

LA 750

ASCO

TECHNOLOGY FOR HEROES.



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As a family business, we have been researching, developing and producing high-quality machines in Austria since 1987. With one objective: to facilitate work for our customers all over the world.

Over a production and storage area of more than 18,000 m², technically perfected machines are manufactured, which impress with their reliability, functionality and cost-effectiveness.

As a dynamic company, we courageously drive innovation and always put customer benefit first, because we are convinced that real innovations and ideas are created where they are needed – in practice.

We are proud of the strenuous, energy-sapping and sometimes dangerous work that our customers carry out. We have the utmost respect for their efforts in a tough working environment. And we are aware of the enormously important contribution our customers make to a sustainable environment.

LASCO – Technology for Heroes

Land

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Forestry technology Drying technology

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Functional principle and construction of the LATherm woodchip burner range





High-performance air heat exchanger: Built for drying and heating!





The transport fan draws in fresh air, which is then passed through the air heat exchanger. This heats the air in a completely emissionfree, hygienic process.

Very high air output temperatures are possible, because there is no transfer to water.



The entire woodchip range is supplied with a modern touchscreen controller.

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WOODCHIP AIR HEATING

Our woodchip hot-air ovens are available with rated heating outputs from 150 kW to 2500 kW. In contrast to firewood hot-air ovens, the burners fired by woodchips are fully automated. The units are ready-to-use systems and equally portable.

This means that our customers can install the hot-air oven at different locations. The integrated day hopper provides for sustained, consistent heating output. On units with rated outputs of 750 kW and above, the fuel container is mounted externally.

A comprehensive redesign of the combustion system has yielded numerous benefits. Recordbreaking emission values mean that the generators qualify for subsidies in nearly all European countries – without any additional filter systems.

The new, fully automatic fuel detection system not only sets new standards in operating convenience, it also provides an even higher efficiency level and, consequently, extended maintenance intervals.



Performance data

	H150 H250		H750	H2500		
Part no.:	117042	117043	117044	-		
Rated heating output:	max. 150 kW	max. 240 kW	max. 750 kW	max. 2500 kW		
Fuel thermal output:	max. 165 kW	max. 260 kW	max. 830 kW	max. 2780 kW		
Ignition:	automatique	automatique automatique		manuel		
Control:	Automatic					
Combustion:	Step grate combustion					
Hopper:	5,2 m ²	5,2 m²	External container with extraction system			
Power supply:	380 V					
Max. intake temperature:	approx. 45°C					
Max. heating at max. air output:	45°C	76°C	89°C (at 26,000 m3/h)	approx. 135°C		
Max. output air flow rate:	10 000 Bm³/h	10 000 Bm³/h 30 000 Bm³/h		100 000 Bm³/h		
Weight (net, w/o fuel):	approx. 2 400 kg	approx. 2 400 kg	approx. 3 500 kg	approx. 12 000 kg		
Flue gas diameter:	200 mm	200 mm	250 mm	500 mm		
Hot air diameter:	600 mm	700 mm, elliptical	2 x 900 mm	Selectable to meet customer requirements		
Design:	Portable all-	in container	Portable all-in container, external woodchip store			
Woodchip quality:	Woodchips; ÖNORM C4005; C2; P16; F15; M25; A3.0					
Fuel consumption:	approx. 0,2 m ³ /h approx. 0,33 m ³ /h		approx. 1 m³/h	approx. 2,5 m³/h		
Controller:	B & R touchscreen display					
Power levels:	50 % – 100 % (variable)					
Options:	Fully automatic fuel selection Fuel selection dampness					
Recording:	Hours run meter, output meter Hours run and output meter					
Thermostat:	Remote thermostat connection					
Other components:	Cyclone, sevenday heating program Mo–Su, heat metering (calculation value), de-ashing system, flue gas temperature sensor, combustion chamber sensor		Multi-cyclone with flue gas recirculation, heating program (Mo–Su), heat metering (calculation value), de-ashing system, lambda	Multi-cyclone with flue gas recirculation, heating program (Mo–Su), heat metering (calculation value), de-ashing system, lambda		
Option :	Remote maintenance (also via mobile phone), variable output control, pressure-resistant speed-controlled radial fan, lambda control unit, BAFA measuring and logging box, room thermostat for external start/stop, filling funnel		Remote maintenance (also via mobile phone), variable output control with temperature sensor connection, room thermostat for external start/stop			

Dimensions

H150 // H250





H750





H2500





PELLET AIR HEATERS

The pellet-fired air heaters are designed as container systems, which makes them portable.

Equipped with a small pellet silo, heating and drying tasks can be carried out without much installation work.

Position the hot-air oven. Connect the power supply and the hot-air hose, then start the unit.

Easy to operate

The control system of our pellet burners is constructed as simply as possible and comprises:

- Mains isolator
- ON/OFF switch
- Operating light
- Fault indicator
- Operating notification
- External start/stop

Controlled (hall) temperature

The external start/stop connection allows time switches or thermostats to be connected. Then the pellet hot-air oven starts automatically on demand.

Dimensions in mm







Pellet hour hopper with fitted high-performance turbine to pellet silo

Specifications and dimensions

	P50	P150
Part no.:	117038	117033
Rated heating output:	max. 50 kW	max. 150 kW
Fuel thermal output:	max. 55 kW	max. 165 kW
Ignition:	Automatic	Automatic
Control:	Automatic	Automatic
Combustion:	Burner plate over underfeed supply	Burner plate over underfeed supply
Power supply:	380 V / 16A	380 V / 16A
Max. air output temperature:	100°C 110°C	
Max. heating:	approx. 45 °C	approx. 65 °C
Fuel consumption:	approx. 11 kg pellets/h	approx. 33 kg pellets/h
Hopper:	externe	externe
Weight (w/o fuel):	approx. 510 kg	approx. 1000 kg
Flue gas diameter:	180 mm	180 mm
Hot air diameter:	400 mm	600 mm
Design:	Portable container	Portable container
Pellets :	as per EN 14961-2, cat. A1	as per EN 14961-2, cat. A1
Max. output air flow rate:	up to 5000 Bm3/h	up to 9000 Bm3/h
Recording:	Hours run meter	Hours run meter
Thermostat:	Option: External start/stop	Option: External start/stop





Pellet silos



	Part no.:	Silo (m³)	P50*	P150*	А	С	D	E
SHP Pellet 2	117104	2 m ³	appr. 125 °h	appr. 41 °h	2100	-	1230	-
SHP Pellet 8	117106	8 m ³	appr. 495 °h	appr. 165 °h	6033	200	1915	2500
SHP Pellet 10	117107	10 m ³	appr. 630 °h	appr. 210 °h	6278	300	2110	2800
SHP Pellet 12	117108	12 m ³	appr. 750 °h	appr. 250 °h	6858	300	2100	2800
SHP Pellet 15	117109	15 m³	appr. 945 °h	appr. 315 °h	6983	300	2360	3000
SHP Pellet 20	117110	20 m ³	appr. 1260 °h	appr. 420 °h	8145	400	2360	3000
SHP Pellet 25	117111	25 m ³	appr. 1590 °h	appr. 530 °h	9369	400	2385	3000
SHP Pellet 31	117112	31 m ³	appr. 1965 °h	appr. 655 °h	10571	400	2385	3000



With the 5-way pellet distribut or, up to five pellet burners can be supplied with pellets from one pellet silo.

We supply a separate distributor for single-burner operation.

FIREWOOD AIR HEATING

Simple technology – high output

We can supply you with log and firewood hot-air ovens with rated heating outputs from 29 kW to 399kW. The hot-air generators fired by logs are equipped with lifting hooks and forklift pockets. All log and firewood hot-air ovens are portable units. Thanks to their design, they can be sited outdoors. There are therefore no additional costs creating installation structures. Their simple system structure and manual charging make log-fired air heaters highly interesting in terms of acquisition costs.

Performance data & dimensions

	F28 C.V.	F55 C.V.	LA 115	LA 325	LA 425
Part no.:	117089	117090	117091	117092	117093
Rated output:	max. 29 kW	45 kW	115 kW	325 kW	399 kW
Power connection:	230 V	230 V	380 V	380 V	380 V
Air output:	2 200 Bm³/h	3 500 Bm³/h	6 300 Bm³/h	17 800 Bm³/h	26 000 Bm³/h
Consumption:	13 kg/h	20 kg/h	30 kg/h	85 kg/h	125 kg/h
Combustion chamber depth:	500 mm	660 mm	740 mm	1 230 mm	1 900 mm
Amount of fuel in combustion chamber:	0,08 m³	0,10 m³	0,15 m³	0,45 m³	1,20 m ³
Nominal smoke tube diameter:	180 mm	180 mm	180 mm	200 mm	250 mm
Air output:	1x400 mm	1x400 mm	1x400 mm	2x400 mm/1x600 mm	2x500 mm
Gewicht:	170 kg	305 kg	415 kg	850 kg	1 575 kg
l x b x h:	920 x 550 x 2060 mm	1150 x 700 x 2250 mm	1750 x 980 x 2710 mm	2280 x 1290 x 3380 mm	3400 x 1440 x 4180 mm

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It need not always be high-grade timber

Many companies ask themselves: What do we do with the wood waste? How do we recycle old pallets? Firewood air heating systems can also be charged with these materials. Branches and shredded waste wood therefore still have a practical use for heating and drying!

Controlled warm air

On request, you can be supplied with an optional output controller that allows you to regulate the desired air output temperature conveniently by thermostat.

SAMPLE HEATING **APPLICATIONS**

LATherm hot-air generators allow a wide variety of building structures to be heated quickly, easily and cost-effectively

- + Greenhouses and hothouses
- + Production halls and warehouses
- + Sports and trade fair halls
- + Event and festival marguees
- + Stables such as poultry houses
- + Construction site drying and heating



Greenhouse heating systems for vegetable and flower growing are operated with LATherm units.



Thanks to short set-up times and affordable fuel costs, LATherm hot-air generators are also suitable event heating.



(1) Air heating, (2) Possible pellet silo, (3) Temperature sensor, (4) Hot air hose

- Additional benefits
- + Straightforward, cost-effective heat distribution by hot air hose
- + LATherm heating systems generate up to 100,000 m3/h of hot air, depending on model
- + Uniform heat distribution through air louvres from one end of the hall to the other
- + Event and festival marguees
- + Temperature sensors provide for a high level of heating system automation



Henhouse and turkey shed heating: A hot air hose suspended from the ceiling ensures uniform heat distribution.

SAMPLE DRYING APPLICATIONS

Hay drying



We have been planning and installing hay drying Our round bale systems are designed to match plants all over Europe for more than 30 years. Every hay drying system is different, so they are different systems, we offer drying solutions for planned individually. In poor weather, an LATherm hot-air generator takes control of hot air provision. This means that hay can be dried in virtually any weather. The entire drying process is controlled by a LASCO drying controller.



Hop drying



In the oast house, hops are dried in tiers of very low density. Moist hops are loaded onto the uppermost floor and transported downwards during the drying process. The hops on the lowest level have reached their final moisture content. The correct conditioning of the drying air is decisive for a high guality of the hop cones.

Maize and cereal drying



Operation of our air heaters is CO2-neutral! With air output temperatures of up to 130°C, we can cover a wide range of applications. A very high output is required particularly for maize drying. Temperature control precision of up to ±1°C enables drying of sensitive materials as well. We can meet any challenge with our systems!

Round bale drying



the size of our customers' operations. With three newcomers as well as professionals. Ideally, a round bale drying system is equipped

with an LATherm hot-air generator. This

ensures shorter drying times and increases the effectiveness of the system.

Wood drying



Wood is the fuel type of the future. The calorific value of wood fresh from the forest can be improved from 2 kWh/kg to up to 4 kWh/kg by rapid drying to below 20%. Lower fuel consumption reduces the cost of wear on the heating system. The low investment costs make wood drying additionally attractive.

Special applications



We would be pleased to plan your individual drying solution together with you. Drying of herbs, special crops, waste or raw materials for further processing. What product do you want to dry? We look forward to your enguiry!

Accessories



Hot air hoses

The hot air hoses are available in different designs and sizes and are pressure-resistant up to 2000 Pa. The individual hose connections are stitched rather than adhesively bonded. This results in a longer service life.



Insulated hot air hoses

In order to keep heat losses as low as possible, we offer insulated hot air hoses in various designs. Highly heatresistant variants for connecting directly to a hot-air oven rank among the most popular products. The material used in these versions withstands a continuous load of 100°C.



Further products





LASCO hay crane





Various temperature sensors

We offer the right temperature control for every application. A PT 100 is able to regulate variably between 40% and 100%, thereby achieving an accuracy of ±2°C, whereas a thermostat is able to start or stop our air heating systems.



Stainless steel smoke tube assembly

We offer the suitable smoke tubes for every air heating system. The tubes made of stainless steel are supplied as a complete set and are easy to install.





