

## Low Pressure Dryers

Our LPD (low pressure dryers) accelerate the polymer drying process by using a vacuum to lower the boiling point of water from 100°C to 56°C. The moisture is rapidly extracted from the heated material. Leaving it in a condition to be moulded or extruded.

### Features

- Fully automatic with fail safe alarm as standard
- Three material canisters internally mounted on a carousel which enables a continuous drying cycle
- Compact dimensions reduce footprint on shop floor when compared to equivalent desiccant dryers
- Operator friendly control panel with thumbwheels for setting drying temperature and cycle time
- Mobile design with easy access for cleaning
- Reduction in energy consumption of 70-80% when compared with other material drying methods

### Benefits

- Reduction in material drying times - typically a LPD will dry material in 1/6 of the time of a more traditional desiccant dryer
- Reduced maintenance costs when compared with a desiccant dryer
- Elimination of downtime incurred through material changes as the LPD dries product in batches
- 8-12 times less exposure to heat cycle dramatically reducing material degradation
- No excess material to re bag/decant at material changeover



Whatever your needs.....  
Whatever the polymer...  
We've got the right dryer for you...

### Summit Systems

Vanguard, Tame Park, Tamworth,  
Staffordshire B77 5DY  
Tel: 01827 265800  
[www.summitsystems.co.uk](http://www.summitsystems.co.uk)

Summit Systems Ltd. Company Registration Number: 2489937  
VAT Number: 549532127

# Low Pressure Dryers

Dryer Specification	LPD 30	LPD 12	LPD 200	LPD 1000
Standard version max. temp	150 °C	150 °C	150 °C	150 °C
High heat version max. temp	180 °C	180 °C	180 °C	180 °C
Throughput	15 kg/h	50 kg/h	90 kg/h	400 kg/h
Compressed air usage	0.7m <sup>3</sup> /h	3.4m <sup>3</sup> /h	4 m <sup>3</sup> /h	6 m <sup>3</sup> /h
Total installed power	3.47 kW	6.96 kW	7.8 kW / 10.2 kW	51.2kW

## Drying times

Material	Final Moisture %	Cycle Time (Minutes)	Drying Temp °C
ABS	0.10	20 - 25	80 - 85
ABS/PC	0.02	25 - 30	100
PA	0.20 - 0.10	20 - 30	80 - 85
PC	0.02	20 - 25	120
PUR	0.02	25	125 - 140

The above list is just an example of many different materials that can be dried



“Slash start up times and mould change times by fast drying”



Available from Summit

Gravimetric blenders, Vacuum hopper loaders, Material dryers, Central material handling, Masterbatch feeders, Granulators/ shredders, Robots/sprue pickers, Product conveying and sorting, Magnetic platens, Material storage, Fabrication, Tool heaters & chillers, Turnkey systems