



Drying Loaders



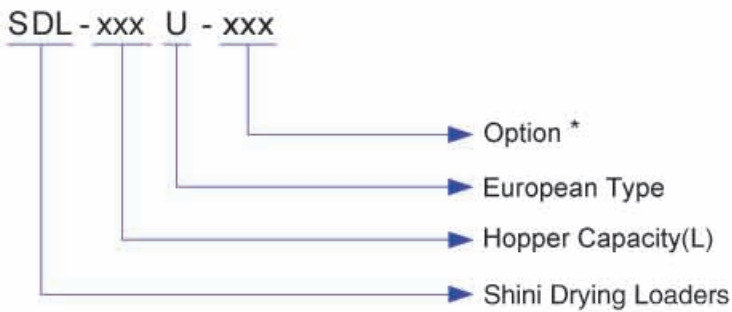
SDL-80U



Refer carefully to the Manual before using products.



■ Coding Principle



Note: *

P=For Polished Hopper Inside CE=CE Conformity
HD=Heatless Dehumidifying

■ Features

Standard configuration

- SDL-U integrates autoloading and drying into one unit, while SDL-U-HD integrates dehumidifying, drying and autoloading into one unit.
- Adopts microprocessor and P.I.D. control system to accurately control drying temperature.
- Occupy a small place, making movement easily and replacing units conveniently.
- Hoppers are made of stainless steel to avoid contamination.
- Full functional alarming system can immediately show faults.
- Closed-loop conveying device eliminates the possibility of moisture reabsorption during dried material conveying.
- Hot air recycling device is equipped as a standard, featuring energy saving, no exhaust of hot air and dust, and environmental protection.
- Standard shut-off suction box ensures no residual material after each loading process.
- European type heat insulated hopper ensures no heat loss and no material pollution.
- 7-day start/stop timer is standard equipment, which can be customized.

Accessory option

- Heatless regenerative device of SHD-U-HD can supply dry air with relative low dewpoint to speed up material handling process.



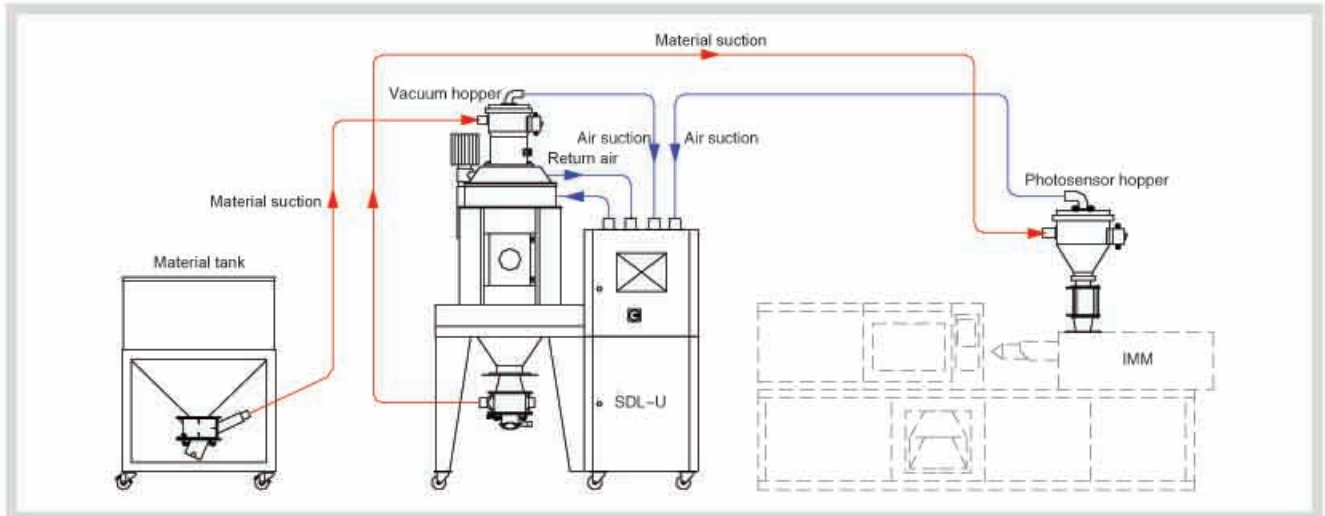
Control Panel



SDL-80U-HD

Application

SDL-U series of drying loaders combine conventional hot air drying and two-stage conveying functions into a compact unit. It is particularly suitable for using with the big tonnage moulding machines when height restriction is concerned at the workshop. The SDL-U series has a unique function of two-stage conveying that can transport both raw material to its own drying hopper and dried material to the moulding machine.



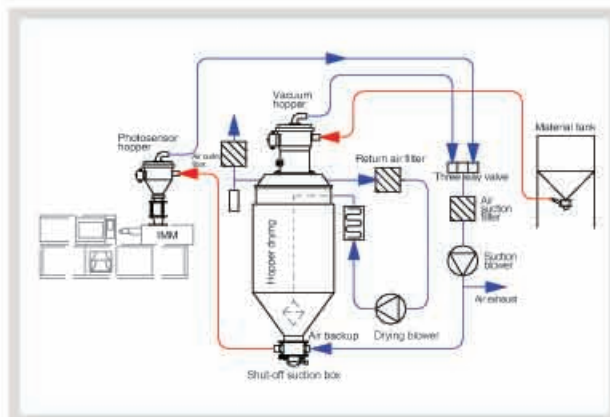
SDL-U Applications

Working Principle

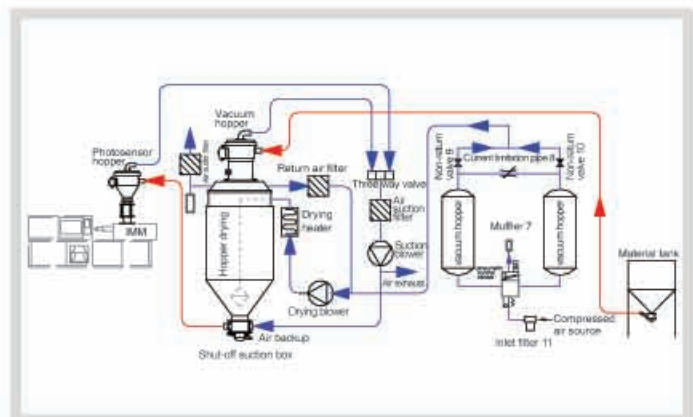
Drying: based on the principle of water high temperature gasification, moisture of material would be blown away by high pressure air from blower after being high temperature gasified. A part of air with moisture discharges through filter of moisture outlet; most part of air are recyclable after being filtered through return air pipe.

Conveying: suction force of high pressure blower makes a vacuum inside hopper also produces differential pressure between hopper and outer space. With the common force of differential pressure and continuous suction, materials and air mixture will be sucked into hopper. Due to the filter block of hopper, materials will be accumulated in hopper and the air is expelled from air outlet. Double-stage conveying is mainly accomplished by shifting three way valve of suction machine to control suction return circuit.

Heatless regeneration: The compressed air after passing through inlet filter 11 enters into dry barrel 1 (or dried barrels 2) through pneumatic control valve 1. Then it make absorption dry with desiccant bed layer, and later exist from non-return valve 9 (or 10), finally exist from the outlet to dry and purify air. A part of dry air (about 15%) enters dry barrel 2 (or dried barrel 1) through current limitation pipe 8 to blow and regenerate desiccants with saturated water, then air passes through pneumatic control valves 1 to exist out of muffler 7. Drying barrel 1, 2 work alternately to regenerate.



SDL-U Working Principle



SDL-U-HD Working Principle

SDL-U Series

Options

To Work With



SHR-U Full stainless steel hopper receiver with mechanical flap and magnetic reed switch is used to install on the drying hopper for conveying raw material without any contamination.



SHR-U-E Full stainless steel hopper receiver with glass-tube and adjustable level sensors is used to convey dried material directly to the feed port of the moulding machine.

Outline Drawings



Specifications

Model	SDL-	20U (-HD)	40U (-HD)	80U (-HD)	120U (-HD)	160U (-HD)	230U (-HD)	300U (-HD)	450U (-HD)	600U (-HD)	750U (-HD)	900U (-HD)	1200U (-HD)
Process Blower (W) (50/60Hz)		0.05/0.058	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	0.55/0.63
Conveying Blower (kW) (50/60Hz)		0.75/0.85	0.75/0.85	0.75/0.85	0.75/0.85	0.75/0.85	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	1.5/1.8	2.4/3.0	2.4/3.0
Process Heater (kW)		2.2	3	3.9	3.9	6	6	12	12	18	18	24	24
Air Inlet Pipe. (inch)		2	2	2.5	2.5	3	3	3	3	4	4	4	4
Air Return Pipe. (inch)		1.5	1.5	2	2	2.5	2.5	2.5	2.5	3	3	4	4
Conveying Hose Dia. (inch)		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2
Drying Hopper Capacity (L)		20	40	80	120	160	230	300	450	600	750	900	1200
SHR-U-E Hopper Receiver (L)		3	3	6	6	6	12	12	12	12	12	24	24
SHR-U Hopper Receiver (L)		3	3	6	6	6	12	12	12	12	12	24	24
Dimensions (mm)	W	1035	1035	1035	1035	1400	1400	1400	1400	2050	2050	2250	2250
	D(D1)	800 (950)	800 (950)	800 (950)	800 (950)	1000 (1180)	1000 (1180)	1000 (1180)	1000 (1180)	1450(1450)	1450(1450)	1450(1450)	1450(1450)
	H	1200	1300	1550	1800	1880	2160	2020	2420	2450	2720	2610	3030
Weight (kg)		110	120	130	195	215	240	310	350	435	500	550	600

Note: 1) For Heatless Dehumidifying Compact Dryers, add "HD" at model behind.
 2) For hopper inside polished one, add "P" at model behind.
 3) 4-6 bar compressed air supply.
 4) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



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