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24179

INSTALLATION AND MAINTENANCE
INSTRUCTIONS

VEDEX 3300



For Home Owners

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Thank you for relying on NIBE to supply your boiler and congratulations on choosing VEDEX 3300, a high quality wood boiler with a long service life, developed and manufactured in Sweden for Swedish conditions.

In order to get the ultimate benefit from VEDEX 3300 you should read through these Installation and Maintenance Instructions. The numbers in brackets refer to the section "Component locations".

The boiler is designed for houses with water borne heating and is environmentally approved for accumulator tank firing.

To be filled in when the product has been installed

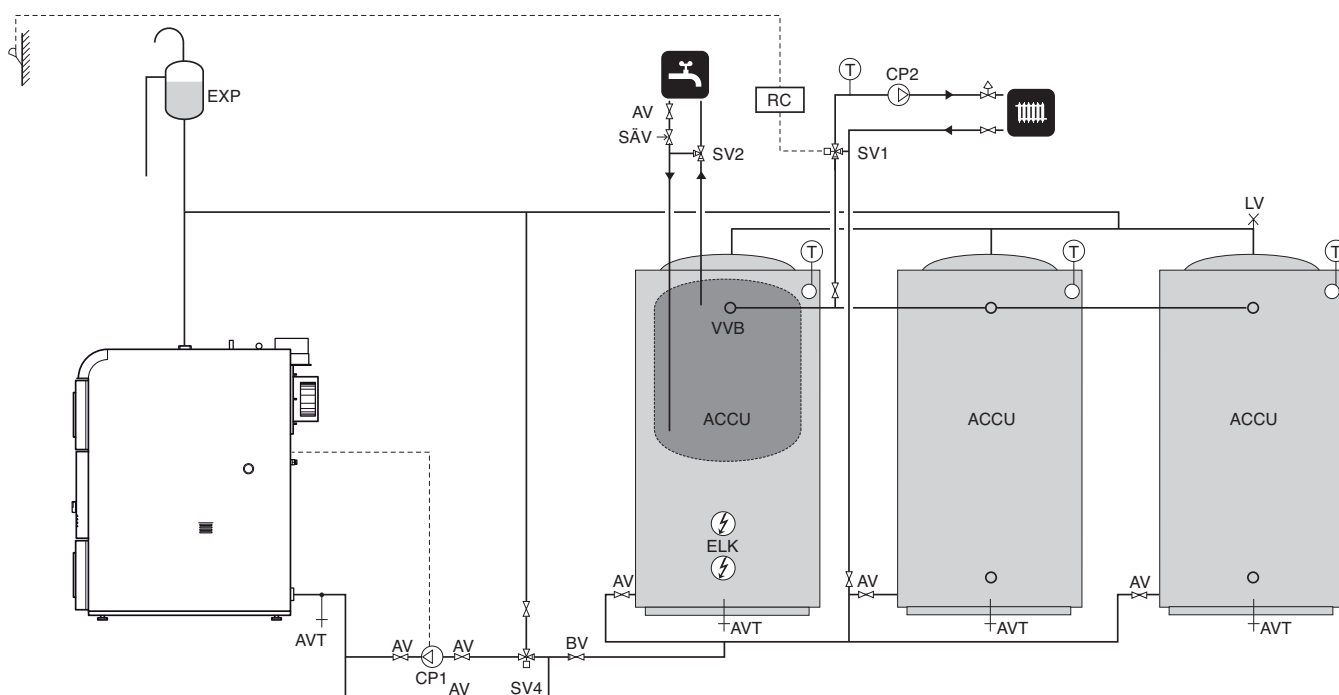
The serial number (103), must always be stated in all correspondence with NIBE. -----
Installation date:
Installer:
Date:_____ Sign:_____

IMPORTANT

The VEDEX 3300 must be installed by approved and competent personnel in accordance with the manufacturers instructions and relevant regulations, standards and by-laws.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge about the appliance, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. We reserve the right to make design modifications without prior notice. ©NIBE 2012

System diagram



NOTE! This is an outline diagram. Actual installations must be planned according to applicable standards.

Area of use

NIBE VEDEX 3300 is a boiler intended for heating houses and other small buildings.

The boiler is environmentally approved for wood firing to the accumulator tank.

Product description

VEDEX 3300 is a wood-fired boiler with an induction flue gas fan. Max. wood length is 0.5 m. The boiler is designed to be connected to an external water heater for heating domestic hot water.

When firing, the boiler water is partly heated by the hearth and partly by the flue gas ducts.

Average output during wood burning operation is approx. 35kW (max. output is approx. 40kW).

Hot water heating

An accumulator tank with integrated water heater or coil is needed for hot water heating or alternatively an external water heater.

The hot water capacity is determined by the choice of water heater size or the length of coil.

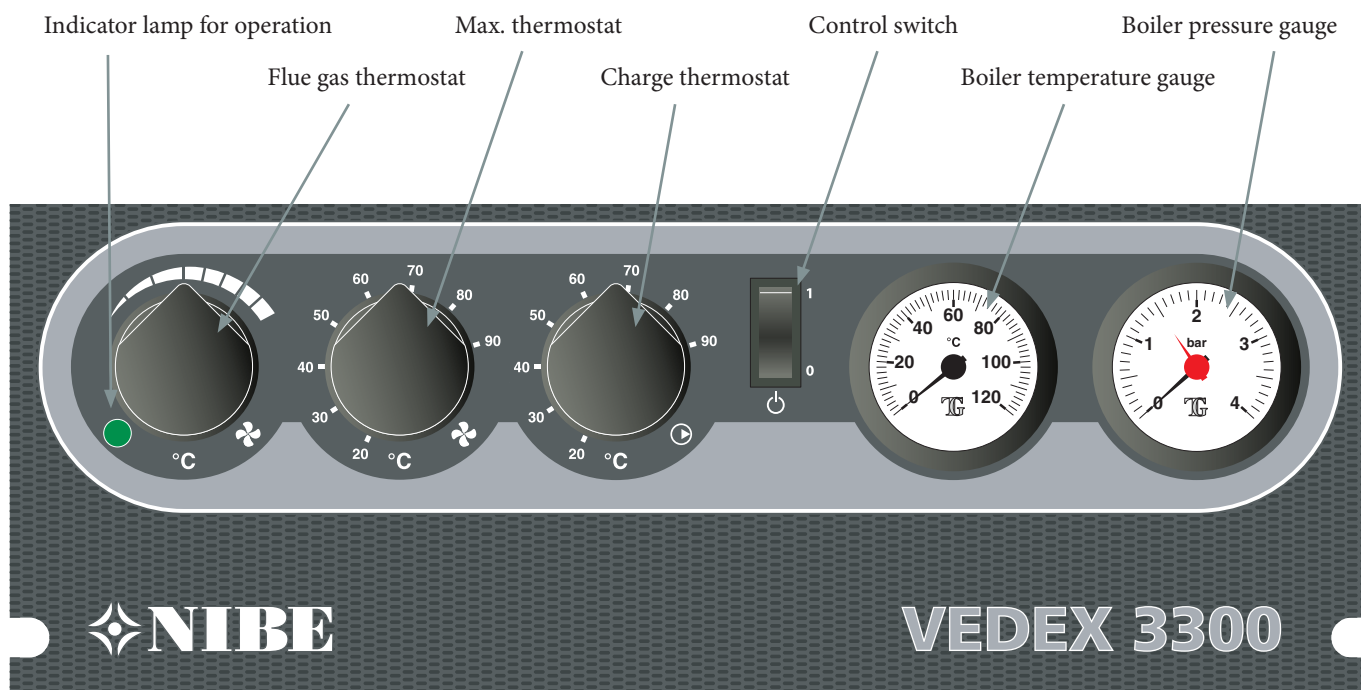
Abbreviations

AV	Shut-off valve
AVT	Draining valve
BV	Non-return valve
CP1	Charge pump
CP2	Circulation pump
ELK	Immersion heater
EXP	Level vessel/expansion vessel
LV	Venting valve
MV	Motor valve
RC	Control box
SV1	Shunt valve
SV2	Mixer valve
SV4	Thermal valve
SÄV	Safety valve
TG	Temperature sensor
VVB	Hot water heater

The outline diagram shows components that are not included in standard deliveries.

Heating

Hot water is taken from the top of the boiler and routed to the accumulators. Return water from the accumulator tanks is led via a charger pack to the bottom of the boiler. The hot water is led from the accumulators to the radiator circuit via a shunt valve (SV1), where the desired temperature to the radiators is maintained by mixing the hot accumulator water with the cooled return water from the radiator circuit.



Indicator lamp for operation

When the green light comes on, the flue gas thermostat's set temperature has been reached.

Flue gas thermostat

This thermostat starts and stops fans and any charge pumps during lighting and extinguishing phases. The thermostat is delivered connected for charge control by a thermal valve. i.e. the flue gas thermostat only starts and stops the flue gas fan. To prevent stationary losses via VEDEX 3300, reconnection to charge control without thermal valve is recommended. The flue gas thermostat, together with the charge thermostat, then starts and stops the charge pump.

Max. thermostat

This thermostat stops the fan when the boiler temperature exceeds the set value.

Charge thermostat

This thermostat starts and stops the charge pump at the set value.

Control switch

Operating current, on and off.

Boiler temperature gauge

The operating temperature of the boiler is indicated on the gauge which is graduated 0–120 °C. It shows the boiler water temperature measured at the height of the flow line connection.

Boiler pressure gauge

The boiler's pressure is displayed here. The gauge is graduated 0 - 4 bar with a red mark at 1.5 bar.

Max. permitted pressure is 2.5 bar at 95 °C.

For a closed system, the operating pressure varies during operation depending on the installation's varying temperature.

Settings and maintenance

Charge and circulation pump

If a charge or circulation pump is not in operation for an extended period of time, it should be started from time to time so that it does not jam.

Sweeping

The Swedish Rescue Services Act specifies how often a boiler is to be swept and at what intervals with regard to the risk of soot fires. Sweeping carried out by a chimney sweep includes all flue gas routes from the hearth to the top of the chimney.

You can check the boiler's fire-affected surfaces and flue gas ducts yourself to determine how often the boiler should be swept.

Gas, which contains tar substances, builds up in the wood magazine. These substances condense on the walls of the wood magazine and are later burned off. This means that the walls of the wood magazine do not usually have to be cleaned.

For optimum combustion and efficiency the boiler's secondary combustion chamber should be cleaned after about 15 additions of wood.

The convection part is cleaned by removing the top soot door (66), pulling up the turbulator and brushing clean. This should be done a few times between chimney sweep visits.

The compartment is cleaned from the front via the lower door by pulling out the flame trough and brushing. Take care to remove any coked ash residue in the trough.

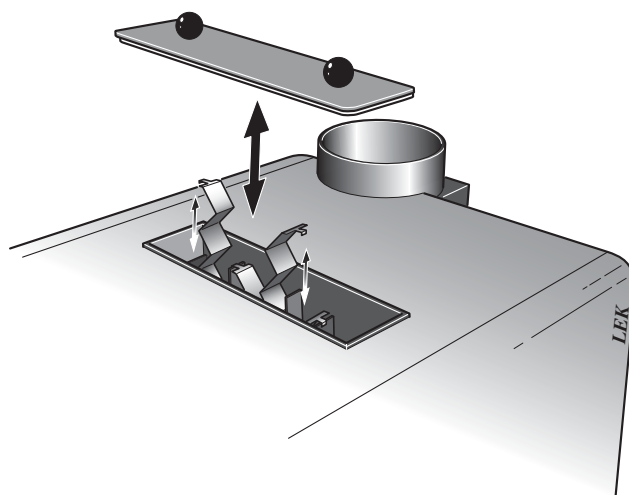
Also see "For the chimney sweep", under "Sweeping".

NOTE!

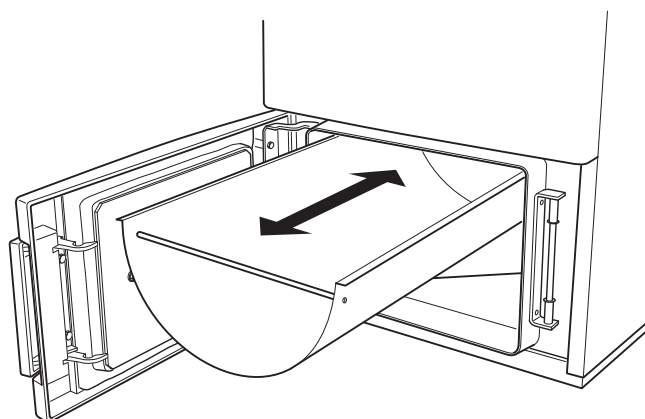
Ash can still contain glowing embers after a long period of time. Therefore, always use a non-flammable container when emptying ash and soot.

Sweeping description

- Remove the cover from the top of the boiler.
- Lift out the turbulators from the convection part.
- Sweep the convection part.
- Reinstall the turbulators.
- Reinstall the soot door.



- Open the combustion chamber door (68).
- Pull out the flame trough.
- Empty the trough and clean the ash out. Take care to remove any coked ash residue in the trough.
- Clean the chamber.
- Position the trough and close the door.



General instructions

The way the wood is chopped, its type and the moisture content are all determining factors that affect the function and efficiency of the boiler.

Adjust the size of the wood to fit the hearth. Suitable length of chopped wood for VEDEX 3300 is 0.5m.

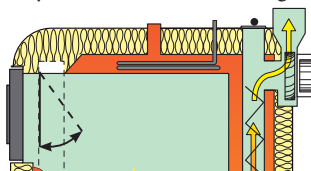
The wood is placed on the ceramic grate.

The combustion process works by reverse combustion where the combustion gases are forced down through the grate by an induction fan. The fan is controlled by the flue gas temperature. A damper ensures that a self induced draught does not occur when the fan is off.

The fan works at two speeds which means that the highest speed occurs when adding wood and normal speed during operation.

A tilting smoke stop prevents blow back.

Always use dry wood. Wood with a high moisture content



reduces the combustion temperature and causes increased amounts of environmentally harmful emissions as well as reducing efficiency.

Extremely dry wood can cause too large a fire which can create large amounts of gas. In addition, there is a risk of flashover, which in turn causes irregular combustion. Carpentry off cuts can be used but should be mixed with other wood. All wood over 10 cm must be split. Only use untreated and clean wood.

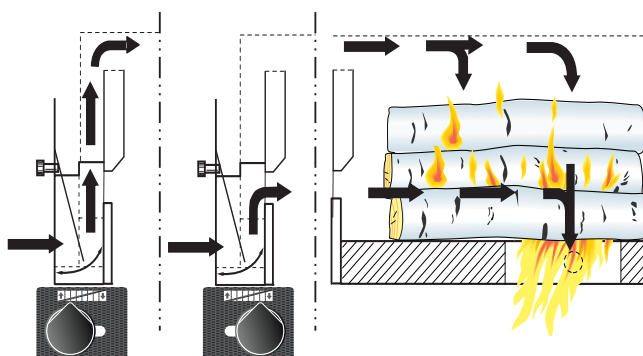
Combustible gases are created as the wood heats up. These burn at temperatures between 300 - 900°C. The gases make up 75% of the wood's energy content, the rest is in the charcoal created, which also then burns.

Final combustion occurs in the compartment under the grate after the supply of secondary air.

Primary air control

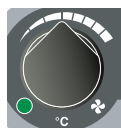
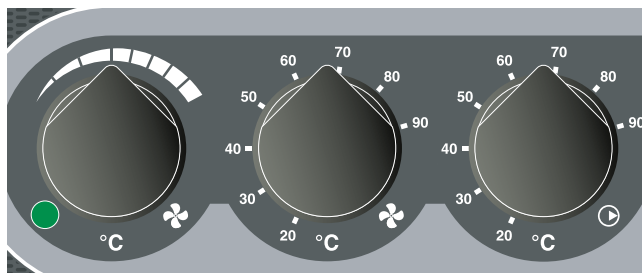
The control damper on the front of the boiler is used to distribute the air supply to the hearth.

- In the left-hand position, the air supply is from the top of the combustion chamber.
- In the right-hand position, the air supply is from the lower part just above the ceramic grate in the hearth.
- In the central position the air is distributed equally from both inlets.



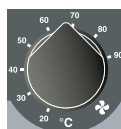
Boiler default settings

The instrument panel contains three thermostats.



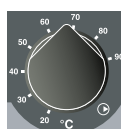
Fluegas thermostat

This thermostat senses the flue gas temperature. When the temperature has been reached and the filler door closed, the fan resumes normal speed. When firing is ended and the flue gas temperature has dropped, the fan is stopped by the thermostat.



Max. thermostat

This thermostat stops the fan when the boiler water temperature is too high.

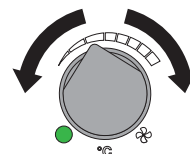


Charger thermostat

This thermostat starts the charge pump at the set boiler water temperature.

Before adding the first pieces of wood, check that the boiler and the heating system are filled with water, and that the flue gas thermometer is installed in the flue pipe. Then make settings as follows.

- Set the flue gas thermostat to position:
- Set the max. thermostat to 90 °C.
- Set the charge thermostat to 60 °C.
- Adjust the primary air damper as follows.



- 1 Hard and mixed wood
Adjust the damper to the right.
- 2 Softwood
Adjust the damper to the left.



For a newly installed boiler, new adjustments should be made if combustion is not efficient and incomplete or if another type of wood is used. Also see section "Wood firing".

Wood firing

Lighting instructions

It is important that initial firing is carried out carefully in a new boiler so that any remaining crystallisation water in the ceramics is condensed slowly to prevent cracking.

- Add approximately 4 kg of finely chopped kindling wood and then tightly screwed up newspaper on top. Light the newspaper and leave the filler door ajar.
- Wait until the wood has caught fire properly (flue gas temperature approximately 130 – 150°C) and the green light comes on.
- Close the door and let the fire burn to a bed of embers, approximately 30 – 45 minutes depending on the amount of wood.
- Once a bed of embers has been created, more wood can be added.
- Check that the flue gas temperature rises, this is a sign that combustion has started.

The boiler is now in normal operating mode.

- Add more wood when a bed of embers remains at the bottom of the hearth.

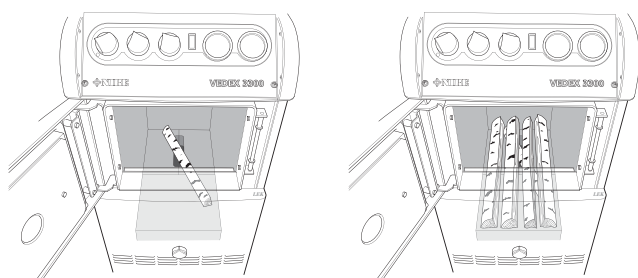
Adding wood

Add wood via the filler door. When this door is opened, a microswitch is affected, which, in turn increases the speed of the fan.

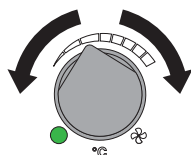
It is important that the amount of fuel is adjusted according to the temperature levels in the accumulator system so that it does not become overcharged.

Even out the embers before adding more wood. Then close the filler door. The speed of the fan now slows and normal operation is resumed.

VEDEX 3300 is designed for 0.5 m long pieces of wood. Stack the wood well when adding. Place the logs so that they do not block the grate hole, see an example of positioning in the images below. If shorter pieces of wood are used, stack these over the grate hole towards the rear wall.



- When the wood in the boiler has been burned and the flue gas temperature drops to 80 – 85 °C, and a minimal bed of embers remains, the green light should go out, if not, readjust the flue gas thermostat. It is now set and should not normally need further adjustment. At the next firing procedure, the green light automatically comes on when the flue gas temperature has reached approximately 130 – 150 °C.



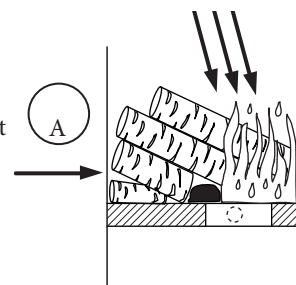
Readjustment

The flame can be checked through the sight glass after about 30 minutes operation. The colour of the flame should then be yellow with a light blue tint.

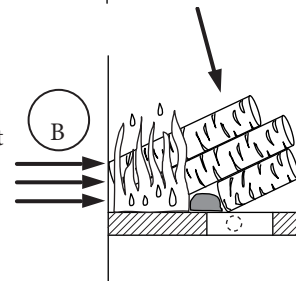
The following points should be observed for VEDEX 3300 to perform optimally:

- Follow the lighting procedure by checking the flue gas temperature.
- The fan should never stop during the firing cycle.
- When the accumulator is fully charged, there should no longer be any wood in the wood magazine.
- Never open the combustion chamber door during operation.
- The combustion of wood can vary depending on its moisture content and type as well as on the position of the primary air damper.

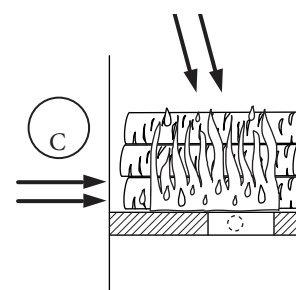
If the wood burns as in case (A), the air supply is too great from the top and too low from the middle.



If the wood burns as in case (B), the air supply is too great from the middle and too low from the top.



The correct air flow as per case (C) gives the most efficient combustion.



It is not necessary to adjust the primary air damper if any of cases (A) and (B) occur on the odd occasion.

General information for the installer

Boiler room

The boiler room must be built in accordance with applicable building regulations.

Provision for good air supply. The boiler room's air intake must be as large as the flue.

Chimney

VEDEX 3300 has a vertical flue pipe connection with an external diameter of 133mm. A vertical flue pipe is supplied as standard.

The flue diameter should be 150mm in accordance with the Building Regulations.

The flue should be dimensioned in accordance with the Building Regulations and EN 13384-1 to facilitate correct functioning of the combustion system.

The minimum chimney draught for satisfactory wood firing is 15 Pa.

The flue needs to be inspected and approved before installation.

If in doubt reference should be made to 'The Building Regulations 2000 Approved Document J Combustion Appliances and Fuel Storage Systems 2010 Edition' or the building control department of your local council.

Material	Area	Minimum height
Steel pipe	Ø 150 mm	5.0 m
Brick	150 x 150 mm	5.0 m

Many older boilers have the flue duct located at the bottom and have been connected to the chimney near to the floor. If the new boiler is to be connected higher up on the chimney the lower, non-active, part of the chimney pipe should be filled with sand or similar.

Carbon Monoxide Detectors

It is mandatory to fit a Carbon Monoxide alarm within the room whenever a new or replacement solid fuel appliance is installed in a dwelling. This alarm must be a permanently installed type, rather than a portable type, and should incorporate self-test and audible alert if the battery or detector cell develop a fault. Siting of the alarm must meet the following criteria:

- on the ceiling at least 300mm from any wall or, if it is located on a wall, as high up as possible (above any doors and windows) but not within 150mm of the ceiling; and
- between 1m and 3m horizontally from the appliance.

NOTE!

Ensure that sweeping can be carried out in accordance with the applicable regulations.
If in doubt, contact a chimney sweep.

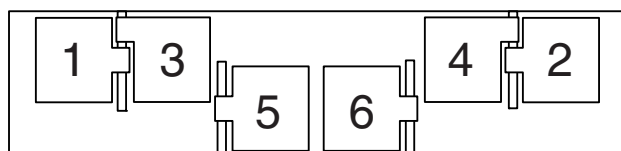
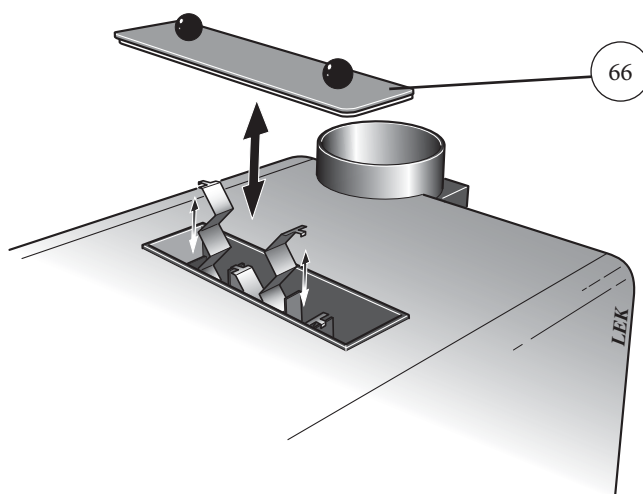
Assembly

VEDEX 3300 has inlets for primary air at the front and secondary air on the sides of the boiler. Therefore, always leave a space of at least a metre from combustible material. In unfavourable cases "puffs" from combustion can discharge sparks.

Turbulators

Six turbulators are supplied with the boiler. These are located in the ducts in the boiler's convection part as illustrated. The turbulators affect the turbulence of the flue gases, which means that a greater amount of energy is transferred to the boiler water. The temperature in certain chimneys may become so low that there may be a risk of condensation build-up in the smoke duct. To increase the temperature in the chimney the turbulators can be removed, one at a time as illustrated. For each turbulator that is removed, the flue gas temperature rises from the boiler by 15 – 25 °C.

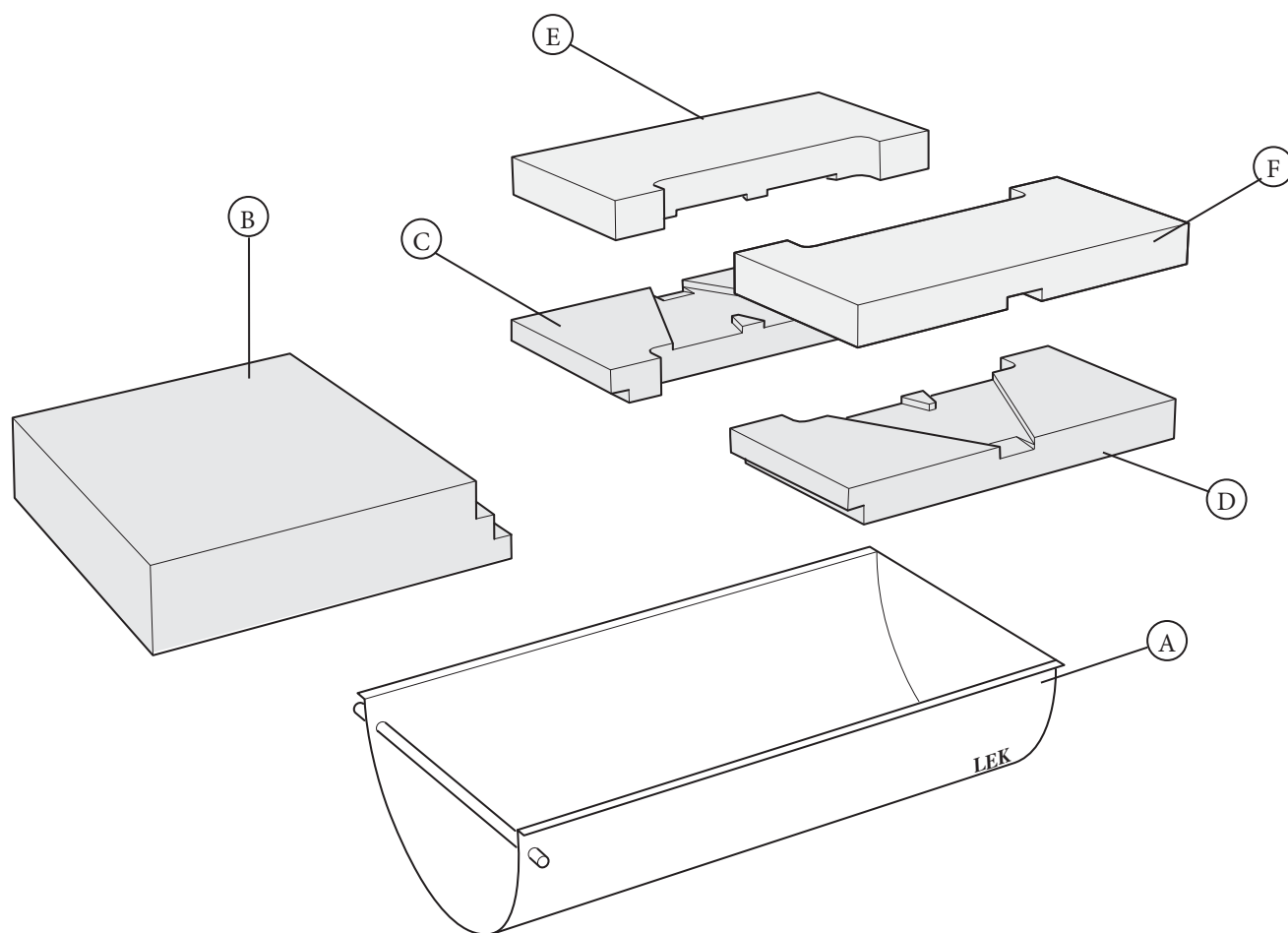
Remove the turbulators in number order until the flue gas temperature in the chimney is correct.



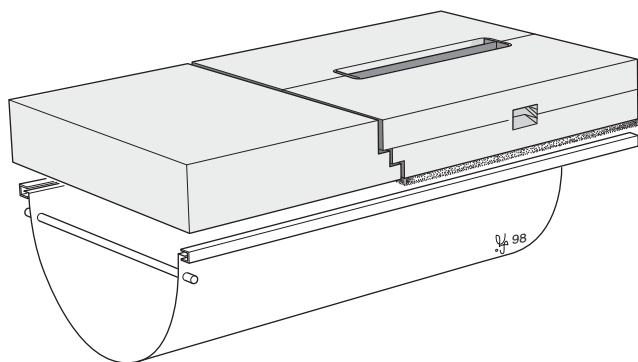
NOTE!

The flue gas temperature must not drop below 65 °C 0.5 m below chimney opening.

Installing ceramics



Pre-installed ceramic kit



Ceramic grate

Place the ceramic inserts in through the filler door. First position the front stone (B). Then position the rear stones (C) and (D) followed by stones (E) and (F).

Flame trough

Open the combustion chamber door. Slide in the flame trough (A) on its guides under the ceramic grate.

NOTE! The trough must be slid all the way into the chamber.

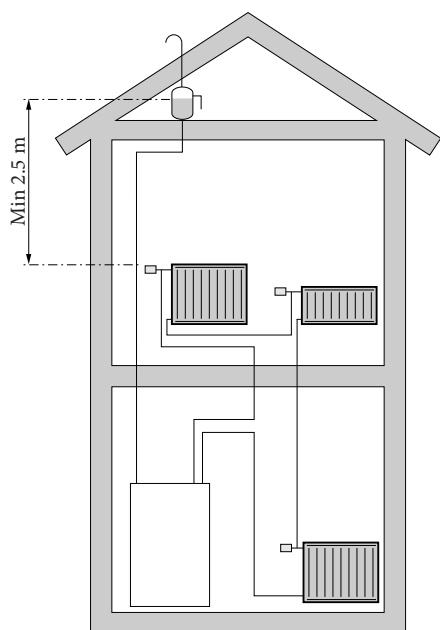
Pipe installation

Connection

The pipe installation must be carried out in accordance with current norms. Internal support bushes should be fitted when a steel pipe or annealed copper pipe is used.

The overflow pipe from any of the safety valves must be routed to a floor drain to prevent hot water splashes when checking the valves or when bleeding the boiler. The outlet of the overflow pipe must be visible.

If the heating installation has an open expansion tank, the distance between the highest radiator and the expansion tank must not be less than 2.5 m.



NOTE!

The pipe work must be flushed before the boiler is connected, so that any contaminants do not damage the component parts.

Flue gas thermometer

VEDEX 3300 is supplied with an enclosed flue gas thermometer which must be installed in the flue gas door outlet.

Filling

Fill the boiler with water using a fixed filler line to one of the expansion connections or a hose in the draining valve.



WARNING!

If filling via the radiator circuit, the shunt valve must be in a central position. Otherwise there is a risk of cracking one of the radiators.

Draining

The draining valve is installed next to connection (84). Drain by connecting a hose to the draining valve.

Cooling coil

VEDEX 3300 is supplied with cooling coil (22) for connection to a temperature limiting valve. Refer to the manufacturer's instructions when installing.

Environmentally friendly approved

To meet the environmentally approved requirements during wood firing an accumulator tank of at least 1000 litres must be installed with the boiler.

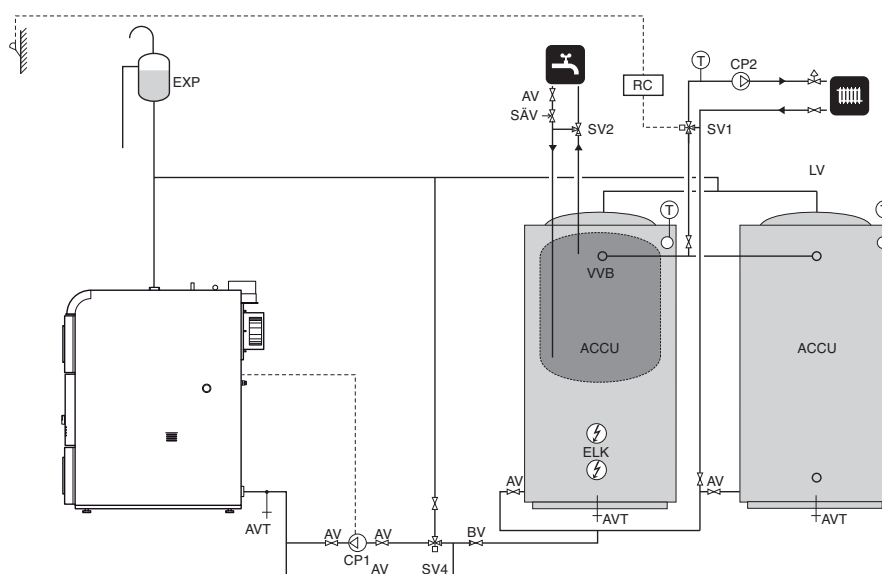
Docking to the accumulator

NOTE! These are outline diagrams. Actual installations must be planned according to applicable standards.

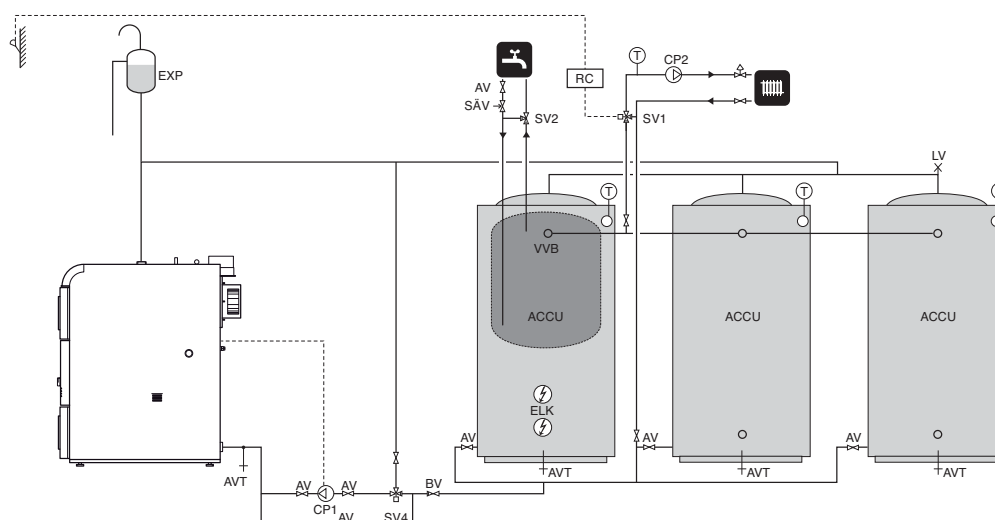
Abbreviations

AV	Shut-off valve	MV	Motor valve
AVT	Draining valve	RC	Control box
BV	Non-return valve	SV1	Shunt valve
CP1	Charge pump	SV2	Mixer valve
CP2	Circulation pump	SV4	Thermal valve
ELK	Immersion heater	SÄV	Safety valve
EXP	Level vessel/expansion vessel	TG	Temperature sensor
LV	Venting valve	VVB	Hot water heater

Docking to two tanks with thermal charge control and open expansion tank



Docking to several tanks with thermal charge control and open expansion tank

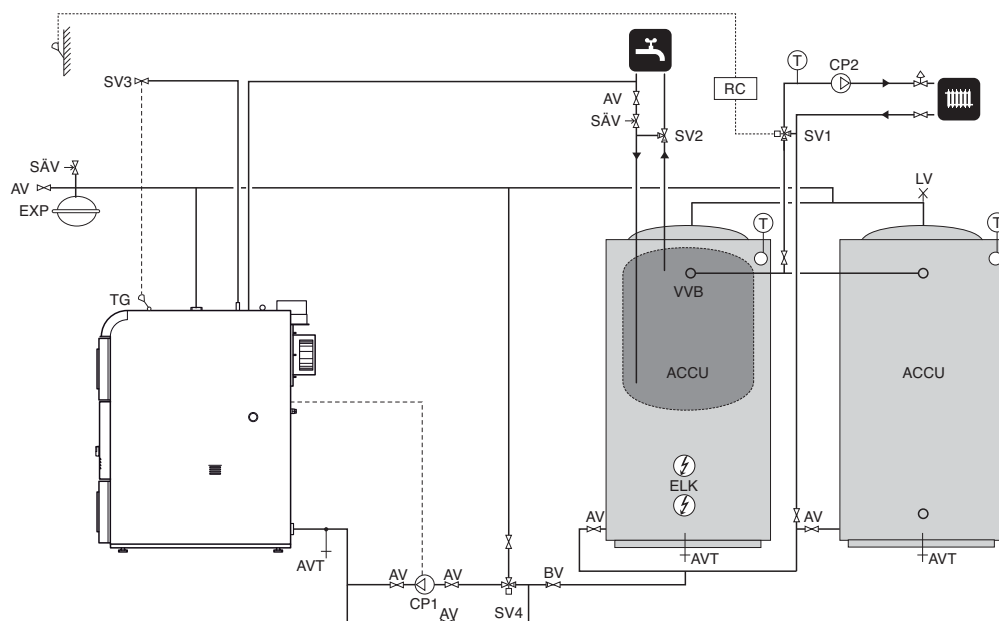


When the boiler's temperature exceeds the set charge temperature (for example, 75°C) the charge pump starts, which then transfers heat from the boiler to the accumulator. The thermal valve ensures that the water temperature to the bottom of the

boiler does not drop so much that there is a risk of condensation.

Docking to the accumulator

Docking to two tanks with thermal charge control and closed expansion vessel



When the boiler's temperature exceeds the set charge temperature (for example, 75°C) the charge pump starts, which then transfers heat from the boiler to the accumulator. The thermal charge control ensures that the water temperature to the bottom of the boiler does not drop so much that there is a risk of condensation.

The expansion vessel volume must be dimensioned according to the applicable norms.

In installations with closed expansion vessel a thermal valve to prevent overheating must be connected from the cold water to the boiler cooling coil, then to a suitable drain.

Overflow water from the safety valve is routed to a drain so that hot water splashes cannot cause injury. The entire length of the overflow water pipe must be inclined to prevent water pockets and must also be frost proof.

⚠ WARNING!

Closed expansion vessel and emergency cooling presupposes there being sufficient cold water supply in event of, for example, a power cut.

Electrical installation

Connection

VEDEX 3300 must be installed via an isolator switch with a minimum breaking gap of 3 mm or be supplied with a suitable plug connector.

The boiler must be connected under the supervision of an authorised electrician. The connection cable for electrical connection is on the reverse of the boiler. There is a connection area for electrical connection behind the front panel (33).

The charge pump is powered from the electrical socket on the reverse of the boiler, max. total current output is 10 A. Min cable area 1.5 mm².

Switch (45) set in position "0" means that the boiler is off.

NOTE!

If the connection cable is damaged or becomes otherwise unusable, it must be replaced by the manufacturer, its service agent or other qualified person to prevent any danger.

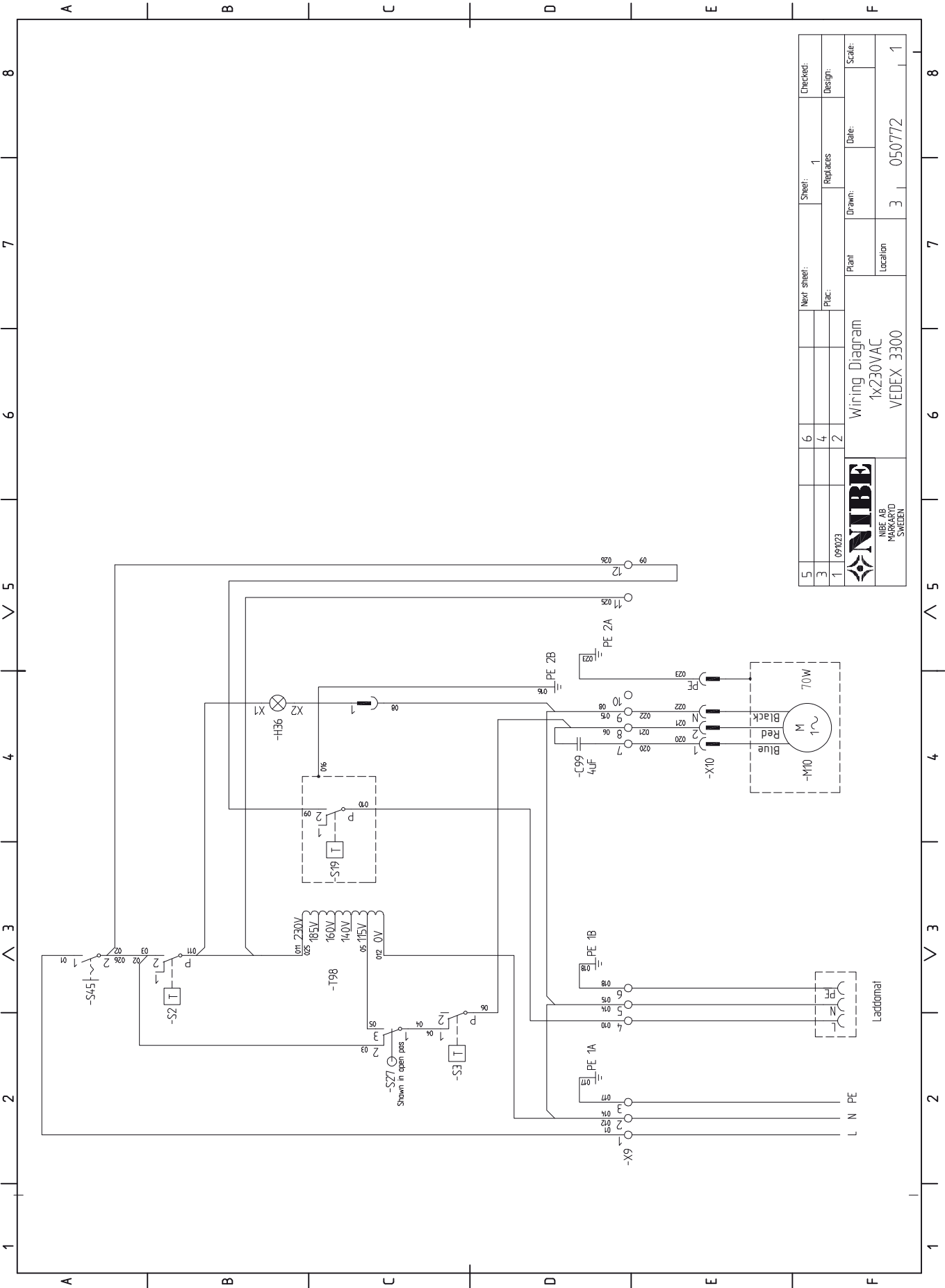
Position "1" is the normal operating position.

With thermal valve

The thermostat is supplied connected for charge control with a thermal valve (laddomat 21 or similar). Connection of the return line from the accumulator tanks is to the return connection (84) on the boiler.

The flue gas thermostat (2) starts and stops the flue gas fan. When the green light comes on, the flue gas thermostat's set temperature has been reached and the flue gas fan starts. Max thermostat (3) stops the flue gas fan when the boiler temperature exceeds the set value. This is to restrict combustion and prevents the boiler temperature from getting too high. The charge thermostat (19) stops the external charge pump when the boiler temperature exceeds the set value. The automatic charge control ensures that the risk of condensing does not occur and manages the transfer of heat from the boiler to the accumulator tanks.

Wiring diagram

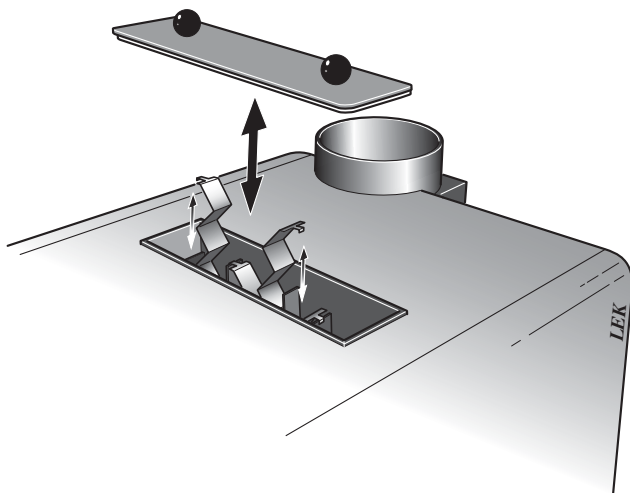


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Wiring Diagram				
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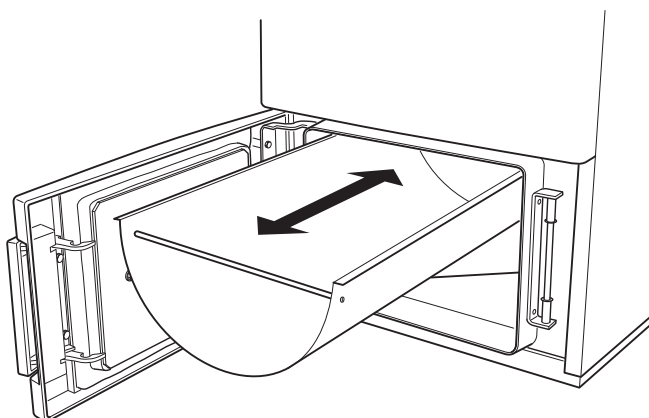
Service

Sweeping description

- Remove the cover from the top of the boiler.
- Lift out the turbulators from the convection part.
- Sweep the convection part.
- Reinstall the turbulators.
- Reinstall the soot door.



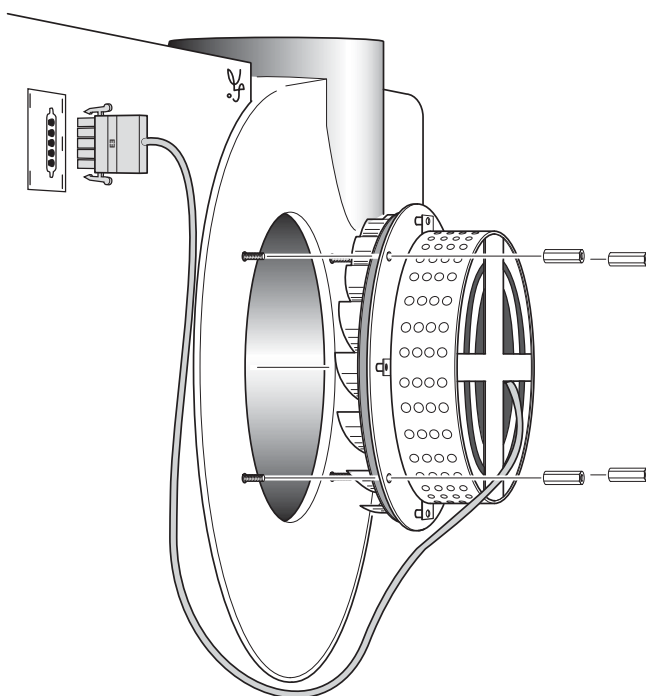
- Open the combustion chamber door (68).
- Pull out the flame trough.
- Empty the trough and clean the ash out. Take care to remove any coked ash residue in the trough.
- Clean the chamber.
- Position the trough and close the door.



Fan

The fan is a central part of VEDEX 3300 and should be treated with care. The fan should be removed and cleaned about twice a year for optimum function and a long service life.

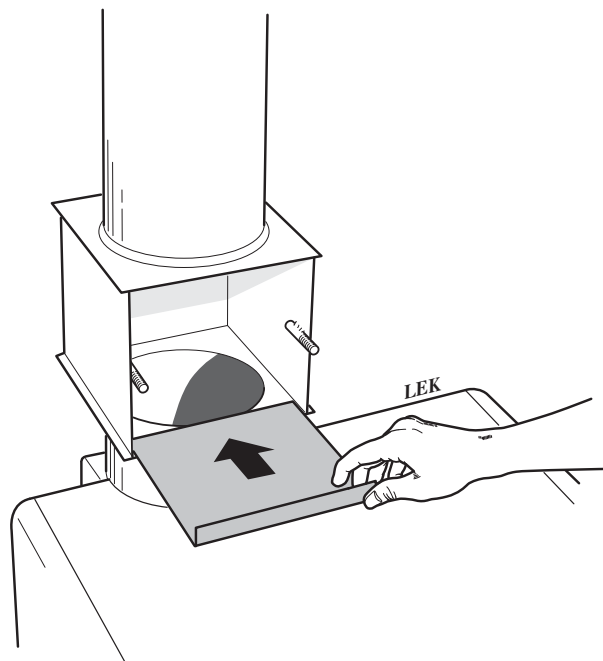
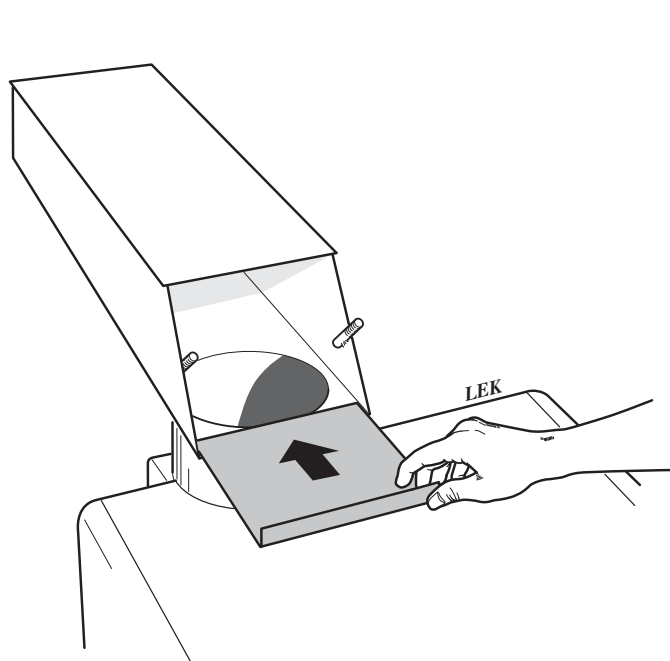
- Check that the boiler is off and that no embers are in the combustion chamber.
- Disconnect the fan from the electrical socket on the boiler.
- Remove the long nuts securing the fan to the boiler.
- Clean the fan blades carefully to prevent deforming them.
- Reinstall the fan and connect the electrical cable.



Cover plate

To prevent soot from getting into the flue gas fan when sweeping, use the supplied cover plate as follows:

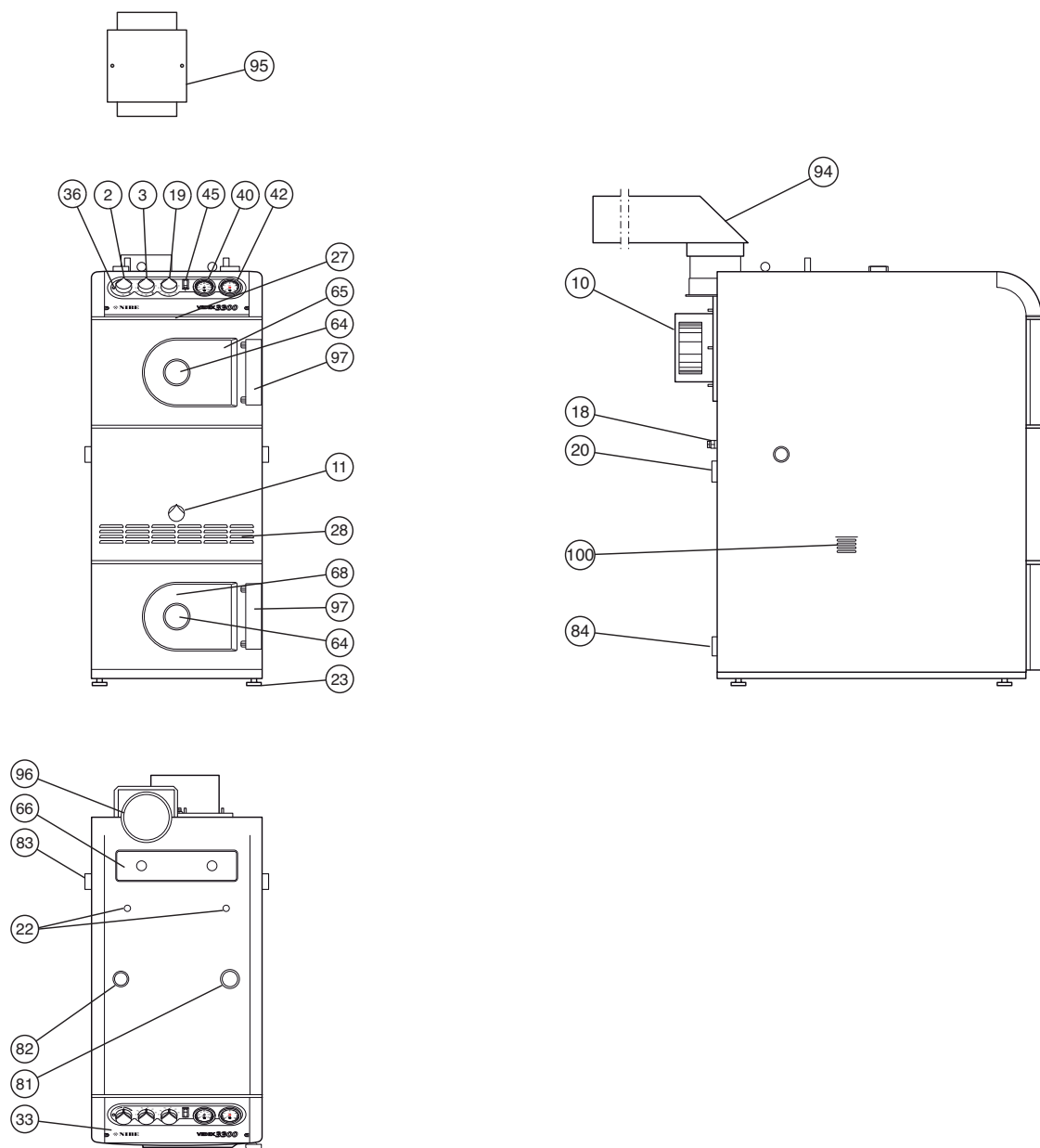
- Remove the soot door.
- Insert the cover plate over the hole as illustrated.
- Reinstall the soot door to prevent soot exiting when sweeping.
- Do not forget to remove the cover plate when sweeping is complete.



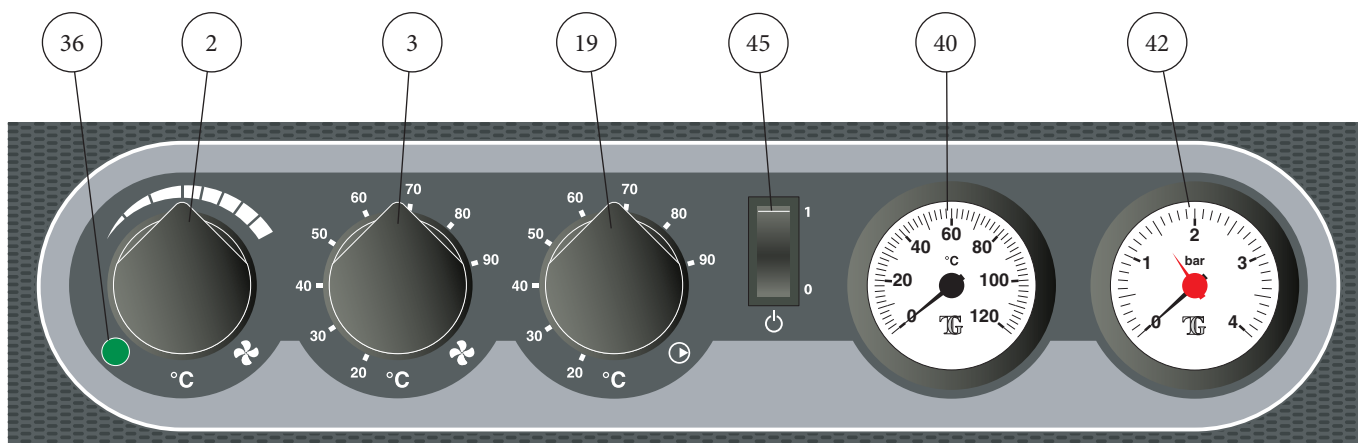
Troubleshooting

Fault	Cause	Correction
Smoke coming out the door	- faulty glass cord	- replace the sealing cord
		- adjust the door hinges
	- the nozzle is clogged	- do not burn small pieces of wood or saw-dust
	- small chimney draught	- fault in the chimney
Boilers do not achieve the required outputs and set water temperature	- the door is not completely closed	- close the boiler door
	- lack of water in the heating system	- refill
	- a high pump output	- adjust the pump flow and switching
	- the boiler output is not sufficiently sized for the water sysytem	- adjust/change the installation
	- low-quality fuel	- use only dry wood with moisture content below 20%
	- leaking firing-up safety valve	- repair
	- small chimney draught	- a new chimney, check and change connection
	- strong chimney draught	- position the throttle into the smoke-flue (draught limiter)
	- bent blades of draw-off ventilator	- straighten the blades (to 90° angle)
	-long firing-up of the boiler	- replace
	- insufficiently cleaned boiler	- clean
The ventilator does not rotate	- clogged combustion air hole in the burning chamber	- clean
	- clogged impellor	- remove the tar and deposits from the ventilator
	- faulty capacitor	- replace
Water inside burning chamber	- faulty engine	- replace
	- the wood is too moist	- use only dry wood with moisture content below 20%
	- set temperature is too low	- increase set temperature of the boiler
Temperature of the boiler body is high	- temperature of return water is too low	- use safety valve to protect return from too low temperature
	- opened boiler door	- close the boiler door
No power	- no power	- check the power in outlet
		- check the plug and cord

Component location, boiler section



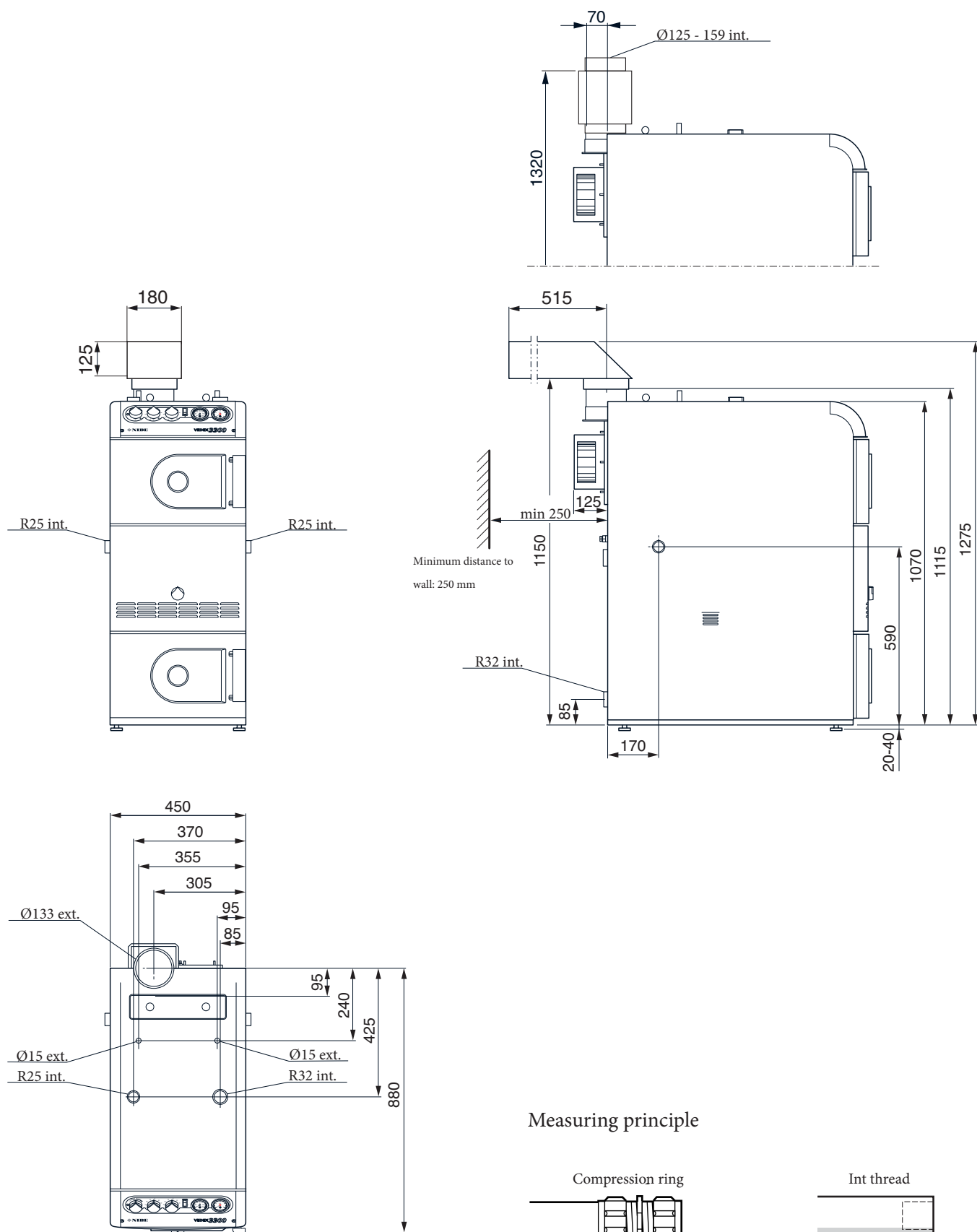
Component location, front panel



List of components

- 2 Flue gas thermostat
- 3 Max. thermostat
- 10 Fan
- 11 Adjusting primary air
- 18 Connection cable electricity
- 19 Charge thermostat
- 20 Electrical socket for charge pump
- 22 Cooling coil Ø 15 ext.
- 23 Adjustable feet (20 – 40 mm)
- 27 Microswitch
- 28 Primary air inlet
- 33 Front panel
- 36 Indicator lamp, operation
- 40 Thermometer
- 42 Pressure gauge
- 45 Control switch
- 64 Sight glass
- 65 Filler door
- 66 Soot hatch for convection section
- 68 Combustion door
- 81 Flow line R32 int
- 82 Expansion terminal, R25 int
- 83 Return connection, thermal R25 int.
- 84 Return connection, or drain connection R32 int
- 94 Angled flue pipe,(standard)
- 95 Vertical flue pipe, (accessory)
- 96 Flue gas connection Ø 133 ext.
- 97 Hatch handle
- 98 Fan transformer
- 99 Fan capacitor
- 100 Secondary air intake (min. 1 m from combustible material on both sides)

Dimensions



Enclosed kit

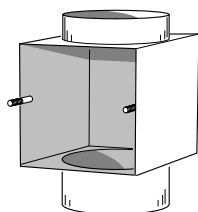
- 1 x Soot brush
- 1 x Soot brush shaft
- 1 x Ash scraper
- 1 x Draining valve
- 1 x Ash shovel
- 1 x Flue gas thermometer
- 1 x Soot door with gasket
- 6 x Turbulators
- 1 x Soot panel
- 1 x Installation and Maintenance Instructions

Accessories

Vertical flue pipe

For vertical chimney connections this unit is used for the vertical flue pipe instead of the supplied angled flue pipe.

Collar	Ø int.	159 mm
Lower connector	Ø int.	139 mm
	Ø ext	144 mm
RSK no.	621 07 37	



Charge package

For best function of the system we recommend our charge package, which contains:

AV	Shut off valve 1" int with gasket	2
AV	Ball valve with union nut and gasket	2
AV	Ball valve with knob 1" int/ext	2
AVT	Draining valve	2
BV	Non-return valve	1
CP1	Charge pump	1
CP2	Circulation pump	1
ELK	Immersion heater 6 kW with gasket	1
ELK	Connection box	1
ELK	Plate y-connection	1
LV	Venting valve	2
RC	Control box	1
SV1	Shunt valve	1
SV4	Thermal valve	1
SÄV/SV2	Valve connection with safety and mixer valve	1
RSK no.	687 60 68	
Part No.	089 765	

Technical data/Technical specifications



Height	1 070 mm (increases 15 – 40 mm for adjustable feet) (increases 15 – 40 mm for adjustable feet)
Width	450 mm
Depth	880 mm
Weight	290 kg
Boiler water volume	65 litres
Voltage	230 V
Max. available output, wood firing	*40 kW
Average output during wood firing	35 kW
Wood magazine volume	95 litres
Wood magazine width x depth	300x550 mm
Wood length	500 mm
Filler door width	300 mm
Filler door height	250 mm
Max. permitted total current for connected units	10 A
Max. operating pressure/design pressure boiler	250/2,5 kPa/bar
Max. wood length	0,5 m
Fan	70 W
RSK no.	620 13 94
Approved in accordance with EN 303-5 Class 3	

* Max. output: 40 kW. Nominal output: 35 kW = Average output over 4 hours with chimney draught of 15 Pa, wood moisture: 16 %.

The boiler is designed for heating systems with pump circulation. Manufactured according to applicable norms. All dimensions in mm. We reserve the right to make changes to designs.

Other information

Exhaust gas temperatures at nominal heat outputs (average temperature in tests)	200 °C
Minimum return temperature at boiler return tapping	60 °C
Flue gas mass flow	0,0165 kg/s
Cold water temperature and pressure for safety heat exchanger	1,5 bar
Water pressure test conducted in production plant	4 bars
Commissioning, including the required boiler output range	38,4 kW

Water-side resistance

Temperature difference	Water flow [m³/h]	Pressure drop [mbar]
10 K	3,7	24
20 K	2,0	5

Białystok, 2014-05-05

DECLARATION OF CONFORMITY

2014



Manufacturer:

NIBE-BIAWAR sp. z o.o.

Al. Jana Pawła II 57
15-703 BIAŁYSTOK
Tel. +48 85 6628490; Fax: +48 85 6628409

Hereby declares, that products

Name of product:

Boiler fired by solid fuel

Type:

VEDEX 3300

in the delivered implementation meets requirements of Directive:

- | | |
|--|---------------------|
| ○ Electromagnetic Compatibility (EMC): | 2004/108/EC; |
| ○ Low Voltage Directive (LVD) (LVD): | 2006/95/EC; |
| ○ Pressure Equipment Directive (PED): | 97/23/EC; |
| ○ Machinery Directive (MD): | 2006/42/EC; |
| ○ Restriction of the use of Hazardous Substances (RoHS): | 2002/95/EC |

Applied standards and technical specifications:

**PN-EN 60335-1; PN-EN 60335-2-102;
PN-EN ISO 12100;
PN-EN 287-1; PN-EN 303-5;
PN-EN 10204; PN-EN 50366;
PN-EN ISO 3834-2; PN-EN ISO 15614-1;
PN-EN 55014-1; PN-EN 55014-2;
PN-EN 61000-3-2; PN-EN 61000-3-3;
PN-EN 62233**

Chief Designer

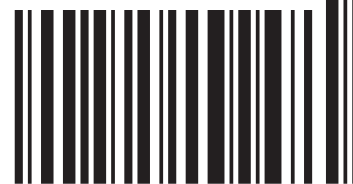
Jerzy Spierzak

Technical Director

Roman Chomczyk

NIBE - BIAWAR sp. z o.o.
15-703 Białystok, Al. Jana Pawła II 57
tel. 085 622 84 90, fax 085 662 84 09
REGON: 050042407 NIP: PL 542-02-00-292

VEDEX 3300



231312

(AT) **KNV Energietechnik GmbH**, Gahberggasse 11, 4861 Schörfling
Tel: +43 (0)7662 8963-0 Fax: +43 (0)7662 8963-44 E-mail: mail@knv.at www.knv.at

(CH) **NIBE Wärmetechnik AG**, Winterthurerstrasse 710, CH-8247 Flurlingen
Tel: (52) 647 00 30 Fax: (52) 647 00 31 E-mail: info@nibe.ch www.nibe.ch

(CZ) **Druzstevni zavody Drazice s.r.o.**, Drazice 69, CZ - 294 71 Benátky nad Jizerou
Tel: +420 326 373 801 Fax: +420 326 373 803 E-mail: nibe@nibe.cz www.nibe.cz

(DE) **NIBE Systemtechnik GmbH**, Am Reiherpfahl 3, 29223 Celle
Tel: 05141/7546-0 Fax: 05141/7546-99 E-mail: info@nibe.de www.nibe.de

(DK) **Vølund Varmeteknik A/S**, Member of the Nibe Group, Brogårdsvej 7, 6920 Videbæk
Tel: 97 17 20 33 Fax: 97 17 29 33 E-mail: info@volundvt.dk www.volundvt.dk

(FI) **NIBE Energy Systems OY**, Juurakkotie 3, 01510 Vantaa
Puh: 09-274 697 0 E-mail: info@nibe.fi www.nibe.fi

(FR) **AIT France**, 10 rue des Moines, 67500 Haguenau
Tel : 03 88 06 24 10 Fax : 03 88 06 90 15 E-mail: info@nibe.fr www.nibe.fr

(GB) **NIBE Energy Systems Ltd**, 3C Broom Business Park, Bridge Way, Chesterfield S41 9QG
Tel: 0845 095 1200 Fax: 0845 095 1201 E-mail: info@nibe.co.uk www.nibe.co.uk

(NL) **NIBE Energietechniek B.V.**, Postbus 634, NL 4900 AP Oosterhout
Tel: 0168 477722 Fax: 0168 476998 E-mail: info@nibenl.nl www.nibenl.nl

(NO) **ABK AS**, Brobekkveien 80, 0582 Oslo, Postadresse: Postboks 64 Vollebakk, 0516 Oslo
Tel. sentralbord: +47 23 17 05 20 E-mail: post@abkklima.no www.nibeenergysystems.no

(PL) **NIBE-BIAWAR Sp. z o. o.** Aleja Jana Pawła II 57, 15-703 BIAŁYSTOK
Tel: 085 662 84 90 Fax: 085 662 84 14 E-mail: sekretariat@biawar.com.pl www.biawar.com.pl

(RU) © "EVAN" 17, per. Boynovskiy, Nizhny Novgorod
Tel./fax +7 831 419 57 06 E-mail: info@evan.ru www.nibe-evan.ru
