

DRYING



Hot air dryers

LUXOR HD

 think materials management



LUXOR HD HOT AIR DRYERS

LUXOR HD 400



LUXOR HD 400



LUXOR HD

Optimal and constant production conditions are essential for high product quality and efficient production. motan's range of LUXOR HD hot air dryers offers the most effective way of conditioning moderately hygroscopic plastic granules for processing and removal of surface moisture. Pre-heating of raw materials stabilises the production parameters and reduces processing energy costs.

motan's fully insulated LUXOR HD hot air dryers cover a performance range from 7 to 1100 kg per hour. The dryers can either be mounted directly on the throat of the processing machine (up to 150l) or on a support frame beside the machine.

All models have a microprocessor-controlled temperature regulator and are equipped with a safety thermostat to prevent overheating of materials.

The use of corrosion-resistant materials ensures a long lifetime and avoids contamination of the plastic granules.

Economy

Pre-heated material increases the efficiency of the processing machine and thus productivity, while simultaneously decreasing

energy costs. Heating raw material in a hot air dryer is up to 38% more efficient than when material is heated up in a processing machine. Fully insulated and equipped with a specially designed air diffuser, the LUXOR hot air dryers warm up the plastic granules efficiently and with low energy consumption.

Surface moisture is removed reliably. This minimises rejects and guarantees a constantly high product quality. At the same time, the LUXOR hot air dryer requires very little maintenance.

Reliability

World-wide, many plastic processors rely on motan's sturdy and efficient products. The LUXOR hot air dryers are built to the same high engineering and design standards which have established motan's reputation for the industry's most robust and reliable equipment.

Quality

Processors need high performance equipment which will provide them with consistent finished product quality. The LUXOR hot air dryer hoppers are built to meet these high quality expectations with competitive prices and no compromise on performance. LUXOR hot air dryers, like all motan products, carry CE certification.

LUXOR HD 150



LUXOR HD 60



LUXOR HD 30



Central air diffuser

The specially designed central air diffuser guarantees a homogeneous distribution of hot air throughout the plastic granules.

Drying bins

The smaller range of the light-weight fully insulated drying bins have stainless steel cladding around the insulation. They are designed for direct mounting onto the throat of the processing machine. All hoppers have a hinged lid with a flange for mounting a hopper loader for automatic refilling of plastic granules, and a big access door or sight glass.

Control panel

An easy-to-use digital temperature controller which displays process and set values and has an alarm indication. The self-optimising temperature controller PID reliably keeps the drying temperature in the tolerance range of $\pm 1^\circ\text{C}$. A built-in safety thermostat prevents material from being overheated.

Material discharge

The hot air dryers of the LUXOR HD series have slide gates as standard. For the bigger LUXOR hot air dryers, a greater variety of accessories (like suction boxes and slide gates for discharging material) is available.

YOUR BENEFITS

- Continuously high product quality
 - removes surface moisture and pre-heats the material before processing
 - Higher productivity and efficiency
 - by processing pre-heated material
 - Low energy consumption
 - a fully insulated and energy-saving hot air dryer
 - Easy to use
 - self-optimising temperature controller with process and set value display as well as alarm indication
 - easy to clean
 - light in weight
 - long service intervals
 - Operational safety
 - homogeneous air distribution
 - accurate temperature control
 - safety thermostat
 - CE certification
 - Short delivery time and low price
 - Heating raw material in a hot air dryer is up to 38% more efficient than heating the material in a processing machine
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LUXOR HD

TECHNICAL DATA



Technical data LUXOR HD 30-150			
Dry air dryer Type LUXOR ...	HD 30	HD 60	HD 150
Drying bin volume (l)	30	60	150
Air flow rate (m³/h)	25	50	100
Max. temperature (°C)	130	130	130
Connected load (kW)	2.0	2.0	5.0
Max. back-up fuse (A)	16	16	16
Control voltage (V DC)	24	24	24
Power supply (V/Hz)	1/N/PE 230/50		3/N/PE 400/50
Dimensions (mm)			
H	713	900	1190
B	525	600	627
Ø d	342	416	537
Weight approx. (kg)	24	30	56
Colour RAL (orange/grey)	2011/7040	2011/7040	2011/7040

Technical data LUXOR HD 250-600			
Dry air dryer Type LUXOR ...	HD 250	HD 400	HD 600
Drying bin volume (l)	250	400	600
Air flow rate (m³/h)	80	120	200
Max. temperature (°C)	140	140	140
Connected load (kW)	3.3	5.3	7.0
Max. back-up fuse (A)	16	16	16
Control voltage (V DC)	24	24	24
Power supply (V/Hz)	3/ /PE 400/50		
Dimensions (mm)			
H1	2282	2673	2673
H2	2700	3100	3200
L	1165	1165	1165
B	1000	1000	1000
Weight approx. (kg)	195	240	270
Colour RAL (frame)	7040	7040	7040

Technical data LUXOR HD 900-2400				
Dry air dryer Type LUXOR ...	HD 900	HD 1200	HD 1800	HD 2400
Drying bin volume (l)	900	1200	1800	2400
Air flow rate (m³/h)	300	400	600	800
Max. temperature (°C)	140	140	140	140
Connected load (kW)	12.55	17.55	25.60	36.10
Max. back-up fuse (A)	35A	35A	50A	63A
Control voltage (V DC)	24	24	24	24
Power supply (V/Hz)	3/ /PE 400/50			
Dimensions (mm)				
H1	2890	3263	3568	3761
H2	3500	3850	4150	4250
L	1739	1739	1739	2286
B	1250	1250	1250	1500
Weight approx. (kg)	420	450	530	840
Colour RAL (frame)	7040	7040	7040	7040

Subject to technical changes

Performance data																						
Material	Drying temp. (°C)	Drying time (h)	HD 30 (kg/h)*		HD 60 (kg/h)*		HD 150 (kg/h)*		HD 250 (kg/h)*		HD 400 (kg/h)*		HD 600 (kg/h)*		HD 900 (kg/h)*		HD 1200 (kg/h)*		HD 1800 (kg/h)*		HD 2400 (kg/h)*	
			MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR	MH	SMR
ABS	80	2-3	9	19	15	32	31	64	50	102	74	153	124	255	186	383	248	510	372	765	496	1020
CA	75	2-3	9	18	15	29	31	59	50	94	74	141	124	235	186	353	248	471	372	706	496	942
CAB	75	3	9	16	14	27	29	55	46	87	69	131	115	219	173	328	230	137	345	656	460	874
PC	120	2-3	8	11	13	21	27	54	43	89	64	143	107	214	161	321	215	429	322	643	429	857
PE	90	2	6	14	10	28	19	70	31	117	46	187	77	280	115	420	153	560	230	840	307	1120
PE black	90	3	6	11	10	23	19	57	31	95	46	152	77	228	115	342	153	456	230	684	307	912
PMMA	80	2-3	8	17	14	28	27	56	44	90	66	135	110	226	164	338	219	451	329	677	438	902
POM	110	2-3	8	12	14	23	28	58	44	97	66	155	110	232	165	348	221	464	331	695	441	927
PP	100	2-3	9	16	14	32	29	81	46	135	69	216	115	324	173	486	230	648	345	972	460	1296
PP Talkum 40%	100	3	7	15	12	30	24	75	38	125	57	200	95	300	142	450	189	600	284	900	379	1200
PS	80	2	9	19	15	32	31	64	50	102	74	153	124	255	186	383	248	510	372	765	496	1020
PVC	70	2	10	15	17	31	34	77	54	129	81	206	134	309	201	464	268	618	403	928	537	1237
SAN	80	2-3	9	19	15	32	31	64	50	102	74	153	124	255	186	383	248	510	372	765	496	1020
SB	80	2	9	19	15	32	31	64	50	102	74	153	124	255	186	383	248	510	372	765	496	1020

* The throughputs in the table refer to MH=maximum heat-up or SMR=surface moisture removal

Subject to technical changes

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