

DRYING



Compressed air dryer

LUXOR CA A

 think materials management



LUXOR CA A COMPRESSED AIR DRYER

LUXOR CA A 60



LUXOR CA A 30



LUXOR CA A 15



LUXOR CA A 8



Efficient, accurate material drying is a crucial element in the processing of engineering plastics to ensure impeccable product quality. LUXOR CA A series compressed air dryers with ETA-process® and ETA plus® energy saving technology are specifically designed for supplying dried plastic granulate for many different plastics processing applications, with material throughputs up to 20 kg/h. Dryers can be mounted directly on the throat of the processing machine or on an adjacent support frame.

The LUXOR CA A dryers take factory supplied compressed air which is expanded to atmospheric pressure. This produces dry process air with a very low dew-point which is then heated to the required drying temperature. No desiccant is required.



Energy-saving drying bin

The drying bin as well as to the material discharge cone is heat insulated and thus guarantees stable conditions in the bin. The intelligent control removes only the compressed air you need. When the machine stops, the dryer goes into “dry hold” mode. Saving energy.

Maintenance-free

No moving parts, no desiccant material. LUXOR CA A will deliver the reliable performance you need.

Compact design

The LUXOR CA A dryers have been specially designed for small to medium material throughputs, with drying bin volumes ranging from 8 litres to 60 litres. A modular set of correctly sized drying equipment helps to meet the small tolerances without waste or contamination.

LUXORnet CA A

The LUXORnet CA A control offers user-friendly operation via a colour graphic display with touch screen. LUXORnet CA A incorporates comprehensive functions for operation and process control, recipe management, reporting for quality assurance, as well as enhanced service functions and trend charts. ETA plus® airflow control with temperature adaptation is available as standard.

To simplify the input of the material-related drying parameters such as drying time and temperature, a material database is integrated in the control. The database includes a data pool with parameters for about 70 standard materials and can accommodate up to 100 data sets as specified by the customer.

The control utilises modern, flexible Bus technology and can manage up to 8 LUXOR CA A compressed air dryers.

LUXORnet technology stands out due to its modern, Ethernet-based open network architecture enabling standard networking with all other motan CONTROLnet controls.



Drying bin geometry

The ratio between the height and diameter of a drying bin is critical to how a material flows through the bin. Incorrect mass flow can lead to “dead” corners where the material is over dried or the material will flow too quickly through the middle of the bin resulting in under dried material.

The optimum dimensions of the cylindrical drying bins are determined by calculation and practical tests, guaranteeing correctly dried material is delivered to your processing machine.

METRO VL compressed air loader

The drying bin can be filled reliably and automatically with the METRO VL compressed air venturi loader. It is virtually maintenance free and silent.



LUXOR CA A COMPRESSED AIR DRYER

Air diffuser

The cleverly designed air diffuser provides uniform distribution of the dry air ensuring that even material at the material bin outlet is kept dry and at a constant temperature.

Stainless steel construction

The complete drying bin body is made from stainless steel. This is ideal for contamination critical process applications.



LUXOR CA A TECHNICAL DATA

Technical data				
Compressed air dryer Typ LUXOR ...	CA A 8	CA A 15	CA A 30	CA A 60
Drying bin volume (l)	8	15	30	60
Air flow rate (m³/h)	3 - 8	4 - 12	6 - 15	10 - 25
Compressed air oil and water-free (bar)	5 - 6	5 - 6	5 - 6	5 - 6
Max. temperature (°C)	180	180	180	180
Power supply (V/Hz)	1/N/PE 230/50	1/N/PE 230/50	1/N/PE 230/50	1/N/PE 230/50
Dimensions (mm)				
H	744	751	886	1074
H (with open lid)	772	811	1012	1274
B	440	440	450	517
L	555	565	635	709
L (without control)	398	408	478	552
Weight approx. (kg)	20	22	27	37
Colour RAL	7040	7040	7040	7040

Subject to technical changes.



YOUR BENEFITS

- Reliability and efficiency
 - correct air quantity setting and display of decompressed air
 - the air quantity is infinitely variable to suit the material type and throughput
- Fully-insulated cylindrical drying bin
 - low energy consumption and uniform drying
- Lightweight
 - for easy mounting on machine
- Operational safety
 - flow monitoring of the process air
 - separate safety thermostat
 - heater cool-down sequence when dryer is switched off
 - large alarm beacon
- Flexibility
 - drying temperatures up to 180°C
 - can dry all types of free-flowing plastic granulate
- Hinged lid with flange for hopper loader
 - for easy cleaning and material conveying
- Proven control
 - simple operation
 - accurate temperature control
- Options available:
 - Dew-point indicator
 - various drying programs to ensure ideal drying with minimum energy input: (keep-dry mode/ continuous mode/batch mode)
 - Venturi loader METRO VL

To find your local partner, please visit our website.

