



CHALLENGER MINI

Dehumidifying Dryer

Ultimate energy-saving and space-saving
Condensed dehumidifying dryer and
transportation function

Small multi-machine with 5-8kg

Versatile and Small Design for the Ultimate
Energy and Space Savings



New Design of DR-15Z

Features

Energy Savings

- ▶ Adsorbent reverse regenerative system originally designed for about 75% energy savings compared to a continuous one
- ▶ Amount of compressed air consumed of only maximum 1L/min for valve drive

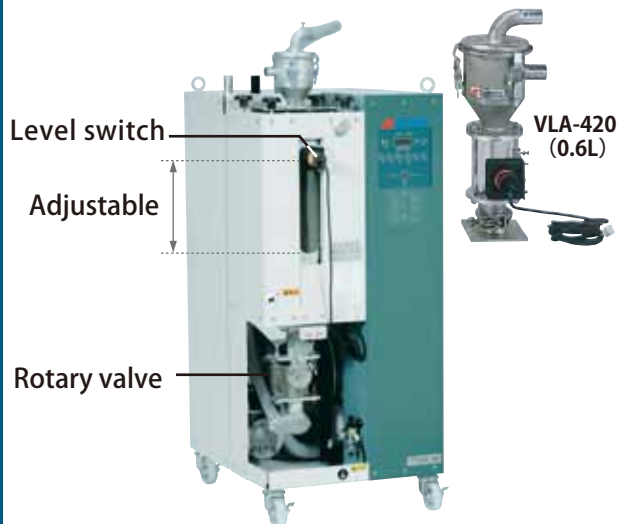
Space Savings

- ▶ Even with conveying function, about 25% space savings compared to conventional machines (separate conveying blower)
- ▶ Small footprint of approx. 0.3m² (W502mm × D603mm)

Cost Savings

- ▶ About 10% cost reduction by mounting the primary conveying to conventional machines

Prevention of Defective Molding



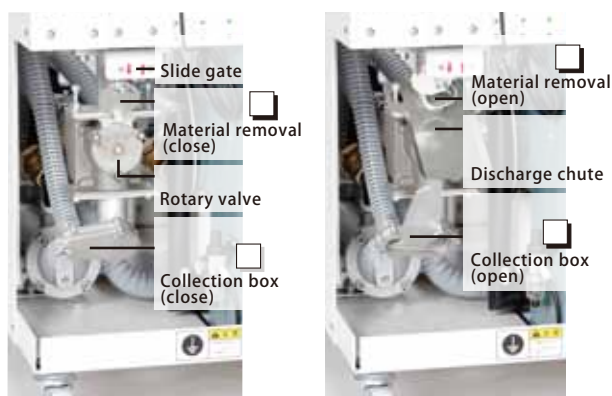
- The drying hopper level switch is adjustable (6L-11L). Adjustable residence time in the drying hopper prevents over drying or incomplete drying.
- The adoption of the rotary valve allows material supply in a required minimum amount to a mold machine, preventing unnecessary residence in the molding machine.

Microprocessor-Controlled Panel



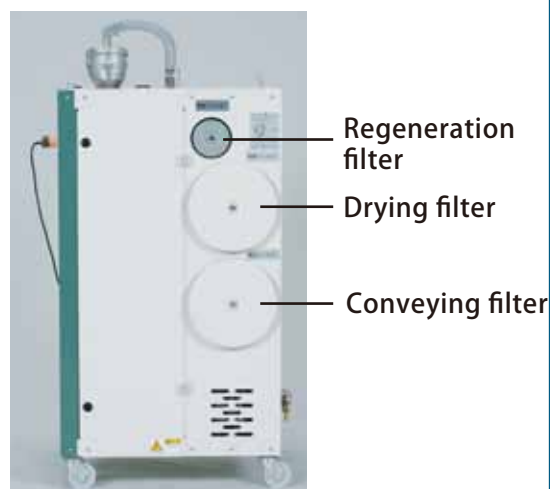
- The controller with alarm function is automatically operated by microprocessor. The PID control system ensures high-accuracy drying temperature. The digital displays enable easy verification of set and indicated values. Remote control and timer operation are standard equipment.

Easy Material Change



- The slide gate and material outlet under the drying hopper make it easy to remove material in the hopper. The standard-equipped discharge chute prevents material from spilling out.
- The rotary valve is easily removable
- The collection box minimizes material clogging and can be easily cleaned out.

Fast Maintenance



- All filters of drying, conveying and regeneration are mounted for fast maintenance.
- The control circuit of drying and regeneration heater is equipped with SSC, improving reliability and safety, and reducing maintenance frequency

Specifications

Model		DRC-8Z
Air flow (m ³ /h (ANR)) (50/60Hz)		15 / 18
Dew point (°C)		-20
Drying temperature (°C)		80~160
Drying (regeneration) blower capacity (kW) (50/60Hz)		0.09 / 0.12
Regeneration heater capacity (kW)		1.5
Drying hopper	Effective capacity (L)	11
	Feeding volume (kg)	8
	Material contact surface	SUS / Pickling finish
Drying (regeneration) heater capacity (kW)		1.5
Convey-1 (L)		0.3
Convey blower capacity (kW) (50/60Hz)		0.42 (60Hz operation with inverter) (for both primary and secondary conveying)
Convey-2 (L)		0.6
Power supply	(kVA)	5.16 / 5.33
	(AT)	15
Compressed air requirement (L/min)		1 [ANR] (0.4~0.6MPa)
Cooling water requirement (L/min)		3 (0.1~0.3MPa, at 32°C)
Accessories	PCV flexible hose	φ 25 × 5m × 3 pcs
	Suction piping	φ 25 × 500L × 1 pcs
	Cable	Power cable 5m
Painting color	Flame	JPMA Y15-85A, semigloss
	Panel flame	JPMA Y159-50D, semigloss
Weight (kg)		160

*The dew point varies with weather conditions.

Options

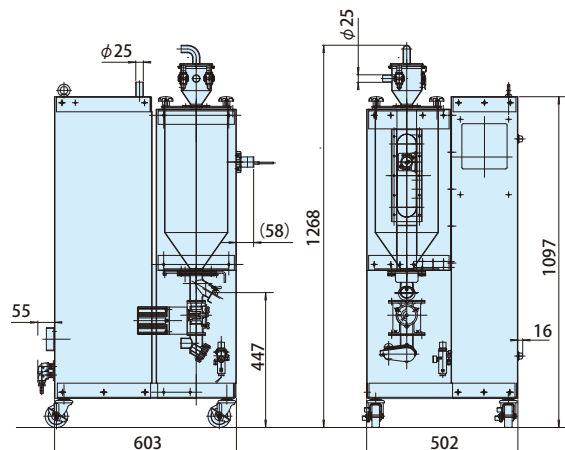
● Secondary two-way conveying

● Dew point checker
● Weekly timer

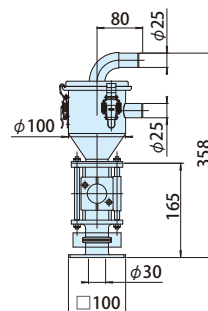
● Visual alarm

● Emergency stop button

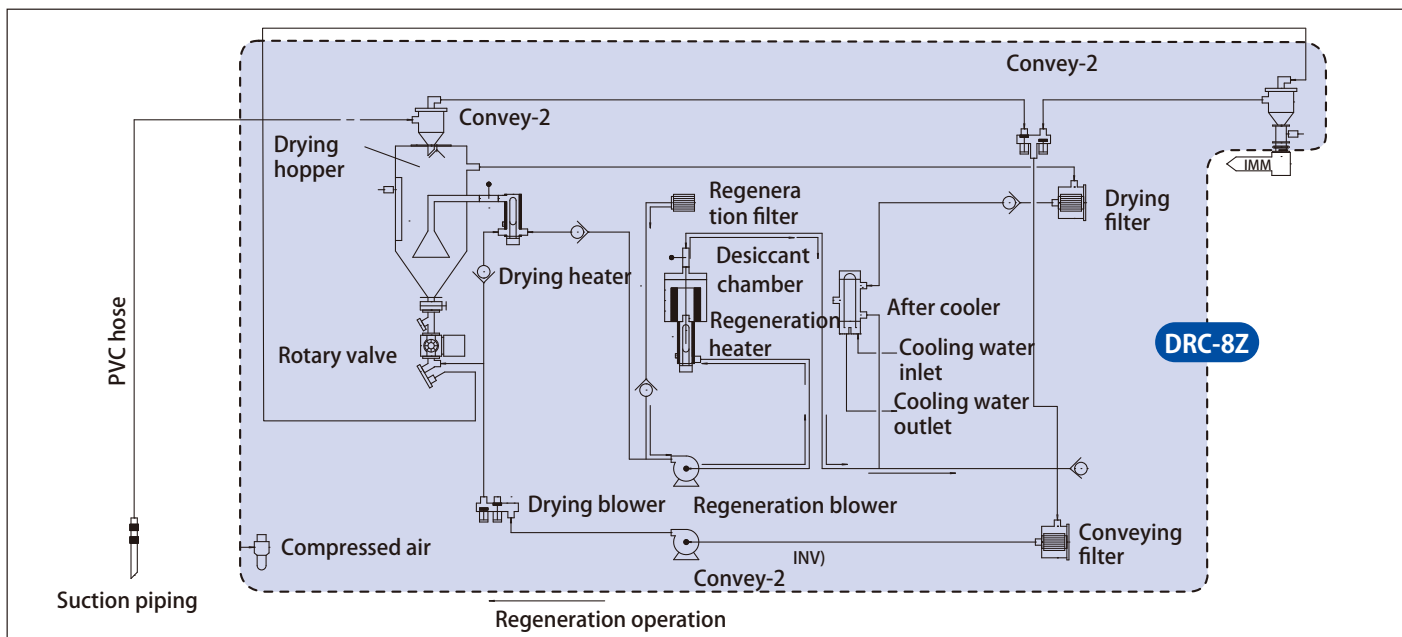
● Leakage breaker

DRC-8Z
Body

Loader hopper convey-2



Flow diagram



KAWATA U.S.A., INC.

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*These specifications are subject to change without notice.
*Please read the instruction manual carefully before use.

Total Systems Engineer

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