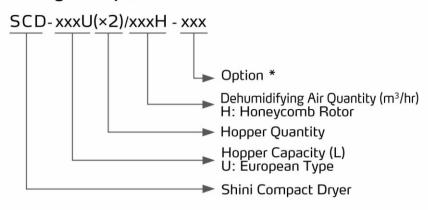


## "All-in-One" Compact Dryer

SCD-230U/120H



### Coding Principle



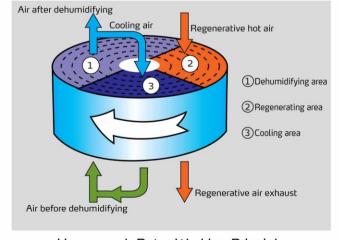


#### Features

- Combine the function of dehumidifying, drying and two-stage conveying into a single unit.
- 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.
- Feeding system is equipped with shut-off valve to ensure no surplus raw material in hopper tubes and avoid raw material from regaining moisture.
- Equipped with microprocessor to accurately control drying temperature.
- Heat preserved drying hopper barrel adopts down blowpipe design and collocates with cyclone air exhaust to avoid heat lost and improve drying efficiency.
- Equipped with two drying hoppers, the drying temperature of single hopper can be individually controlled. It mainly applied to double-shot molding machine, which can process dehumidifying and drying to two different drying materials.
- Equipped with weekly timer, machine can automatically operate.



SCD-80U×2/100H



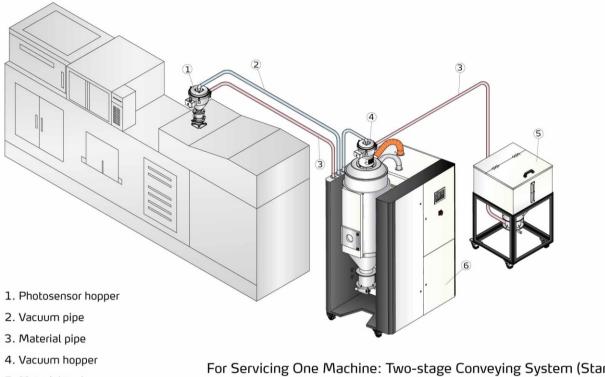
Honeycomb Rotor Working Principle

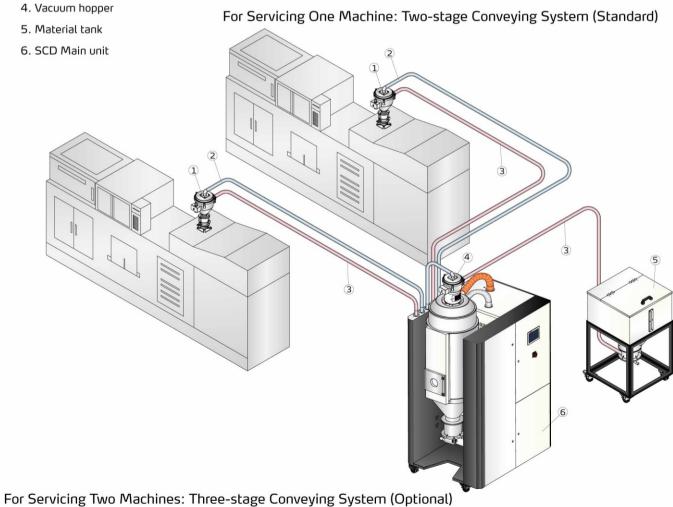


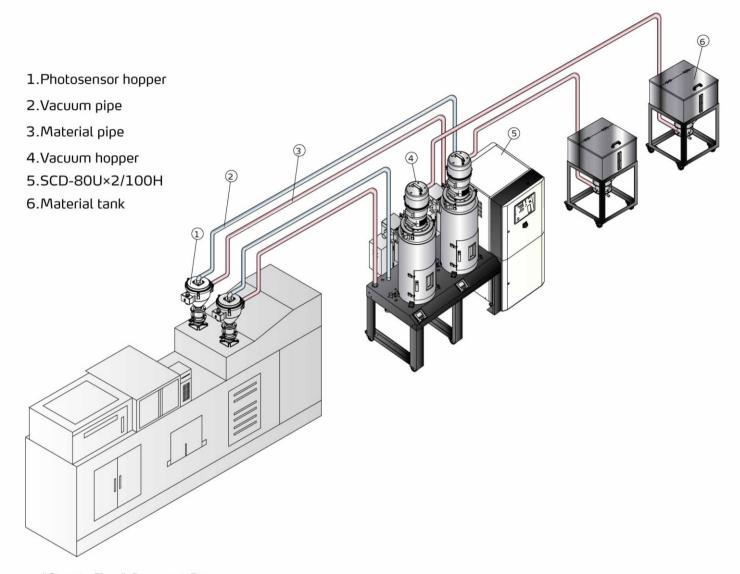
Control Panel



## Application







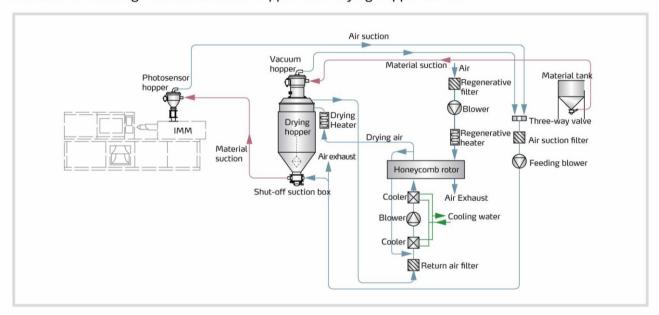
"One-to-Two" Compact Dryer



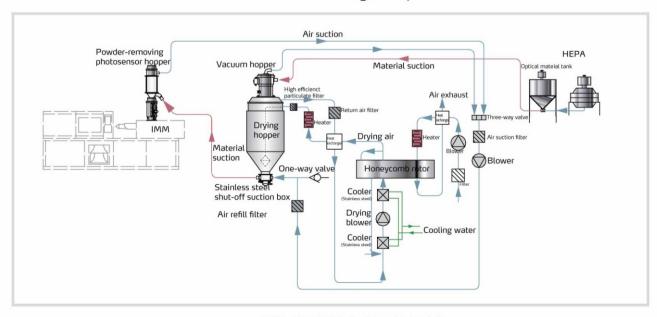
#### Working Principle

Dehumidifying: damp and hot air from dry material barrel is blown into rotor after cooled. Moisture from the air is absorbed by rotor and is then adsorbed by regeneration heating air. Two strands of airflow function on the rotor. And with the rotation, moisture from the air is absorbed and expelled after absorbed regeneration air to form stable low dew-point air, which is dried to the drying temperature and then is blown into material barrel to closed circle to dry material.

Suction: material is absorbed into barrel from storage barrel or other storage containers. When the magnetic reed switch detects no material, suction motor runs to produce vacuum inside vacuum hopper. Raw material in storage barrels is absorbed into suction hopper due to air pressure difference. When material suction completes, motor stops. Raw materials drop into drying hopper barrel due to gravity. The dried raw material after dried is taken out to the hopper with photosensor installed on molding machine or other hopper from drying hopper barrel.



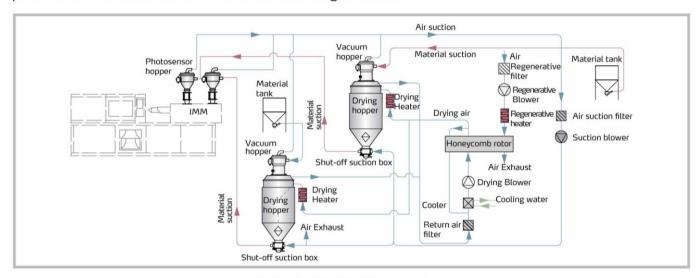
SCD Working Principle



SCD-OP-ES Working Principle

Dehumidifying: damp and hot air from two dry material barrels via the filter and condenser is blown into rotor. Moisture from the air is absorbed by rotor, then absorbed and expelled by regeneration heating air with rotor rotation. Two strands of airflow function on the rotor. And with the rotation, moisture from the air is absorbed and expelled after absorbed regeneration air to form stable low dew-point drying air. The low dew-point drying air through heater then get into the two storage barrels separately to dehumidify material in the barrels. The damp and hot air expelled by storage barrel after drying, return to the filter and condenser again to process dehumidifying in the rotor. Thus, the closed circle is formed to dry material.

Suction: material is absorbed into two drying hoppers from different storage barrels or other storage containers. When the magnetic reed switch detects no material, suction motor runs to produce vacuum inside vacuum hopper. Raw material in storage barrels is absorbed into suction hopper due to air pressure difference. When material suction completes, motor stops. Raw materials drop into drying hopper barrel due to gravity. As the same, the dried raw material after dried is taken out to the hopper with photosensor installed on the double-shot molding machine.

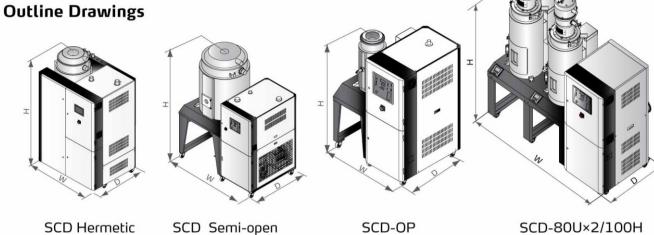


SCD-Ux2/H Working Principle



## Specifications (Hermetic)

Model SC		CD-	20U/30H -OP	40U/30H -OP	80U/50H -OP	120U/80H -OP	40U/ 40H	80U/ 40H	120U/ 120H	160U/ 120H	230U/ 120H	300U/ 200H	450U/ 200H
Drying System	Drying Heater Power (kW)		3	3	4	6	4	4	6	6	6	12	12
	Drying Blower Power (kW)		0.4	0.4	0.4	0.75	0.12	0.12	0.75	0.75	0.75	1.5	1.5
	Hopper L		20	40	80	120	40	80	120	160	230	300	450
	Capacity	gal	5.3	10.6	21.1	31.7	10.6	21.1	31.7	42.3	60.8	79.3	119
Dehumidifying System	Regenerative Heater Power (kW)		3	3	3	3	3	3	4	4	4	4	4
	Regenerative Blower Power (kW)		0.4	0.4	0.4	0.4	0.12	0.12	0.4	0.4	0.4	0.4	0.4
	Dehumidifying Air quantity (m <sup>3</sup> /hr)		30	30	50	80	40	40	120	120	120	200	200
	Feeding Blower Power (kW)		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Feeding System	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
	SHR-U-E	L	3*	3*	3*	3*	3	6	6	6	12	12	12
		gal	0.8*	0.8*	0.8*	0.8*	0.8	1.6	1.6	1.6	3.2	3.2	3.2
	SHR-U	L	3	3	6	6	3	6	6	6	12	12	12
		gal	0.8	0.8	1.6	1.6	0.8	1.6	1.6	1.6	3.2	3.2	3.2
	н	mm	1400	1500	1670	1710	1672	1751	1957	2102	2012	2160	2350
Dimension		inch	55	59	65.7	67.3	65.8	68.9	77	82.8	82.8	85	92.5
	W (mm)	mm	1050	1050	1240	1240	1051	1066	1125	1125	1223	1460	1460
		inch	41.3	41.3	48.8	48.8	41.4	42	44.3	44.3	48.1	57.5	57.5
	D (mm)	mm	900	900	1000	1000	734	734	734	734	734	1020	1020
		inch	35.4	35.4	39.4	39.4	28.9	28.9	28.9	28.9	28.9	40.2	40.2
		kg	235	280	330	385	295	325	340	390	420	565	595
Wei	Weight		518	617	728	849	650	1433	750	850	926	1246	1312



## Specifications (Semi-open)

Mode	Model SCD-		600U/400H 750U/400H		900U/700H	1200U/700H	80U×2/100H	
Dryin	g System							
Dryin	g Heater Power (k\	N)	18 18		24	24	3.9×2	
Drying Blower Power (kW, 50/60Hz)			3.75/4.5	3.75/4.5	7.5/8.6	7.5/8.6	0.4/0.46	
Нооп	Hopper Capacity gal		600 750		900	1200	80×2	
порр			158.5	198	237.8	317	21.1×2	
Dehumidifying System								
Rege	nerative Heater Po	wer (kW)	7.2	7.2	10	10	3	
Regenerative Blower Power (kW, 50/60Hz)			0.75/0.9	0.75/0.9	1.5/1.8	1.5/1.8	0.4/0.48	
Dehumidifying Air quantity (m³/hr, 50/60Hz)			400/450 400/450		700/780 700/780		100/111	
Feed	ing System							
Feed	ing Blower Power (	kW)	1.	.5	3.	1.5		
Dia. of Material Pipe (inch)			1.	.5	12	1.5		
CUD II E II			1	2	2	6		
SHID.	SHR-U-E Hopper gal		3.	2	6	1.58		
SHR.	SHR-U Hopper		1	2	2	6		
gal		gal	3.	2	6	1.58		
		mm	2380	2610	2640	3070	2300	
	Н	inch	93.7	102.8	104	121	90.6	
ы		mm	17-	45	21	2000		
Dimension	W	inch	68	3.7	84	78.7		
υiO		mm	12	55	13	1050		
	D inch		49	.4	54	41.3		
Weight kg			640	690	850	900	400	
lb lb		1411	1521	1874	1984	882		

Notes: 1) Plastic materials can be fully dried by drying air with dew-point temperature ≤-20°C.

We reserve the right to change specifications without prior notice.

<sup>2) &</sup>quot;\*" stands for hopper receiver SHR-CP-U.

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

## 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

Factories:

- Taiwan
- Dongguan
- Pinghu
- Ningbo
- Chongqing
- Pune

2016-12-15-04 Copyrights Reserved.