

CDP25 – CDP50

Drying and Feeding Systems

The CDP25 - CDP50 Drying and Feeding Systems are designed to fulfil any and every stringent requirement in the field of optical lenses.

Application

4 kg/h and 8 kg/h of Polycarbonate are the drying and feeding capacities of the CDP25 and CDP50 units respectively. With an airflow ranging from 20 to 35 m³/h and a dew point of -40°C, the Polycarbonate undergoes the strictly necessary treatment to feed one or two injection moulding machines (IMM).



Optional features

- > Serial communication port
- > Daily/ weekly/ yearly timer
- > Remote operation interface control

Main characteristics

> Absence of contamination

The process and resin conveying air is filtered in multiple stages to collect particles having dimensions of 10, 2 and 0,3 µm

- 10 µm filter on resin suction probe
- 2 µm filter on vacuum unit
- 0,3 µm filter on process air

> Drying hoppers

The material is dried in mirror polished hoppers and conveyed in small batches in a closed loop fashion to the machine receivers that are also mirror polished and equipped with glass tube.

> Prevention of degradation

All drying hoppers are equipped with capacitor level sensor to adjust the quantity of Polycarbonate to be dried in accordance to the consumption of the injection moulding machines. This feature is automatically managed by the IMD (Intelligent Material Drying) control.

The material degradation is also prevented by the new soft-start function, the temperature increases in steps during the start-up phase, reaching set point after a pre-set time.

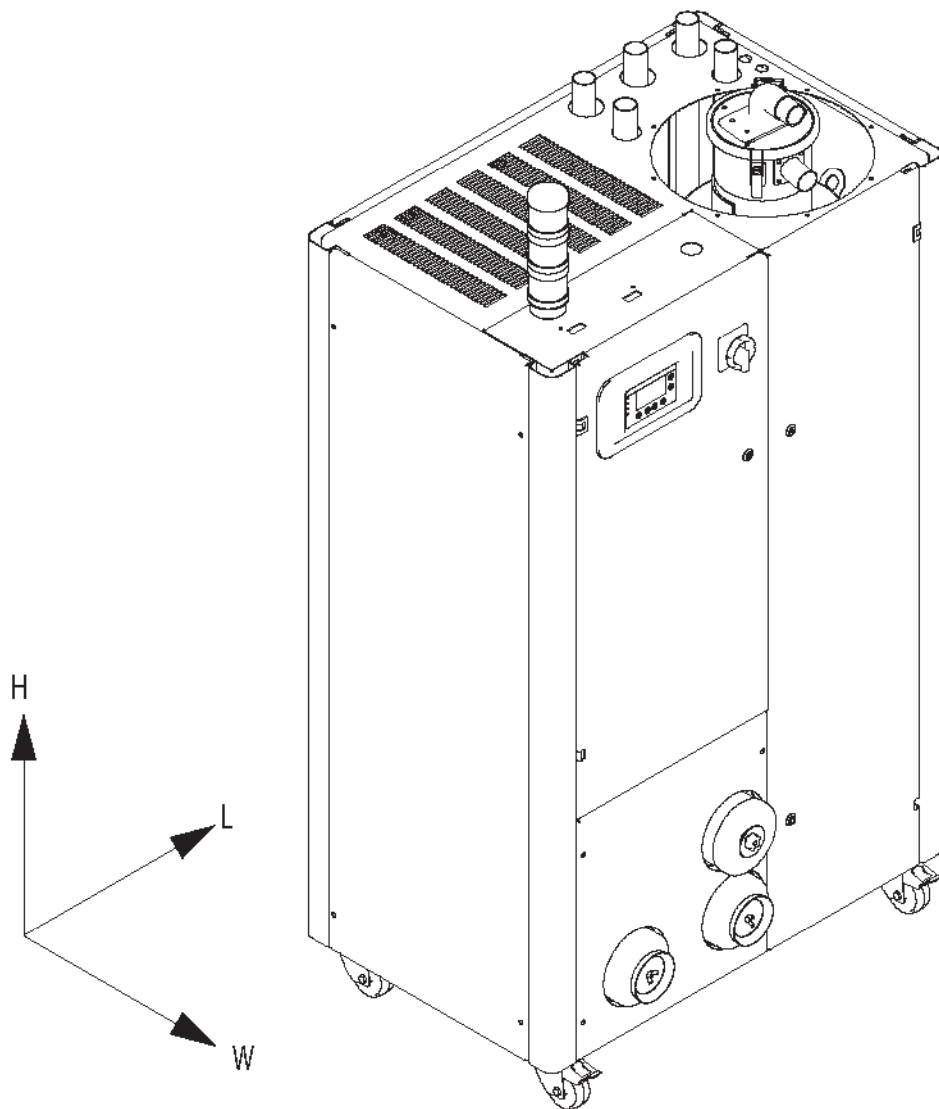
> Microprocessor control

Simplicity and ease of use are offered by the new operator interface panel (alpha-numerical messages), that provides complete monitoring of the operation status and possible alarm conditions.

Management of energy utilisation (IES, Intelligent Energy Saving) is one of the new features of the microprocessor control.

> Quick material drain

The particular construction of the pneumatic batch conveying valve installed at the bottom of the drying hopper provides simple access for rapid drainage of the material left in the hopper itself.



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Technical Data	CDP25 CDP25/1 - CDP25/2	CDP50 CDP50/1 - CDP50/2
Dryer		
Max capacity	4 kg/h	8 kg/h
Power supply	400V/50Hz 380-460V/ 60Hz	400V/50Hz 380-460V/ 60Hz
Total installed power	5.3 kW	5.5 kW
Dimensions (HxLxW)	1710x950x600 mm	1820x950x600 mm
Residence time for material	4 h	4 h
Process air flow	20 m ³ /h	35 m ³ /h
Process heater box outlet filter	0.3 m	0.3 m
Hopper		
Hopper volume	25 dm ³	50 dm ³
Level control	50% and 100%	50% and 100%
Conveying system		
Machine receivers (quantity)	max 2	max 2
Machine receivers (type)	GR1	GR1
Vacuum unit power	1.1kW	1.1kW

Optical Disc