



CHALLENGER

Deoxygenation Dryer

DT series

CHALLENGER DT



DT-60Z

High performance nitrogen dryer satisfy condition of both low oxygen and low dew point.

By use of the nitrogen in high-efficiency, and with minimum utility, the problem of oxygen contained in the resin pellets are reduced. That make possible to process material efficiently and stably.

- Nitrogen drying system**

Drying in high nitrogen concentration atmosphere suppress yellowing and defects products due to oxygen.
- Low dew point**

By removing moisture from the unit circulation by the in-line dehumidification unit, the consumption of instrumentation air is reduced and low dew point is maintained.
- Maintenance improvement**

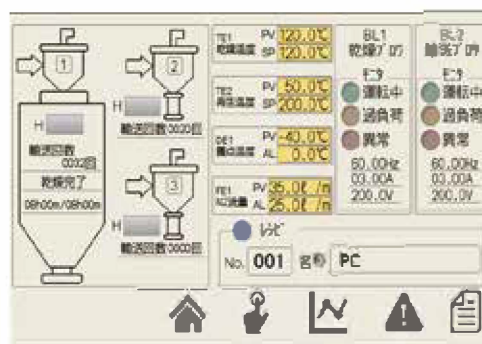
Drying and conveying filters, cyclone type dust collector, and operation panel are placed toward same direction for easy maintenance.
- Energy-saving**

Efficiency of the installation space charged amount has been significantly improved compared to the conventional large-scale nitrogen dryer. Only a part of circulation air is regenerated by the reduced adsorbent and required less energy consumption for regeneration.
- Intuitive operation**

Visual images: Intuitive operation by using symbols and mechanical drawings. With large-size touch panel, giving more information and operability is improved by using of main/sub screen.



Trend graph Operation history of the dryer can be seen at a glance.



Screen of 8-inch tablet Remote control with wireless LAN is also available. (Option)

Also suitable for optical grade special resin

PMMA	◎
COC	◎
COP	◎
Special polyester for optical use	◎
Special PC for optical use	◎
EXTEM*Resin/EXTEM*	◎
ULTEM*ULTEM*Resin/ULTEM*	◎

*Trademark of SABIC Innovative Plastics IP B.V.

High specification

Secondary closed conveying

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

Batch conveying by air cutting method

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

Cyclone dust collector

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

Double insulating hopper

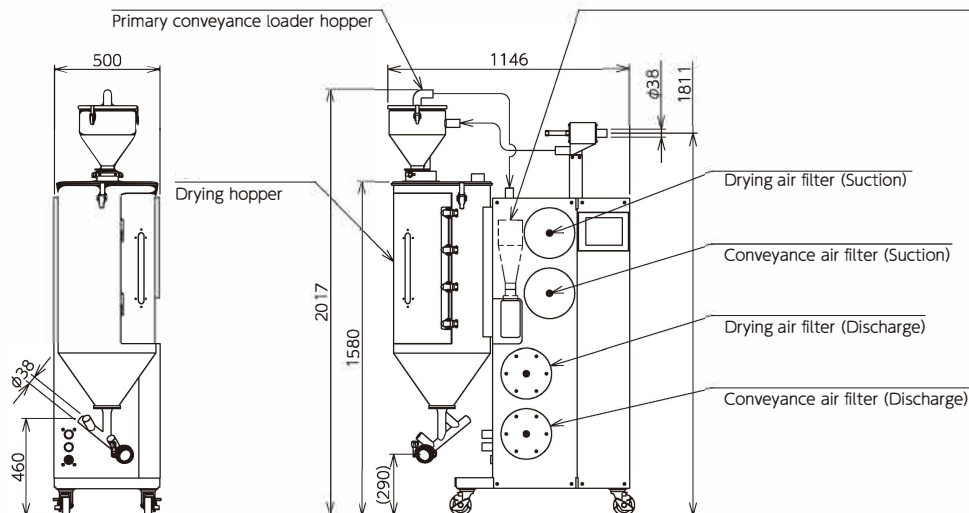
Energy saving and precise drying by means of double layered insulated hopper, including corn part

Options

- Optional Nitrogen separation membrane
- Conveying blower up a.as- 1.9kW
- Suction pipe Dia.38x650 removable 1pc
- Heat resistant non PVC flexible hose $\phi 38 \times 5m$
- Visual alarm (with buzzer)
- Connection cable additional 5m (Secondary conveying) 1 set
- Power consumption display
- Loader hopper replacement (secondary conveying) VL-02-3 → VL-07-3
- Emergency stop button
- Additional hopper unit XF VL-02-3X
- Additional full level switch (Movable on sight glass)
- Additional hopper unit XF VL-07-3X
- Simple capacity sign
- Additional valve for secondary line
- Additional material discharge for hopper cone
- Additional Nitrogen separation membrane

Capacity scale seal for drying hopper. Loaded volume in drying hopper is clear at a glance

Dimensions



Specifications

		DT-60Z
Feeding Volume	(kg)	60*1
Drying Hopper effective capacity	(L)	100
Dew point	(°C)	-40
Drying Temperature	(°C)	80~140
Drying Blower Capacity / Regeneration Blower Capacity	(kW) (60Hz)	0.85 (INV)
Drying Heater Capacacion Heater Capacity	(kW)	(Drying 2.7/Regeneration 0.8)
Convey2		VL-02-3
Conveying Blower Capacity	(kW) (60Hz)	0.85 (INV)
Power supply AC200V/200.220V 50/60Hz (3phase)	(kVA)	6.1/6.1,6.9
	(AT)	30
Compressed Air requirement	(L/min)	300(0.5~0.7MPa) (Pipe size φ12)
Weight	(kg)	260

*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.

*These specifications are subject to change without notice.

*Please read the instructions manual carefully before use.



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