on testing of PA6 granule;
We reserve the right to change specifications without prior notice.

VEMD Energy-saving Dehumidifying Dryer

Features

- Dehumidifying, drying, and conveying combined within one unit.
- The dehumidification system is equipped with a molecular sieve to provide consistent dry air with a dew point of -40°C.
- Double-insulated stainless steel drying hopper featuring a downward air duct design to ensure uniform drying and prevent heat loss.
- The conveying system is equipped with a valve to control material flow, ensuring no residual material remains.
- Closed-loop conveying system prevents raw material contamination and moisture absorption.
- Advanced microcontroller adopted to enhance the anti-interference capabilities and a phase detection module to monitor phase errors.
- LCD display is easy to use and read.
- Optional dew point sensor.
- Optional accessories: cyclone dust collector, oil filter, etc.



Specifications

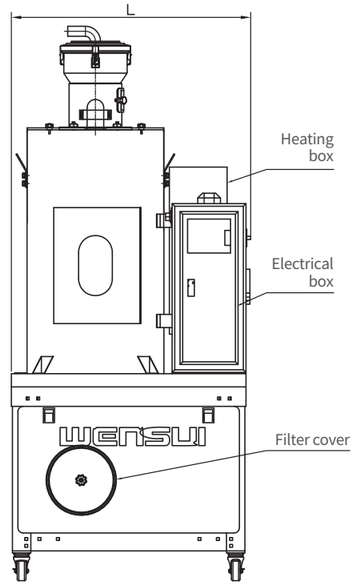
Model		VEMD45	VEMD90	VEMD120	VEMD160	VEMD230	VEMD300
Drying hopper	Load capacity (L)	45	90	120	160	230	300
	Insulation material	Fiberglass insulation + outer panel					
Average dew point		-40°C					
Power supply		380VAC 3P 50Hz					
Drying airflow(m^3/h)		70	70	80	130	160	220
Drying blower(kW)		0.55	0.55	0.75	1.1	1.5	2.2
Drying heater(kW)		3.9	5.4	5.4	5.4	7.2	12
Conveying blower (kW)		1.1				1.5	
Conveying distance (m)		10					
Conveying pipeline (inch)		1.5 (Φ38)					
Photoelectric sensor hopper(L)		6					
Magnetic hopper(L)		6					
Optional accessories		1.Dew point sensor;2.Cyclone dust collector					
Dimensions L×W×H (cm)		130X70X180	130X70X180	130X70X203	130X70X230	151X84X227	151X84X258
Weight (kg)		160	180	210	240	280	310

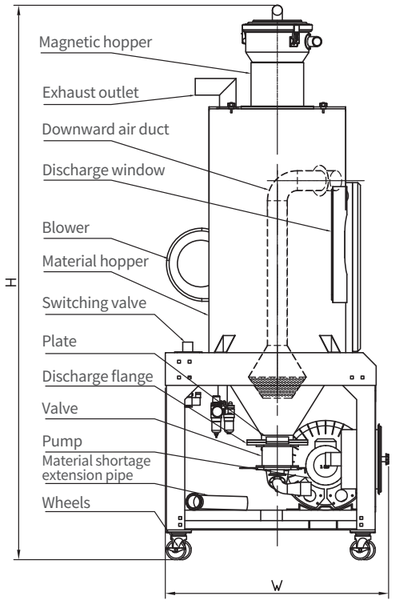
We reserve the right to change specifications without prior notice.

VDAL Dryer-loader Combined Unit

Features

- Drying and conveying within one unit.
- The standard configuration is equipped with a magnetic hopper and photoelectric hopper, up to five hopper sets.
- Microcomputer control ensures precise drying temperature.
- Insulated drying hopper to prevent heat loss.
- The valve halts material flow to ensure no residual material remains in the pipeline after each feeding cycle.
- Compact unit to save floor space with high portability.
- Special downward air duct and exhaust system for consistent drying temperature.
- Discharge window offers easy access, securely sealed, and convenient installation.
- Dual overheat protection system for safety.
- Optional hot air circulation system to reduce heat loss, speed up drying cycle, and filter out dust.





Specifications

Model	VDAL50	VDAL100	VDAL200	VDAL400	VDAL600	VDAL800
Load capacity (L)	50	100	200	400	600	800
Heating capacity (kW)	4.5	6.5	12	18	20.4	30.6
Dryer blower (kW)	155	210	320	550	750	1100
Conveying pump (kW)	1.5	1.5	1.5	2.2	4	4
Pipe diameter (mm)	38	38	38	38	51	51
Photoelectric sensor hopper (L)	6	6	6	10	10	10
Magnetic hopper (L)	6	6	6	10	10	10

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