



DRYING

LUXOR SG

Dry air dryer



ZERO LOSS

LUXOR SG

DRY AIR DRYER

The dry air dryers of the LUXOR SG series represent the latest generation of small dryers. In the dryers, the well-known reliable process technology is combined with the latest control technology for a perfect drying result. The ecoPROTECT function is installed as standard and saves between 6 and 10.5% energy depending on the size of the dryer and also ensures a material-friendly drying process. The LUXOR SG dry air generator with BIN SG drying bin forms a complete unit with a single power supply and is supplied ready for connection. The series consists of three dry air generators with drying capacities from 30 to 80 m³/h. Each dry air generator is combined with various specified drying bins ranging in size from 60 to 250 litres. The LUXOR SG is operated without compressed air feed. This saves you energy and costs.

Dry-air generator

The LUXOR SG series has twin high capacity desiccant beds to ensure continuous drying. The beds cartridges are made of stainless steel. A dew-point indicator, aftercooler and LowDewpoint function are optionally available for this model. The housing design allows full access to all components and offers optimal accessibility for maintenance work.

ecoPROTECT

The insulated stainless steel drying bin is standard with the ecoPROTECT material protection function, which prevents thermal damage to the plastic and saves between 6 and 10.5% energy during the drying process, depending on the size of the dryer. This feature helps you to find the optimal drying process. During the drying process, this function automatically regulates the drying parameters.

Desiccant beds



LUXOR SG / BIN SG
with METRO SG HES



Counter current regeneration

The counterflow of regeneration air results in faster dehumidification of the desiccant beds, which additionally saves energy. In addition, the dryer runs without compressed air as standard. This saves energy and costs.

Drying bin

The drying bin is made of stainless steel and fully insulated with an individual heater for the process air. The cylindrical design ensures an even distribution of the dry air and guarantees that the material at the bin outlet is kept dry and a constant temperature.

The larger 100, 150 and 250 litre drying bins have an inspection door for ease of access, and are fitted with a sight glass.

The door fits the shape of the bin in order to optimise material flow and simplify cleaning. A flange for mounting a motan hopper loader is provided on all bins.

BIN SG 150



Suction box



Optimized suction box

The optimized suction box ensures the ideal transfer of the dried plastic granules from the drying bin to the conveying system. The suction box has integrated sampling so that the process quality can be checked.

LUXORnet SG control

The modern microprocessor control offers the simplest handling. The control panel display always shows the current drying status and the drying bin temperatures can be set individually. The central control has a touch display and is integrated in the dry air generator. This enables a user-friendly operation of the dry air generator and the drying hopper.

For the control system, 33 user interface languages can be selected, and further functions are integrated:

- Diagnostic function
- Material database
- Weekly timer
- Automatic three phase power correction
- Standard network interface (Ethernet) for integration in the motan CONTROLnet network

LUXORnet SG control

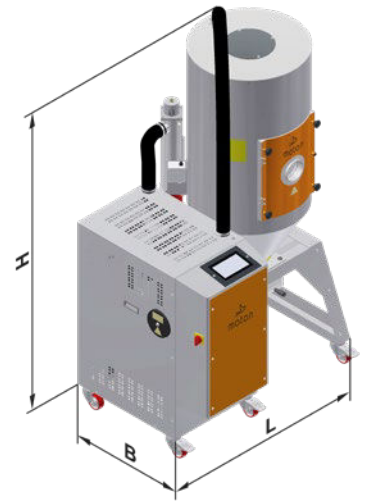


LUXOR SG

TECHNICAL DATA

| Technical data | | | | | | |
|--|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| Type | LUXOR SG 30 / BIN SG 60 | LUXOR SG 30 / BIN SG 100 | LUXOR SG 50 / BIN SG 100 | LUXOR SG 50 / BIN SG 150 | LUXOR SG 80 / BIN SG 250-L | LUXOR SG 80 / BIN SG 250-H |
| Drying bin volume (l) | 60 | 100 | 100 | 150 | 250 | 250 |
| Average dry air flow (m ³ /h) | 30 | 30 | 50 | 50 | 80 | 80 |
| Temperature range (°C) | 60-140 | 60-140 | 60-140 | 60-140 | 60-140 | 60-180 |
| Power supply | 3//PE 400/440/480V 50/60Hz | | | | | |
| Fuse rating (A) | 20 | 20 | 20 | 20 | 20 | 20 |
| Control voltage (V DC) | 24 | 24 | 24 | 24 | 24 | 24 |
| Weight approx. (kg) | 135 | 172 | 173 | 179 | 194 | 204 |
| Dimensions (mm) | | | | | | |
| L | 1034 | 1135 | 1135 | 1135 | 1240 | 1240 |
| B | 808 | 808 | 808 | 808 | 854 | 854 |
| H | 1497 | 1745 | 1745 | 1890 | 2125 | 2125 |
| Colour RAL orange/grey | 2011/7040 | | | | | |

LUXOR SG / BIN SG



Performance data

Material (throughput rates kg/h)

| | Drying temp. (°C) | Residence time (h) | LUXOR SG 30 BIN SG 60 | LUXOR SG 30 BIN SG 100 | LUXOR SG 50 BIN SG 100 | LUXOR SG 50 BIN SG 150 | LUXOR SG 80 BIN SG 250-L | LUXOR SG 80 BIN SG 250-H |
|-----------------|-------------------|--------------------|-----------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|
| ABS | 80 | 2.5 | 15 | 24 | 24 | 37 | 61 | 61 |
| CA | 75 | 2.5 | 18 | 30 | 30 | 44 | 74 | 74 |
| CAB | 75 | 3 | 14 | 23 | 23 | 34 | 57 | 57 |
| CP | 75 | 4 | 11 | 18 | 18 | 26 | 44 | 44 |
| EPDM | 80 | 4 | 9 | 16 | 16 | 24 | 39 | 39 |
| PA 6/66 | 75 | 5 | 8 | 13 | 13 | 20 | 33 | 33 |
| PA 6 40% GF | 80 | 5 | 10 | 17 | 17 | 25 | 42 | 42 |
| PA 6.10/.11/.12 | 80 | 5 | 7 | 12 | 12 | 18 | 30 | 30 |
| PAEK | 140 | 4 | 11 | 19 | 19 | 28 | 47 | 47 |
| PBT | 110 | 3 | 15 | 25 | 25 | 38 | 63 | 63 |
| PC | 120 | 2.5 | 18 | 29 | 29 | 44 | 73 | 73 |
| PC/PBT | 110 | 3.5 | 12 | 20 | 20 | 30 | 51 | 51 |
| PE | 90 | 2 | 17 | 28 | 28 | 41 | 69 | 69 |
| PE black | 90 | 3 | 11 | 18 | 18 | 28 | 46 | 46 |
| PEEK | 140 | 4 | 12 | 19 | 19 | 29 | 48 | 48 |
| PEI | 140 | 5 | 9 | 15 | 15 | 23 | 38 | 38 |
| PES | 140 | 4 | 12 | 20 | 20 | 30 | 50 | 50 |
| PET | 140 | 7 | 7 | 12 | 12 | 18 | 30 | 30 |
| PI | 140 | 2 | 24 | 41 | 41 | 61 | 101 | 101 |
| PLA | 100 | 3 | 14 | 24 | 24 | 36 | 60 | 60 |
| PMMA | 80 | 2.5 | 17 | 28 | 28 | 41 | 69 | 69 |
| POM | 110 | 2.5 | 20 | 33 | 33 | 49 | 82 | 82 |
| PP | 100 | 2.5 | 12 | 21 | 21 | 31 | 52 | 52 |
| PP talc 40% | 100 | 3 | 14 | 24 | 24 | 36 | 59 | 59 |
| PPO (PPE) | 110 | 2.5 | 15 | 25 | 25 | 37 | 62 | 62 |
| PPS | 140 | 3.5 | 13 | 22 | 22 | 33 | 56 | 56 |
| PS | 80 | 2 | 18 | 31 | 31 | 46 | 76 | 76 |
| PSU | 130 | 3 | 15 | 24 | 24 | 37 | 61 | 61 |
| PVC | 70 | 2 | 24 | 41 | 41 | 61 | 101 | 101 |
| SAN | 80 | 2.5 | 15 | 25 | 25 | 38 | 63 | 63 |
| SB | 80 | 2 | 19 | 31 | 31 | 47 | 78 | 78 |
| TPU (PUR) | 80 | 3.5 | 12 | 20 | 20 | 30 | 50 | 50 |

The throughput rates indicated in the table are based on approx. values applicable to commercially available materials. Subject to technical changes

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