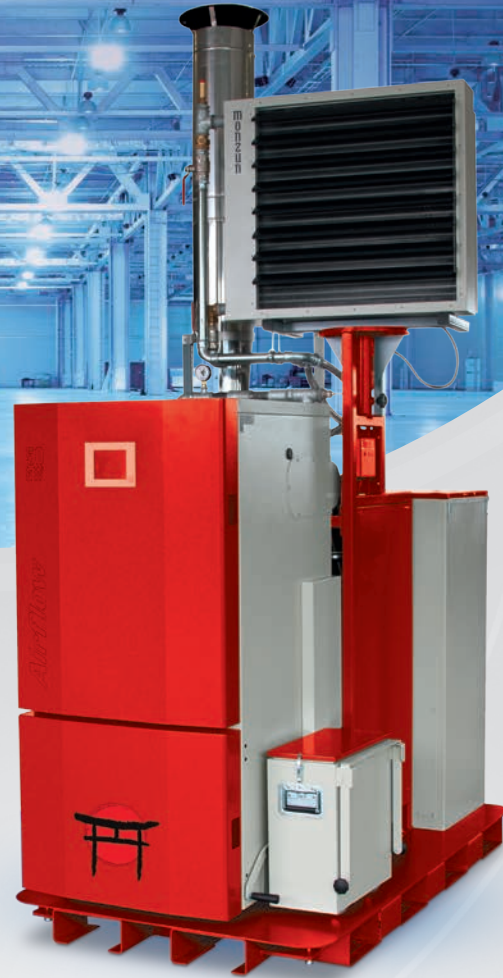




SMART HEATING  
TECHNOLOGY

Japan

Purity to Nature  
Savings to Clients  
Comfort to Users



## Smart Hot-Air Unit 30–50 kW

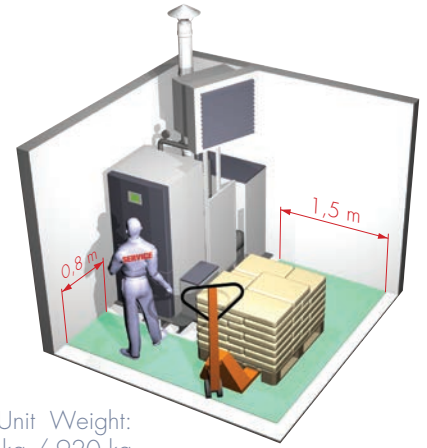
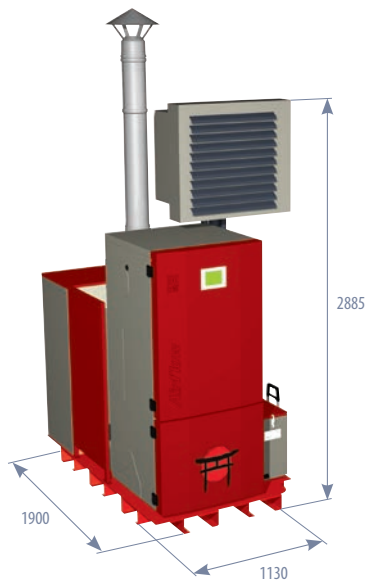
Wood Pellet Air Handling Biomass Boiler Unit

- Steel supporting pallet and covering structure
- Automatic Wood Pellet Boiler with automatic cleaning and deashing
- Efficiency >90 %
- Output Modulation 30–100 %
- 400 l fuel bin
- Electronically controlled Hot-Air fan unit with 0–270° movement
- Complete chimney supply
- Complete hydraulics supply
- Special operation visualisation
- Mobile phone control
- Internet control

# Smart Hot-Air Unit 30–50 kW

## Installation Space Requirements:

Smart Hot-Air Unit Dimensions:  
1 900 x 1 130 x 2 885 mm



Smart Hot-Air Unit Weight:  
815 kg / 920 kg

Thermal and technical parameters	Unit	Smart Hot-Air Unit 30 kW	Smart Hot-Air Unit 50 kW
Rated output	kW	29	49,5
Output range	kW	8,6 - 29	14,6 - 49,5
Fuel consumption	kg x hrs-1	1,9 - 6,6	3,44 - 11,63
Efficiency (rated output)	%	90,9	90,4
Flue Gas temperature rated output	°C	94 - 148	110 - 153
Class of the boiler		5	5
Burning time min/rated output (based on fuel storage of 250 kg)	hours	147 - 42	80 - 24
<b>Technical parameters of products</b>			
Weight	kg	815	920
Water content	litres	140	190
Flue duct diameter	mm	150	160
Dimension (widthxdepth) excluding ash box	mm	1130 x 1900	1130 x 1900
Maximum water pressure	bar	up to 3	up to 3
Required flue draught	mbar	0,1 - 0,2	0,1 - 0,3
Recommended operating temperature of heating water	°C	60 - 80	60 - 80
Lowest temperature of incoming water	°C	55	55
Sound power level	dB	57	57
Output power 70/50°C, 10°C	kW	32,48	53,91
Air circulation range in open space	m	22,5	17,5
Middle level of sound pressure	dB	64,5	67,2
<b>Electrical parameters of products</b>			
Connection voltage		230VAC ±10 %, 50Hz ± 2Hz	230VAC ±10 %, 50Hz ± 2Hz
Maximum electrical input – ignition	V	1200	1200
Electrical protection of the control unit		IP54	IP54
Electrical protection of the boiler wiring		IP20	IP20
<b>Fuel and its parameters</b>			
Wood pellets diameter	mm	6,0 - 8,5	6,0 - 8,5
Calorific value	MJ/kg	approximately 16 - 18	approximately 16 - 18
Water content		Up to 10 %	Up to 10 %
Ash content		Up to 1 % (0,8 - 1,0 %)	Up to 1 % (0,8 - 1,0 %)

## Smart Hot-Air Unit Delivery Description:

- Compact steel supporting pallet for easy handling & positioning
- Smart 30/50 kW Wood Pellet Boiler
- 250 kg fuel store including fuel auger
- 2 000 mm 3-layers chimney set
- Hot-Air fan unit with 0–270 degree movement range
- Circulation pump
- Drain valve
- Pressure control
- Expansion tank
- Pressure release valve
- Automatic control vent
- Heat meter – Optional

## Smart 30/50 kW Wood Pellet Boiler Features:

- Steel construction with heavy duty comaxite coating for long life
- Multiple fuelling options: auger, vacuum or manually fed
- Advanced Control Unit for automatic operation
- High efficiency – over 90%
- Output Modulation from 30–100% depending on actual heat demand
- Cast Iron burner construction with exchangeable burner surface
- Automatic electrical ignition
- Self-cleaning, vertical turbulator heat exchanger
- Safety thermostat with automatic cut-off
- Automatic de-ashing c/w wheelie ash bin
- Remote Monitoring via Internet or GSM
- Integral flue fan – Optional

## Special Operation Visualisation:

