

DRC series

CHALLENGER COMPACT

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DRC-30Z



DRC-60Z

Dehumidifying Dryer of the new idea based on thorough on-sight inspection

Ultimate Energy saving / Space-saving / low price Built-in material conveying system

Energy saving
50%
compare to
conventional
type

Ultimate energy saving

- Original desiccant reverse reproduction method saves approx. 50% energy compare to continuous reproduction type
- Maximum 1Lr/min compressed air consumption for only driving valves
- Cooling water not required

Space saving
50%
compare to
conventional
type

Space saving

- Saving 50% space compare to conventional type
- Monitoring and maintenance are possible on operation panel side

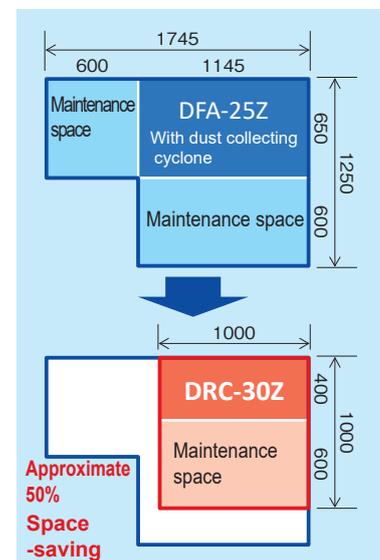
Cost reduction
30%
compare to
conventional
type

Low price

- 30% cut down than conventional type by thorough rationalization

Cleaning
properties
Up

Easy cleaning, easy material change



- **Easy to discharge material** Collection box can be instantly removed. High discharge position Direct discharge to paper bag



- **Easy to clean inside of hopper** Maximum size opening 40% larger than conventional type (DRC-30Z)



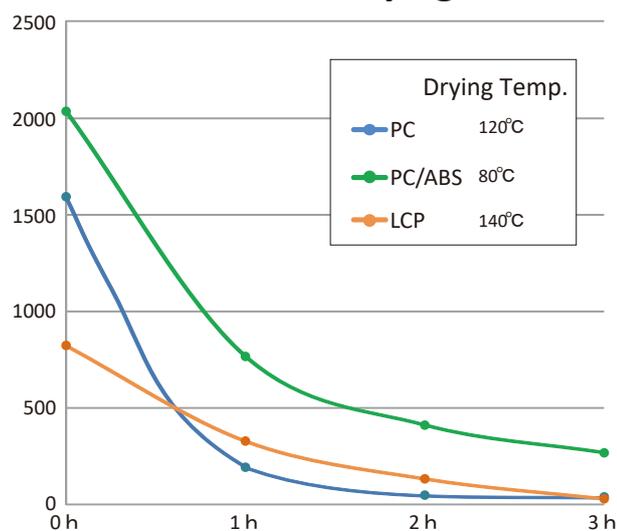
- **Easy to remove and clean-up** Drying hopper lid and primary transportation loader hopper can be easily removed and put aside.



- **Easy cleaning.** Collection box can be instantly removed for easy cleaning. Suitable for the factory with frequent color change

Drying test data

Moisture(ppm) **DRC-30Z Drying test data**



Drying condition and capacity

| Material | Standard Drying temperature °C | Standard Drying time Hr | Capacity Kg/Hr | | Recommended moisture value ppm |
|----------|--------------------------------|-------------------------|----------------|-----------|--------------------------------|
| | | | DRC-30Z | DRC-60Z | |
| PA | 80°C | 4~6(Unopened) | 5~7kg/h | 10~14kg/h | ≦1000 |
| POM | 80°C | 3~4 | 7~10kg/h | 14~20kg/h | ≦1000 |
| ABS | 80°C | 3~4 | 7~10kg/h | 14~20kg/h | ≦500 |
| PMMA | 80~90°C | 4~6(Unopened) | 5~7kg/h | 10~14kg/h | ≦300 |
| PPE | 70~120°C | 2~3 | 10~15kg/h | 20~30kg/h | ≦100 |

※The recommended moisture value is transcribed in a general representative moisture value. It varies according to a product.

※The drying time and temperature of resin varies depending on the products (used material). Please consult with us.

Drying time(h)

High specification

1 Secondary closed conveying

To prevent moisture absorption and contamination, outer air is not used for material transportation

2 Cyclone dust collector

It reduces the cleaning frequency of the filter by removing powder and foreign particle included in the air after material transport.

3 Advanced corrugated honeycomb desiccant chamber

Big drying capacity with high-performance honeycomb adsorption column

4 Batch conveying by air cutting method

No material remains between dryer and molding machine. And, transportation volume can be adjusted with timer control

5 Double insulating hopper

Energy saving and precise drying by means of double layered insulated hopper, including corn part

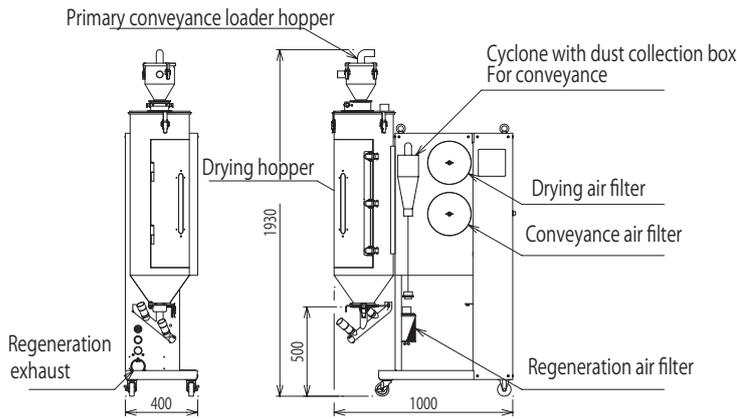
Options

- PVC flexible hose (with earth wire)
- Non PVC flexible hose
- PVC flexible hose (heat resistant)
- Emergency alarm
- Visual alarm
- Dust separator OD38
- Leakage breaker
- Secondary two-way conveying
- Blow-up hopper [BH-02-3]
- Autoselector (convey-1) SL-38

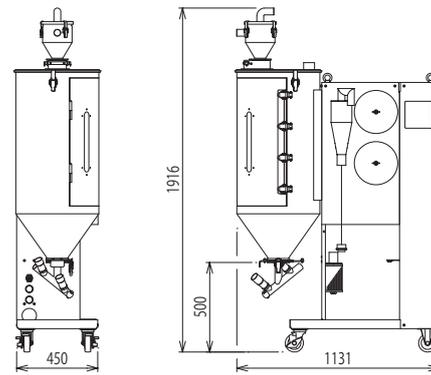
- Autoselector (convey-2,3) SL-38
- Conveying blower up 1.3/1.9kw
- Emergency stop button
- Weekly timer
- Mobile surge bin (60L) OD38
- Abrasion-resistant of nozzle (VL-02)
- Simple capacity sign
- Timer of drying completion
- Additional full level switch(Movable on sight glass)
- Increase pipe

Dimensions

● DRC-30Z



● DRC-60Z



Specifications

| Models | | DRC-30Z | DRC-60Z |
|---|-------|-------------------------------|----------------|
| Feeding Volume (kg) | | 30*1 | 60*1 |
| Drying Hopper effective capacity (L) | | 50 | 100 |
| Drying Temperature (°C) | | 80~140 | |
| Drying Blower Capacity / Regeneration Blower Capacity (kW/60Hz) | | 0.42 (INV) | 0.85 (INV) |
| Drying Heater Capacity / Regeneration Heater Capacity (kW) | | 2.7 | |
| Convey2 | | VL-02-3 | |
| Conveying Blower Capacity (kW) (60Hz) | | 0.85 (INV) | |
| Power supply (3相 AC200V / 200, 220V 50/60Hz) (3phase) | (kVA) | 4.2 / 4.2, 4.7 | 5.3 / 5.3, 6.1 |
| | (AT) | 20 | 20 |
| Compressed Air requirement (L/min) | | 1 (0.4~0.6MPa) (Pipe size φ6) | |
| Weight (kg) | | 170 | 240 |

*1 If varies according to the apparent specific gravity of material.

The above are figures obtained when using pellets with a bulk density of 0.6g/cm³.



● **Material tank (option)** Slim type best suited to DRC-30Z

* These specifications are subject to change without notice.

* Please read the instructions manual carefully before use.



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