

UK

# Safe Plate Heat Recovery Unit

Read this manual and save for future reference!

**exodraft**

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**Legend**

The following terms are used in this manual to draw attention to potential risks or to important information about the product:

**DANGER**

Indicates an imminent dangerous situation that can cause death, serious injury or significant property damage in a worst-case scenario.

**CAUTION**

Indicates an imminent dangerous situation that can cause injury or property damage in a worst-case scenario.

**COMPLY WITH THE FOLLOWING IN ORDER TO MINIMIZE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY:**

1. Use this unit for its intended purpose.
2. Before maintenance or cleaning, the heat source must be shut off and cooled down. You must ensure that the heat source is not turned back on inadvertently.
3. Installation and wiring must be done by authorized personnel.
4. Follow the guidelines and safety standards of the manufacturer.
5. A safety thermostat (ST110) and/or safety valve must be installed and connected to the burner, ensuring disconnection in case of excessive temperatures. The switch must comply with EN 14597.
6. Accessories are not included in this manual. See the separate manuals for these components.

# 1. Product Information

## 1.1 Function

### Application

**exodraft** Safe Plate is a compact heat recovery unit for use in exodraft system solutions.

The exchange cassette is a compact lead-in module that recovers the passing heat (air to water).

Safe Plate is used primarily in smaller industrial and commercial plants with long operating hours and high exit temperatures (max 400°C) in flue pipes and chimneys.

Safe Plate is easy and fast to maintain and clean. Typically, it is used in bakeries, the food processing industry, and in metal processing.

The recovered and stored energy may be used for things like production, utility water, water for heating, cleaning, or process water.

Safe Plate comes with an integrated safety and operative bypass damper and is prepared for easy installation along with standard exodraft automation.

Safe Plate can be used in heated process air from gas, electricity, and oil\* for heated heat sources.

\*) May require special alloy for exchanger

### Limitations

Strictly for indoor installation.

Range of operation: 80- 500 kW (nominal burner power input).

Max. temperature 400°C.

Process air or flue gas must be of a nature that does not clog up the exchangers in short order. Directions for standard use must be followed

## 1.2 Shipping

### Shipping

Basic Plate is shipped strapped to a pallet along with a manual. The package may contain loose components.

### Standard packing slip

If other components are also shipped, these will appear as separate items on the packing slip.

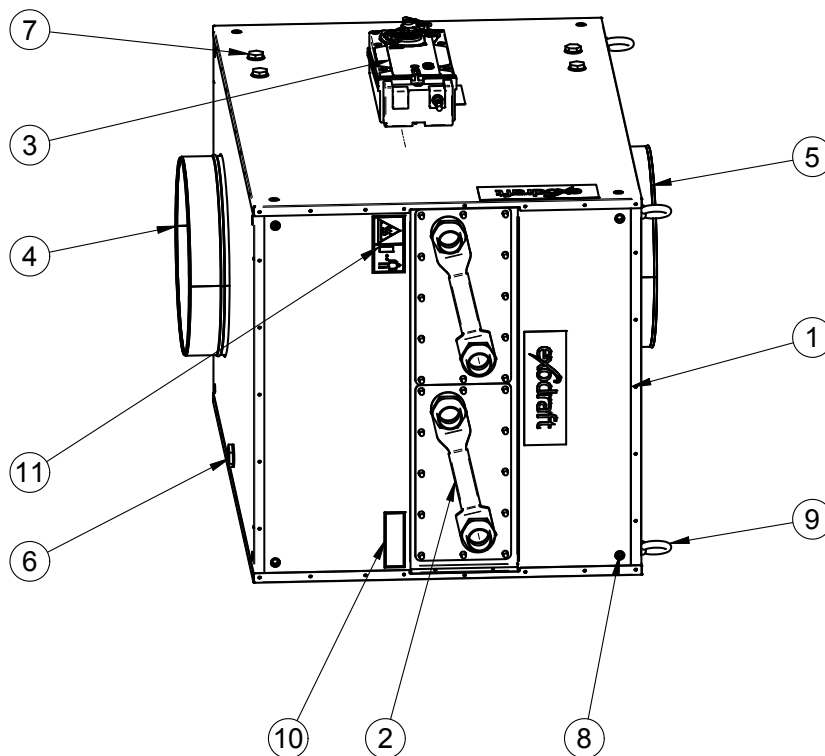
## 1.3 Warranty

**exodraft** products must be installed by qualified personnel. Failure to comply gives **exodraft a/s** the right to declare the product warranty null and void in whole or in part.

**exodraft** reserves the right to make changes to these guidelines without prior notice.

## 1.4 Components

### Standard Components



1. Housing
2. Exchanger
3. Damper motor
4. Input connection
5. Output sleeve
6. 1" drain (all 1" connections are drains)
7. 1/2" measuring point (all 1/2" connections are measuring points)
8. M12 thread for fastening (There is a total of three mounting points in each corner of Safe Plate, each with M12 thread)
9. Lifting eye
10. Nameplate
11. Danger/Warning sign

### Optional components

PT 1000 temperature transmitter		
SP Model no.	PT 1000 Type	Length
SP80	2400279	150 mm
SP120	2400279	150 mm
SP250	2400279	150 mm
SP375	2400278	300 mm
SP500	2400278	300 mm

2400266	Push connection for $\varnothing 8/4$ mm hose
2400067	Double cover plate
2400068	Single cover plate
2000335	Silicone hose $\varnothing 8/\varnothing 4$ mm
2400355	ST110 safety thermostat
3200984	Damper motor auxiliary switch



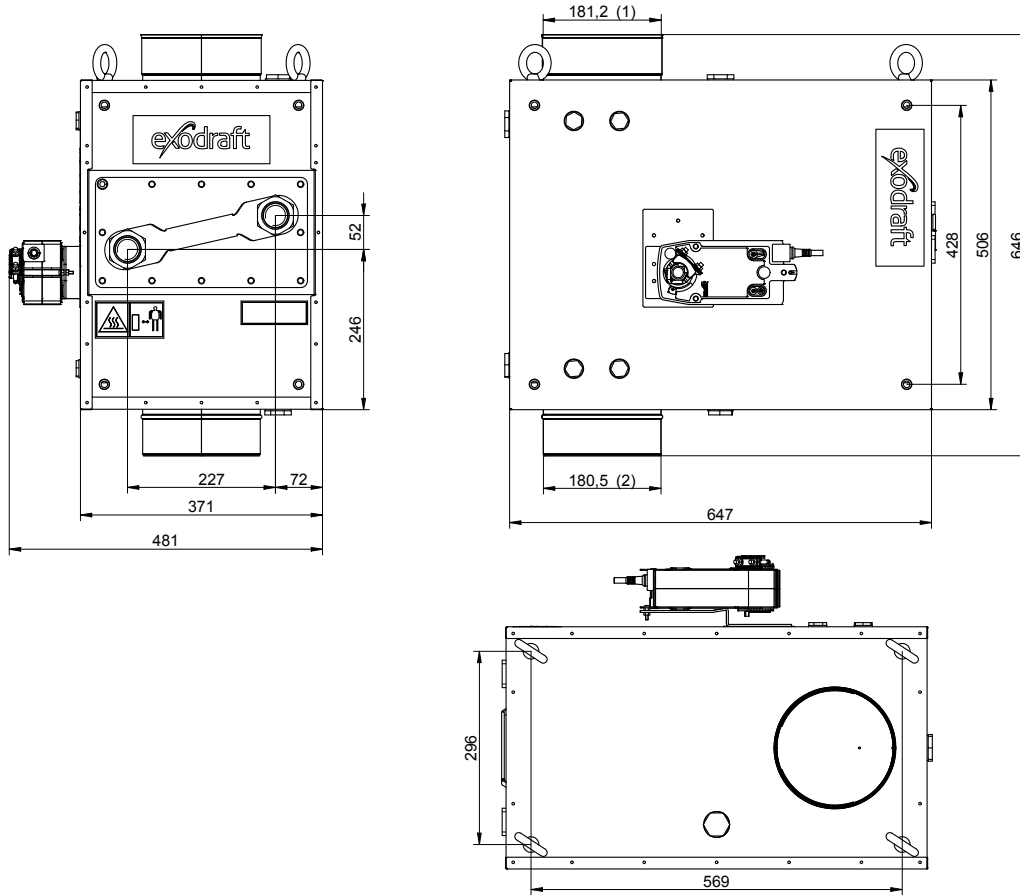
## 1.5 Basic Types

exodraft item number	Type (Safe Plate)	Description	Approximate connection power
8001100	SP80	Integrated bypass AIREC exchanger, copper brazed Standard pipe connection dimensions Max. 400°C	80kw
8001200	SP120	Integrated bypass AIREC exchanger, copper brazed Standard pipe connection dimensions Max. 400°C	120kw
8001300	SP250	Integrated bypass AIREC exchanger, copper brazed Standard pipe connection dimensions Max. 400°C	250kw
8001400	SP375	Integrated bypass AIREC exchanger, copper brazed Standard pipe connection dimensions Max. 400°C	375kw
8001500	SP500	Integrated bypass AIREC exchanger, copper brazed Standard pipe connection dimensions Max. 400°C	500kw



## 2. Technical Specifications

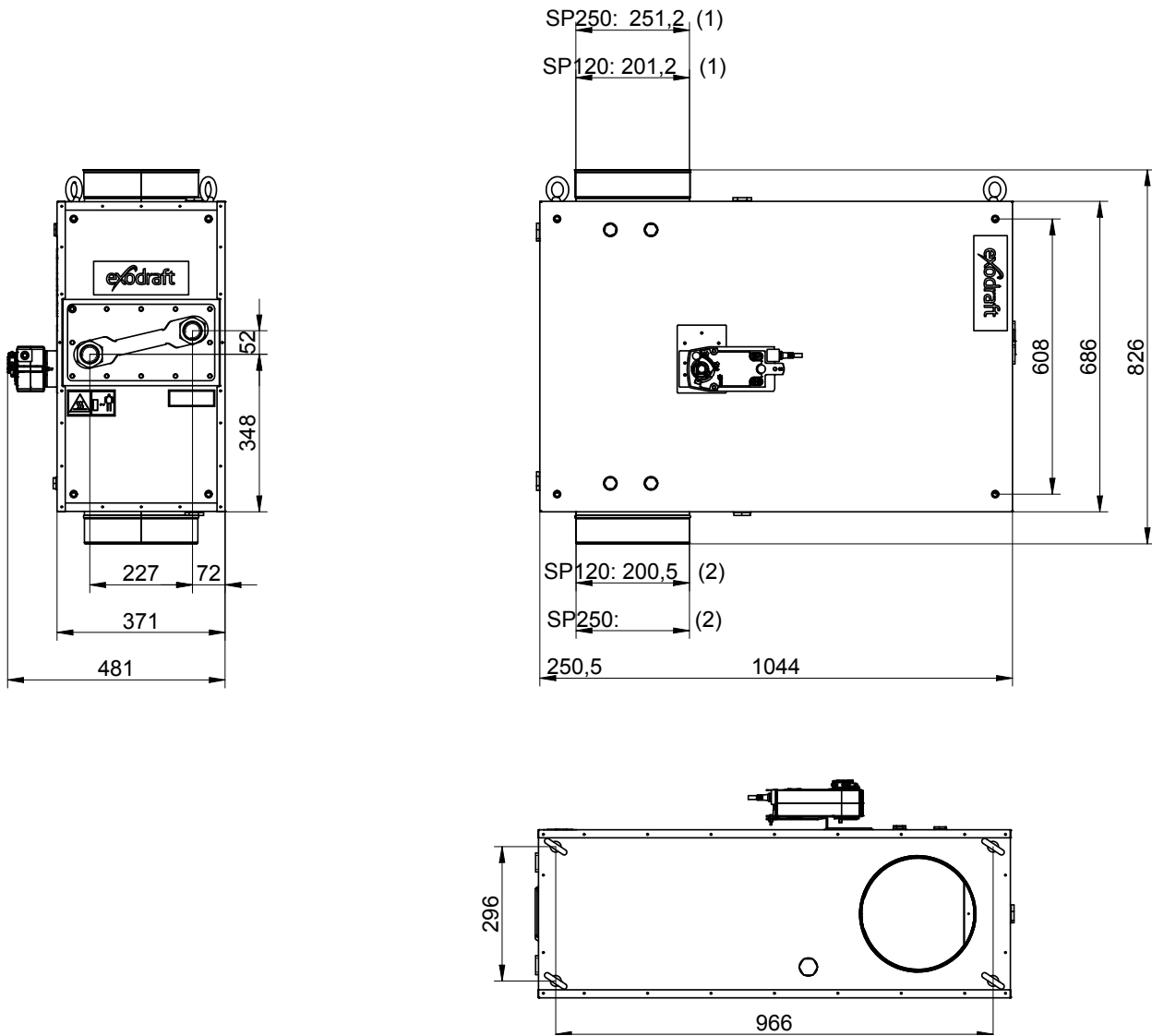
### 2.1 Type SP80



(1) specifies inside sleeve dimensions

(2) specifies outside adapter dimensions

**2.2 Type SP120/250**

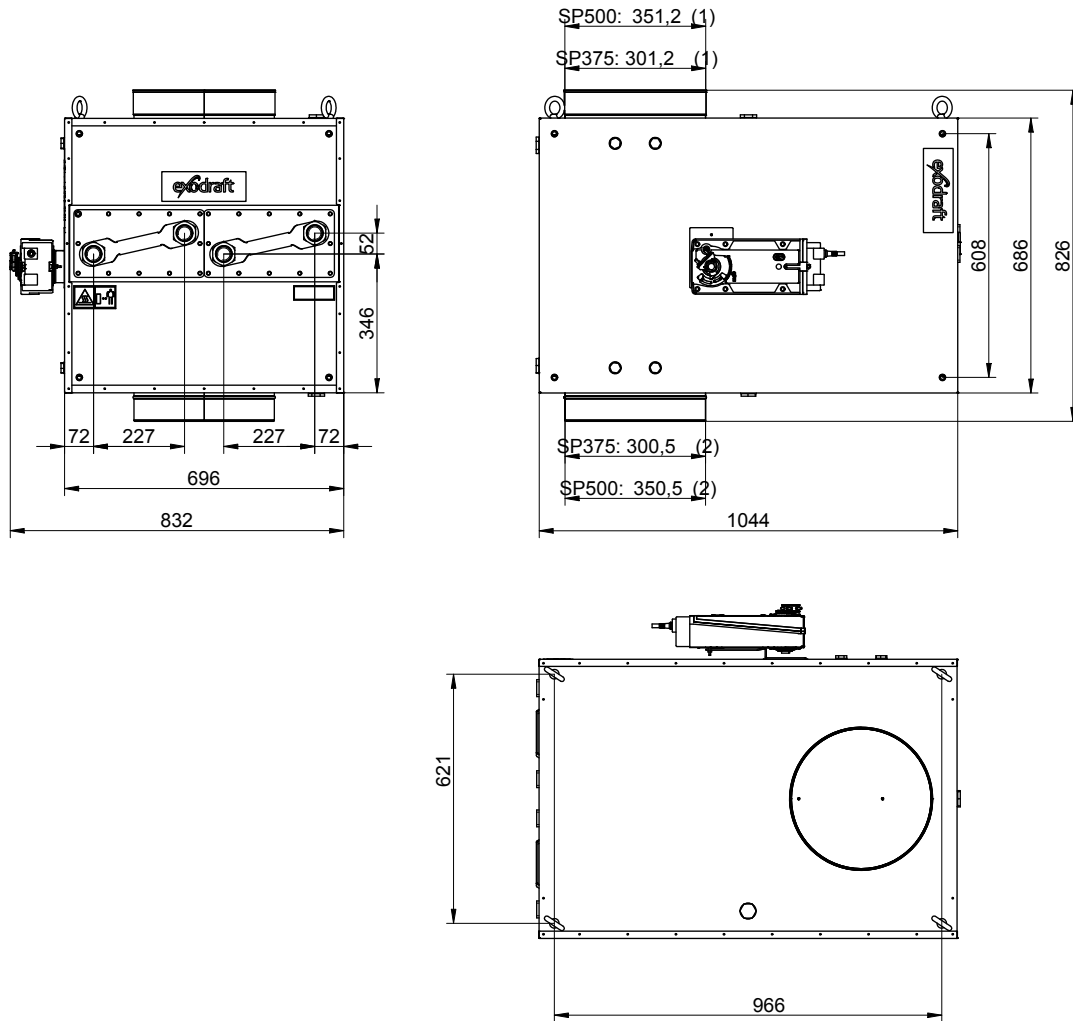


- (1) specifies inside sleeve dimensions
- (2) specifies outside adapter dimensions





**2.3 Type SP375/500**



- (1) specifies inside sleeve dimensions
- (2) specifies outside adapter dimensions



### 3. Mechanical Installation

#### 3.1 General

##### CAUTION



If the exodraft Safe Plate heat recovery unit is not installed, maintained, and/or operated in compliance with the manufacturer's instructions, conditions may arise which could lead to personal injury or material damage.

Safe Plate must be installed by qualified personnel in compliance with these instructions and all local regulations.

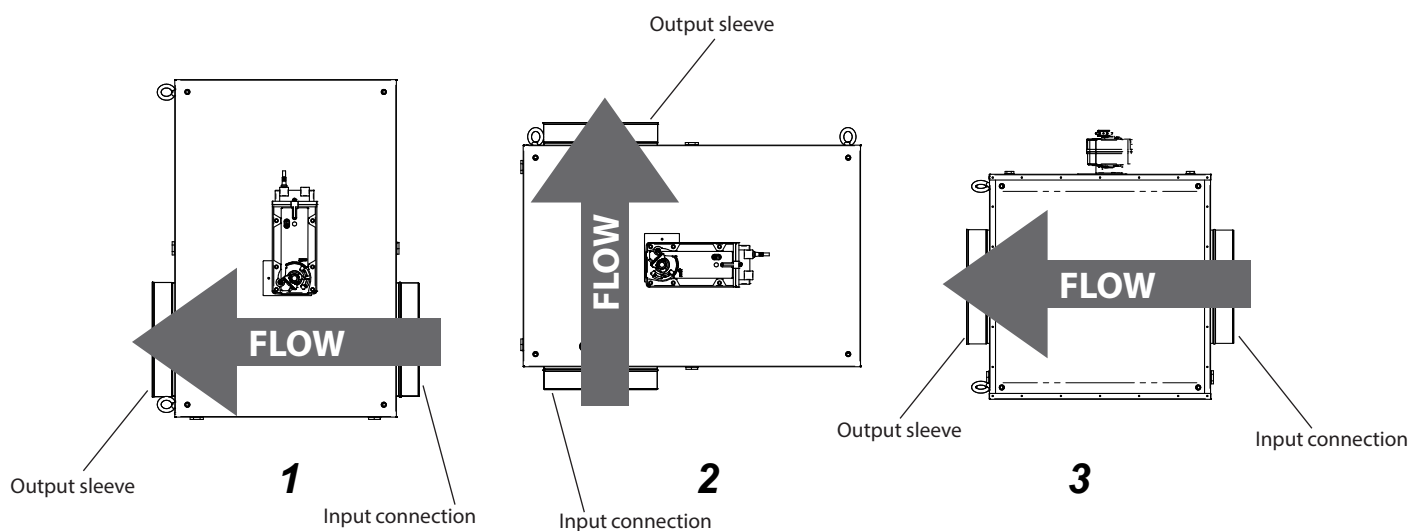
Observe national regulations regarding distance from flammable materials.

#### 3.2 Orientation

Safe Plate can be oriented in 3 different ways.

When orienting Safe Plate heat recovery units, it is important to consider placement of drain connections as well as options for ventilating the heat exchangers.

Safe Plate cannot be operated with the damper motor facing down, since this risks any condensation running down the damper axle.



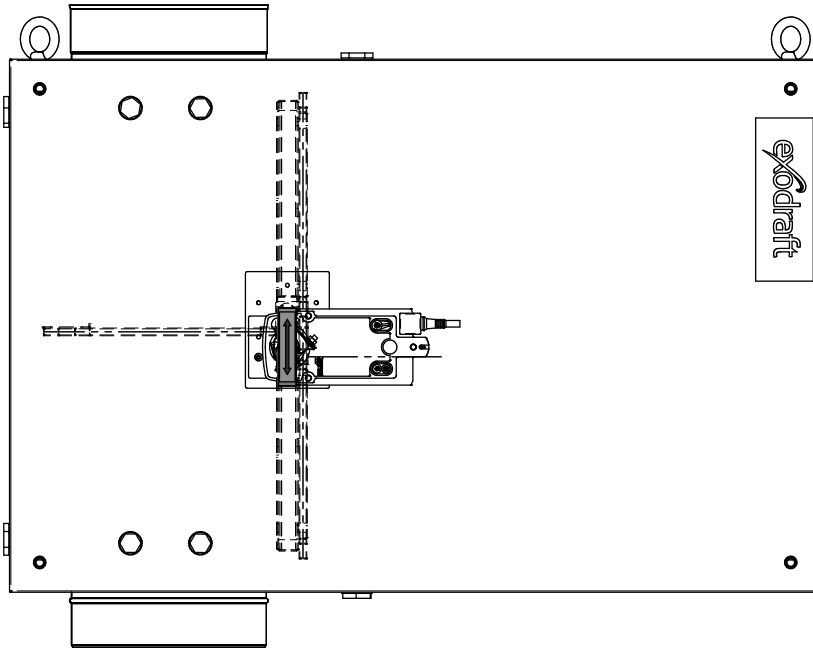


### 3.3 Damper Direction

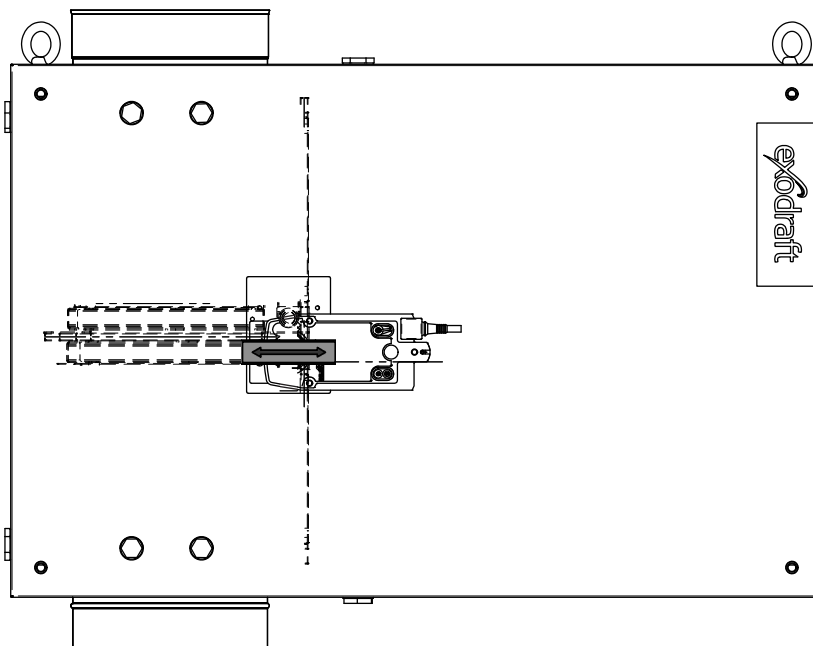
To ensure which direction the damper faces when the unit is mounted, a damper indicator is mounted at the end of the shaft. The arrow points the direction of the damper. See examples below.

As a default setting, the safety position of the dampers is always from the exodraft production, closed for access to the heat exchangers, which corresponds to situation A, below.

**A.**  **Vertical damper direction and vertical flue gas direction**  
- Dampers are closed for heat exchanger



**B.**  **Horizontal damper direction and vertical flue gas direction**  
- Dampers are open for heat exchanger





### 3.4 Placement

Placement of the Safe Plate heat recovery unit must be considered carefully. We recommend placing the Safe Plate as close to the heat source as possible. Furthermore, you must allow for hot surfaces on the Safe Plate.

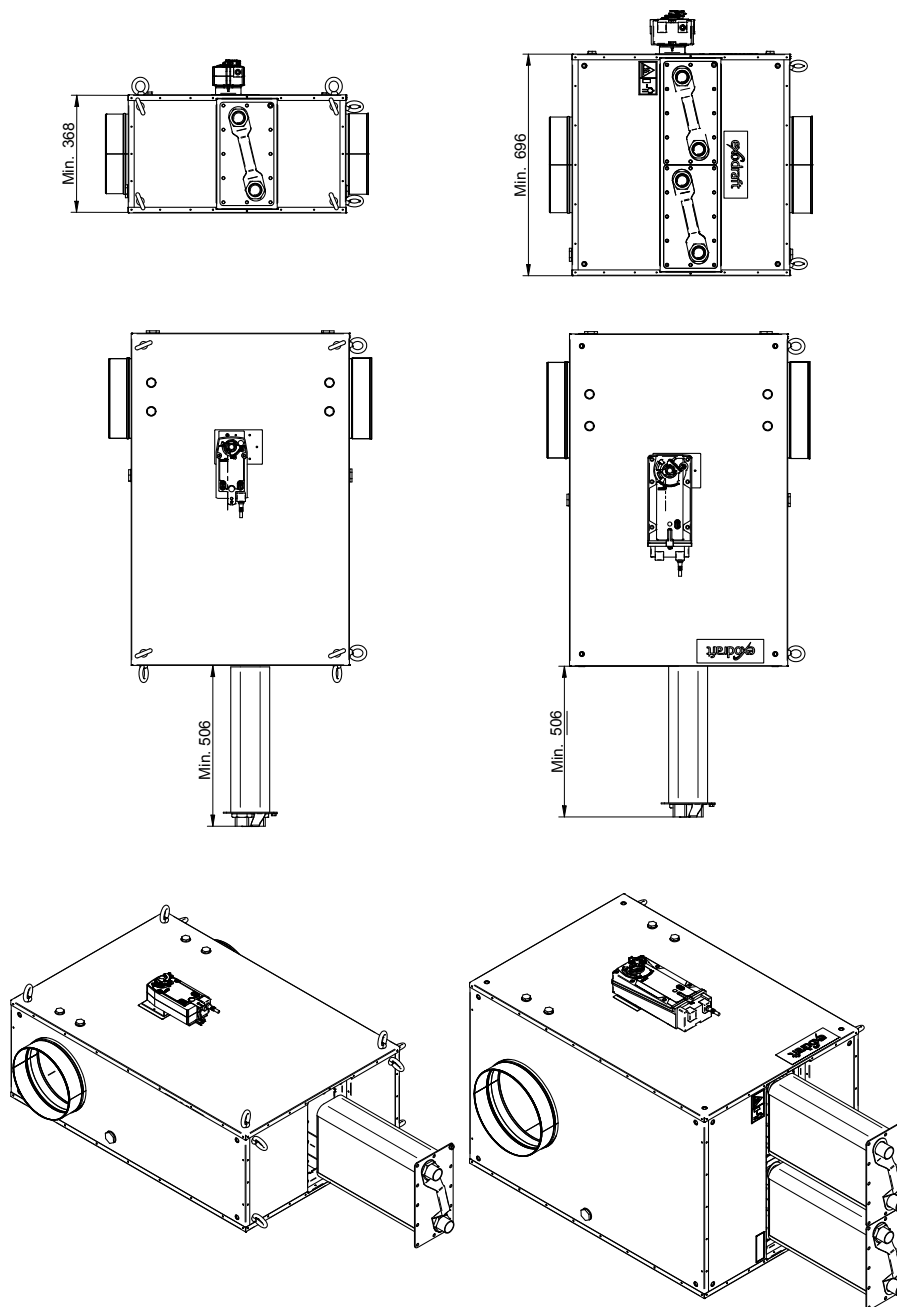


**Observe national regulations regarding distance from flammable materials.**

If Safe Plate is placed where it is easily accessible, it must be shielded to avoid inadvertent touch and any risk of collision.

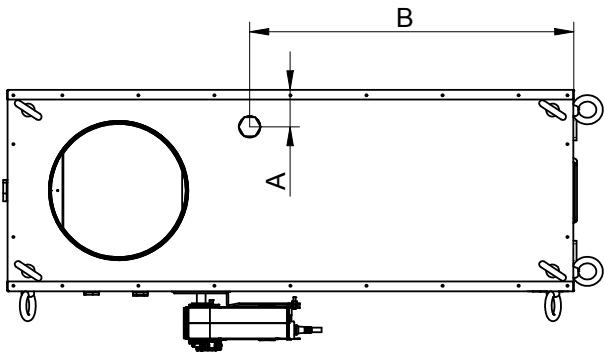
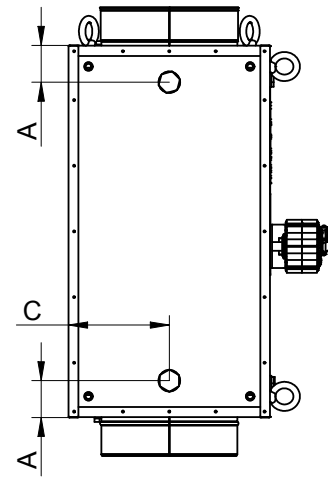
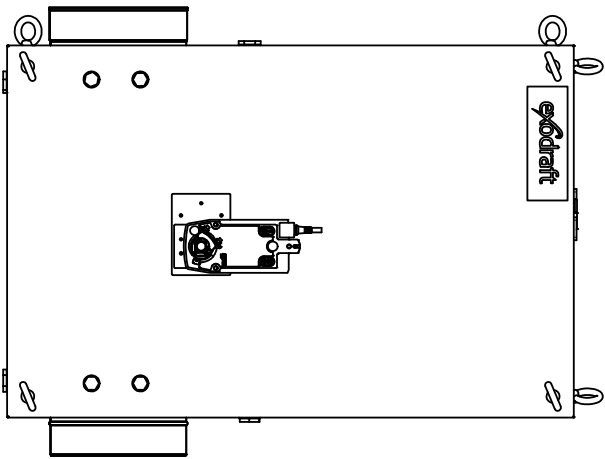
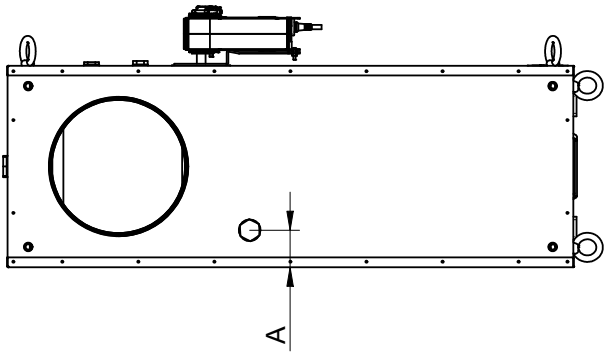


**Safe Plate must be installed in a way that accommodates pulling out the exchanger for servicing and maintenance.**



### 3.5 Drain Connection

#### Placement of drain holes in Safe Plate



	A	B	C
SP80	68	324	186
SP120	68	597	186
SP250	68	597	186
SP375	68	522	348
SP500	68	522	348

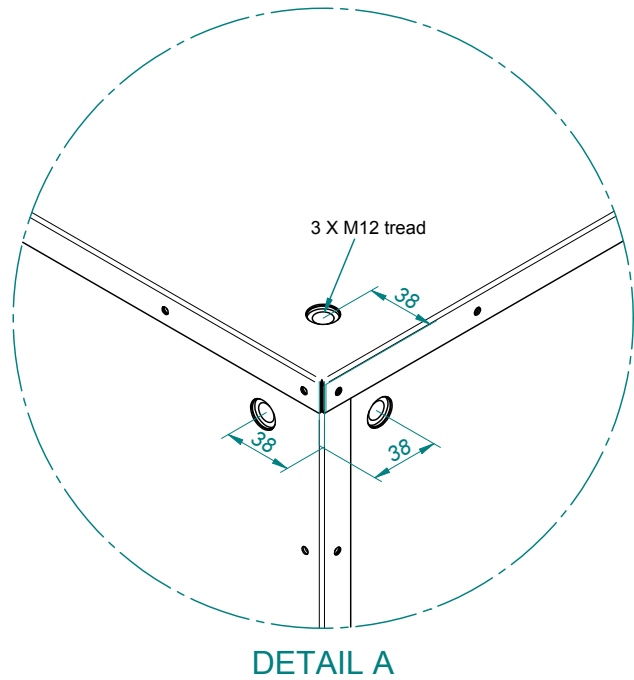
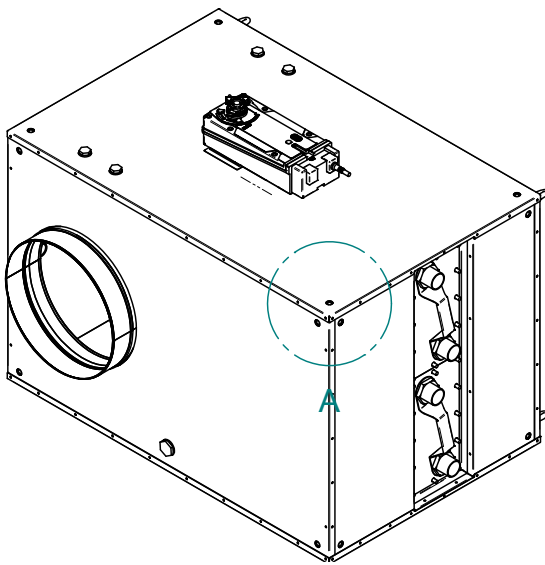


### 3.6 Mounting

The weight must be distributed among at least 4 mounting corners (see section 3.6 – Mounting Points). Mounting points are only intended to support the weight of the product itself. Safe Plate is not built to support the weight of any chimney.



**DANGER**  
Max load on mounting corner 100kg



exodraft item number	Type (Safe Plate)	Weight incl. heat exchangers [kg]
8001100	SP80	58
8001200	SP120	90
8001300	SP250	92
8001400	SP375	144
8001500	SP500	150

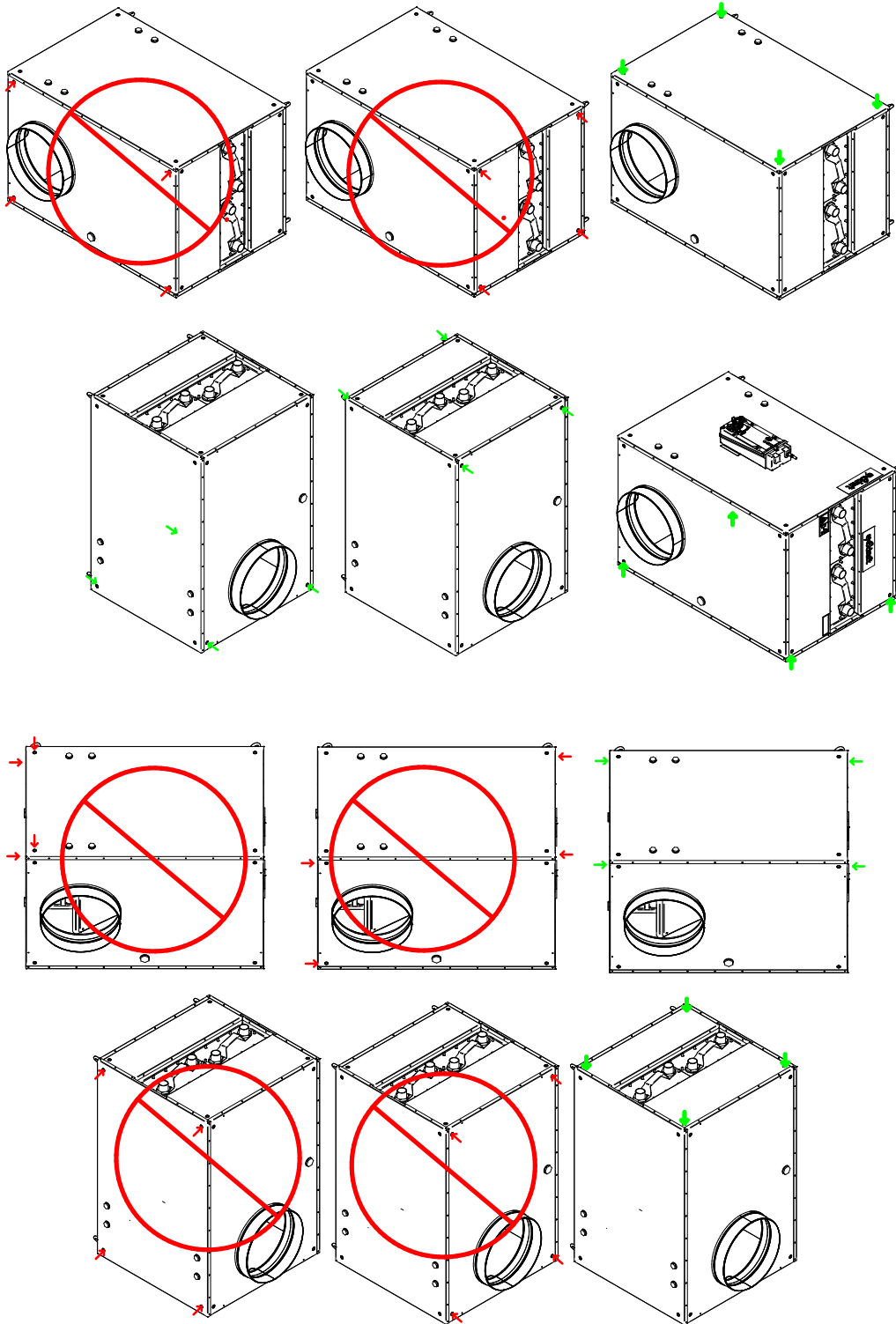


### 3.7 Mounting Points

When mounting the Safe Plate, you must use a minimum of four loadbearing mounting points.

Safe Plate should not be mounted using four points on the same side, unless it is the top or the bottom. Depending on the position of the exchanger, "top" = surface facing the ceiling".

Safe Plate should not be mounted using four points where two surfaces meet or where the points are offset. See examples below:



### 3.8 Connection

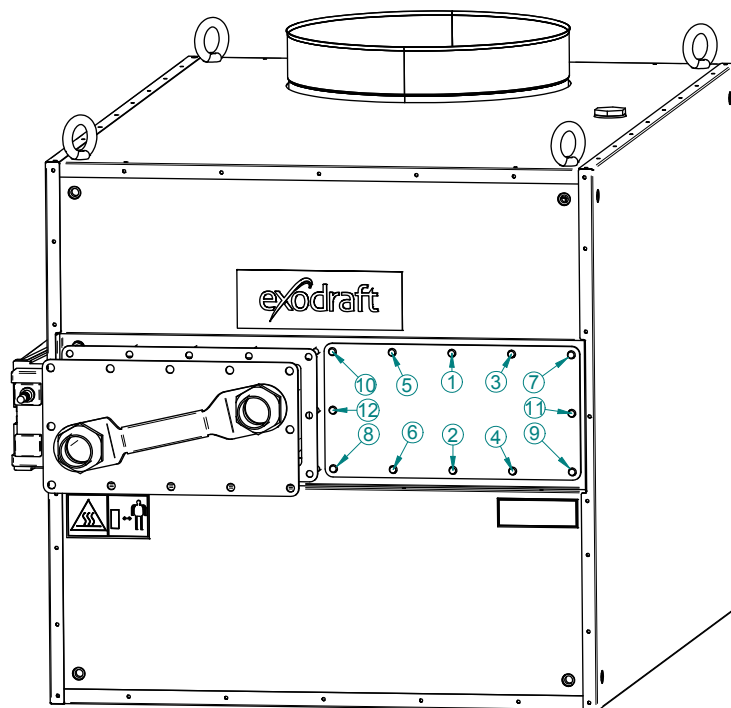
- Connection on heat exchangers is 1 1/4" outside thread
- Connection to drain is 1" inside thread
- Connection to measuring points is 1/2" inside thread

#### CAUTION



**Safe Plate comes with heat exchangers temporarily mounted for shipping. When installing, the included gaskets, nuts, and washers must be fitted. Tightening the exchanger is done as shown in the illustration below. Nuts are tightened crosswise to 20 Nm.**

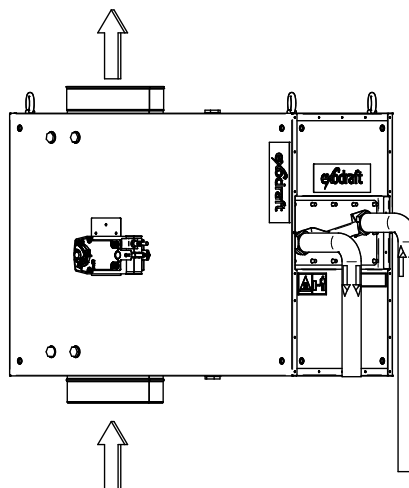
The washer for the heat exchanger can only be used once.



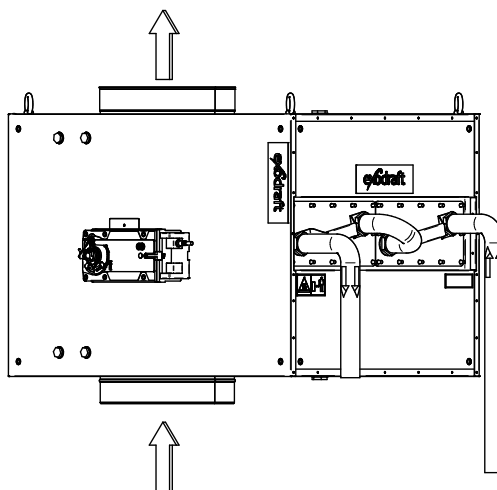




Water connection for version SP80/120/250



Water connection for version SP375/500



When selecting gasket material, keep in mind that the temperature for drains and measuring points can be the same as the temperature of the flue gas.

We recommend installing a water trap on the drain connection. The water trap should be placed a good distance from the Safe Plate to avoid the water evaporating.



**DANGER**

**The safety thermostat must be fitted on the supply side.  
The pressure relief valve must be fitted to the water circuit. See recommended system pressure in section 7.**



**CAUTION**

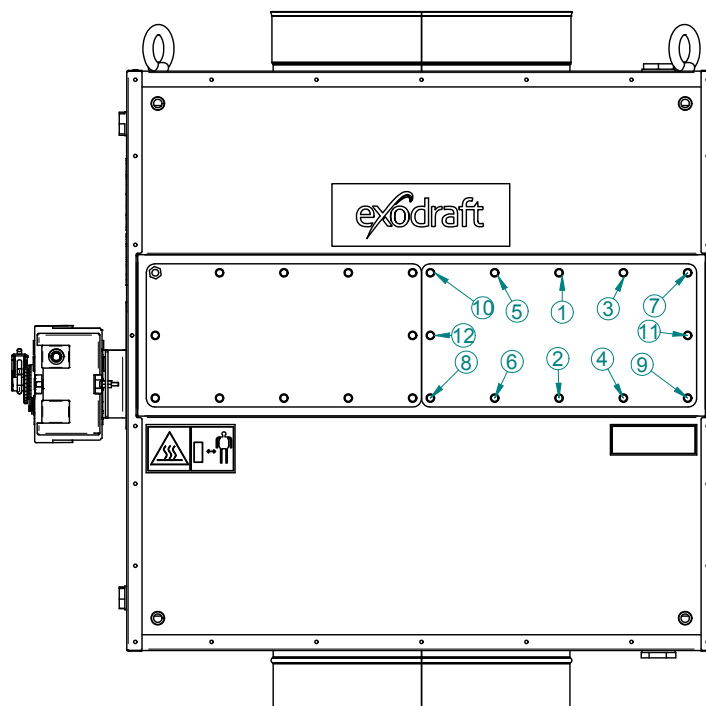
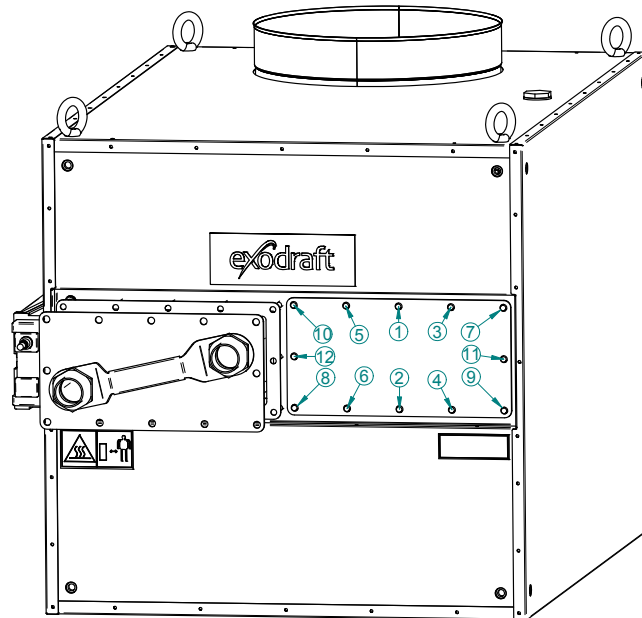
**If the drain is connected to the sewer system, you must ensure that condensate complies with any emission requirements.**



### 3.9 Installation without water connection

If Safe Plate is installed without water connection, the exchanger must be pulled out and a cover plate installed (if needed see section 1.4 – Optional Components)

Tightening of the exchanger cover plate is done as shown in the illustration. Nuts are tightened crosswise to 20 Nm.





## 4. Electrical Installation

### 4.1 General



**DANGER**

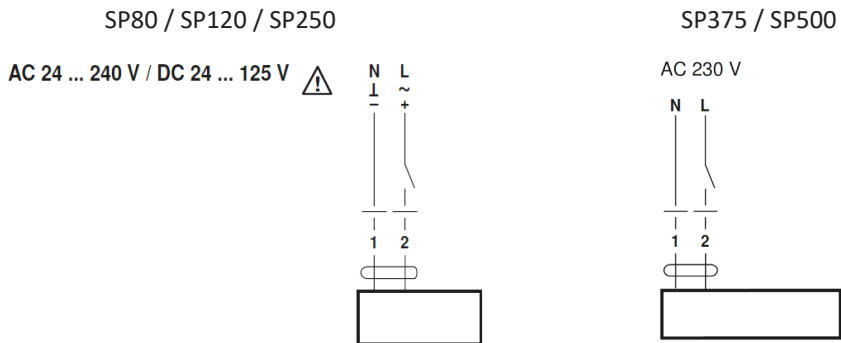
Turn off the power before working on the unit. Contact with live wires can cause electric shock or death.



**CAUTION**

If it becomes necessary to replace any of the original wiring that was delivered with the system, you need to use the same type of wire with the same temperature classification. If this is not done, the isolation can melt or erode, exposing the actual wire. All wiring must be completed in accordance with national regulations.

### 4.2 Wiring Diagram / Electrical Connection of Damper Motor

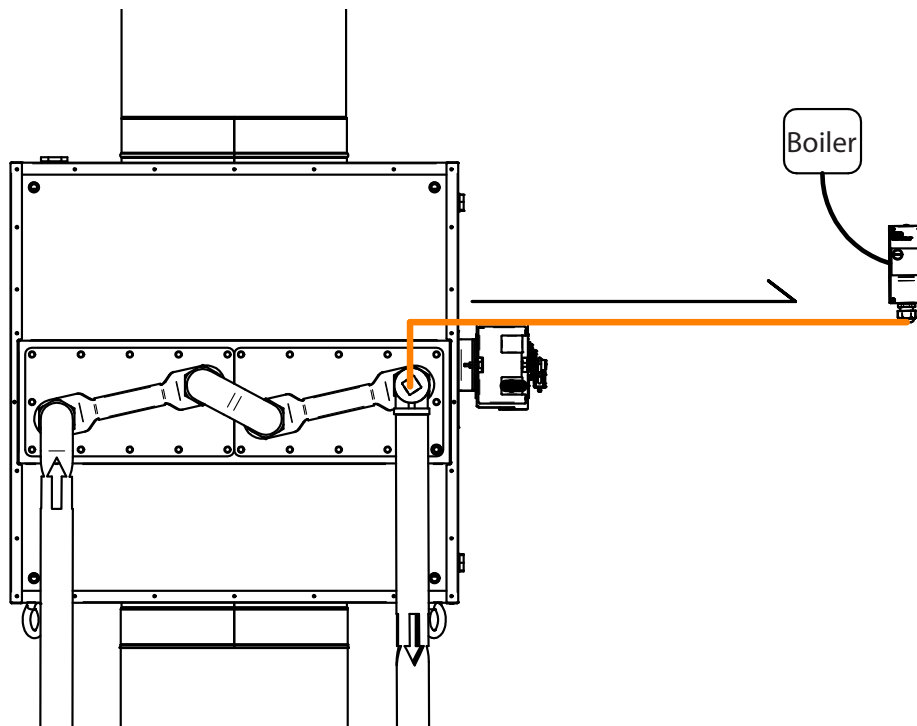


### 4.3 Placement of Safety Thermostat



**CAUTION**

If using safety thermostat ST110, it must be placed away from the heat source, so the ambient temperature of the sensor is as low as possible. If this is not complied with, the boiler may be disabled inadvertently.





## 5. Operating Conditions

### 5.1 Primary-/Flue Gas Side

- Max. flue gas temperature: 400°C
- Max. working pressure: 0 Pa
- Min. working pressure: -5000 Pa
- Max. temperature on surface of heat exchanger: 190° (calculated in opticalc)
- Flue gas quality: checks that the flue gas is not corrosive for exchanger (option of other types of exchangers upon request)
- The chemical composition and pH of the condensate are checked before removal

### 5.2 Secondary-/Liquid Side

- Max. working pressure: copper brazed exchanger 12 bar<sub>a</sub> / nickel brazed exchanger 6 bar<sub>a</sub>
- Min. working pressure: recommended system pressure 1.5 bar<sub>a</sub> . See recommended system pressure in section 9.
- Max. temperature on surface of heat exchanger: 190° (calculated in opticalc)
- Max. media temperature is dependent on the surface temperature and the used media



## 6. Start-Up and Configuration

### 6.1 General

The purpose of this **exodraft** Safe Plate heat recovery unit is to recover surplus energy from flue gasses and process air. The unit is environmentally friendly, economical, and compact.

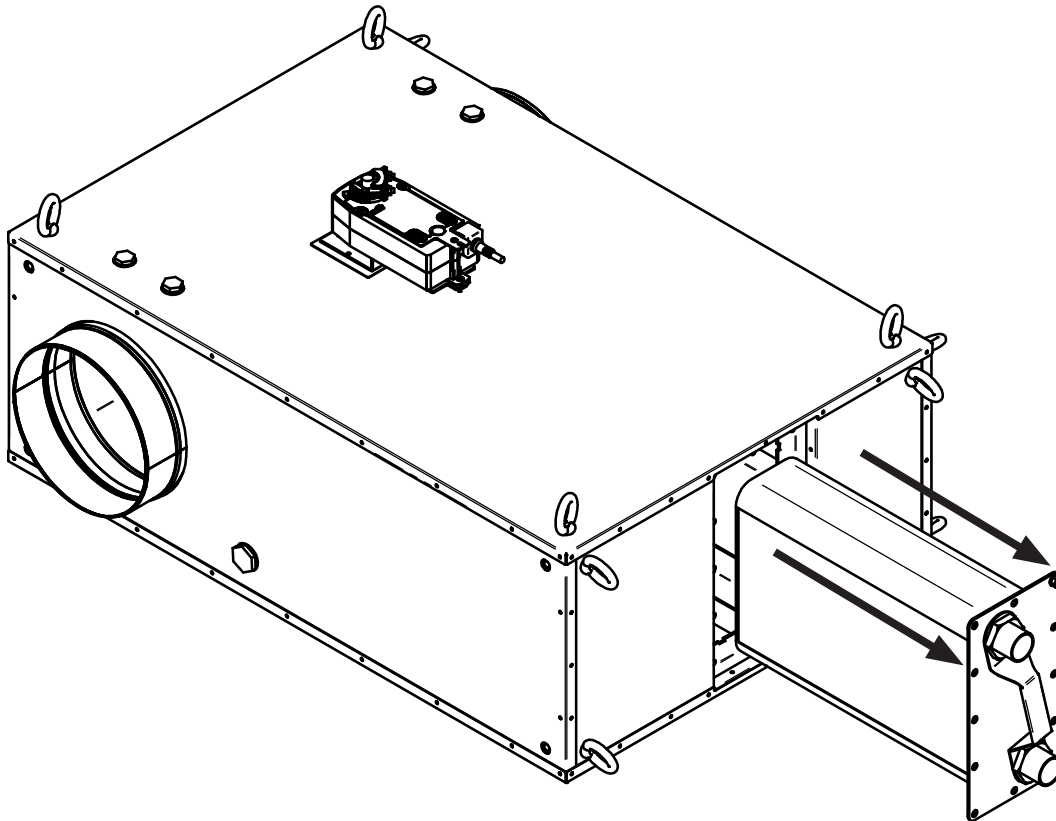
### 6.2 System Test



#### CAUTION

**Safe Plate should not be put into operation before being properly installed. Danger of contact with hot components.**

1. Connect the water and bleed the system
2. If condensation is a possibility, connect the drain to an appropriate outlet
3. Activate the circulation pump (not supplied by exodraft) and check that it's running
4. Check that system pressure is consistent with system pressure tables in section 9
5. Check the voltage comparing it to the name plate of the damper motor
6. Check that the unit is set to bypass when the motor receives no voltage, and that the damper has not been bent during shipping or installation
7. Turn on the power and check that the bypass damper is working (see operating manual)
8. Do a slow and controlled warmup of the Safe Plate heat recovery unit
9. Check joints and seams for any leaking



## 7. Maintenance and Troubleshooting

### 7.1 Maintenance and Cleaning



**Safe Plate should be cleaned at regular intervals depending of the level of dirt in the passing air. The unit should be checked for leaks and wear at least once a year.**

To ensure maximum flow through the exchanger cassettes, it is important to clean them. The cleaning interval will depend on how much dirt the unit is exposed to.

### 7.2 Cleaning of Exchanger

1. Drain the water from the exchanger cassettes
2. Detach hose/pipe connections to exchanger
3. Loosen all nuts on the exchanger and pull the exchanger out by the handle
4. When cleaning the exchanger, you can use compressed air, soaking, or pressure washing
5. After cleaning, the exchanger is refitted. (Note that as a rule, the gasket can only be used once)
6. Nuts on the exchanger should be tightened crosswise to 20Nm
7. Reattach hose/pipe connections to exchanger
8. Follow directions in point 5.2 as far as restarting the system



#### CAUTION

**The exchangers are heavy – see weight table below.**

The weight of Safe Plate exchangers, without water, is laid out in the table below.

exodraft item number	Exchanger product number	Number of exchangers	Weight per exchanger
8001100 SP80	3200986	1	11
8001200 SP120	3200987	1	13
8001300 SP250	3200989	1	17,5
8001400 SP375	3200987	2	13
8001500 SP500	3200989	2	17,5



#### CAUTION

**Do not open the housing unless the Safe Plate power has been disconnected from the power supply.**

### 7.3 Spare Parts

Spare parts are available for Safe Plate. The table below shows the available parts.

2400282	Heat exchanger gasket
3200986	Exchanger Cross30-C-80-G1.25 Copper brazed
3200987	Exchanger Cross30-C-100-G1.25 Copper brazed
3200989	Exchanger Cross30-C-140-G1.25 Copper brazed
3200991	Exchanger Cross30-C-80-G1.25 Nickel brazed
3201052	Exchanger Cross30-C-100-G1.25 Nickel brazed
3200880	Exchanger Cross30-N-140-G1.25 Nickel brazed
3201081	Damper motor NFA 10 Nm
3201080	Damper motor SFA 20 Nm
3201064	Damper motor EF230A - 30 Nm

### 7.4 Troubleshooting

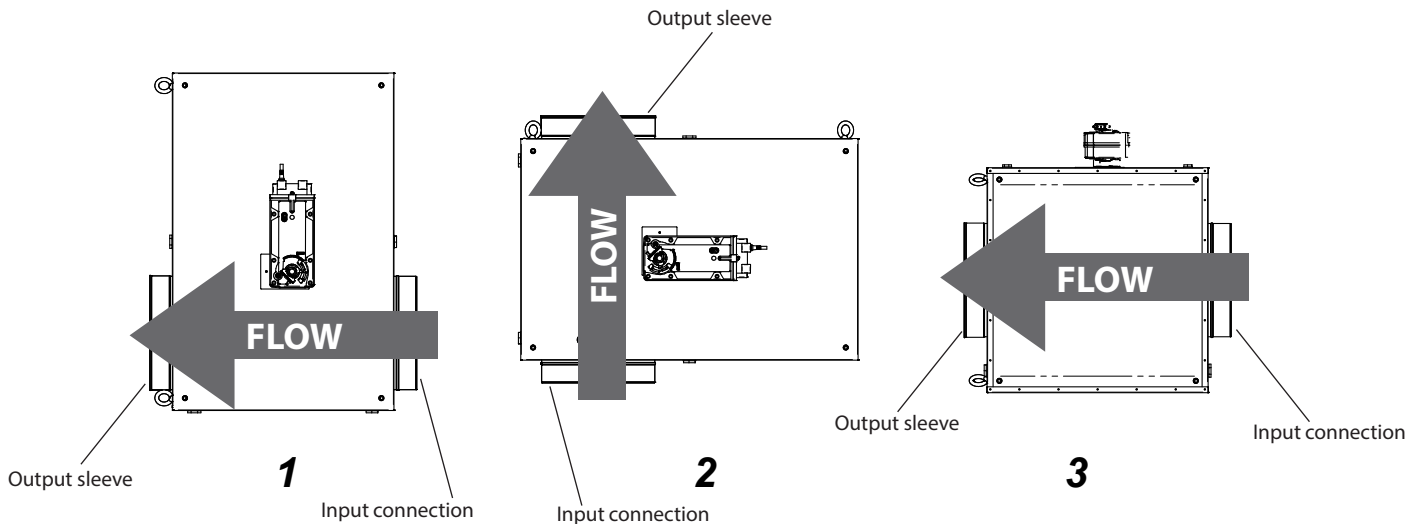
Problem	Possible cause	Rectification
The supply temperature is low and the temperature difference between the flue gas intake and exhaust is too small.	<ul style="list-style-type: none"> <li>- There is air in the water system</li> <li>- The circulation pump is not operating correctly</li> <li>- The mixing valve is not operating correctly</li> <li>- The unit is in bypass mode</li> <li>- The water connections have been switched</li> <li>- The exchanger cassette is dirty</li> <li>- The damper is jammed</li> </ul>	<ul style="list-style-type: none"> <li>- The system needs to be bled</li> <li>- Check the operation of the circulation pump</li> <li>- Check the operation of the controller</li> <li>- Check the motor voltage and connection</li> <li>- Correctly connect the supply and return sides. (see section 3.7)</li> <li>- Clean the unit and check that the drain is working</li> <li>- Clean the unit and check that the damper can move</li> </ul>
The burner is disabled at low water temperatures	<ul style="list-style-type: none"> <li>- The safety thermostat is disengaging</li> </ul>	<ul style="list-style-type: none"> <li>- Check the operation of the safety thermostat</li> <li>- Check the safety thermostat setting</li> <li>- The system needs to be bled</li> <li>- Check the operation of the circulation pump</li> </ul>
The burner is disabled at high water temperatures	<ul style="list-style-type: none"> <li>- There is air in the water system</li> <li>- The circulation pump is not operating correctly</li> <li>- The mixing valve is not operating correctly</li> <li>- The unit isn't switching to bypass</li> <li>- The burner is operating at excessively high power</li> <li>- The damper is jammed</li> </ul>	<ul style="list-style-type: none"> <li>- The system needs to be bled</li> <li>- Check the operation of the circulation pump</li> <li>- Check the operation of the controller</li> <li>- Check voltage and connection of motor</li> <li>- Check that the damper can turn freely</li> <li>- A larger Safe Plate is needed or the burner power must be reduced.</li> <li>- Clean the unit and check that the damper can move</li> </ul>
Poor chimney draft	<ul style="list-style-type: none"> <li>- The exchanger cassette is dirty</li> <li>- The damper is jammed</li> </ul>	<ul style="list-style-type: none"> <li>- Clean the unit and check that the drain is working</li> <li>- Clean the unit and check that the damper can move</li> </ul>

## 8. Maximum Operating Time in Bypass

### 8.1 Importance of Orientation

The orientation of the Safe Plate is significant for how long you can stay in bypass operation without risking excessive heating of the water in the heat exchanger.

In tables 8.2 and 8.3 you will find indications as to how many hours it is possible to operate in bypass without water circulation before the water temperature exceeds 105°C (minimum system pressure 1.5 bar<sub>a</sub>) and 115°C (minimum pressure 2 bar<sub>a</sub>), respectively according to orientation. In both tables, the water temperature starts at 60°C.



### 8.2 Overview Table for Water Temperature 60-105°C

The time is indicated in hours and the water temperature is 60-105°C. The value of the tables come from the Exodraft testing stand.

#### SP80

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	∞	∞
2	∞	∞	10,45
3	∞	∞	4,15

#### SP120/250

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	∞	∞
2	∞	10,15	2,30
3	∞	∞	3,30

#### SP350/500

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	10,45	3
2	∞	13,30	2,30
3	∞	∞	1,15



### 8.3 Overview Table for Water Temperature 60-115°C

The time is indicated in hours and the water temperature is 60-115°C.  
The value of the tables come from the Exodraft testing stand.

#### SP80

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	∞	∞
2	∞	∞	∞
3	∞	∞	14,45

#### SP120/250

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	∞	∞
2	∞	∞	3,15
3	∞	∞	6,15

#### SP350/500

Position / Flue gas temperature	200°C	300°C	400°C
1	∞	∞	4,10
2	∞	∞	3,40
3	∞	∞	1,40

## 9. System Pressure

System pressure is tested according to these standards: 2014/68/EU Fluid Group: 1 & 2 201, 2006/42/EF and 2014/35/EU.

### 9.1 System Pressure SP80

Minimum system pressure [bar <sub>a</sub> ]											
		Exhaust temperature [°C]						Exhaust temperature [°C]			
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400		
	10	1,5	1,5	1,5		10	1,5	1,5	1,5		
	20	1,5	1,5	1,5		20	1,5	1,5	2		
60°C	30	1,5	1,5	2	70°C	30	1,5	2,5	3		
	40	1,5	2	3		40	1,5	3	4		
	50	1,5	2,5	4		50	2	3,5	5		
Vandudtags-temperatur	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400		
	10	1,5	1,5	1,5		10	1,5	2	2		
	20	1,5	2	2,5		20	2	3	3,5		
80°C	30	2,5	3	4	90°C	30	3	4	5		
	40	2,5	4	5		40	3,5	5	6,5		
	50	3	4,5	7		50	3,5	6	9		
Water sample temperature	$\Delta t$	200	300	400							
	10	2	2,5	2,5							
	20	3	3,5	4,5							
100°C	30	3,5	5	6,5							
	40	4	6,5	8							
	50	5	8	NA							

### 9.2 System Pressure SP120

Minimum system pressure [bar <sub>a</sub> ]											
		Exhaust temperature [°C]						Exhaust temperature [°C]			
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400		
	10	1,5	1,5	1,5		10	1,5	1,5	1,5		
	20	1,5	1,5	1,5		20	1,5	1,5	2		
60°C	30	1,5	1,5	2	70°C	30	1,5	2	3		
	40	1,5	2	3		40	1,5	3	4		
	50	1,5	2,5	4		50	2	3,5	4,5		
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400		
	10	1,5	1,5	1,5		10	1,5	2	2		
	20	1,5	2	2,5		20	2	3	3,5		
80°C	30	2	3	4	90°C	30	3	4	5		
	40	2,5	4	5		40	3,5	5	6,5		
	50	2,5	4,5	7		50	3,5	6	8,5		
Water sample temperature	$\Delta t$	200	300	400							
	10	2	2,5	2,5							
	20	3	3,5	4							
100°C	30	3,5	5	6							
	40	4	6,5	8							
	50	5	7	11							

### 9.3 System Pressure SP250

Minimum system pressure [bar <sub>a</sub> ]									
		Exhaust temperature [°C]					Exhaust temperature [°C]		
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	1,5	1,5	1,5		10	1,5	1,5	1,5
	20	1,5	1,5	1,5		20	1,5	1,5	2
60°C	30	1,5	1,5	2	70°C	30	1,5	2	2,5
	40	1,5	2	3		40	1,5	2,5	3
	50	1,5	2,5	3,5		50	2	3	4,5
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	1,5	1,5	1,5		10	1,5	2	2
	20	1,5	2	2,5		20	2	2,5	3
80°C	30	2	3	4	90°C	30	2,5	4	5
	40	2,5	3,5	5		40	3	5	6,5
	50	2,5	4,5	6		50	3,5	5,5	8
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	2	2,5	2,5		10	2	2,5	2,5
	20	2,5	3,5	4		20	2,5	3,5	4
100°C	30	3,5	4,5	6	100°C	30	3,5	4,5	6
	40	4	6	8		40	4	6	8
	50	5	7	10		50	5	7	10

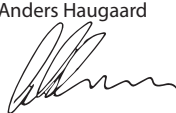
### 9.4 System Pressure SP375

Minimum system pressure [bar <sub>a</sub> ]									
		Exhaust temperature [°C]					Exhaust temperature [°C]		
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	1,5	1,5	1,5		10	1,5	1,5	1,5
	20	1,5	1,5	1,5		20	1,5	1,5	1,5
60°C	30	1,5	1,5	1,5	70°C	30	1,5	1,5	1,5
	40	1,5	1,5	1,5		40	1,5	1,5	2
	50	1,5	1,5	1,5		50	1,5	1,5	2
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	1,5	1,5	1,5		10	1,5	1,5	1,5
	20	1,5	1,5	1,5		20	1,5	2	2
80°C	30	1,5	1,5	2	90°C	30	1,5	2	2,5
	40	1,5	2	2,5		40	2	2,5	3
	50	1,5	2,5	3		50	2	3	3,5
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
	10	1,5	2	2		10	1,5	2	2
	20	2	2,5	2,5		20	2	2,5	2,5
100°C	30	2,5	3	3,5	100°C	30	2,5	3	3,5
	40	2,5	3,5	4		40	2,5	3,5	4
	50	3	4	5		50	3	4	5

## 9.5 System Pressure SP500

Minimum system pressure [bar <sub>a</sub> ]									
		Exhaust temperature [°C]					Exhaust temperature [°C]		
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
		10	1,5	1,5		1,5		10	1,5
	20	1,5	1,5	1,5		20	1,5	1,5	1,5
60°C	30	1,5	1,5	1,5	70°C	30	1,5	1,5	1,5
	40	1,5	1,5	1,5		40	1,5	1,5	2
	50	1,5	1,5	1,5		50	1,5	1,5	2
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
		10	1,5	1,5		1,5		10	1,5
	20	1,5	1,5	1,5		20	1,5	2	2
80°C	30	1,5	1,5	2	90°C	30	2	2	2,5
	40	1,5	2	2,5		40	2	2,5	3
	50	2	2,5	3		50	2	3	4
Water sample temperature	$\Delta t$	200	300	400	Water sample temperature	$\Delta t$	200	300	400
		10	1,5	2		2		10	1,5
	20	2	2,5	2,5		20	2	2,5	2,5
100°C	30	2,5	3	3,5a		30	2,5	3	3,5a
	40	2,5	3,5	4		40	2,5	3,5	4
	50	3	4	5		50	3	4	5

## 10. EU Declaration of Conformity

<b>DK: EU-Overensstemmelseserklæring</b> <b>GB: Declaration of Conformity</b> <b>DE: EU-Konformitätserklärung</b> <b>FR: Déclaration de conformité de l'Union Européenne</b> <b>NO: EU-Samsvarserklæring</b> <b>PL: EU Deklaracja zgodności</b>	<b>NL: EU-Conformiteits verklaring</b> <b>SE: EU-Överensstämmelsedeklaration</b> <b>FI: EU-Vaatumustenmukaisuusvakuutus</b> <b>IS: ESS-Samræmisstaðfesting</b> <b>IT: Dichiarazione di Conformità Unione Europea</b>
<b>exodraft a/s</b> <b>Industrivej 10</b> <b>DK-5550 Langeskov</b>	
<ul style="list-style-type: none"> <li>- Erklærer på eget ansvar, at følgende produkter:</li> <li>- Hereby declares that the following products:</li> <li>- Erklärt hierdurch auf eigene Verantwortung, daß folgende Produkte:</li> <li>- Déclare, sous sa propre responsabilité, que les produits suivants:</li> <li>- Erklærer på eget ansvar at følgende produkter:</li> <li>- Niniejszym oświadczam, że następujące produkty:</li> </ul>	<ul style="list-style-type: none"> <li>- Veklaart dat onderstaande producten:</li> <li>- Deklarerar på eget ansvar, att följande produkter:</li> <li>- Vastaa siltä, että seuraava tuote:</li> <li>- Staðfesti á eigin ábyrgð, að eftirfarandi vörur:</li> <li>- Dichiaro con la presente che i seguenti prodotti:</li> </ul>
<b>SP-/80/120/250/375/500 exo varenr. 8001/xxx</b>	
<ul style="list-style-type: none"> <li>- Som er omfattet af denne erklæring, er i overensstemmelse med følgende standarder:</li> <li>- Were manufactured in conformity with the provisions of the following standards:</li> <li>- Die von dieser Erklärung umfaßt sind, den folgenden Normen:</li> <li>- Auxquels s'applique cette déclaration sont en conformité avec les normes ci-contre:</li> <li>- Som er omfattet av denne erklæring, er i samsvar med følgende standarder:</li> <li>- Zostały wyprodukowane zgodnie z warunkami określonymi w następujących normach:</li> </ul>	<ul style="list-style-type: none"> <li>- Zijn vervaardigd in overeenstemming met de voorschriften uit de hieronder genoemde normen en standaards:</li> <li>- Som omfattas av denna deklaration, överensstämmer med följande standarder:</li> <li>- Jota tämä selvitys koskee, on seuraavien standardien mukainen:</li> <li>- Sem eru meðtalin í staðfestingu Pessari, eru í fullu samræmi við eftirtalda staðla:</li> <li>- Sono stati fabbricati in conformità con le norme degli standard seguenti:</li> </ul>
<b>EN60335-1, EN60335-2-80, DS/EN ISO 12100: 2012</b>	
<ul style="list-style-type: none"> <li>- I.h.t bestemmelser i direktiv:</li> <li>- In accordance with</li> <li>- Entsprechen gemäß den Bestimmungen der folgenden Richtlinien:</li> <li>- Suivant les dispositions prévues aux directives:</li> <li>- I.h.t bestemmelser i direktiv:</li> <li>- Zgodnie z:</li> </ul>	<ul style="list-style-type: none"> <li>- En voldoen aan de volgende richtlijnen:</li> <li>- Enligt bestämmelserna i följande direktiv:</li> <li>- Seuraavien direktiivien määräysten mukaan:</li> <li>- Med tilvisun til ákvarðana eftirlits:</li> <li>- In conformità con le direttive:</li> </ul>
<ul style="list-style-type: none"> <li>- Maskindirektivet:</li> <li>- The Machinery Directive:</li> <li>- Richtlinie Maschinen:</li> <li>- Directive Machines:</li> <li>- Maskindirektivet:</li> <li>- Dyrektywę maszynową:</li> </ul>	<ul style="list-style-type: none"> <li>- De machinerichtlijn:</li> <li>- Maskindirektivet</li> <li>- Konedirektiivi:</li> <li>- Velaeftirlitið:</li> <li>- Direttiva Macchinari:</li> </ul>
<b>2006/42/EF/-EEC/-EWG/-CEE</b>	
<ul style="list-style-type: none"> <li>- Lavspændingsdirektiv:</li> <li>- The Low Voltage Directive:</li> <li>- Niederspannungsrichtlinie:</li> <li>- Directive Basse Tension:</li> <li>- Lavspenningsdirektivet:</li> <li>- Dyrektywę Niskonapięciową</li> </ul>	<ul style="list-style-type: none"> <li>- De laagspanningsrichtlijn:</li> <li>- Lågspänningsdirektivet:</li> <li>- Pienjännitedirektiivi:</li> <li>- Smáspennueftirlitið:</li> <li>- Direttiva Basso Voltaggio:</li> </ul>
<b>2006/95/EC</b>	
<ul style="list-style-type: none"> <li>- EMC-direktivet:</li> <li>- And the EMC Directive:</li> <li>- EMV-Richtlinie:</li> <li>- Directive Compatibilité Electromagnétique:</li> <li>- EMC-direktivet:</li> <li>- Dyrektywę EMC – kompatybilności elektromagnetycznej</li> </ul>	<ul style="list-style-type: none"> <li>- En de EMC richtlijn:</li> <li>- EMC-direktivet:</li> <li>- EMC-direktiivi:</li> <li>- EMC-efirlitið:</li> <li>- Direttiva Compatibilità Elettromagnetica:</li> </ul>
<b>2004/108/EC</b>	
<p>Langeskov, 06.12.2021</p> <ul style="list-style-type: none"> <li>- Adm. direktør</li> <li>- Managing Director</li> </ul> <p>Anders Haugaard</p> 	<ul style="list-style-type: none"> <li>- Algemeen directeur</li> <li>- Geschäftsführender Direktor</li> <li>- Président Directeur Général</li> <li>- Verkställande direktör</li> <li>- Toimitusjohtaja</li> <li>- Framkvemdastjóri</li> <li>- Direttore Generale</li> </ul>







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