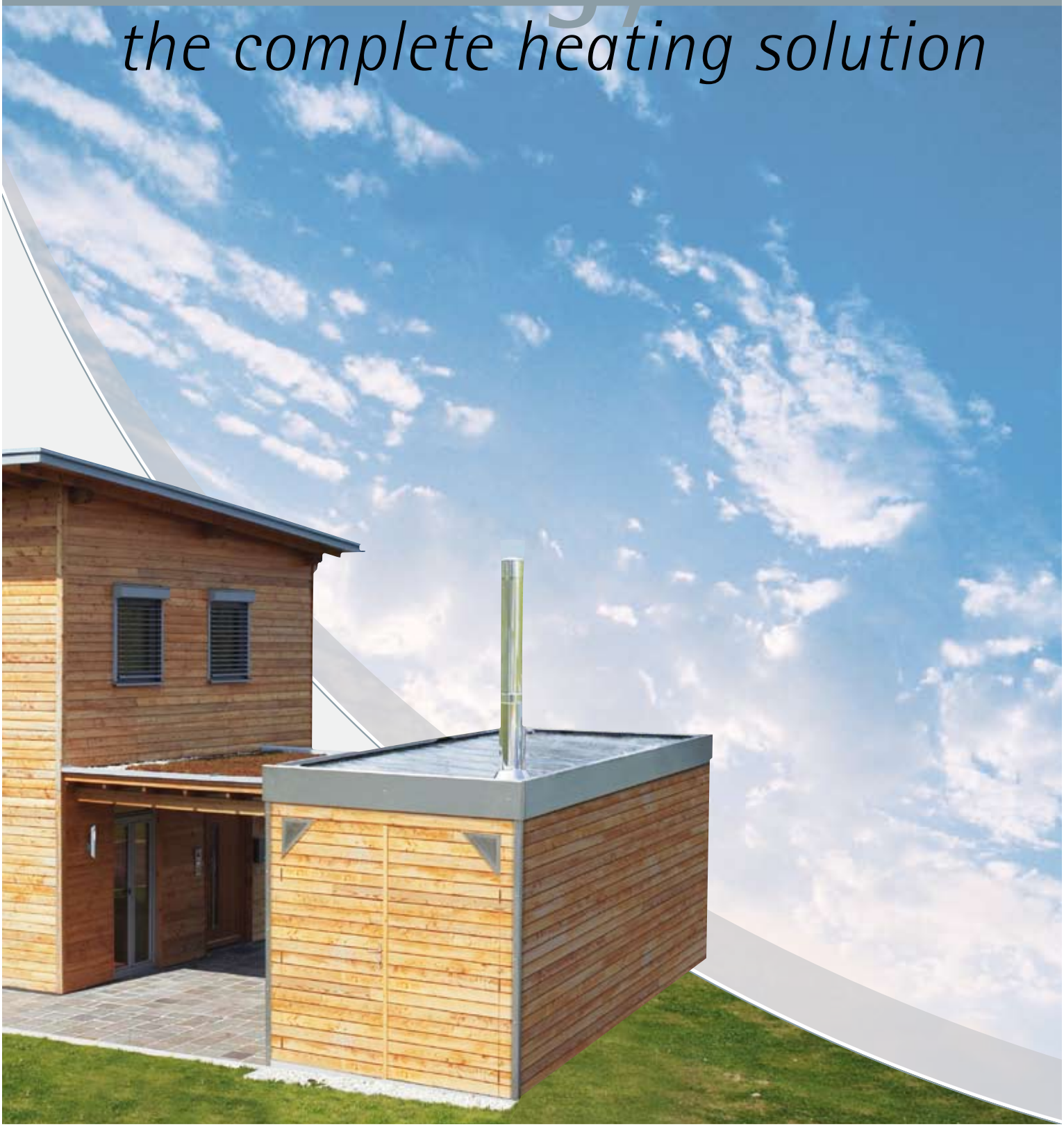
Energy Box

the complete heating solution



ÖkoFEN
PELLET HEATING

www.okofen.com

European specialist in pellet heating

Energy Box – the complete heating solution

PELLEMATIC Pellet Boiler

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Storage room or
FleXILO PLUS

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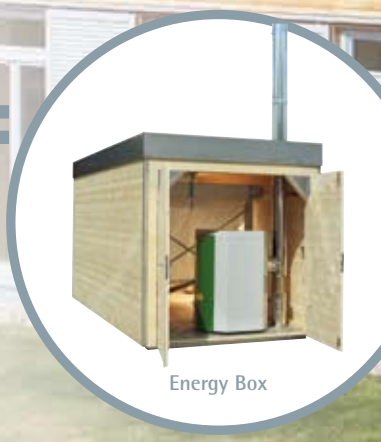


Energy Box

No space and pressed for time?

The ÖkoFEN Energy Box is the ideal solution for buildings without a cellar, terraced houses, and other applications where indoor space for a boiler room and pellet store is limited. It is also suitable for temporary buildings or short term leaseholds - the entire heating unit can easily be relocated to another site with minimal work. Every Energy Box is supplied ready for connection and, following delivery by crane-lorry can be ready for use in a matter of hours.

A new environmentally friendly heating system in five easy steps:

1. Concrete plinth or foundation is laid and connections prepared beforehand (heating flow and return, and electrical connection)
2. Delivery of the Energy Box
3. Connection of the heating system and electrics
4. Delivery of fuel
5. Start-up

TYPE A Page 10

Length x Width x Height (mm)	3200x2430x2650
Storage type	FlexiTank S2216R (with vibrating plate)
Fuel conveyance system	Auger delivery system ST120
Fuel Storage capacity	3.5 t
Boiler capacity (kW)	2.5-20

TYPE B Page 12

Length x Width x Height (mm)	4800x2430x2650
Storage system	FlexiTank S2822R (with vibrating plate)
Fuel conveyance system	Auger delivery system ST220
Fuel Storage capacity	5.0 t
Boiler capacity (kW)	12-32

TYPE C Page 14

Length x Width x Height (mm)	6200x2430x2650
Storage system	Storage room with sloping floor
Auger delivery system	RS-14
Fuel conveyance system	Vacuum suction system
Fuel Storage capacity	9.5 t
Fuel Storage capacity	15-56

TYPE D Page 16

Length x Width x Height (mm)	10300x2430x2650
Storage system	Storage room with sloping floor
Auger delivery system	2x RS-13
Fuel conveyance system	Vacuum suction system
Fuel Storage capacity	15 t
Fuel Storage capacity	72–112

TYPE E Page 18

Length x Width x Height (mm)	12300x2430x2640
Storage system	Storage room with sloping floor
Auger delivery system	4x RS-13
Fuel conveyance system	Vacuum suction system
Fuel Storage capacity	14 t
Fuel Storage capacity	144–224

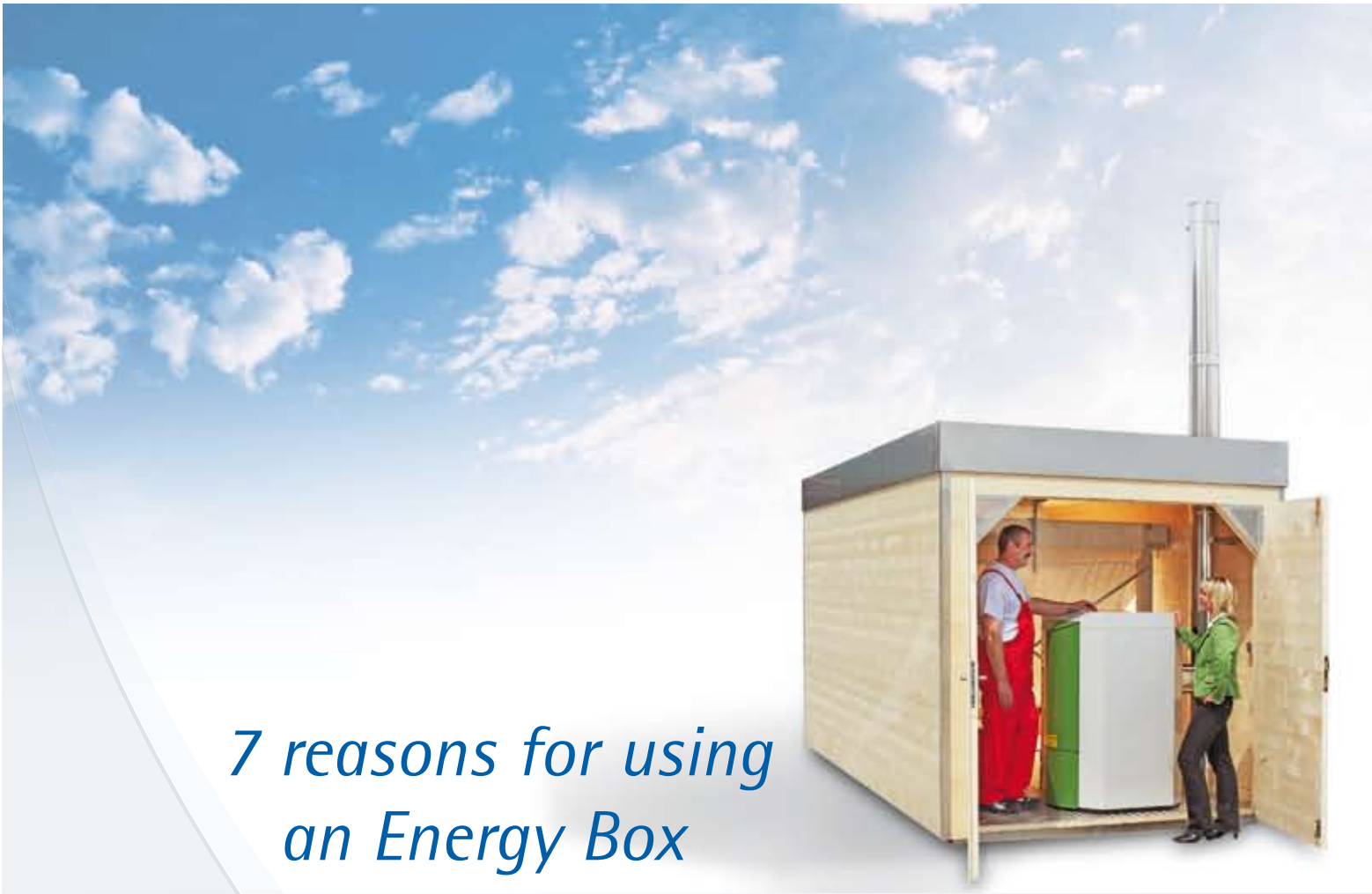
Practical and versatile

The Energy Box is available in types A, B, C, D and E (see pages 10-19) and is offered in a large variety of sizes - we will advise you on the correct system for your project. Based around a durable timber construction and manufactured from 42 mm triple laminated sections, the Energy Box is available in a variety of colours and bespoke finishes allowing you to tailor the design to suit your needs. And with a nominal capacity ranging from 2.5 to 224 kW the Energy Box is equally suited to a single isolated home or a large urban complex, in the domestic, commercial and government sectors. For the larger capacity systems please consult your supplier/distributor.

Available colours:

Tyrol		Toskana		Nordic	
Forrest		Outback		Island	

The limitations of the printing process mean that the colours shown may not necessarily be a perfect representation of the wood finish. Please consult your distributor for details.



7 reasons for using an Energy Box

The simplicity, cleanliness and ease of use of an ÖkoFEN pellet storage solution coupled with the internationally acclaimed efficiency and environmental credentials of the PELLEMATIC boiler together form a complete and self-contained heating solution: The ÖkoFEN Energy Box.

Its advantages are unrivalled: easily transported or relocated, compact and environmentally friendly, it is delivered ready for installation, and a version is available to suit all needs.

1 Ready to connect

The Energy Box contains a complete heating system for any home - pellet store, boiler, flue and fuel supply system. The system is delivered ready for installation by truck and is connected to the heating system in a matter of hours.

2 More living space

The central heating boiler and pellet storage are outside thus saving approximately 15 m² of floor space.

3 Less time spent on organising

The central heating boiler is ready for use shortly after delivery.

4 Modern heating technology

Over 27,000 customers already use ÖkoFEN Pellematic boilers for their central heating. A PELLEMATIC boiler, combined with the modern Flexitank or pellet store which is integral to the Energy Box, represents the very latest in renewable technology from one of the international leaders in the field. The OkoFEN Pellesol solar water heating system is specifically designed to be mounted on the roof of an Energy Box, further reducing fuel usage and environmental impact.

5 Economical

The competitive cost of wood pellets not only saves you money but is independent of the stock exchange speculations associated with the trading of fossil fuels. Substantial grants and financial incentives are available, for both domestic and commercial projects, to reduce the capital cost of an Energy Box.

6 Heating with a clear conscience

Thanks to Hi-Tech wood pellet heating from ÖkoFEN your heating can be low carbon.
Burning wood pellets creates no more CO_2 than natural deforestation.
The use of an indigenous raw material makes a substantial contribution to environmental protection and reduces our dependence on foreign energy suppliers.

7 Internationally renowned quality

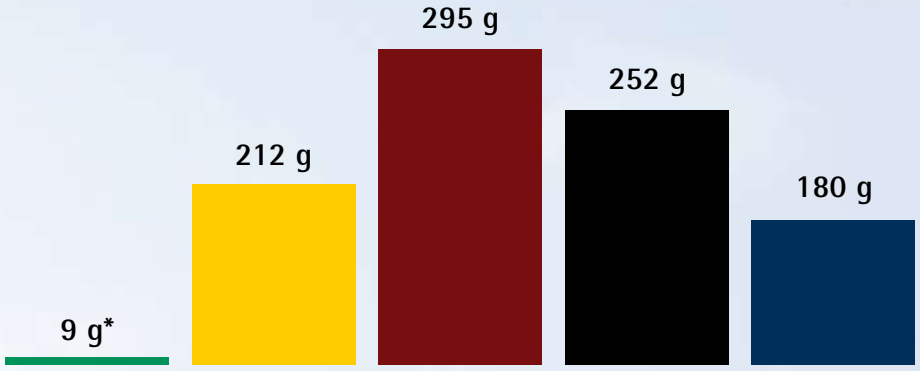
ÖkoFEN has over 20 pioneering years of experience with wood pellet heating systems. Over 27,000 international customers have placed their trust in the acclaimed ÖkoFEN brand.




Save money and heat environmentally

Thanks to the efficient and internationally acclaimed combustion technology behind the ÖkoFEN PELLEMATIC boiler you can enjoy maximum heat output with minimum work. Wood pellets are the truly responsible choice, being low-pollution, economical and helping to create local employment in the timber industry. Unlike fossil fuels such as oil and gas, the combustion of wood pellets is CO_2 neutral. This means the amount of CO_2 released is only the same as that released by natural decomposition: by using wood pellets you are actively reducing your carbon footprint.

Pellets save our climate



Potential CO_2 savings with a switch from oil to pellets:

Example: Single family house with an energy consumption of 4000 l fuel oil, converted to wood pellet heating using an ÖkoFEN boiler.

CO_2 emissions of the old oil heating ..... 10,442 kg CO_2

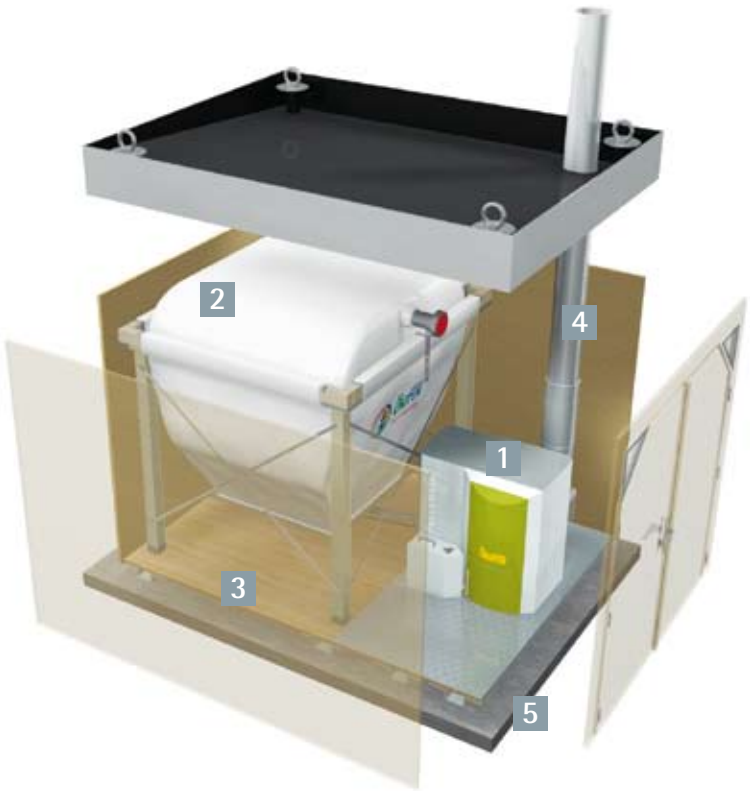
CO_2 emissions with wood pellet heating ..... 360 kg CO_2

Saving ..... 10,082 kg CO_2

Source: Environmental consultation NÖ, ÖkoFEN, SIR 2007

* excludes emissions from embodied energy

Energy Box – the complete heating solution



Example illustration. Right-hand installation.
(Flue and boiler installed on the right)

1 PELLEMATIC Pellet Boiler

2 Fabric Fuel Store FleXILO PLUS

4 Flue

1 PELLEMATIC Pellet Boiler:

- Automatic fuel supply
- Output capacities from 2.5 – 20 kW
- Automatic ash compression system
- Boiler 'back end' protection
- Fully automated digital heating controls
- Certified burn back protection

2 Fabric Fuel Store FleXILO PLUS:

- High capacity flexiTank with integrated vibration system
- Highly durable anti-static material
- Complete with filler connection
- Dust proof

3 Construction of timber container:

- Durable timber construction from 42 mm triple laminated sections
- Certification: Fire resistant classification F60 and F90
- Designed to support solar thermal collectors

4 Flue:

- High grade stainless steel, twin-wall
- Resists condensate
- TÜV certified
- Corrosion resistant
- Internal diameter = 150 mm

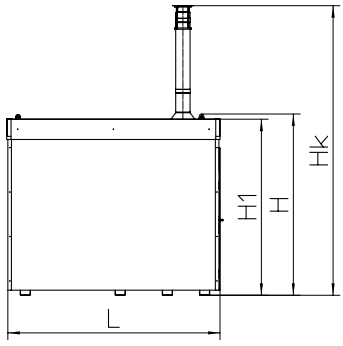
5 Construction of plinth or foundation:

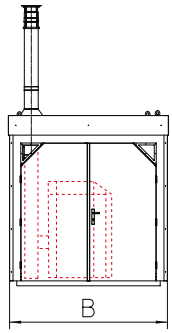
Prepared by third party

Type A

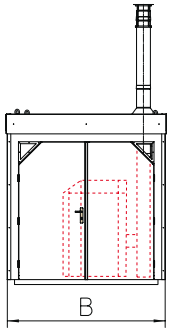
Technical data:

Power range	kW	8	12	15	20
Annual fuel consumption*	t	2.4	3.6	4.5	6
Filling/Year		1	2	2	2
Conveyance system		Auger Screw			
Fabric fuel store		Flexi Tank			
Fuel store capacity	t	3,5			
Length	L	mm	3200		
Width	B	mm	2430		
Width incl. flue	B1	mm	-		
Height	H	mm	2750		
Height without eye bolts	H1	mm	2650		
Height flue	Hk	mm	4690		
Transport/Shipping Weight		kg	F60: 1700 / F90: 2200		





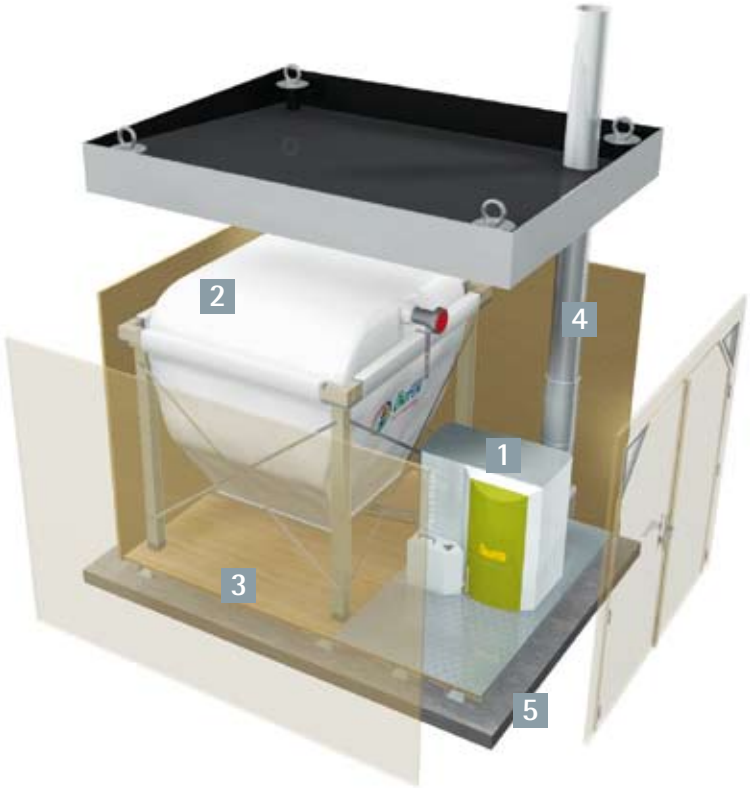
Left-hand installation



Right-hand installation

*calculated assuming a fuel consumption of 300 kg/KW for one heating season

Energy Box – the complete heating solution



Example illustration. Right-hand installation.
(Flue and boiler installed on the right)

1 PELLEMATIC Pellet Boiler

2 Fabric Fuel Store FleXILO PLUS

4 Flue

1 PELLEMATIC Pellet Boiler:

- Automatic fuel supply
- Output capacities from 12 - 32 kW
- Automatic ash compression system
- Boiler 'back end' protection
- Fully automated digital heating controls
- Certified burn back protection

2 Fabric Fuel Store FleXILO PLUS:

- High capacity flexiTank with integrated vibration system
- Highly durable anti-static material
- Complete with filler connection
- Dust proof

3 Construction of timber container:

- Durable timber construction from 42 mm triple laminated sections
- Certification: Fire resistant classification F60 and F90
- Designed to support solar thermal collectors

4 Flue:

- High grade stainless steel, twin-wall
- Resists condensate
- TÜV certified
- Corrosion resistant
- Internal diameter = 150 mm

5 Construction of plinth or foundation:

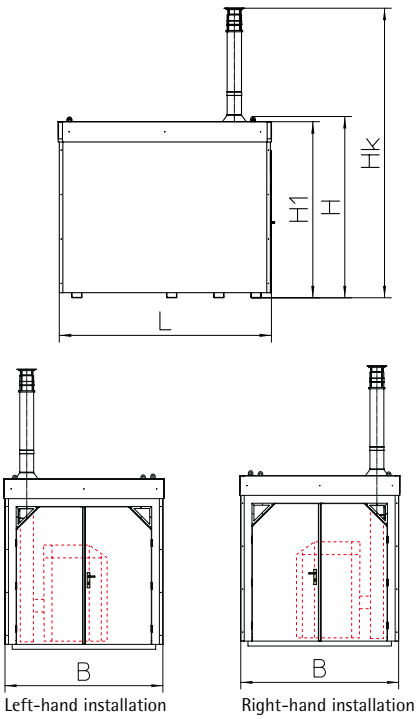
Pre-prepared by third party

Type B

Technical data:

Power range	kW	12	15	20	25	32
Annual fuel consumption	t	4.8	6	8	10	12.8
Filling/Year*		1	2	2	2	3
Conveyance system		Auger Screw				
Fabric fuel store		Flexi Tank				
Fuel store capacity	t	5				

Length	L	mm	4800
Width	B	mm	2430
Width incl. flue	B1	mm	-
Height	H	mm	2750
Height without eye bolts	H1	mm	2650
Height flue	Hk	mm	12 - 20 kW: 4690 mm 25 - 32 kW: 4890 mm
Transport/Shipping Weight		kg	F60: 2200 / F90: 2900

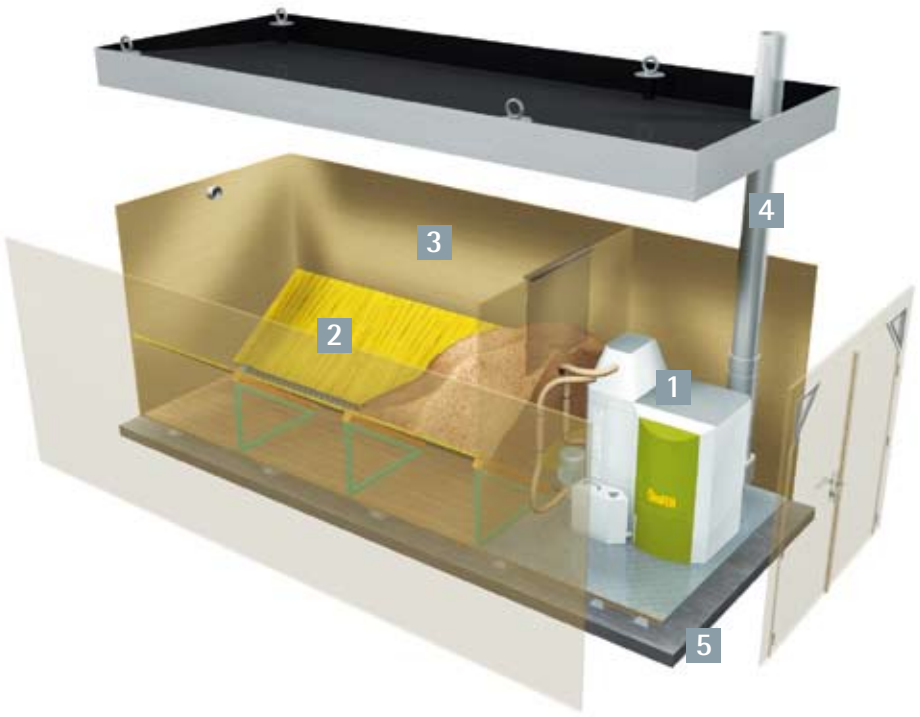


Left-hand installation

Right-hand installation

*calculated assuming a fuel consumption of 400 kg/KW for one heating season

Energy Box – the complete heating solution



Example illustration. Right-hand installation.
(Flue and boiler installed on the right)

1 PELLEMATIC Pellet Boiler

2 Pellet Store with sloping floor

4 Flue

1 PELLEMATIC Pellet Boiler:

- Automatic fuel supply
- Output capacities from 15 - 56 kW
- Automatic ash compression system
- Boiler 'back end' protection
- Fully automated digital heating controls
- Certified burn back protection

2 Pellet Store with Sloping Floor:

- High capacity
- due to optimal space utilization
- Dust proof
- Complete with filler connection

3 Construction of timber container:

- Durable timber construction from 42 mm triple laminated sections
- Certification: Fire resistant classification F60 and F90
- Designed to support solar thermal collectors

4 Flue:

- High grade stainless steel, twin-wall
- Resists condensate
- TÜV certified
- Corrosion resistant
- Internal diameter = 150 mm (15 - 32 kW), 180 mm (36 - 56 kW)

5 Construction of plinth or foundation:

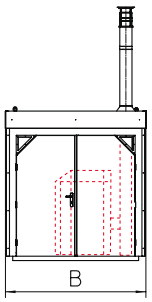
Pre-prepared by third party

Type C

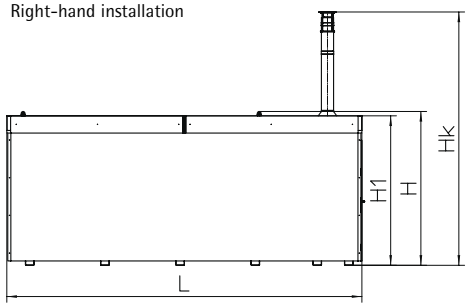
Technical data:

Power range	kW	15	20	25	32	36	48	56
Annual fuel consumption	t	6	8	10	12.8	14.4	19.2	22.4
Filling/Year*		1	1	1	2	2	2	3
Conveyance system		Vacuum suction system						
Fabric fuel store		Fuel store room with sloping floor						
Fuel store capacity	t	9,5						

Length	L	mm	6200
Width	B	mm	2430
Width incl. flue	B1	mm	-
Height	H	mm	2750
Height without eye bolts	H1	mm	2650
Height flue	Hk	mm	15 - 32 kW: 4840 mm 36 - 56 kW: 5640 mm
Transport/Shipping Weight		kg	F60: 3500 / F90: 3900



Right-hand installation



*calculated assuming a fuel consumption of 400 kg/KW for one heating season

Energy Box – the complete heating solution

Example illustration

1 Pellet Boiler PELLEMATIC

2 Storage room with sloping floor

4 Flue

1 PELLEMATIC Pellet Boiler:

- Automatic fuel supply
- Output capacities from 17 - 102 kW
- Automatic ash compression system
- Boiler 'back end' protection
- Fully automated digital heating controls
- Certified burn back protection

2 Pellet Store with Sloping Floor:

- High capacity
- due to optimal space utilization
- Dust proof
- Complete with filler connection

3 Construction of timber container:

- Durable timber construction from 42 mm triple laminated sections
- Certification: Fire resistant classification F60 and F90
- Designed to support solar thermal collectors

4 Flue:

- High grade stainless steel, twin-wall
- Resists condensate
- TÜV certified
- Corrosion resistant
- Internal diameter = 250 mm

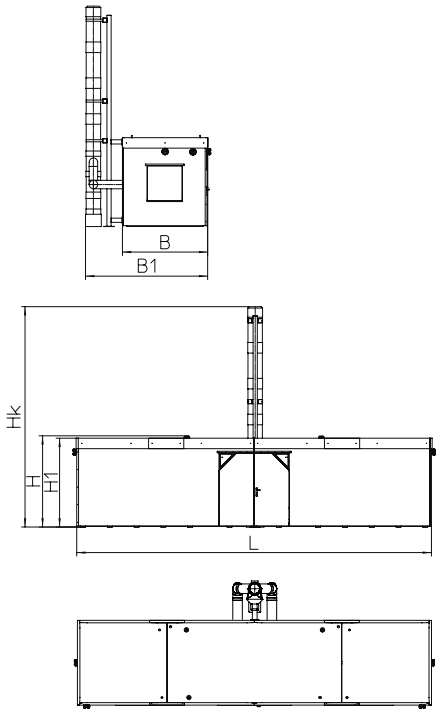
5 Construction of plinth or foundation:

Pre-prepared by third party

Type D

Technical data

Boiler type	kW	72	96	112
Annual fuel consumption*	t	28.8	38.4	44.8
Filling/Year		2	3	3
Conveyance system		Vacuum suction system		
Fabric fuel store		Fuel store room with sloping floor		
Fuel store capacity	t	15		



Length	L	mm	10300
Width	B	mm	2430
Width incl. flue	B1	mm	3500
Height	H	mm	2750
Height without eye bolts	H1	mm	2650
Height flue	Hk	mm	6000
Transport/Shipping Weight		kg	F60: 6000 kg / F90: 6600 kg

*calculated assuming a fuel consumption of 400 kg/KW for one heating season

Energy Box – the complete heating solution

Example installation

1 Pellet Boiler PELLEMATIC

2 Storage room with sloping floor

4 Flue

1 PELLEMATIC Pellet Boiler:

- Automatic fuel supply
- Output capacities from 144 - 224 kW
- Automatic ash compression system
- Boiler 'back end' protection
- Fully automated digital heating controls
- Certified burn back protection

2 Pellet Store with Sloping Floor:

- High capacity
- due to optimal space utilization
- Dust proof
- Complete with filler connection

3 Construction of timber container:

- Durable timber construction from 42 mm triple laminated sections
- Certification: Fire resistant classification F60 and F90
- Designed to support solar thermal collectors

4 Flue:

- High grade stainless steel, twin-wall
- Resists condensate
- TÜV certified
- Corrosion resistant
- Internal diameter = 2 x 250 mm

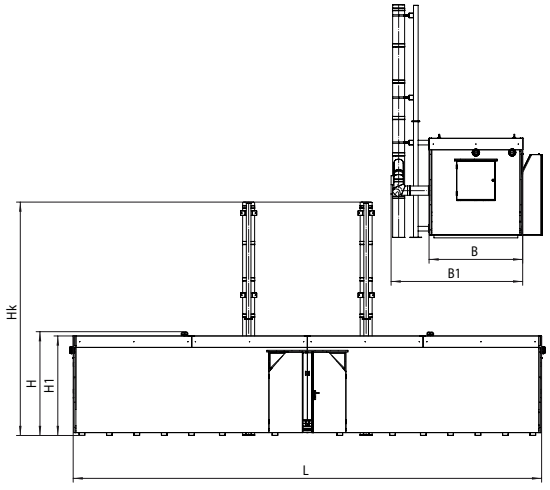
5 Construction of plinth or foundation:

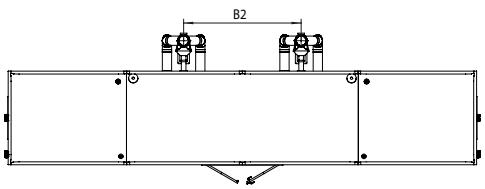
Pre-prepared by third party

Type E

Technical data

Boiler type	kW	144	224
Annual fuel consumption*	t	57.6	89.6
Filling/Year		4	6
Conveyance system		Vacuum suction system	
Fabric fuel store		Fuel store room with sloping floor	
Fuel store capacity	t	14	





Length	L	mm	12300
Width	B	mm	2430
Width incl. flue	B1/B2	mm	3410/3040
Height	H	mm	2750
Height without eye bolts	H1	mm	2650
Height flue	Hk	mm	6000
Transport/Shipping Weight		kg	F60: 8000 kg / F90: 8600 kg

*calculated assuming a fuel consumption of 400 kg/KW for one heating season

Low carbon heating

A full range of solar water heating and automatic wood pellet heating systems are available from ÖkoFEN as well as sophisticated integrated hot water cylinder - pump station - control unit.

You'll find further information on ÖkoFEN pellet heating, storage and supply systems in our main brochure and on-line at www.okofen.com

More information: www.okofen.com

- grants
- news
- contact details
- seminars

ÖkoFEN PELLET HEATING

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