



Energy-efficient Hopper Dryer

SEHD-200

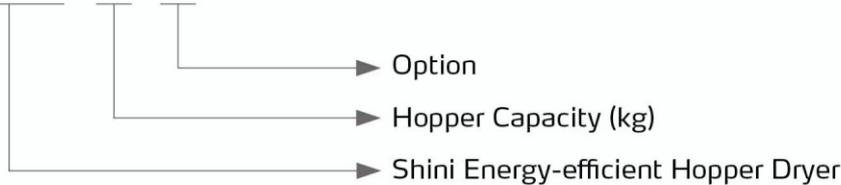


Refer carefully to this manual before operation.

SEHD Series

■ Coding Principle

SEHD - xx - xx



■ Features

Optimal structure

- Down-blowing structure design reduces the difference between inlet air temperature and heater temperature to ensure stable inlet air temperature.
- Adopt heat-insulated blower to prolong blower lifespan.
- The heating tank adopts double-layer insulation structure which not only can reduce the power consumption but also can avoid heating the ambient temperature.
- All material contact surfaces are made of stainless steel to eliminate material contamination.
- Detachable hopper base and maintenance door (except SEHD-12&25) for easy access.



Heat insulation blower



Down-blowing structure



Maintenance door



Double-layer insulated Structure



Internal structure

User-friendly design

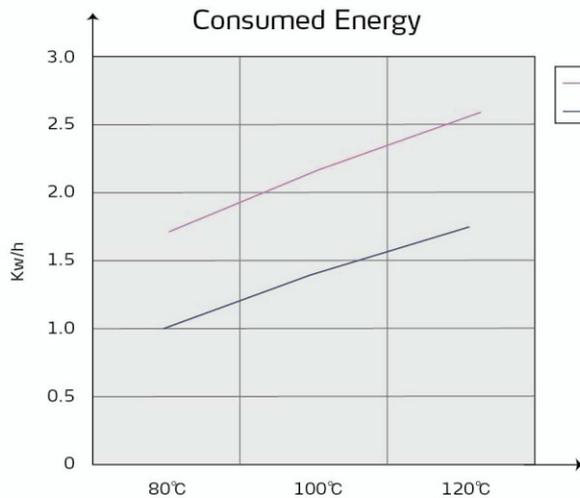
- SEHD-25-150 heater with lead sheet connected and all series are equipped with the temperature protector as to prevent the heater from burning.
- With overheat function, when the drying temperature exceeds the set deviation value, the main power supply will be automatically cut off.
- All series are standard equipped with the weekly timer and intermittent operation function.
- All series are equipped with microcomputer control and RS485 communication interface.
- The max. drying temperature can reach 160°C.



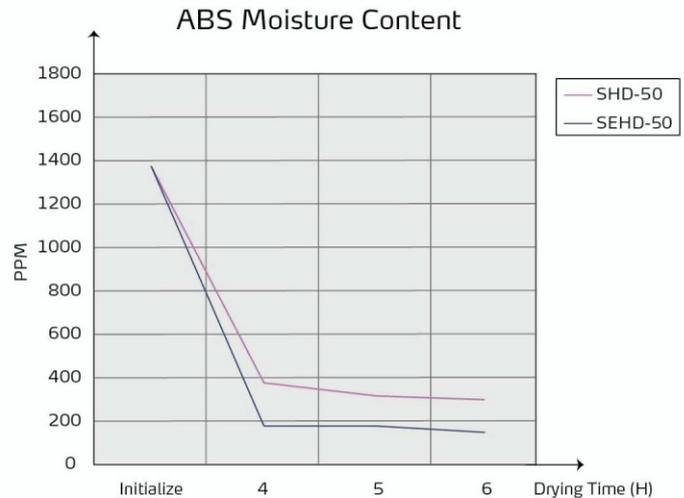
RS485 Communication interface

Energy efficient

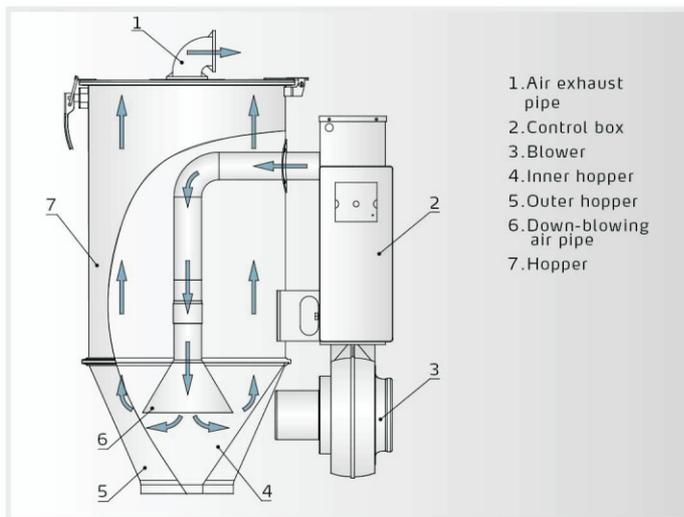
Take 50kg processed materials for example, SEHD can save 30-40% energy consumption compared with old SHD models under the same condition, which has significantly improved drying effect.



(* Above datum are for reference only)



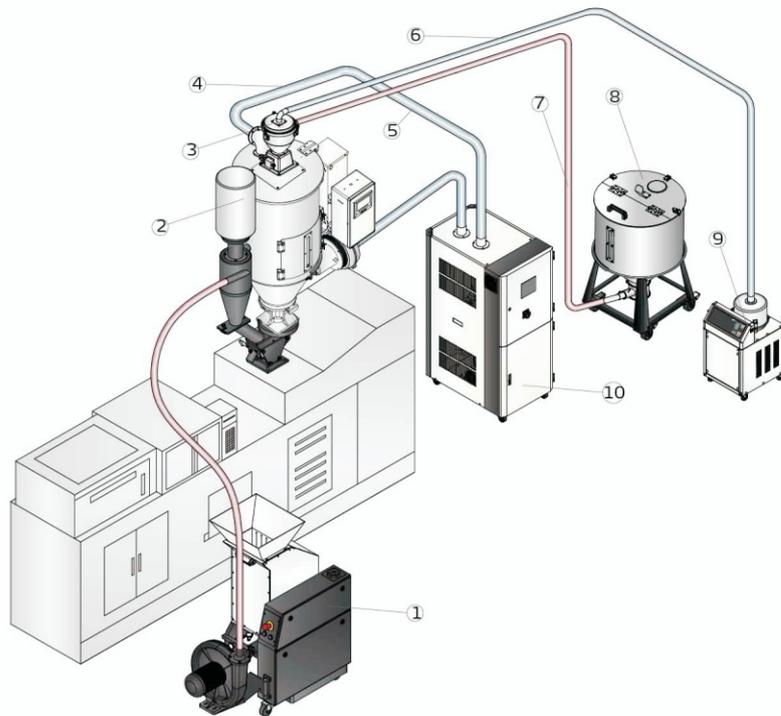
Working Principle



Application

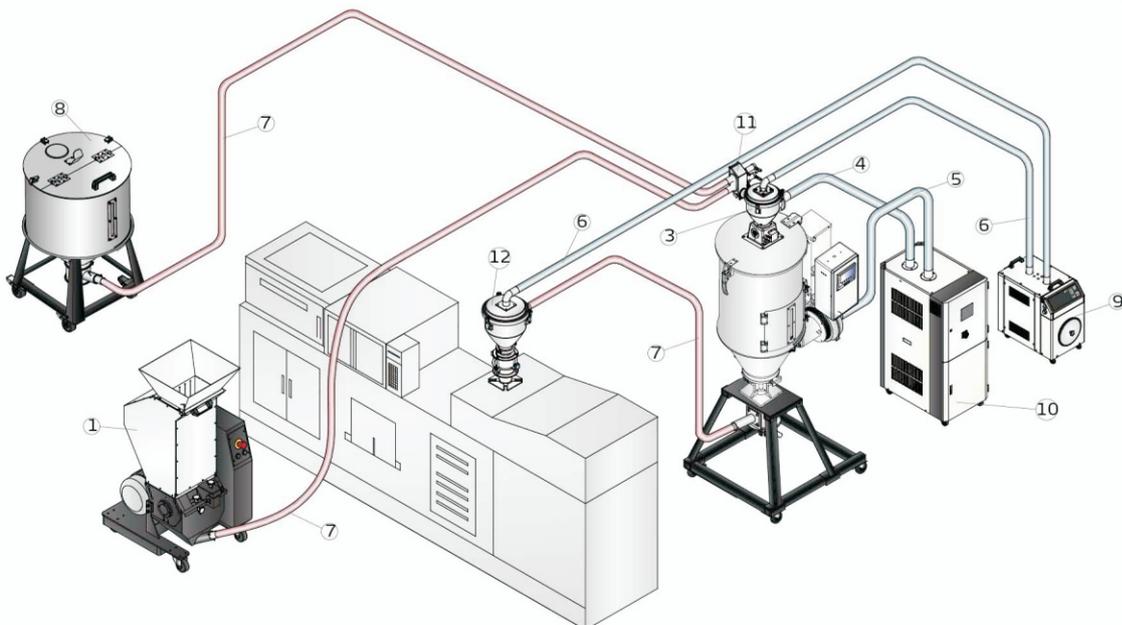
The SEHD energy-efficient hopper dryer can be used for drying most non-hygroscopic materials, such as PS, PP, ABS, etc. which can reach the highest drying temperature up to 160°C. In addition, multiple accessories are optional to realize different functions, such as recycling hot air and filtering metal impurities in the materials. With the floor stand, it makes floor mount of the machine available.

SEHD Series



Direct Mounting (SEHD-300 and below models)

- 1.Low-speed granulator
- 2.30-sec instant recycle
- 3.Vacuum hopper receiver
- 4.Return air
- 5.Dehumidifying air
- 6.Vacuum pipe
- 7.Material pipe
- 8.Material tank
- 9.Main vacuum unit
- 10.Honeycomb dehumidifier
- 11.Proportional valve
- 12.Photosensor hopper receiver

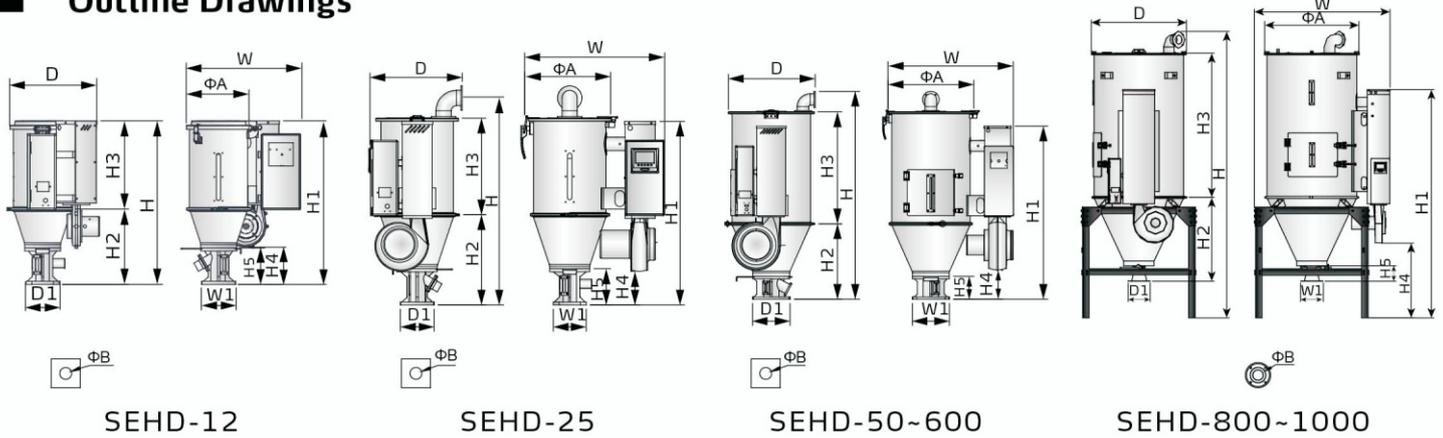


Floor Stand Mounting (SEHD-400 and above models)

Options

- For models with hopper polished inside, add "P" at the end of the mode code.
- The high temp. model can reach the max. temp. of 180°C, and add "H" at the end of the model code. (Suitable for SEHD-12~200)

Outline Drawings



Specifications

Model SEHD-	12	25	50	75	100	150	200	300	400	500	600	800	1000	
Heater (kW)	2.2	3	3.9	4.2	6	6.6	8.4	9.6	18	19.2	21	21	24	
Blower (kW)	0.1	0.12	0.12	0.12	0.12	0.12	0.18	0.18	0.55	0.55	0.55	1.1	1.1	
Hopper Capacity	kg	12	25	50	75	100	150	200	300	400	500	600	800	1000
	lb	26.5	55.1	110.2	165.3	220.5	330.7	441	661.4	881.8	1102.3	1322.8	1763.7	2204.6
H	mm	761	1010	1196	1476	1442	1782	1675	2058	2202	2382	2586	3060	3502
	Inch	30	39.8	47	58.1	56.8	70.2	65.9	81	86.7	93.8	101.8	120.5	137.9
H1	mm	761	754	939	939	1201	1201	1363	1363	1618	1618	1618	2442	2442
	Inch	30	29.7	37	37	47.3	47.3	53.7	53.7	63.7	63.7	63.7	96.1	96.1
H2	mm	350	404	452	452	523	523	617	617	844	844	844	898	898
	Inch	13.8	15.9	17.8	17.8	20.6	20.6	24.3	24.3	33.2	33.2	33.2	35.4	35.4
H3	mm	411	454	609	890	778	1118	820	1203	1120	1300	1504	1543	1975
	Inch	16.2	17.9	24	35	30.6	44	32.3	47.4	44.1	51.2	59.2	60.7	77.8
H4	mm	174	138	184	184	201	201	285	285	546	546	546	800	800
	Inch	6.9	5.4	7.2	7.2	7.9	7.9	11.2	11.2	21.5	21.5	21.5	31.5	31.5
H5	mm	170	150	150	150	158	158	231	231	288	288	288	167	167
	Inch	6.7	5.9	5.9	5.9	6.2	6.2	9.1	9.1	11.3	11.3	11.3	6.6	6.6
W	mm	531	638	709	720	864	864	986	986	1176	1176	1176	1448	1448
	Inch	20.9	25.1	27.9	28.3	34	34	38.8	38.8	46.3	46.3	46.3	57	57
D	mm	404	430	477	477	600	600	767	767	935	935	935	1025	1025
	Inch	15.9	16.9	18.8	18.8	23.6	23.6	30.2	30.2	36.8	36.8	36.8	40.4	40.4
D1	mm	130	158	158	158	238	238	218	218	345	345	345	234	234
	Inch	5.1	6.2	6.2	6.2	9.4	9.4	8.6	8.6	13.6	13.6	13.6	9.2	9.2
W1	mm	130	148	148	148	238	238	218	218	345	345	345	234	234
	Inch	5.1	5.8	5.8	5.8	9.4	9.4	8.6	8.6	13.6	13.6	13.6	9.2	9.2
ΦA	mm	299	387	470	470	594	594	750	750	910	910	910	1025	1025
	Inch	11.8	15.2	18.5	18.5	23.4	23.4	29.5	29.5	35.8	35.8	35.8	40.4	40.4
ΦB	mm	52	55	55	55	90	90	90	90	116	116	116	161	161
	Inch	2.0	2.2	2.2	2.2	3.5	3.5	3.5	3.5	4.1	4.1	4.1	6.3	6.3
Net Weight	kg	35	40	45	75	85	95	100	120	165	170	240	360	400
	lb	77	88	99	165	187	209	220	265	364	375	529	794	882

Notes: 1) Above loading capacity is based on pellet material of 0.65kg/L(5.5lb/gal) in bulk density and 3~5mm(0.1~0.2inch) in diameter.
 2) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



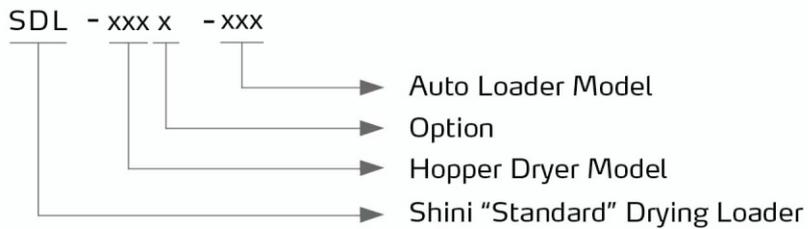
"Standard" Drying Loader

SDL-100-700G



Refer carefully to the manual before operation.

■ Coding Principle

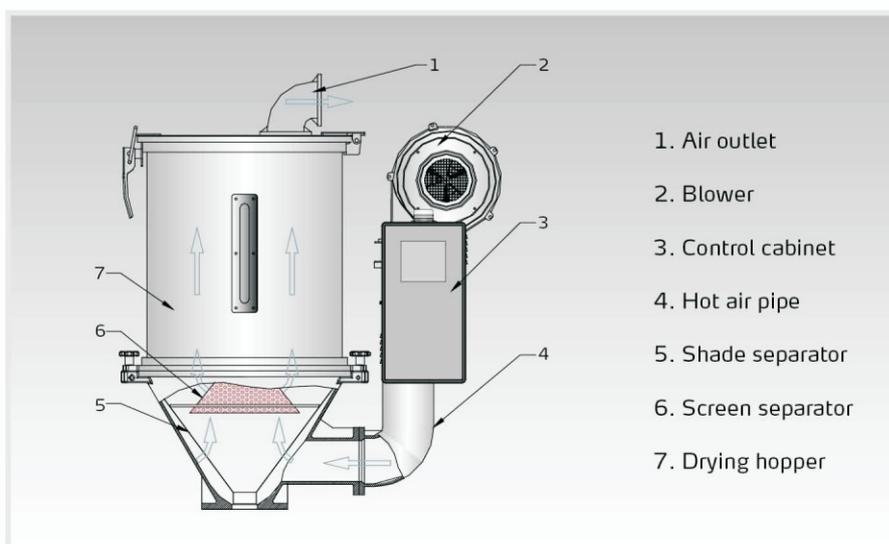


SDL-200-810G

■ Features

- Integrate material drying and conveying function into portable unit .
- All material contact surfaces are made of stainless steel to eliminate material contamination.
- Single tube suction box is standard accessory.
- All Series are equipped with standard base.
- Overheat tripping can automatically cut off power when drying temperature exceeds set deviation value.
- Adopts heat-insulated blower for better blower lifespan.
- All models adopt microcomputer control and RS485 communication port .

■ Working Principle

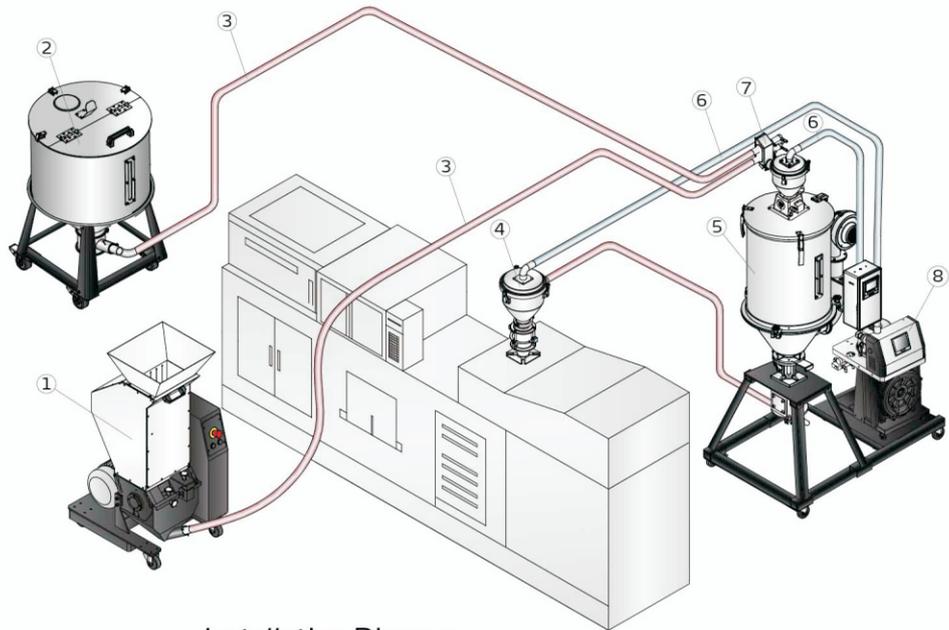


SDL Series

Application

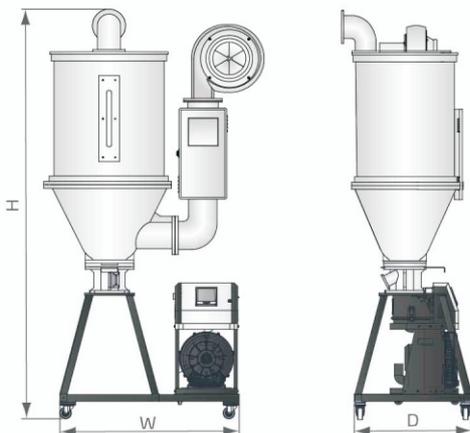
SDL "Standard" Drying Loader integrates drying and conveying, which can move freely to meet practical production conveniently. It is suitable for drying most un-hygroscopic plastics, such as PS, PP, ABS, etc., so as to achieve materials auto feeding and save labor costs.

1. Low-speed granulator
2. Material storage tank
3. Material pipe
4. Photosensor hopper receiver SVH
5. Hopper dryer
6. Vacuum pipe
7. Proportional valve
8. Main vacuum unit



Installation Diagram

Outline Drawings



To work with



Options

- For models with hopper polished inside, add "P" at the end of the model code.
- The high temp. model can reach the max. temp. of 180°C, and add "H" at the end of the model code.



■ Specifications

Model	Dryer model	Loader model	Hopper receiver model	Conveying capacity (kg/hr)	Receiver capacity(L)	Dimension(mm) H × W × D	Weight (kg)
SDL-25-700G	SHD-25E	SAL-700G	1 × SVH-6L	300	6	1742×1079×708	95
SDL-25-810G	SHD-25E	SAL-810G					
SDL-25-910G	SHD-25E	SAL-910G					
SDL-50-700G	SHD-50E	SAL-700G	1 × SVH-6L	300	6	1865×1079×708	110
SDL-50-810G	SHD-50E	SAL-810G					
SDL-50-910G	SHD-50E	SAL-910G					
SDL-75-700G	SHD-75E	SAL-700G	1 × SVH-6L	300	6	2065×1079×708	115
SDL-75-810G	SHD-75E	SAL-810G					
SDL-75-910G	SHD-75E	SAL-910G					
SDL-100-700G	SHD-100E	SAL-700G	1 × SVH-6L	300	6	2074×1079×708	115
SDL-100-810G	SHD-100E	SAL-810G					
SDL-100-910G	SHD-100E	SAL-910G					
SDL-150-700G	SHD-150E	SAL-700G	1 × SVH-6L	300	6	2394×1079×708	160
SDL-150-810G	SHD-150E	SAL-810G					
SDL-150-910G	SHD-150E	SAL-910G					
SDL-200-810G	SHD-200E	SAL-810G	1 × SVH-6L	300	6	2536×1140×840	210
SDL-200-910G	SHD-200E	SAL-910G	1 × SVH-6L 1 × SMH-6L	450	2 × 6		
SDL-300-810G	SHD-300E	SAL-810G	1 × SVH-6L	300	6	2956×1140×840	220
SDL-300-910G	SHD-300E	SAL-910G	1 × SVH-6L 1 × SMH-6L	450	2 × 6		
SDL-400-820G	SHD-400E	SAL-820G	1 × SVH-12L	400	12	2635×1240×1020	285
SDL-400-920G	SHD-400E	SAL-920G	1 × SVH-12L 1 × SMH-12L	700	2 × 12		

We reserve the right to change specifications without prior notice.

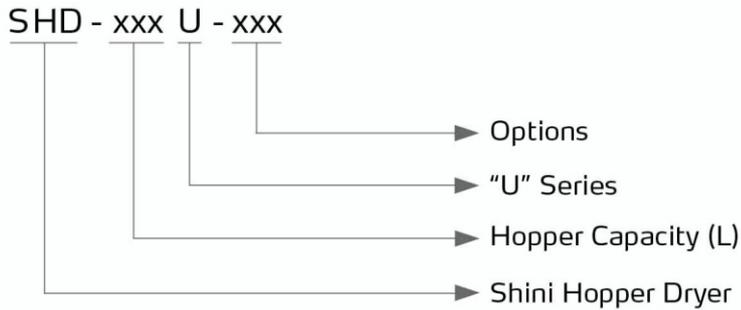
Hopper Dryer

SHD-300U



Refer carefully to the manual before operation.

■ Coding Principle

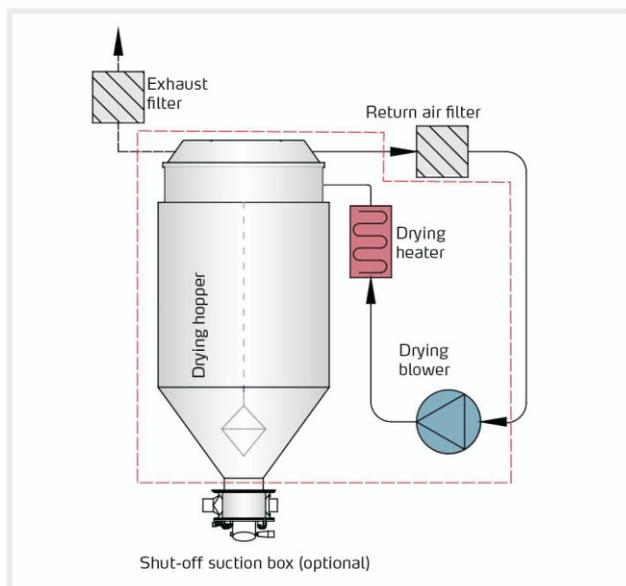


SHD-80U-HD
& Floor Stand (optional)

■ Features

- Adopt P.I.D temperature control and LCD display, with RS485 communication function.
- Overheat protection to ensure reliable operation.
- 7-day Timer.
- Unique design of down-blow air pipe can spread hot air evenly, keeping plastics dry and temperature stable to raise drying efficiency.
- SHD-80U and models above have hopper maintenance door for easy and effective maintenance.
- SHD-450U and below models are equipped with standard aluminum base.
- SHD-600U-750U is equipped with aluminium magnetic base. SHD-900U and model above are equipped with manual butterfly valve.
- For SHD-900U models and above, floor stand is standard accessory.
- Double-layer insulation structure ensures uniform temperature with less heat loss.
- All material contact surfaces are made of stainless steel to eliminate material contamination.

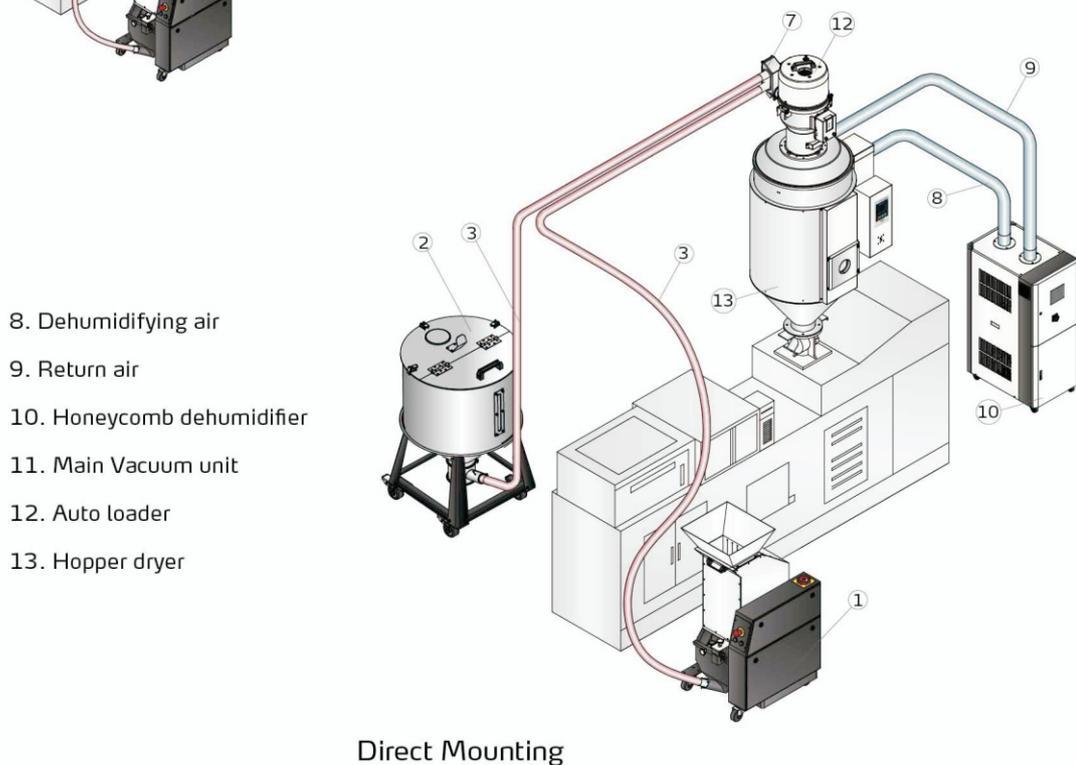
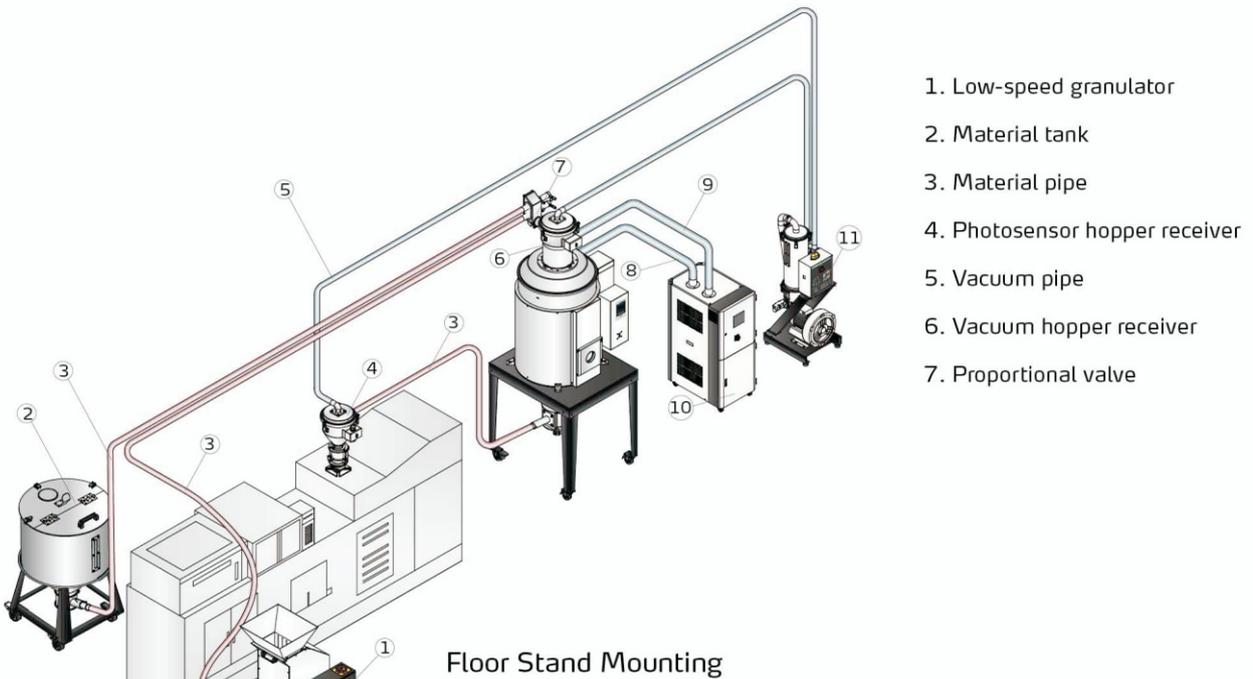
■ Working Principle



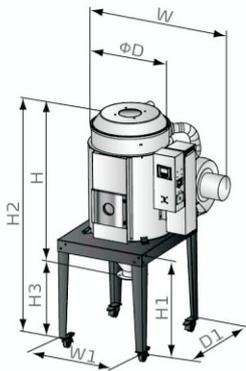
SHD-U Series

Application

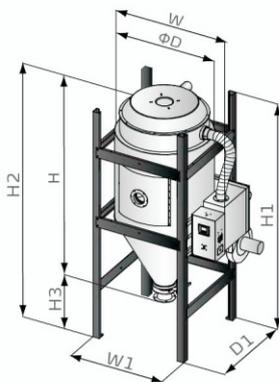
SHD-U hopper dryer can efficiently dry most of standard hygroscopic plastics as to ensure high quality molding products. The concise structure makes it easy to mount on the IMM, and the drying hopper can also be directly mounted on the floor with the floor stand. Besides, there are multiple optional accessories to meet different production demands, such as hot air recycler, magnetic base and maintenance ladder etc.



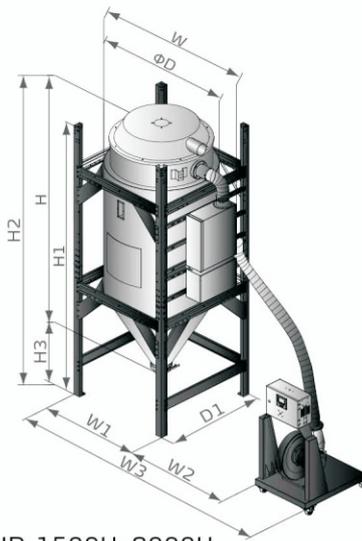
Outline Drawings



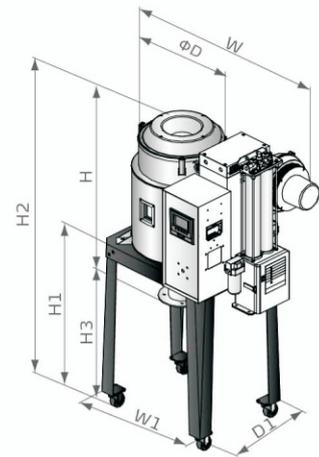
SHD-20U-750U



SHD-900U-1200U



SHD-1500U-8000U



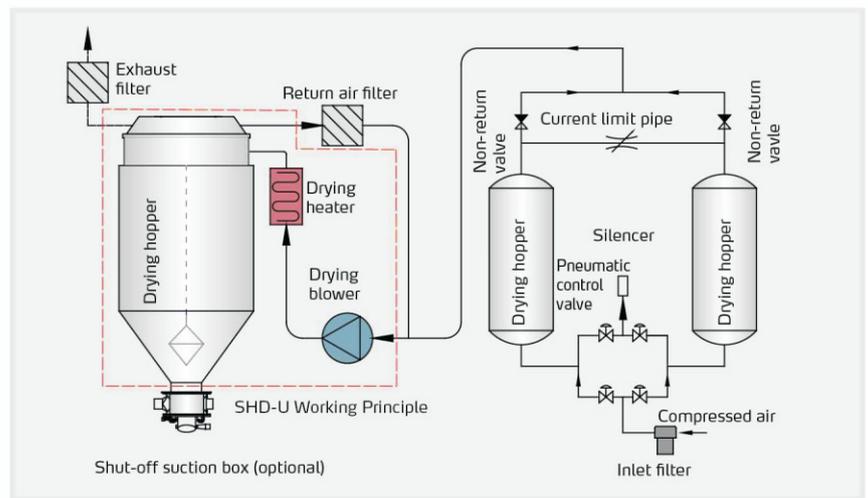
SHD-U-HD

Options



Safety Ladder

Optional safety ladder for SHD-1500U and above, and add "ML" at the end of the model code.



SHD-U-HD Working Principle

- Optionally equipped with heatless regenerative air dryer, which could offer low dew point air at room temperature and speed up the drying of material, Add "HD" at the end of the mode code.
- For models with hopper polished inside, add "P" at the end of the mode code.

SHD-U Series

Specifications

Model	SHD-	20U	40U (+HD)	80U (+HD)	120U (+HD)	230U (+HD)	160U	230U	300U	450U	600U	750U	900U	1200U	1500U	2000U	2500U	3000U	3500U	4000U	5000U	6000U	7000U	8000U	
Heater (kW)		2.2	3	3.9	3.9	6	6	6	12	12	18	18	18	24	32	32	58	58	64	64	80	96	115	128	
Blower(kW)		0.05	0.12	0.12	0.12	0.12	0.12	0.12	0.18	0.18	0.55	0.55	0.55	1.1	3.7	3.7	5.5	5.5	7.5	7.5	11	15	18.5	22	
Hopper Capacity	L	20	40	80	120	230	160	230	300	450	600	750	900	1200	1500	2000	2500	3000	3500	4000	5000	6000	7000	8000	
	gal	5.3	10.6	21	31.7	60.8	42.3	60.8	79.3	118.9	158.5	198	237.8	317	396	528	660	793	925	1057	1321	1585	1849	2113	
Dimension	H	mm	680	770	940	1190	1470	1200	1470	1430	1840	1830	2080	2330	2765	3095	3685	3735	4135	4535	4180	4775	4520	5460	6030
		Inch	26.8	30.3	37	46.9	57.9	47.2	57.9	56.3	72.4	72	81.9	91.7	109	122	145	147	163	179	165	188	178	215	237
	W	mm	575	770	860	860	875	875	875	1005	1005	1250	1250	1410	1410	1640	1542	1798	1798	1798	2010	2010	2250	2250	2250
		Inch	22.6	30.3	33.9	33.9	34.4	34.4	34.4	39.6	39.6	49.2	49.2	55.5	55.5	64.6	60.7	70.8	70.8	70.8	79	79	88.6	88.6	88.6
	D	mm	325	394	472	472	575	575	575	695	695	915	915	1050	1050	1250	1250	1400	1400	1400	1600	1600	1800	1800	1800
		Inch	12.8	15.5	18.6	18.6	22.6	22.6	22.6	27.4	27.4	36	36	41.3	41.3	49.2	49.2	55	55	55	63	63	71	71	71
Floor Stand	H1	mm	790	790	840	840	920	920	920	970	970	1130	1130	2760	2990	3470	3870	4000	4400	4800	4550	5150	4870	5805	5620
		Inch	31	31	33	33	36.2	36.2	36.2	38	38	44.5	44.5	109	118	137	152	157	173	189	179	203	192	228	221
	W1	mm	450	580	730	730	652	652	652	790	790	1000	1000	1145	1145	1340	1340	1482	1482	1482	1680	1680	1930	1930	1930
		Inch	17.7	22.8	28.7	28.7	25.7	25.7	25.7	31	31	39.4	39.4	45	45	52.8	52.8	58.3	58.3	58.3	66	66	76	76	76
	W2	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	400	400	400	400	400	400	400	400	400	400
		Inch	-	-	-	-	-	-	-	-	-	-	-	-	-	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
	W3	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	2000	2000	2260	2260	2260	2460	2530	2780	2830	2830
		Inch	-	-	-	-	-	-	-	-	-	-	-	-	-	78.7	78.7	89	89	89	96.9	99.6	109.4	111.4	111.4
	D1	mm	550	450	560	560	798	795	795	930	930	1200	1200	1145	1145	1340	1340	1482	1482	1482	1680	1680	1930	1930	1930
		Inch	21.7	17.7	22	22	31.4	31.3	31.3	36.6	36.6	47.2	47.2	45	45	52.8	52.8	58.3	58.3	58.3	66	66	76	76	76
	H2	mm	1260	1300	1480	1740	2150	1825	2105	2085	2435	2470	2780	2765	3190	3470	3870	4000	4400	4800	4635	5235	4923	5840	6425
		Inch	49.6	51	58.3	68.5	82	71.9	82.9	82	96	97.2	109	108.8	125.6	136.6	152.4	157.5	173	189	182.5	206	193.8	230	253
H3	mm	570	540	550	550	570	570	570	550	550	605	605	425	425	360	360	295	295	295	405	390	350	380	390	
	Inch	22.4	21.3	21.7	21.7	22.4	22.4	22.4	21.7	21.7	23.8	23.8	16.7	16.7	14.2	14.2	11.6	11.6	11.6	15.9	15.4	13.8	15	15.4	
Air Inlet Pipe (inch)		2		2.5				3					4		5		8				8			10	
Air Outlet Pipe (inch)		1.5		2				2.5					4		5		8				8			10	
Net Weight	kg	40	70	85	100	115	90	100	130	160	200	220	410	560	685	770	800	900	1010	1160	1390	1530	1735	1820	
	lb	88	154	187	220	253	198	220	287	353	441	485	904	1235	1510	1698	1764	1984	2227	2557	3064	3373	3825	4012	

Notes: 1) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

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Drying Loader

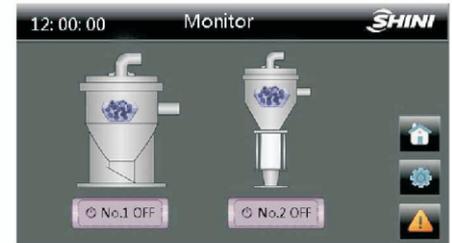
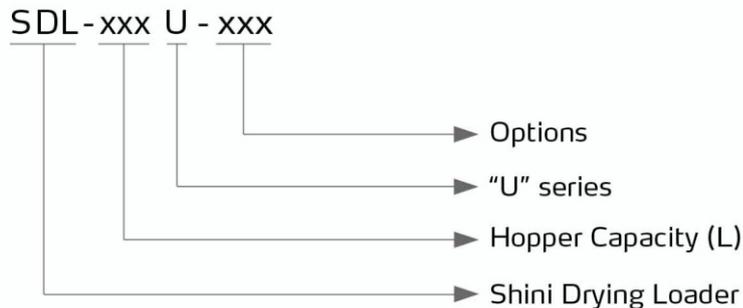
SDL-300U



Refer carefully to the manual before operation.

SDL-U Series

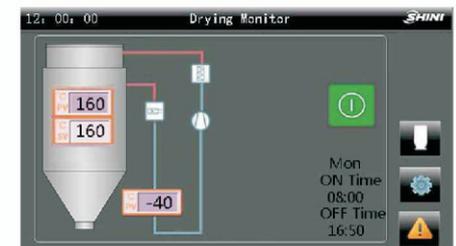
■ Coding Principle



Loading Control

■ Features

- SDL -U integrates two-stage conveying and drying into one unit.
- Microcomputer and P.I.D. control system can accurately control the drying temperature.
- Portable design with standard footprint.
- Material contacted surfaces are made of stainless steel to ensure that materials are free from contamination.
- Full-function alarm system that can immediately respond to error.
- Standard hot air recycler reduces energy consumption without hot air and dust being discharged for cooler and cleaner working space.
- Standard material shut-off suction box formed hermetic cycle loop, to avoid material moisture regain due to ambient air, and ensure that there is no material residue in the pipe.
- Double-layer heat insulation hopper ensures uniform temperature and less heat loss.
- Weekly timer function
- Highest drying temperature of 160°C.
- Touchable HMI that for easy operation and study.



Drying Control



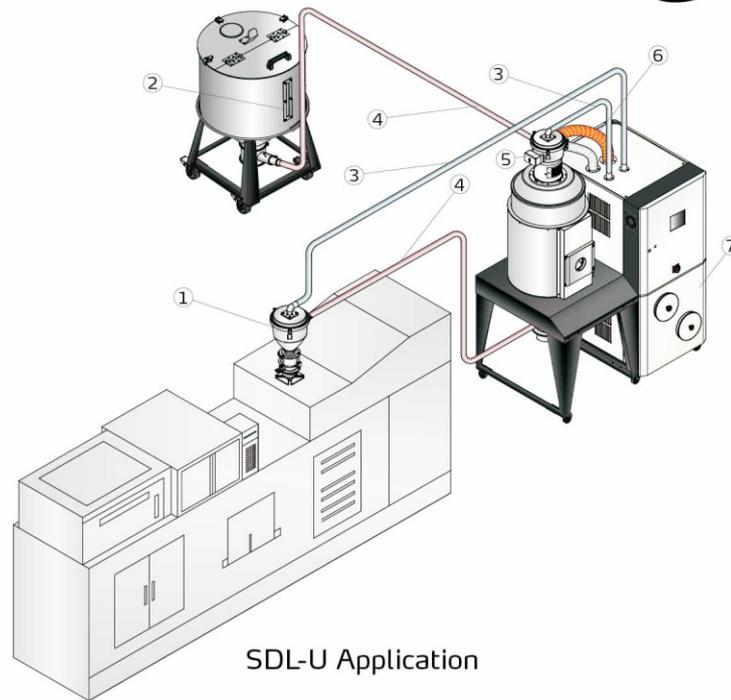
SDL-230U-HD

■ Application

SDL-U drying loader integrates two-stage conveying and drying into single unit, which can efficiently dry most of standard hygroscopic plastics, such as PS, PP, and other plastics. The two-stage conveying can realize fully automatic conveying materials from storage tank to drying hopper, and from drying hopper to the IMM, which reduces men power and avoids contamination. SDL-U-HD drying loader is composed of the SDL-U and optional HAD twin tower compress air dryer to achieve better drying result than ordinary dryers. The weekly timer can reserve working hours in advance that is especially suitable for pre-drying occasions, which is applicable to pre-dry materials before IMM start as to increase productivity.

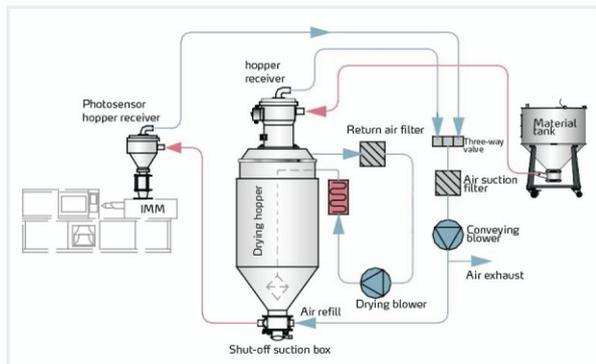
Application

1. Photosensor hopper receiver
2. Material storage tank
3. Vacuum pipe
4. Material pipe
5. Vacuum hopper receiver
6. Return air
7. SDL-U

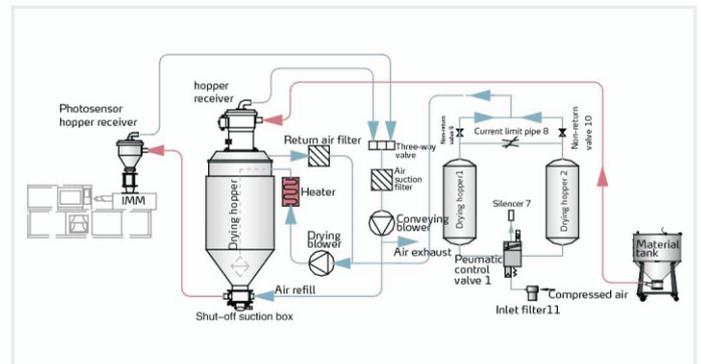


SDL-U Application

Working Principle



SDL-U Working Principle



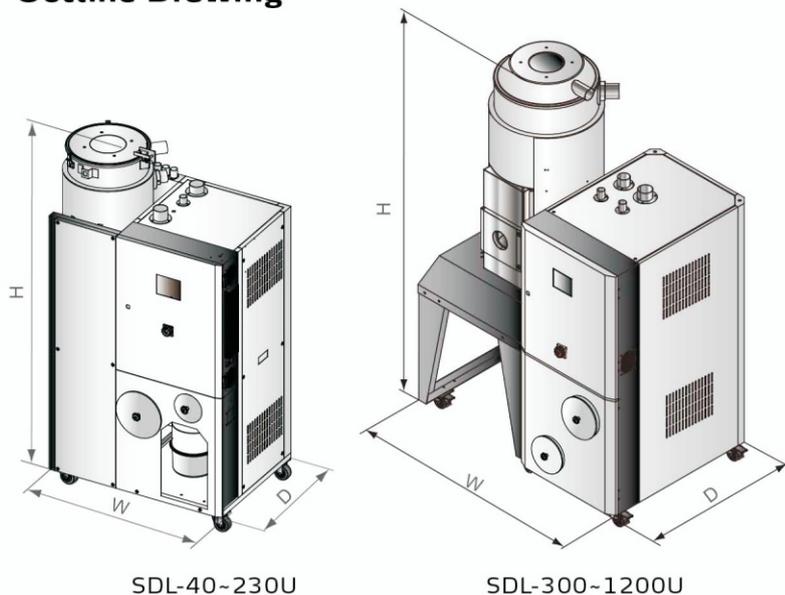
SDL-U-HD Working Principle

Options

- Optional heatless regenerative air dryer, which could offer low dew point air at room temperature and speed up the drying of material, add "HD" at the end of the mode code.
- For models with hopper polished inside, add "P" at the end of the mode code.

SDL-U Series

Outline Drawing



Hopper



SHR-U



SVH

Specifications

Model	SDL-	40U (-HD)	80U (-HD)	120U (-HD)	160U (-HD)	230U (-HD)	300U (-HD)	450U (-HD)	600U (-HD)	750U (-HD)	900U (-HD)	1200U (-HD)	
Drying Blower (kW, 50/60Hz)		0.12/0.14	0.12/0.14	0.12/0.14	0.12/0.20	0.12/0.20	0.18/0.28	0.18/0.28	0.55/0.63	0.55/0.63	0.55/0.63	1.1/1.25	
Conveying Blower (kW, 50/60Hz)		1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	3.75/4.7	3.75/4.7	
Heater (kW)		3	3.9	3.9	6	6	12	12	18	18	18	24	
Compressed air flow (m ³ /min)		0.1	0.23	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.3	
Air Inlet Pipe (inch)		2	2	2.5	3	3	3	3	4	4	4	4	
Air Return Pipe (inch)		2	2	2.5	2.5	2.5	2.5	2.5	3	3	4	4	
Material Pipe (inch)		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2	
Drying Hopper Capacity	L	40	80	120	160	230	300	450	600	750	900	1200	
	gal	10.6	21	31.7	42.3	60.8	79.3	118.9	158.5	198	237.8	317	
SVH-L Hopper	L	3	6	6	6	12	12	12	12	12	24	24	
	gal	0.79	1.59	1.59	1.59	3.17	3.17	3.17	3.17	3.17	6.34	6.34	
SHR-U Hopper	L	3	6	6	6	12	12	12	12	12	24	24	
	gal	0.79	1.59	1.59	1.59	3.17	3.17	3.17	3.17	3.17	6.34	6.34	
Dimension	W	mm	1081	1097	1159	1159	1159	1400	1400	1960	1960	1960	1960
		Inch	42.6	43.2	45.6	45.6	45.6	55.1	55.1	77.1	77.1	77.1	77.1
	D	mm	841	841	841	841	841	1000	1000	1450	1450	1450	1450
		Inch	33.1	33.1	33.1	33.1	33.1	39.4	39.4	57.1	57.1	57.1	57.1
	H	mm	1685	1771	1957	2102	2102	2020	2420	2450	2720	2610	3030
		Inch	66.3	69.7	77	82.8	82.8	79.5	95.3	96.5	107	102.8	119.3
Weight	kg	120	130	195	215	240	310	350	435	500	550	600	
	lb	265	287	430	474	529	683	772	959	1,102	1,213	1323	

Notes: 1) Compressed air pressure suggested: 4~6kg/fcm²;
The compressed air pressure is ≥6kg/fcm² with option of 'HD'.
2) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.

Accessories



Refer carefully to the manual before operation.

Accessories



Air Filter

Effectively filters up to 99% of dust contained air discharged from the dryer to avoid air contamination.

Model	Hopper diameter	Overall height	Applied to	mount size	
				A	B
ADC-1	145mm/ 5.7"	656mm/ 25.8"	SEHD-12	Ø65	4xØ7EQS
ADC-2	205mm/ 8.1"	728mm/ 28.5"	SEHD-25-150	Ø95	4xM6EQS
ADC-3	146mm/ 5.7"	1024mm/ 40.3"	SEHD-200-1000	Ø160	4xM6.5EQS

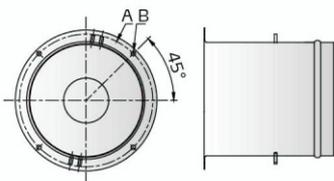
Hopper Magnet

Attract metal fragment in the material to avoid damaging the equipment.



Model	Aluminum Holder x2 (mm/inch)
MR-5	(148x80x2.3) mm (5.8x3.1x0.1) inch
MR-7	(190x80x2.3) mm (7.5x3.1x0.1) inch
MR-9	(240x80x2.3) mm (9.4x3.1x0.1) inch

Blower Inlet Filter



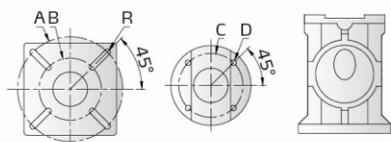
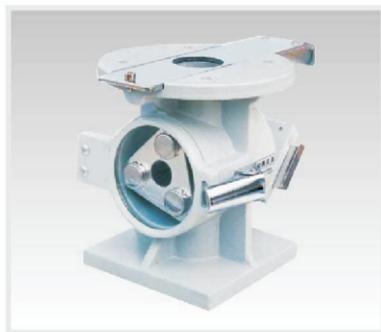
Model	Hopper diameter	Overall height	Applied to	mount size	
				A	B
AIF-12	157mm /6.2"	195mm /7.7"	SEHD-12	Ø165	4xØ7EQS
AIF-25	157mm /6.2"	195mm /7.7"	SEHD-25	Ø174.5	4xØ7EQS
AIF-50	177mm /7.0"	201mm /7.9"	SEHD-50/75	Ø207	4xØ7EQS
AIF-100	219mm /8.6"	191mm /7.5"	SEHD-100/150	Ø244	6xØ7EQS
AIF-200	249mm /9.8"	268mm /10.6"	SEHD-200-300	Ø283	6xØ7EQS
AIF-600	221mm /9.0"	380mm /15.0"	SEHD-400-600	Ø255	6xØ7EQS
AIF-800	221mm /9.0"	380mm /15.0"	SEHD-800-1000	Ø255	6xØ7EQS

Notes: refill air input of the blower is adjustable.

Magnetic Base

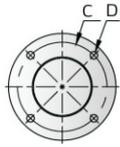
Optional with hopper magnet, it can effectively attract metal fragment in the material, which avoids material contamination and damaging the equipments (SEHD-200 and above models are standard equipped with the magnetic base).

Note: For stainless steel models, add "U" at the end of the model code.

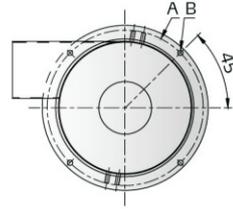


Model	Applied to	Magnetic Frame	Overall height (mm/inch)	Aluminum Holderx2 (mm/inch)	mount size	
					C	D
MB-12	SEHD-12 SHD-20U	MR-3	193/7.6	88.5x78x2.3/ 3.5x3.0x0.09	Ø140	4xØ9EQS
MB-20U	SHD-20U		193/7.6		Ø140	4xØ9EQS
MB-50	SEHD-25-75 SHD-40U-120U		231/9.1		Ø140	4xØ9EQS
MB-40U	SHD-40U-120U		283/11.1		Ø140	4xØ9EQS
MB-100	SEHD-100-300 SHD-160U-450U		193/7.6	119x105x2.3/ 4.7x4.1x0.09	Ø212	4xØ11EQS
MB-160U	SHD-160U-450U		193/7.6		Ø210	4xØ11EQS
MB-400	SEHD-400-600		231/9.1	147x130x2.3/ 5.8x5.1x0.09	Ø260	4xØ13EQS
MB-600U	SHD-600U-750U		288/11.3		Ø260	4xØ13EQS

Hot Air Recycler



exhaust pipe
mount size



blower mount size

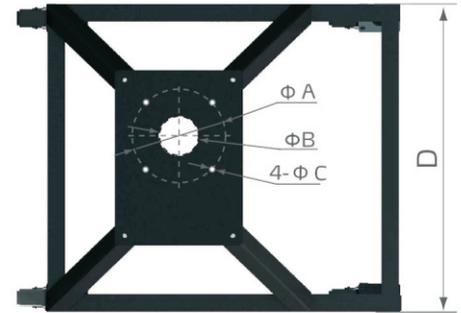
Work with SEHD hopper dryer to make the hot air form a semi-closed circulated loop and has features as follows:

- 1) Hot air recycling and reduction of hot air discharge
- 2) Avoid air contamination of production and ensure clean air intake.
- 3) Lower energy consumption by 40%.

Model	Filtering Barrel Dia. (mm/inch)	Inlet Air Pipe Dia. (inch)	Flange of Air Outlet (inch)	Applied to	mount size			
					A	B	C	D
HAR-12	157/6.2	2		SEHD-12	Ø165	4×Ø7EQS	Ø65	4×Ø7EQS
HAR-25EH	157/6.2	2.5		SEHD-25	Ø174.5	4×Ø7EQS	Ø95	4×Ø7EQS
HAR-50EH	175/6.9	3		SEHD-50/75	Ø207	4×Ø7EQS	Ø95	4×Ø7EQS
HAR-100EH	219/8.6	3		SEHD-100/150	Ø244	4×Ø7EQS	Ø95	4×Ø7EQS
HAR-200EH	245/9.6	4		SEHD-200-300	Ø283	6×Ø6EQS	Ø160	4×Ø8EQS
HAR-600EH	245/9.6	4		SEHD-400-600	Ø283	6×Ø6EQS	Ø160	4×Ø8EQS
HAR-800	245/9.6	4		SEHD-800-1000	Ø283	6×Ø6EQS	Ø160	4×Ø8EQS

N-Type Floor Stand

With which machines can be easily moved out of workplace which is suitable for the factories with height limited workshops and also it can make operations more convenient. The N-type floor stand can replace any machine that is applicable to the SEHD series.



Model	Applied to	Dimension H×W×D (mm/inch)	A / B / C (mm/inch)
FSN-50	SEHD-12-75	600×700×640 / 23.6×27.6×25	140 / 54 / 9 5.5 / 2.1 / 0.4
FSN-100	SEHD-100/150	615×800×710 / 24.2×31.5×28	210 / 90 / 11 8.3 / 3.5 / 0.43
FSN-200	SEHD-200/300	680×1000×840 / 26.8×39.4×33	210 / 90 / 11 8.3 / 3.5 / 0.43
FSN-400	SEHD-400-600	700×1200×1010 / 27.6×47.2×39.8	260 / 116 / 13 10.2 / 4.6 / 0.5
FSN-800	SEHD-800/1000	700×1600×1180 / 27.6×63×46.5	260 / 116 / 13 10.2 / 4.6 / 0.5

Floor Stand

Convert dryers into portable unit or work with a height limitation workshop.
Applicable to SHD-U series.



Applicable to SHD-20U-750U

Model	Applied to	Dimension					
		L		W		H	
		mm	inch	mm	inch	mm	inch
FSU-20	SHD-20U	550	21.7	450	17.7	790	31.1
FSU-40	SHD-40U	580	22.8	450	17.7	790	31.1
FSU-80	SHD-80U/120U	722	28.4	552	21.7	840	33
FSU-160	SHD-160U/230U	795	31.3	652	25.7	920	36.2
FSU-300	SHD-300U/450U	930	36.6	790	31.1	970	38.2
FSU-600	SHD-600U/750U	1200	47.2	1000	39.4	1130	44.5

Blower Inlet Filter

Effectively filters up to 80% of the dust from the air intake to the dryer contamination.



Model	Filter Barrel Dia.		Air Inlet Pipe Dia. (inch)	Air Outlet Pipe Dia. (inch)	Applied to	Blower Flange (with Air Quantity Adjustor)
	mm	Inch				
AIF-20U	127	5	1.5	2	SHD-20U	for 0.12kW Blower
AIF-40U	127	5	1.5	2	SHD-40U	for 0.12kW Blower
AIF-80U	225	8.9	2	3	SHD-80U/120U	for 0.12kW Blower
AIF-160U	225	8.9	2.5	3	SHD-160U/230U	for 0.12kW Blower
AIF-300U	225	8.9	2.5	4	SHD-300U/450U	for 0.18kW Blower
AIF-600U	225	8.9	3	4	SHD-600U/750U	for 0.55kW Blower
AIF-900U	225	8.9	4	4	SHD-900U	for 0.55kW Blower
AIF-1200U	225	8.9	4	4	SHD-1200U	for 1.1kW Blower
AIF-1500U	280	11	5	5	SHD-1500U/2000U	for 3.7kW Blower
AIF-2500U	340	13.4	8	8	SHD-2500U/3500U	for 5.5/7.5kW Blower
AIF-4000U	340	13.4	8	8	SHD-4000U/5000U	for 7.5/11kW Blower
AIF-6000U	420	16.5	8	8	SHD-6000U/7000U	for 15/18.5kW Blower
AIF-8000U	420	16.5	10	10	SHD-8000U	for 22kW Blower

Hot Air Recycler

It forms a semi-closed loop, which filters and recycles return hot air from drying hopper. It also reduces energy consumption up to 40%.



Model	Filter Barrel Dia.		Air Inlet Pipe Dia. (inch)	Air Outlet Pipe Dia. (inch)	Applied to	Blower Flange (with Air Quantity Adjustor)
	mm	inch				
HAR-20U	127	5	1.5	2	SHD-20U	for 0.12kW Blower
HAR-40U	127	5	1.5	2	SHD-40U	for 0.12kW Blower
HAR-80U	225	8.9	2	3	SHD-80U / 120U	for 0.12kW Blower
HAR-160U	225	8.9	2.5	3	SHD-160U / 230U	for 0.12kW Blower
HAR-300U	225	8.9	2.5	4	SHD-300U / 450U	for 0.18kW Blower
HAR-600U	225	8.9	3	4	SHD-600U / 750U	for 0.55kW Blower
HAR-900U	225	8.9	4	4	SHD-900U	for 0.55kW Blower
HAR-1200U	225	8.9	4	4	SHD-1200U	for 1.1kW Blower
HAR-1500U	280	11	5	5	SHD-1500U/2000U	for 3.7kW Blower
HAR-2500U	340	13.4	8	8	SHD-2500U/3500U	for 5.5/7.5kW Blower
HAR-4000U	340	13.4	8	8	SHD-4000U/5000U	for 7.5/11kW Blower
HAR-6000U	420	16.5	8	8	SHD-6000U/7000U	for 15/18.5kW Blower
HAR-8000U	420	16.5	10	10	SHD-8000U	for 22kW Blower

Exhaust Air Filter

Effectively filters up to 90% of the dust contained air discharge from the dryer to avoid contamination.



Model	Filter Barrel Dia.		Air Inlet Pipe Dia. (inch)	Air Outlet Pipe Dia. (inch)	Applied to
	mm	inch			
ADC-20U	127	5	1.5	2	SHD-20U
ADC-40U	127	5	1.5	2	SHD-40U
ADC-80U	225	8.9	2	3	SHD-80U/120U
ADC-160U	225	8.9	2.5	3	SHD-160U/230U
ADC-300U	225	8.9	2.5	4	SHD-300U/450U
ADC-600U	225	8.9	3	4	SHD-600U/750U
ADC-900U	225	8.9	4	4	SHD-900U/1200U
ADC-1500U	280	11	5	5	SHD-1500U/2000U
ADC-2500U	340	13.4	8	8	SHD-2500U/3500U
ADC-4000U	340	13.4	8	8	SHD-4000U/5000U
ADC-6000U	420	16.5	8	8	SHD-6000U/7000U
ADC-8000U	420	16.5	10	10	SHD-8000U



Cabinet Dryer

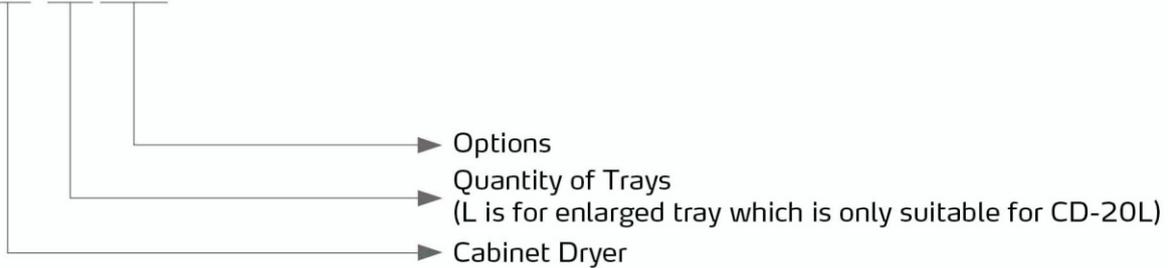
CD-9



Refer carefully to the manual before operation.

■ Coding Principle

CD-x x-x x



■ Features

- Accurate P.I.D. temperature control to achieve even drying effect.
- Air-proofed insulated door can maintain temperature constantly inside to reduce energy consumption.
- Stainless steel tray and liner to avoid contamination to materials.
- Unique design of adjustable air inlet and exhaust.
- 24 hours timer, easy to set the time for work.
- Overheat protection and motor overload protection .
- Visible alarm to indicate troubles immediately .



Temperature Controller

■ Application

CD series of cabinet dryers are mostly used for simultaneous drying of different kinds of polymers in small quantities or for drying materials for trial molding. They can also be applied in electronic engineering, electroplating, pharmacy, paint baking, printing industries, etc. for preheating or drying related products.



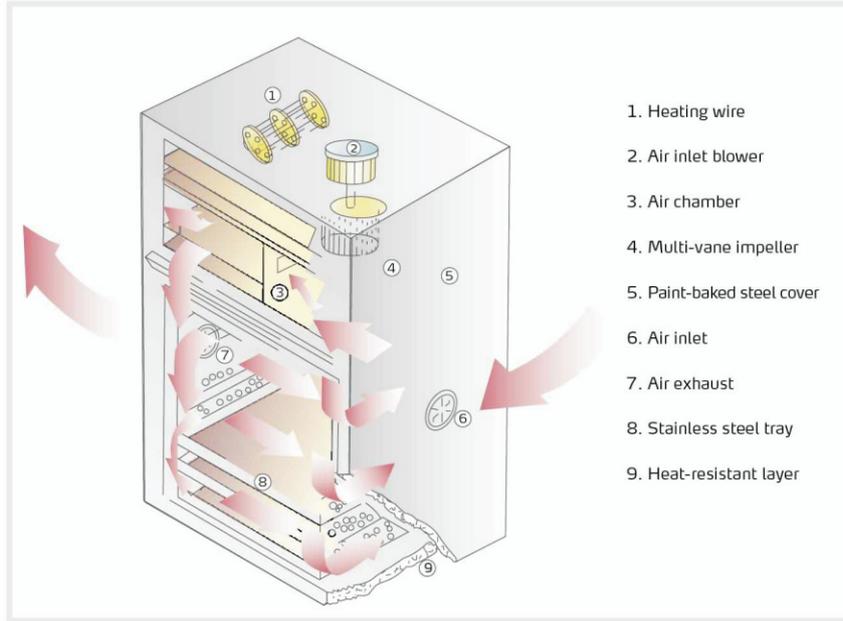
CD-20L

■ Options

- When drying the volatile materials, the air exhauster must be adopted. add "EAD" at the end of the model code.
- Flanges of air inlet and outlet are optional. Add "FL" at the end of the mode code.

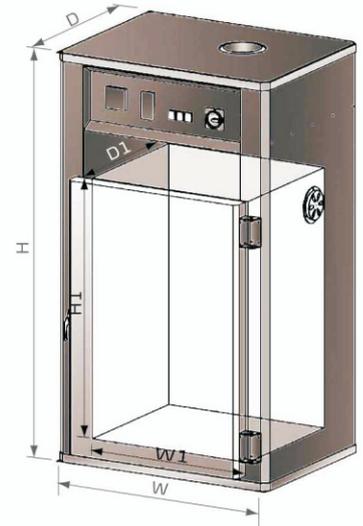
CD Series

Working Principle



1. Heating wire
2. Air inlet blower
3. Air chamber
4. Multi-vane impeller
5. Paint-baked steel cover
6. Air inlet
7. Air exhaust
8. Stainless steel tray
9. Heat-resistant layer

Outline Drawing



Specifications

Model		CD-5	CD-9	CD-20	CD-20L	CD-5-HT	CD-9-HT	CD-20-HT	CD-20L-HT	
Heater (kW)		4	4.5	9	18	4	4.5	9	18	
Blower(50/60Hz,kW)		0.37/0.55	0.37/0.55	1.5	1.5	0.37/0.55	0.55	1.5	1.5	
Highest Temp.	°C	200	200	200	200	250	250	250	250	
	°F	392	392	392	392	482	482	482	482	
Tray Quantity		5	9	20	20	5	9	20	20	
Total Capacity	kg	50	90	200	450	50	90	200	450	
	lb	110	198	441	992	110	198	441	992	
Outer Dimension	H	mm	1200	1440	1700	1865	1380	1640	1887	2052
		Inch	47.2	56.7	67	73.4	54.3	64.6	74.3	80.8
	W	mm	800	800	1210	1800	860	920	1310	1900
		Inch	31.5	31.5	47.6	70.9	33.9	36.2	51.6	74.8
D	mm	610	610	860	1060	731	731	1032	1232	
	Inch	24	24	33.9	41.7	28.8	28.8	40.6	48.5	
Inner Dimension	H1	mm	660	900	1000	1200	660	900	1000	1200
		Inch	26	35.4	39.4	47.2	26	35.4	39.4	47.2
	W1	mm	600	600	990	1600	600	600	990	1600
		Inch	23.6	23.6	39	63	23.6	23.6	39	63
	D1	mm	550	550	800	1000	550	550	800	1000
		Inch	21.7	21.7	31.5	39.4	21.7	21.7	31.5	39.4
Net Weight	kg	150	180	415	550	200	252	587	778	
	lb	331	397	915	1213	441	556	1294	1715	

Notes: 1) "HT" stands for heat insulation model, the surface temperature of which will not be more than 80°C/176°F when setup temperature is 250°C/482°F.

2) When drying temperature is below 150°C/302°F, "HT" models can keep internal temperature accuracy of ±5°C/±9°F, when it is above 150°C/302°F, internal temperature accuracy is ±12°C/21.6°F.

3) Above loading capacity is based on pellet material of 0.65kg/L(5.4lb/gal) in bulk density and 3-5mm(0.12-0.2inch) in diameter.

4) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.



Honeycomb Dehumidifier

SD-40H

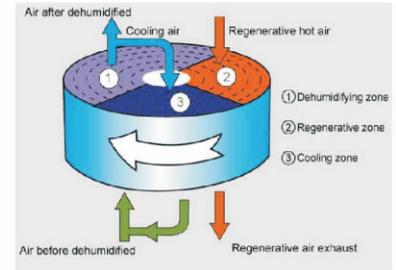
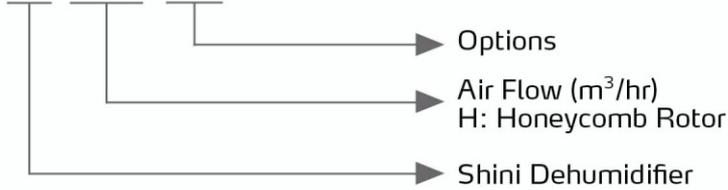


Refer carefully to the manual before operation.

SD-H Series

■ Coding Principle

SD-xxxH-xxx



Honeycomb Rotor Working Principle

■ Features

- Adopts P.I.D. temperature controller to accurately control regenerative temperature.
- The dehumidifying system of the SD-H series features coolers to ensure a low return air temperature and low dew-point.
- Inbuilt return air filter avoids of honeycomb contamination and ensures long service life.
- Adopt molecular sieve structure honeycomb, which provides low dew-point dry air and is superior to double-barrel dehumidifier that will contaminate raw material due to damaged molecular sieve.



Touch Control Panel

■ Application

SD-H honeycomb dehumidifier is mainly used to provide low dew point dry air, which can collocate with hopper dryer to process highly hygroscopic engineering plastics. This series of machines can reach an average dew point temperature of -40°C with right setup and maximum drying air volume can reach 4,000m³/hr. If some dry materials are volatile, they must use EOF filter.

■ Working Principle

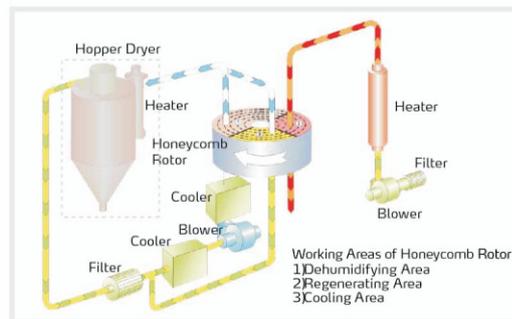


3D animation
(Tencent)



3D animation
(Youtube)

System Flow Chart

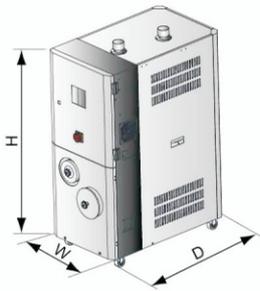


■ Options

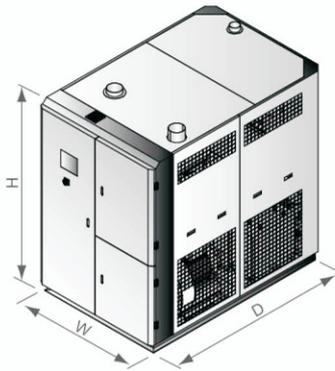
- Controllable drying heater is optional, add "C" at the end of the model code. (Only Applicable for SD-1000H~4000H, it has to work with the DH-U-PH)
- Inbuilt drying heater is optional, add "PHC" at the end of the model code. (Only applicable for SD-40H~700H)
- Intelligent airflow regulating function is optional, add "SM4", "SM8" at the end of the model code, in which the number behind SM depends on the quantity of collocated Modular Dryer. For example, if the quantity of Dryer is less than 4, select SM4 and so on. A touch panel is indispensable if this function is selected. This optional function should work with MHD-U Modular Hopper Dryer, please refer to the dehumidifying and drying modularization.

- For models with energy-saving drying management, add "ES" at model end, standard equipped with HMI touch control ,which can reduce 41% of total power consumption at most. Volume used per hour can be set between 40~100% of drying capacity to reduce 35%~0 of totally power consumption; Equipped with heat regenerating recycler which recycles the heat of exhausted air via plate heat exchanger and can reduce 3%~6% of total power consumption. Meanwhile, dew-point value can be set to automatically control the temperature required by regeneration, if optional with dew-point monitor, saving 0~10% power consumption according to dew-point ranging from -40°C to 10 °C.
- Optional air cooler instead of conventional water cooler method, it is suitable for a cool and dry ambient, Add "A" at the end of the model code. It is applicable for (SD-40H~120H).
- Upgraded to PLC & touch panel, add "LC" at the end of the model code.
- The optional built-in dew point monitor is available, which is used to monitor real-time dew point. Add "D" at the end of the model code.

Outline Drawings



SD-40H~700H



SD-1000H~2000H



SD-3000H~4000H

Specifications

Model	SD-	40H	80H	120H	200H	400H	700H	1000H	1500H	2000H	3000H	4000H	
Rege. Heater (kW)		3	3	4	4	7.2	10	15	30	28	32	56	
Rege. Blower (kW, 50/60Hz)		0.12/0.12	0.18/0.23	0.18/0.23	0.4/0.5	0.75/0.9	1.5/0.8	3.75/4.7	7.5/8.6	7.5/8.6	9/11	5.5×2/6.3×2	
Process Heater* (kW)		4	4	6	12	18	24	32	58	80	96	128	
Process Blower (kW, 50/60Hz)		0.18/0.2	0.75/0.9	0.75/0.9	1.5/1.8	3.75/4.5	7.5/8.6	13/16	11/11	13×2/15×2	13×3/15×3	13×4/15×4	
Drying Air Quantity (m ³ /hr, 50/60Hz)		40/47	80/95	120/130	200/220	400/450	700/780	1000/1150	1500/1750	2000/2300	3000/3400	4000/4500	
Pipe Dia. (inch)		2	2	2	2.5	3	4	5	8	8	8	12	
Cooling Water Flow Rate	L/min	5	10	15	30	50	80	120	180	240	360	480	
	gal/min	1.32	2.6	4	8	13.2	21	31.7	47.6	63.4	95	126.8	
Dimension	H	mm	1260	1360	1360	1560	1745	1935	2145	2060	2060	2240	2060
		inch	49.6	53.5	53.5	61.4	68.7	76.2	84.4	81.1	81.1	88.2	81.1
	W	mm	510	530	530	660	700	900	1300	1410	1410	2035	2750
		inch	20	20.9	20.9	26	27.6	35.4	51.2	55.5	55.5	80.1	108.3
D	mm	860	820	820	1050	1255	1380	1550	2150	2150	2160	2250	
	inch	33.9	32.3	32.3	41.3	49.4	54.3	61	84.6	84.6	85	88.6	
Weight	kg	145	170	170	265	330	480	700	1010	1300	1600	2200	
	lb	320	375	375	584	728	1058	1543	2227	2866	3527	4850	

Notes: 1) Plastic materials can be fully dried by drying air with dew-point temperature $\leq -20^{\circ}\text{C}$. We reserve the right to change specifications without prior notice.
 2) "*" Stands for optional drying heater, and add "PH" at the end of the model code.
 3) Power: 3 Φ , 230/400/460/575VAC, 50/60Hz.



"All-in-One" Compact Dryer

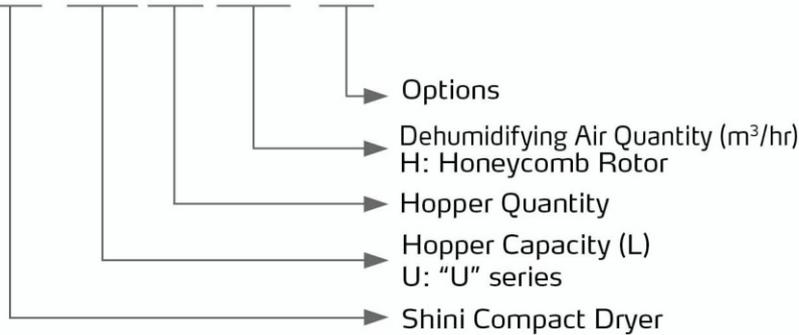
SCD-230U/120H



Refer carefully to the manual before operation.

■ Coding Principle

SCD- xxxU(x2)/xxxH - xxx



SCD-600U/400H-LC-D



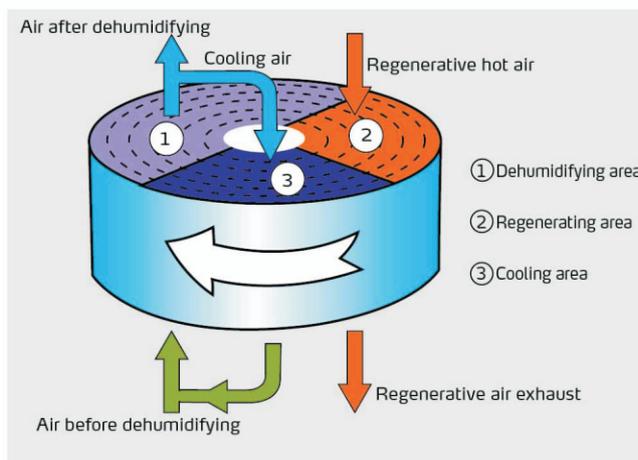
SCD-120U/80H-D-OP-M2

■ Features

- Combine the function of dehumidifying, drying and two-stage conveying into a single unit.
- Adopt molecular sieve structure honeycomb rotor, which provides low dew-point dry air. The honeycomb rotor structure is superior to double-barrel dehumidifier that will contaminate raw material due to damaged molecular sieve.
- Feeding system is equipped with shut-off valve to ensure no dry materials remain in the material line and avoid dry material from regaining moisture.
- Equipped with microprocessor to accurately control drying temperature.
- Insulation drying hopper adopts down blowpipe design and collocates with cyclone air exhaust to avoid heat lost and improve drying efficiency.
- SCD with two drying hoppers, the drying temperature of single hopper can be individually controlled. It mainly applied to two component molding machine, which can process dehumidifying and drying to two different drying materials.
- Equipped with weekly timer, machine can automatically operate.
- All new highly efficient drying hopper with 14~20% less floor space than the previous version (40U~230U model).



SCD-80Ux2/100H



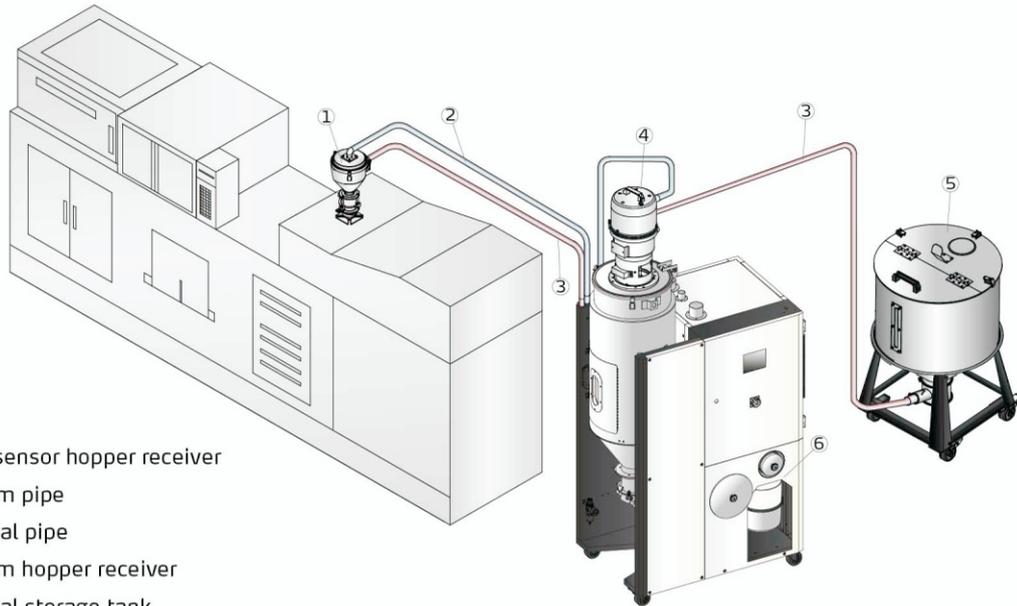
Honeycomb Rotor Working Principle



Touch Control Panel

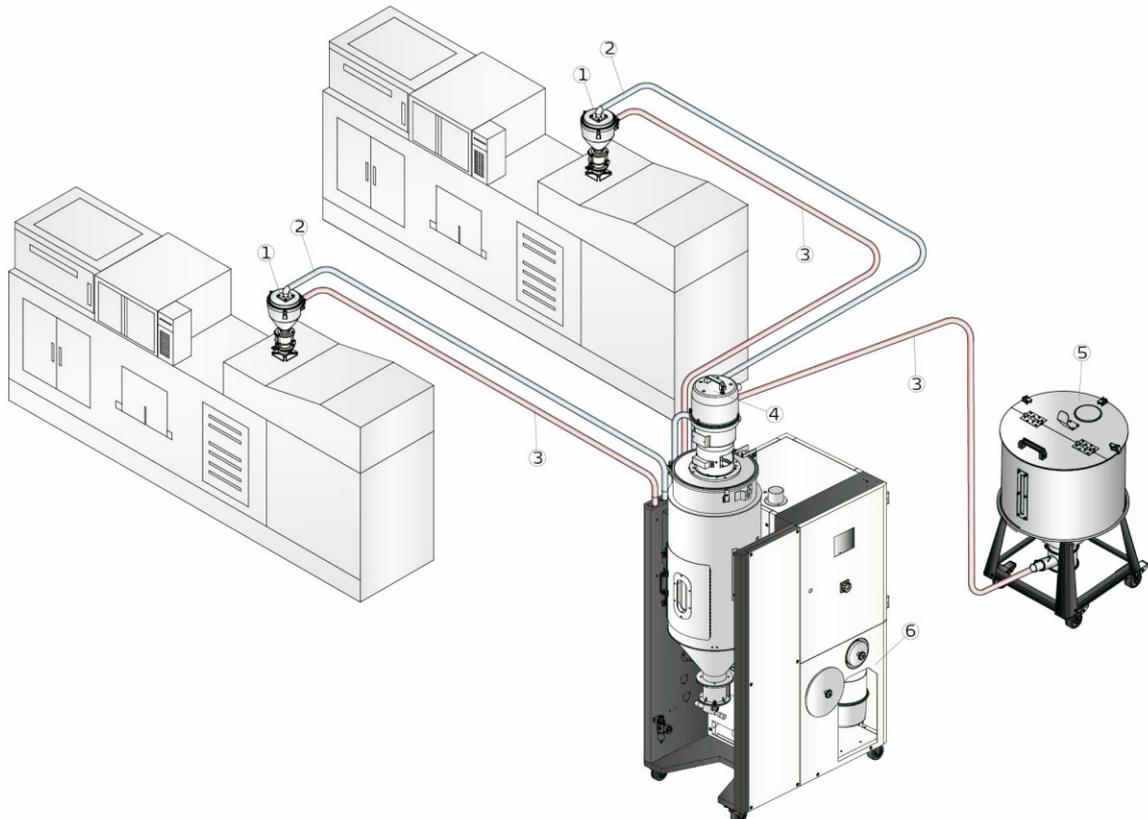
Application

SCD "All-in-One" portable compact dryers are mainly used for drying, dehumidifying, and conveying hygroscopic plastics, such as PET, PA, and PC etc. The one-to-one (for one set of IMM) or one-to-two (for two sets of IMMs) SCD compact dryers can be used according actual production demands. Besides, the double drying hoppers can be selected to meet the production demands of two component IMM. In addition, there're multiple options and accessories to meet various demands. If dry materials are volatile, it must use the EOF filter, such as PA.



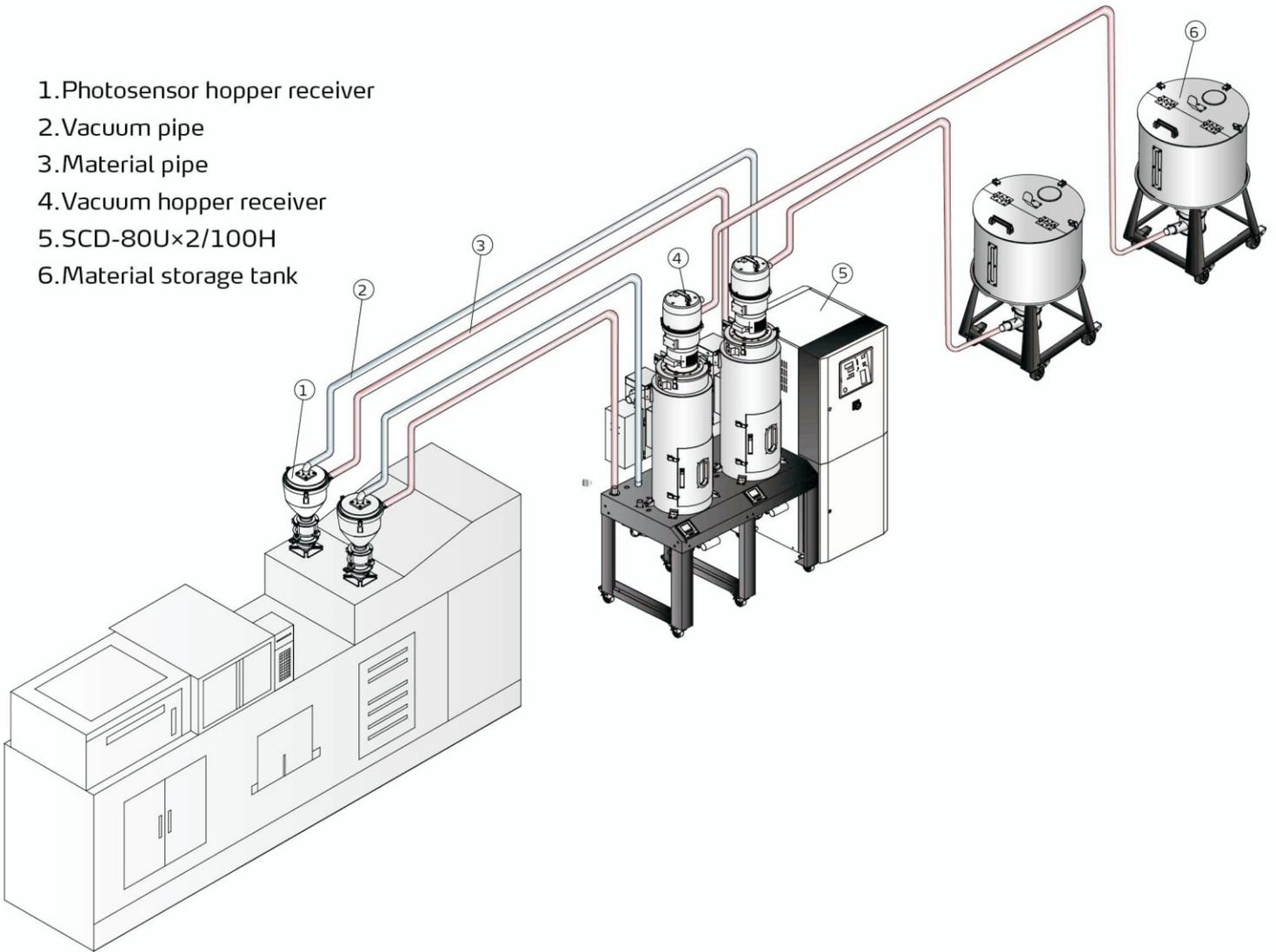
1. Photosensor hopper receiver
2. Vacuum pipe
3. Material pipe
4. Vacuum hopper receiver
5. Material storage tank
6. SCD Main unit

For Servicing One Machine: Two-stage Conveying System (Standard)



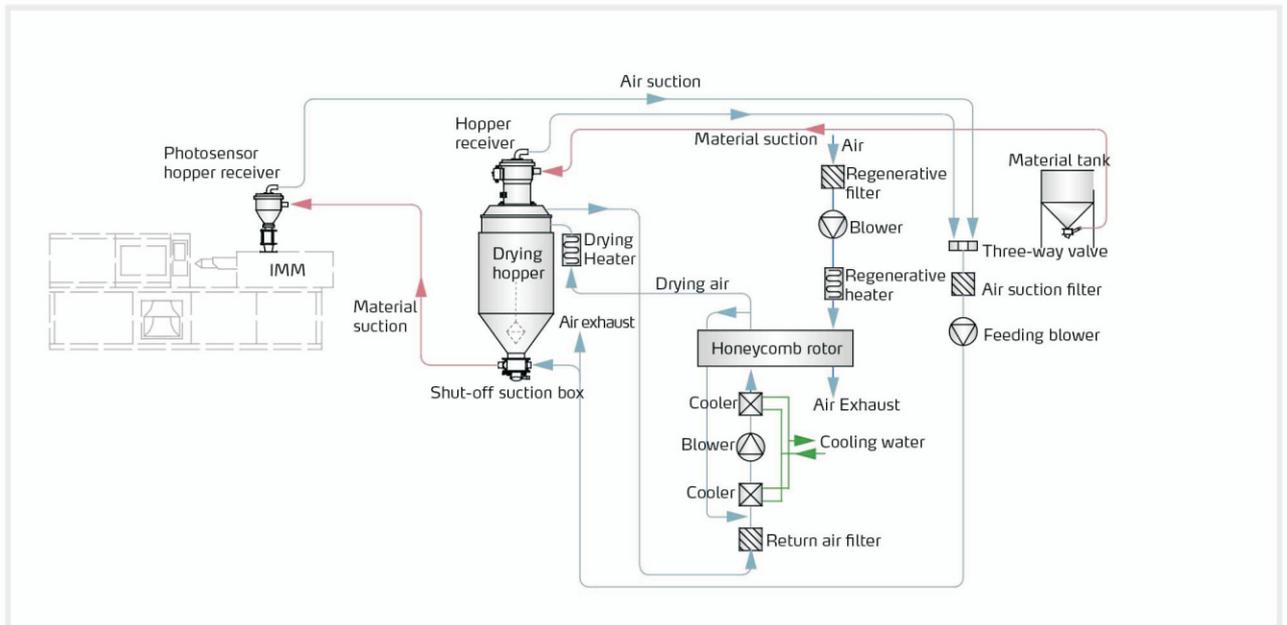
For Servicing Two Machines: Three-stage Conveying System (Optional)

1. Photosensor hopper receiver
2. Vacuum pipe
3. Material pipe
4. Vacuum hopper receiver
5. SCD-80U×2/100H
6. Material storage tank

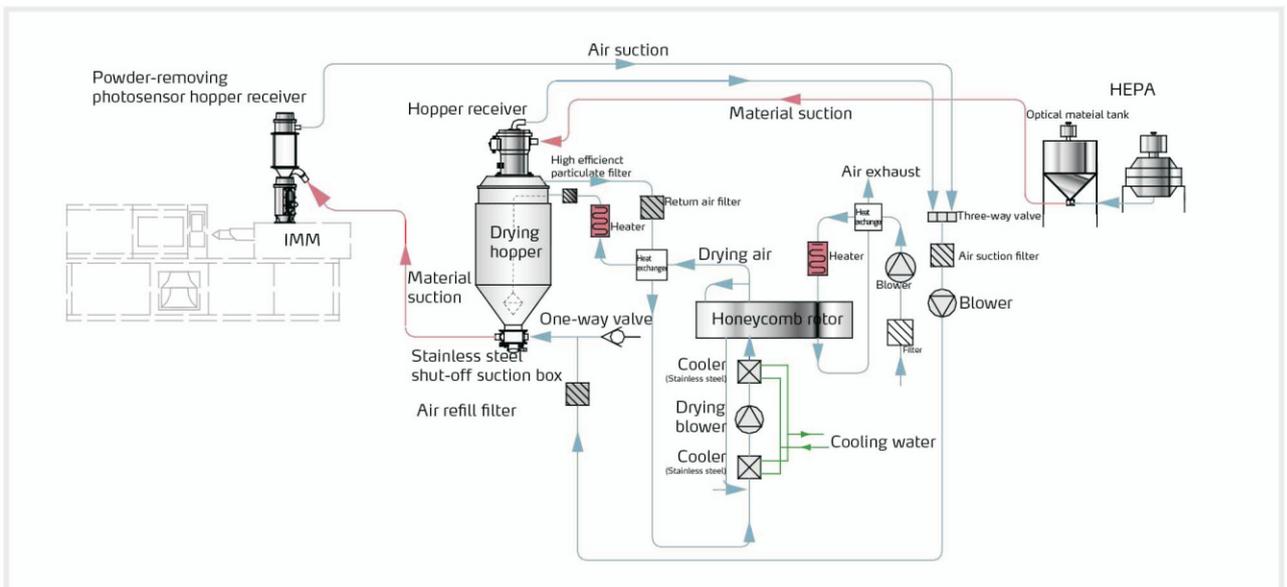


The diagram of "One-to-Two" Compact Dryer

Working Principle



SCD Working Principle



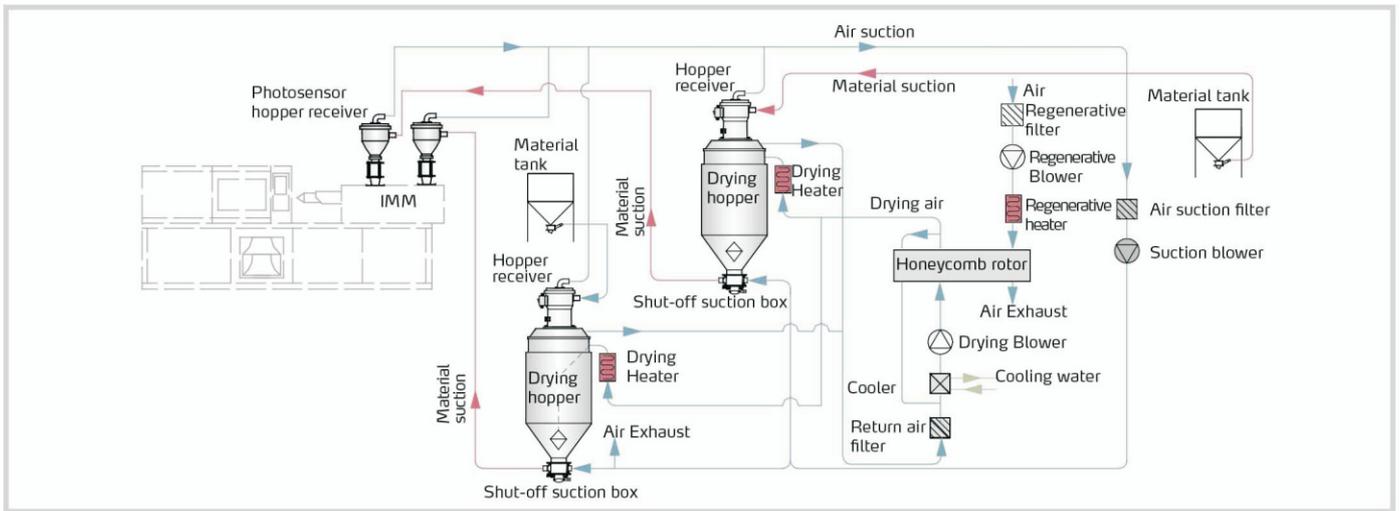
SCD-OP-ES Working Principle



3D animation
(Tencent)



3D animation
(Youtube)



SCD-Ux2/H Working Principle

Options

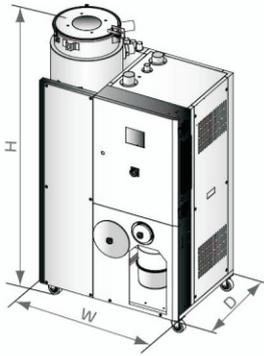
- For models with energy-saving drying management, add "ES" at model end, standard equipped with HMI touch control, which can reduce 41% of total power consumption at most. Volume used per hour can be set between 40~100% of drying capacity to reduce 35%~0 of totally power consumption; Equipped with heat regenerating recycler which recycles the heat of exhausted air via plate heat exchanger and can reduce 3%~6% of total power consumption. Meanwhile, dew-point value can be set to automatically control the temperature required by regeneration, if optional with dew-point monitor, saving 0~10% power consumption according to dew-point ranging from -40°C to 10 °C.
- For models with drying heat recycler, add "HE" at the end of model code. Dehumidified low temperature air recycles the heat of hot-wet return air via plate heat exchanger, which can raise the air temperature in drying heater and reduce the power consumption of the heater, as well as reduce 0%~19% of total power consumption.
- For SCD, three-stage conveying function is available to simultaneously feed two sets of injection molding machines. Add "M2" at the end of the model code.
- For models with polished hopper inside, add "P" at the end of the model code.
- Optional air cooling function is available for SCD, which is no need of cooling water, and add "A" at the end of the model code. It is applicable for (SCD-40U/40H~SCD-230V/120H).
- Upgraded to PLC & touch panel, add "LC" at the end of the model code.
- The optional built-in dew point monitor is available, which is used to monitor real-time dew point. Add "D" at the end of the model code.

SCD Series

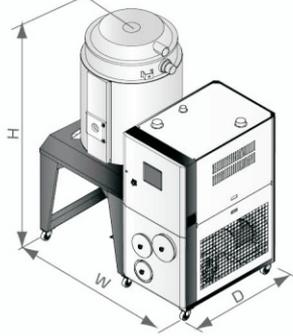
■ Specifications (Hermetic)

Model	SCD-	20U/30H -OP	40U/30H -OP	80U/50H -OP	120U/80H -OP	40U/ 40H	80U/ 40H	120U/ 80H	160U/ 80H	160U/ 120H	230U/ 120H	300U/ 200H	450U/ 200H	
Drying System	Drying Heater (kW)	3	3	4	6	4	4	4	4	6	6	12	12	
	Drying Blower (kW)	0.4	0.4	0.4	0.75	0.18	0.18	0.75	0.75	0.75	0.75	1.5	1.5	
	Hopper Capacity	L	20	40	80	120	40	80	120	160	160	230	300	450
gal		5.3	10.6	21.1	31.7	10.6	21.1	31.7	31.7	42.3	60.8	79.3	119	
Dehumidifying System	Regenerative Heater (kW)	3	3	3	3	3	3	3	3	4	4	4	4	
	Regenerative Blower (kW)	0.4	0.4	0.4	0.4	0.12	0.12	0.18	0.18	0.18	0.18	0.4	0.4	
	Dehumidifying Air quantity (m ³ /hr)	30	30	50	80	40	40	80	80	120	120	200	200	
Conveying System	Conveying Blower (kW)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	Dia. of Material Pipe (inch)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	SVHL	L	3*	3*	3*	3*	3	6	6	6	6	12	12	12
		gal	0.8*	0.8*	0.8*	0.8*	0.8	1.6	1.6	1.6	1.6	3.2	3.2	3.2
SHR-U	L	3	3	6	6	3	6	6	6	6	12	12	12	
	gal	0.8	0.8	1.6	1.6	0.8	1.6	1.6	1.6	1.6	3.2	3.2	3.2	
Dimension	H	mm	1400	1500	1670	1710	1672	1751	1957	2102	2102	2012	2160	2350
		inch	55	59	65.7	67.3	65.8	68.9	77	82.8	82.8	82.8	85	92.5
	W (mm)	mm	1050	1050	1240	1240	1051	1066	1125	1125	1125	1223	1460	1460
		inch	41.3	41.3	48.8	48.8	41.4	42	44.3	44.3	44.3	48.1	57.5	57.5
D (mm)	mm	900	900	1000	1000	903	903	903	903	903	903	1020	1020	
	inch	35.4	35.4	39.4	39.4	35.6	35.6	35.6	35.6	35.6	35.6	40.2	40.2	
Weight	kg	235	280	330	385	295	325	340	350	390	420	565	595	
	lb	518	617	728	849	650	1433	750	772	850	926	1246	1312	

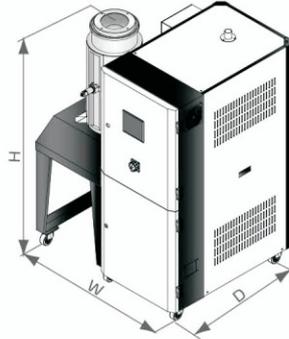
Outline Drawings



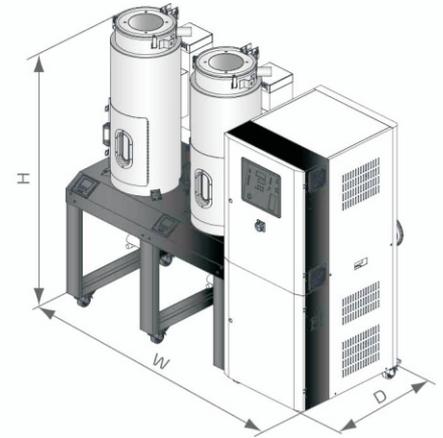
SCD Hermetic



SCD Semi-open



SCD-OP



SCD-Ux2/H

Specifications (Semi-open)

Model	SCD-	600U/400H	750U/400H	900U/700H	1200U/700H	40Ux2/80H	80Ux2/80H	120Ux2/120H	160Ux2/200H	
Drying System	Drying Heater (kW)	18	18	24	24	3x2	3.9x2	3.9x2	6x2	
	Drying Blower (kW, 50/60Hz)	3.75/4.5	3.75/4.5	7.5/8.6	7.5/8.6	0.75/0.9	0.4/0.46	0.75/0.9	1.5/1.72	
	Hopper Capacity	L	600	750	900	1200	40x2	80x2	120x2	160x2
gal		158.5	198	237.8	317	10.6x2	21.1x2	31.7x2	42.2x2	
Dehumidifying System	Regenerative Heater (kW)	7.2	7.2	10	10	3	3	4	4	
	Regenerative Blower (kW, 50/60Hz)	0.75/0.9	0.75/0.9	1.5/1.8	1.5/1.8	0.4/0.5	0.4/0.48	0.4/0.5	0.4/0.48	
	Dehumidifying Air quantity (m ³ /hr, 50/60Hz)	400/450	400/450	700/780	700/780	80/80	80/80	120/120	200/222	
Conveying System	Conveying Blower (kW)	1.5	1.8	3.75	3.75	1.5	1.5	1.5	1.5	
	Dia. of Material Pipe (inch)		1.5		2	1.5	1.5	1.5	1.5	
	SVH-L Hopper	L	12		24		6	6	6	6
		gal	3.2		6.4		1.58	1.58	1.58	1.58
	SHR-U Hopper	L	12		24		3	6	6	6
gal		3.2		6.4		0.79	1.58	1.58	1.58	
Dimension	H	mm	2380	2610	2640	3070	1655	1866	1800	2113
		inch	93.7	102.8	104	121	65.2	73.5	73.5	83.2
	W	mm	1745		2140		1422	1886	2084	2124
		inch	68.7		84.3		56	74.3	82	83.6
	D	mm	1255		1380		853	915	915	930
		inch	49.4		54.3		33.6	36	36	36.6
Weight	kg	640	690	850	900	320	400	500	565	
	lb	1411	1521	1874	1984	704	882	1102.7	1246	

Notes: 1) Plastic materials can be fully dried by drying air with dew-point temperature $\leq -20^{\circ}\text{C}$.

2) "*" stands for hopper receiver SHR-CP-U.

3) Power: 3 Φ , 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



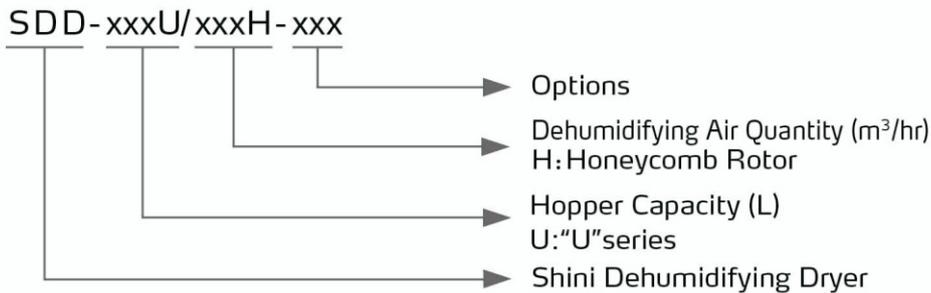
Dehumidifying Dryer

SDD-80U/40H



Refer carefully to this manual before operation.

■ Coding Principle



■ Features

- Adopt molecular sieve structure honeycomb rotor, which provides low dew-point dry air. The honeycomb rotor structure is superior to double-barrel dehumidifier that will contaminate raw material due to damaged molecular sieve.
- Dehumidifying and drying function are integrated to ensure high efficiency.
- Insulated drying hopper features dry air down-blowing and cyclone exhaust design. This improves drying efficiency and reduces heat loss, saving energy.
- The dehumidifying section of the SDD series adopts cooler to ensure a low return air temperature and low dew-point.
- Microprocessor is the standard equipment, with a temperature controlling accuracy of $\pm 1^{\circ}\text{C}$.
- Equipped with weekly timer, machine can automatically operate.

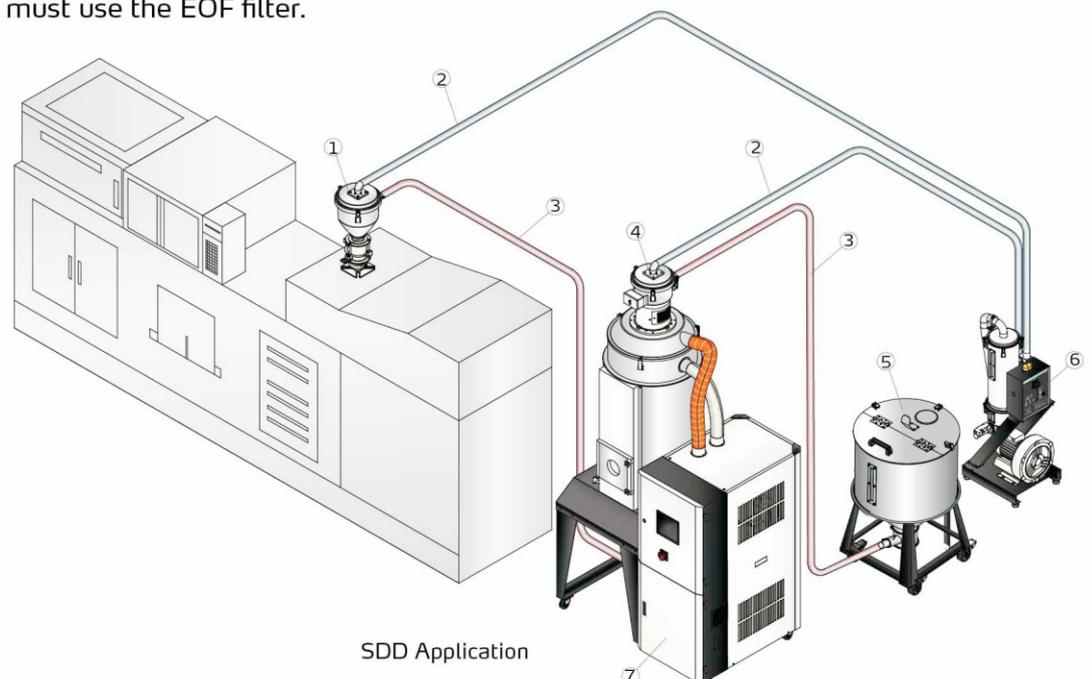


Touch Control Panel

■ Application

SDD dehumidifying dryers integrate dehumidifying and drying into one unit, which mainly process high efficient drying for hygroscopic plastics, such as PET, PA and PC. The floor mounted SDD collocated with loader and suction box beside the IMM can realize auto dehumidifying and drying. Besides, this machine can also be placed at the central material area to work with central material system for centralized drying processing. In addition, there're multiple options and accessories to meet various demands. If some dry materials are volatile, it must use the EOF filter.

1. Photosensor hopper receiver
2. Vacuum pipe
3. Material pipe
4. Vacuum hopper receiver
5. Material storage tank
6. Main vacuum unit
7. SDD



SDD Series

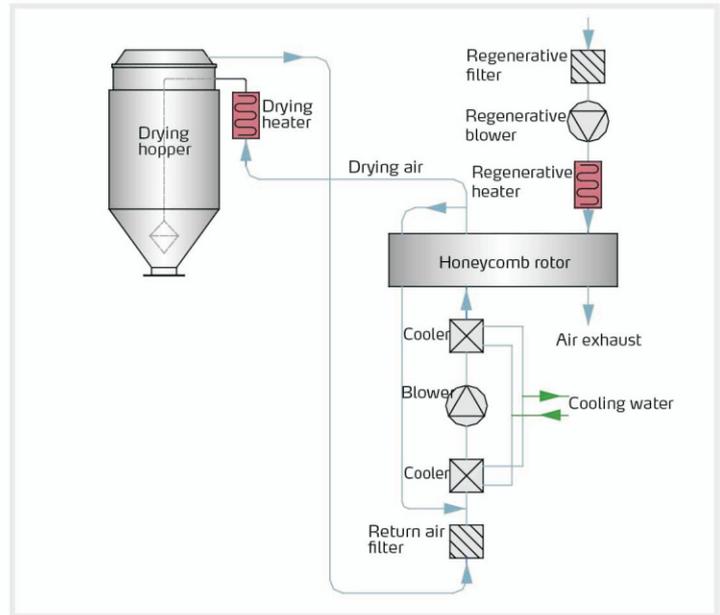
Working Principle



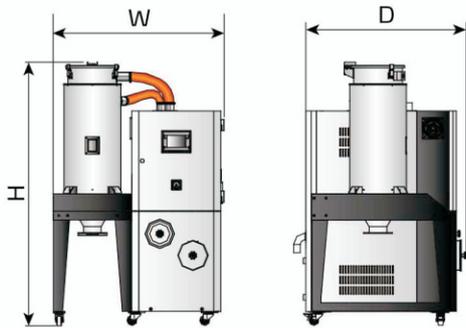
3D animation
(Tencent)



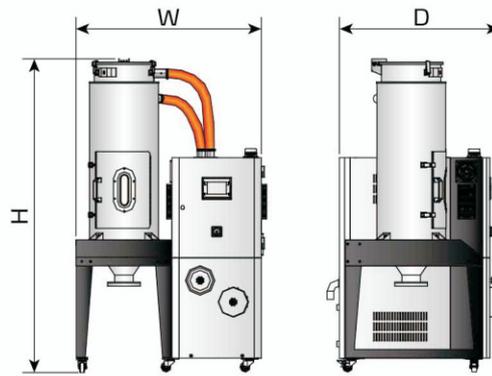
3D animation
(Youtube)



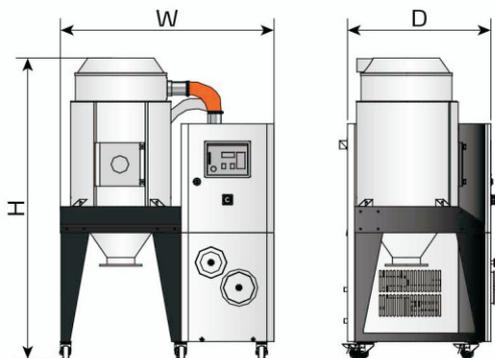
Outline Drawings



SDD-40U/40H



SDD-80U/40H~230U/120H



SDD-300U/200H~1200U/700H

■ Specifications

Model SDD-	40U/ 40H	80U/ 40H	120U/ 80H	160U/ 80H	160U/ 120H	230U/ 120H	300U/ 200H	450U/ 200H	600U/ 400H	750U/ 400H	900U/ 700H	1200U/ 700H		
Regen. Heater(kW)	3				4				7.2		10			
Regen. Blower (kW, 50/60Hz)	0.12		0.18				0.4		0.75		1.5			
Drying Heater (kW)	4				6		12		18		24			
Drying Blower (kW, 50/60Hz)	0.18		0.75				1.5		3.75		7.5			
Dry Air Quantity (m ³ /hr)	40		80		120		200		400		700			
Hopper	L	40	80	120	160	230	300	450	600	750	900	1200		
	gal	10.6	21	31.7	42.3	60.8	79.3	119	158.5	198	238	317		
Dimension	H	mm	1509	1796	1817	1740	2070	2052	2040	2440	2380	2610	2640	3070
		inch	59.4	70.7	71.5	68.5	81.5	80.8	80.3	96	93.7	102.8	104	121
	W	mm	978	1060	1061	1220	1061	1210	1450		1745		2140	
		inch	38.5	41.7	41.8	48	41.8	47.6	57		68.7		84.3	
	D	mm	931	1030	893				1050		1255		1380	
		inch	36.7	40.6	35.2				41.3		49.4		54.3	
Weight	kg	165	190	250	255	265	295	420	550	620	650	830	870	
	lb	364	419	551	562	584	650	926	1213	1367	1433	1830	1918	

Notes: 1) Plastic materials can be fully dried by drying air with dew-point temperature $\leq -20^{\circ}\text{C}$.
2) Power: 3 Φ , 230/400/460/575VAC, 50/60Hz.

■ Options

- For models with energy-saving drying management, add "ES" at model end, standard equipped with HMI touch control, which can reduce 41% of total power consumption at most. Volume used per hour can be set between 40~100% of drying capacity to reduce 35%~0 of totally power consumption; Equipped with heat regenerating recycler which recycles the heat of exhausted air via plate heat exchanger and can reduce 3%~6% of total power consumption. Meanwhile, dew-point value can be set to automatically control the temperature required by regeneration, if optional with dew-point monitor, saving 0~10% power consumption according to dew-point ranging from -40°C to 10°C .
- For models with drying heat recycler, add "HE" at the end of model code. Dehumidified low temperature air recycles the heat of hot-wet return air via plate heat exchanger, which can raise the air temperature in drying heater and reduce the power consumption of the heater, as well as reduce 0%~19% of total power consumption.
- For models with polished hopper inside, add "P" at the end of the model code.
- Optional air cooling function is available for SDD, which is no need of cooling water, and add "A" at the end of the model code. It is applicable for (SDD-40U/40H~SDD-230U/120H).
- Upgraded to PLC & touch panel, Add "LC" at the end of the model code.
- The optional built-in dew point monitor is available, which is used to monitor real-time dew point. Add "D" at the end of the model code.

Accessories

Dew-point Monitor (portable)



Models with optional portable dew-point monitor is convenient to test dew-point temperature of different machines.

Function	Specification	
Display	Digital and Real-time Curve Display supports English\Chinese\Japanese\Korean version.	
Range		-50.....+50°C td
	Pressure	-0.1.....1.5MPa td
	Temperature	-30.....+50°C
Accuracy	Dew point	±2°C td@-50°C td
	Pressure	±0.005MPa
	Temperature	±0.3°C
	Condition	Temp.: 23°C±3°C Humidity: <90% no condensation
Other Units	g/m ³ ,mg/m ³ ,ppmv,g/kg	
Data Record	Memory space	4G. data can be exported by memory card
	Number of files	≤512 files
	Medium	SD card

High Efficiency Particulate Absorbing Filter HEPA(0.3µm)



For optical model, These two devices are optional to ensure no material contamination.

Optical Material Tank (3µm)

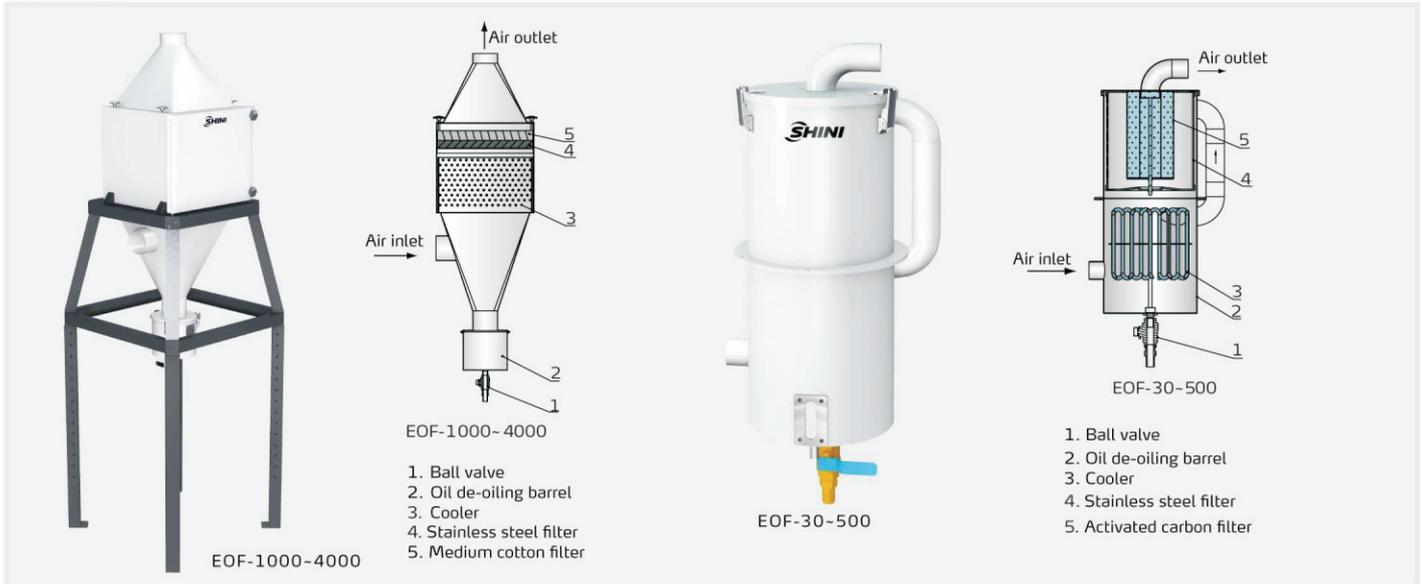


Optical Powder-removing Hopper



Optical SCD-OP series together with powder- removing hopper which can help avoid powder in the materials; all material contact surfaces are stainless steel mirror polished.

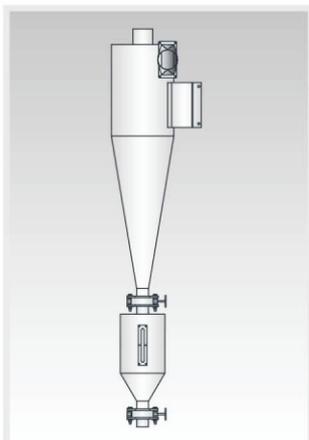
Oil Filter



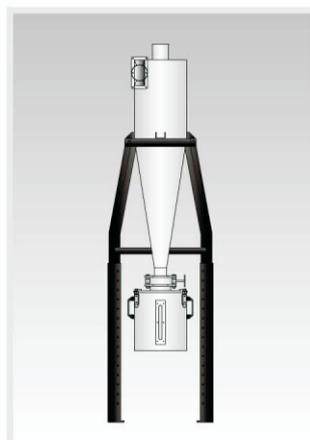
Oil filter is optional to filter the oil substance in return air for honeycomb protection.

Model	Applied to	Cooling water flow(L/min)	Cooling water temperature(°C)
EOF-30	SD-40H~120H	5	7~15
EOF-150	SD-150H / 200H	10	
EOF-300	SD-300H / 400H	20	
EOF-500	SD-700H	30	
EOF-1000	SD-1000H	65	
EOF-2000	SD-1500H/2000H	130	
EOF-3000	SD-3000H	185	
EOF-4000	SD-4000H	245	

Cyclone Dust Collector



ACF-5"~12"



ACF-3"~4"

Cyclone dust collector is used to collect the dust in return air.

Model	Applied to
ACF-3"	SD-300H / 400H
ACF-4"	SD-700H
ACF-5"	SD-1000H
ACF-8"	SD-1500H/2000H/3000H
ACF-12"	SD-4000H

Shini Group

Addr: No. 23, Minhe St., Shulin Dist.,
New Taipei, Taiwan

Tel: +886 2 2680 9119

Fax: +886 2 2680 9229

Email: shini@shini.com

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