

EN

ORIGINAL INSTRUCTIONS
OIL HEATER



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Notes regarding the instructions

Symbols



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning of flammable substances

This symbol indicates dangers to the life and health of persons due to flammable substances.



Warning of hot surface

This symbol indicates dangers to the life and health of persons due to hot surface.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



Info

Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of the instructions via the following link:



IDS 30 F



<https://hub.trotec.com/?id=44289>

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use.



Warning

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

This device must not be used by children and persons under 16 years of age.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children under 16 years.



Warning

Do not use the device in rooms if persons are present who cannot leave the room independently and who are not under constant supervision.

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Only put up the device in an upright, stable position on firm ground.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Never insert any objects or limbs into the device.
- Do not cover the device during operation.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Attention: In Germany, the Federal Emission Protection Directive applies. Do not operate the device for more than 3 months at the same place. Prior to planning the flue gas system, gather information about the national legislation and contact a responsible specialist.
- Do not sit on the device.
- This appliance is not a toy. Keep away from children and animals. Do not leave the device unattended during operation.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.
- Observe the device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable. If the power cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Defective power cables pose a serious health risk!
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that the suction side is kept free of dirt and loose objects.
- Do not place the device on combustible ground.
- Only transport the device in an upright position.
- Only use original spare parts, for otherwise safe and functional operation cannot be ensured.
- Do not store combustible materials near the device (minimum distance 3 m).
- Do not transport the device whilst the fuel line is connected.
- Take the necessary fire protection measures.
- Only install the device in roofed outdoor areas or in well-ventilated indoor spaces with exhaust system.
- Only position the device near flue pipes or electrical supply control panels that comply with the specified parameters.
- Do not use the heating device together with a programming device, a timer, a separate remote control system or any other device that automatically switches the heating device on, as there is a risk of fire if the heating device is covered or incorrectly positioned.

Intended use

The device was developed for the purpose of generating hot air and may only be used in roofed over outdoor areas or in well-ventilated interior spaces whilst adhering to the technical data.

The device is suited for heating large rooms such as tents, warehouses, workshops, construction sites, greenhouses or agricultural halls.

It is intended to be used without frequent site changes.

The device may only be used in rooms with sufficient fresh air supply and exhaust discharge.

The device must only be operated with EL (ultra-light) fuel oil and diesel, however not with petrol, heavy fuel oil etc.

The supplied flue pipe may only be used for outdoor applications.

Foreseeable misuse

- Do not place any objects, e.g. clothing, on the device.
- Do not use this device in the vicinity of fuel, solvents, varnishes or other easily inflammable vapours or in rooms where these substances are stored.
- Do not use the device outdoors if it will be exposed to adverse weather conditions (e.g. rain) and if roofing is not available.
- The device must not be positioned or operated in areas with a high risk of fires or in potentially explosive atmospheres.
- Do not use the device out of doors, unless under a roof.
- The device must not be operated in rooms with an insufficient combustion air supply.
- Do not make any unauthorised modifications, alterations or structural changes to the device.

Personnel qualifications

People who use this device must:

- be aware of the dangers resulting from heat, fire hazard and insufficient ventilation when working with oil heaters.
- be aware of the dangers that occur when handling fuels such as EL fuel oil or diesel.
- have read and understood the instructions, especially the Safety chapter.

Safety devices

The device is equipped with an electronic flame and maximum temperature monitoring system working with a photo cell and a safety thermostat.

The electronic control unit regulates the start-up, stopping and safety shutdown times in case of malfunctions. The control unit comes with a reset button; its colour (operating display) depends on the operating mode:

- indicator light off in pause or standby mode, awaiting the heating request
- continuously green during normal operation of the device
- continuously red during a safety shutdown of the device
- flashing in orange when the operation was interrupted owing to great fluctuations in the power supply ($T < 175 \text{ V}$ or $T > 265 \text{ V}$); automatic resumption when the voltage stabilizes between 190 V and 250 V

When the device has triggered a safety shutdown:

1. Press the reset button (25) for 3 seconds to resume operation.



Warning

Risk of injury from deflagration!

Unburned fuel oil can accumulate in the combustion chamber and might ignite during the subsequent restart.

Never carry out more than two consecutive restarts.

If the safety shutdown persists:


1. Determine and eliminate the cause of the fault before restarting the device (see chapter Errors and faults).
2. Press the reset button (25) for at least 5 seconds.
⇒ This activates the self-diagnosis programme.


Upon completion of the self-diagnosis routine the colour of the reset button changes to indicate the respectively diagnosed cause of the fault:


- orange flashing indicates that an improperly dimensioned flame was detected during start-up
- red flashing indicates that flame failure was detected during start-up
- flashing that alternates between red and green indicates that flame failure was detected during operation
- continuous orange indicates an internal error of the electronic controller


For more information regarding the determination of the cause of the fault please refer to the chapter Errors and faults.


Residual risks


-  **Warning of electrical voltage**
Work on the electrical components must only be carried out by an authorised specialist company!


 **Warning of electrical voltage**
Before any work on the device, remove the mains plug from the mains socket!
Do not touch the mains plug with wet or damp hands. Hold onto the mains plug while pulling the power cable out of the mains socket.


 **Warning of flammable substances**
Handling fuels entails a risk of fire.
Take sufficient precautions when handling fuels such as fuel oil, kerosene or diesel.
Do not spill any diesel, kerosene or fuel oil! Do not inhale the vapours nor swallow any fuel! Avoid skin contact!


 **Warning of hot surface**
Parts of the device, especially at the air outlet, become very hot during operation. There is a danger of burning and fire. Do not touch the device during operation!
During operation observe a safety distance of at least 3 m to the device front! Observe the minimum distance from walls or other objects according to the technical data!


 **Warning of hot surface**
Parts of this appliance can become very hot and cause burns. Particular attention is to be paid when there are children or vulnerable persons present!


 **Warning of hot surface**
Improper handling entails a risk of burning. Only use the device as intended!


 **Warning**
Improper handling entails a risk of burning and electric shock.
Only use the device as intended!


 **Warning**
Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!

 **Warning**
The device is not a toy and does not belong in the hands of children.

 **Warning**
Risk of suffocation!
Do not leave the packaging lying around. Children may use it as a dangerous toy.

 **Warning**
Improper installation entails a risk of fire.
Do not place the device on combustible ground.
Do not place the device on high-pile carpets.

 **Warning**
The device must not be covered, there is an imminent fire hazard!

 **Warning**
Risk of injury due to poisoning!
Improper installation of the exhaust system can cause health problems.
Have the system installed by an expert technician!

Behaviour in the event of an emergency

1. In an emergency, immediately extinguish the pilot flame by setting the selector switch to position **0**.
2. In an emergency, disconnect the device from the mains feed-in: Switch the device off and disconnect it from the mains.
3. Remove persons from the danger area.
4. Do not reconnect a defective device to the mains.

Information about the device

Device description

The indirectly fired oil heater serves the purpose of heating the room air so as to quickly heat large, well-ventilated rooms. The oil heater runs on fuel oil or diesel, it must not be used with petrol, heavy fuel oil etc.

It is an oil heater with indirect combustion to be installed in roofed outdoor areas or in rooms with a sufficient fresh air supply.

Since it is not equipped with an integrated tank, it is ideally suited for mobile applications and frequently changing locations.

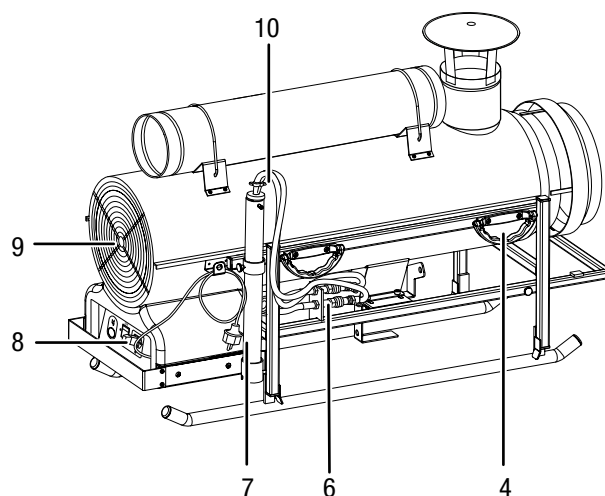
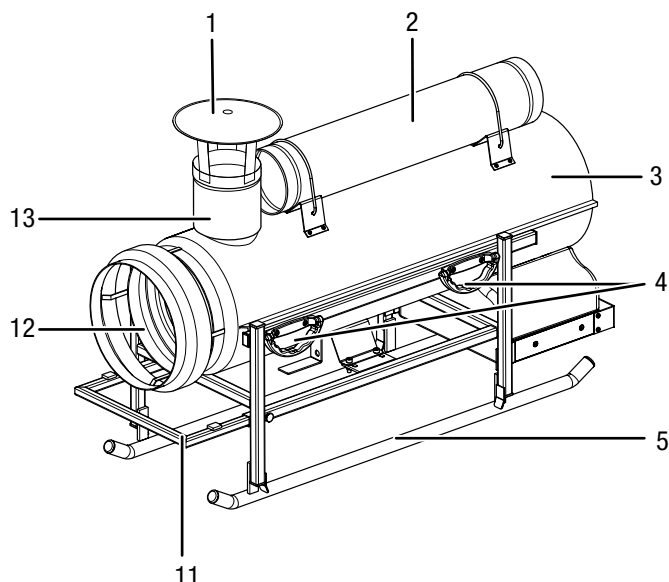
The device is equipped with an exhaust gas connection for the discharge of exhaust gases via the flue. It is refuelled externally using a tank or jerrycan.

The selection option between two operating modes permits both a manual regulation of the oil heater by the user and an automatic control aided by an external thermostat.

Functional principle

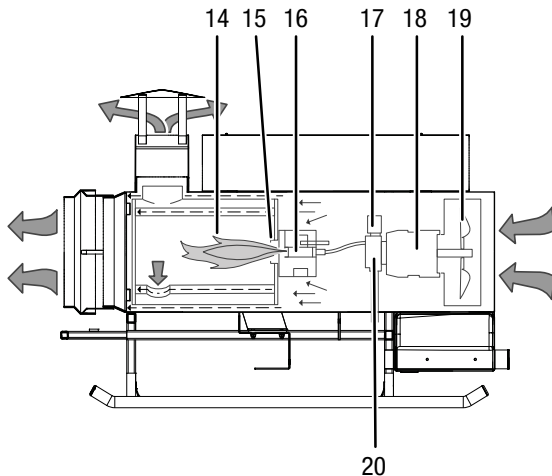
The device generates warmth by conveying the sucked-in, cold air past a combustion chamber. Inside the combustion chamber the fuel is burned. The sucked-in air is heated and fed back to the environment via the air outlet.

Device depiction



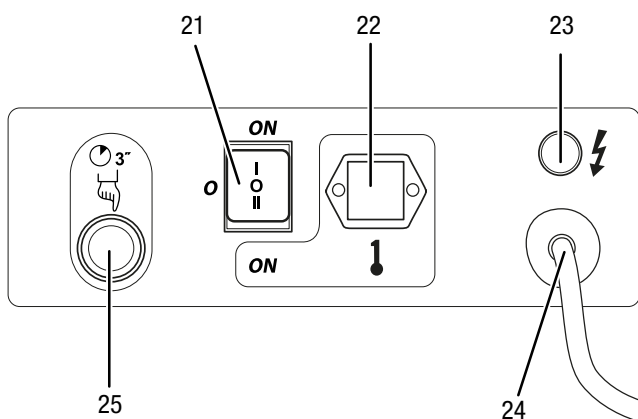
No.	Designation
1	Rain cap
2	Flue pipe
3	Housing
4	Transport handle
5	Frame
6	Tank line connection
7	Filler neck retainer
8	Control panel
9	Air inlet
10	Connection set for jerrycan (optional)
11	Protective bar
12	Air outlet
13	Flue pipe connection for flue gas evacuation

Schematic inside view



No.	Designation
14	Combustion chamber
15	Burner
16	Nozzle
17	Magnet valve
18	Motor
19	Fan
20	Pump

Control panel



No.	Designation
21	Selector switch: <ul style="list-style-type: none"> • I = ON (activate manual operation) • 0 = switch the device off • I = ON (activate automatic operation)
22	Thermostat socket
23	Lamp
24	Power cable
25	Reset button

Transport and storage

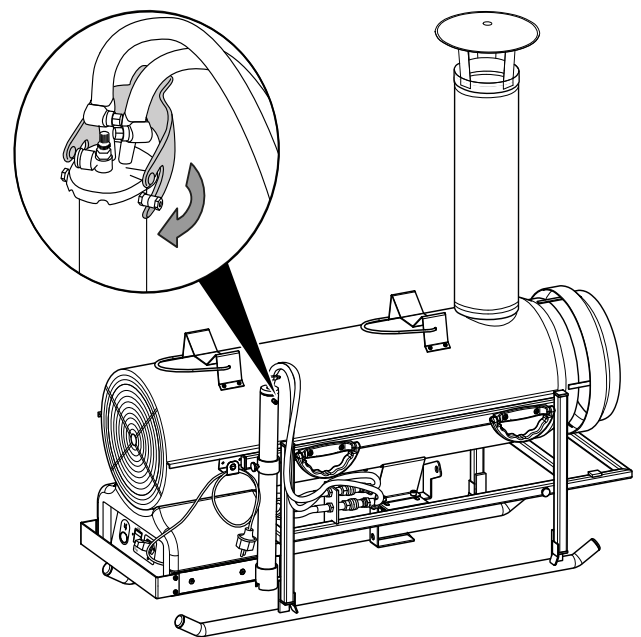
Note

If you store or transport the device improperly, the device may be damaged.
Note the information regarding transport and storage of the device.

Transport

Before transporting the device, observe the following:

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Do not use the power cable to drag the device.
- Allow the device to cool down sufficiently.
- Loosen the quick couplings at the tank connection.
- When using the optional jerrycan adapter:
 - Remove the nozzle for refuelling from the jerrycan.
 - Insert the filler neck in the retainer.
 - Close the fastener.

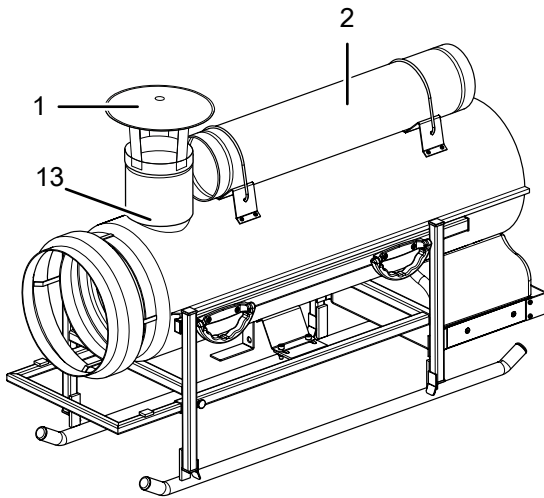


Before transporting the device, disassemble the flue pipe and put it into the designated holding fixture.

Proceed as follows to disassemble the flue pipe:

1. Remove the rain cap (1) from the flue pipe.
2. Remove the flue pipe (2) from the flue pipe connection.
3. Put the flue pipe into the holding fixture at the device.
4. Attach the rain cap (1) to the flue pipe connection (13).

5. Check the flue pipe for tight fit.



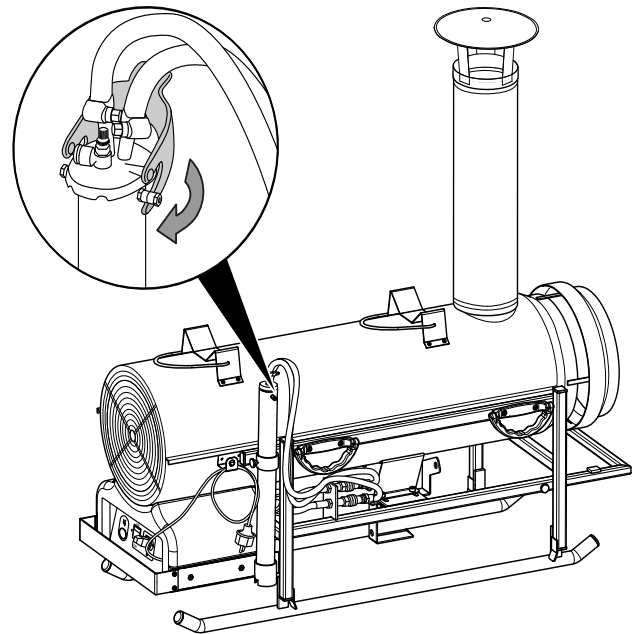
While transporting the device, observe the following:

- Always utilize the help of another person to transport the device.
- Use the transport handles.
- Please note that the protective bars are not fit to be used as transport handles.

Storage

Before storing the device, proceed as follows:

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down sufficiently.
- Loosen the quick couplings at the tank connection.
- When using the optional jerrycan adapter:
 - Remove the nozzle for refuelling from the jerrycan.
 - Insert the filler neck in the retainer.
 - Close the fastener.



When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- in an upright position where it is protected from dust and direct sunlight
- with a cover to protect it from invasive dust, if necessary
- up to 2 devices may be stacked on top of one another for storage purposes

Assembly and start-up

Scope of delivery

- 1 x Device
- 1 x Filler neck retainer
- 1 x Frame attachment
- 1 x Rain cap
- 1 x Exhaust duct extension
- 1 x Flue pipe
- 1 x Manual

Unpacking the device

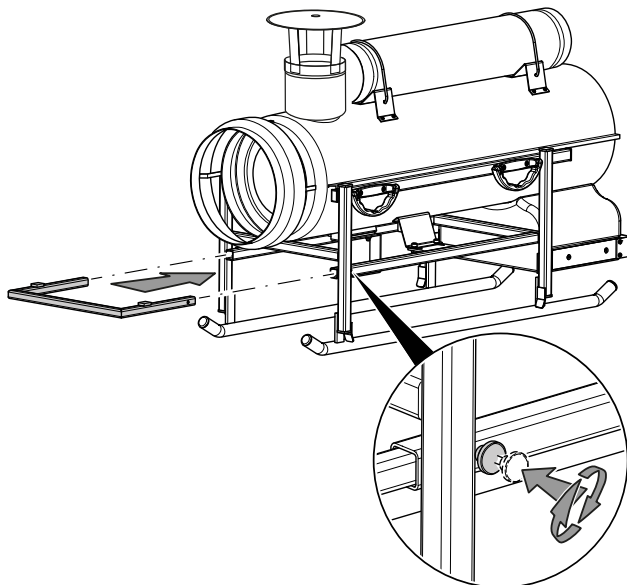
1. Open the cardboard box and take the device out.
2. Completely remove the packaging.
3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

Assembly

Mounting the transport frame

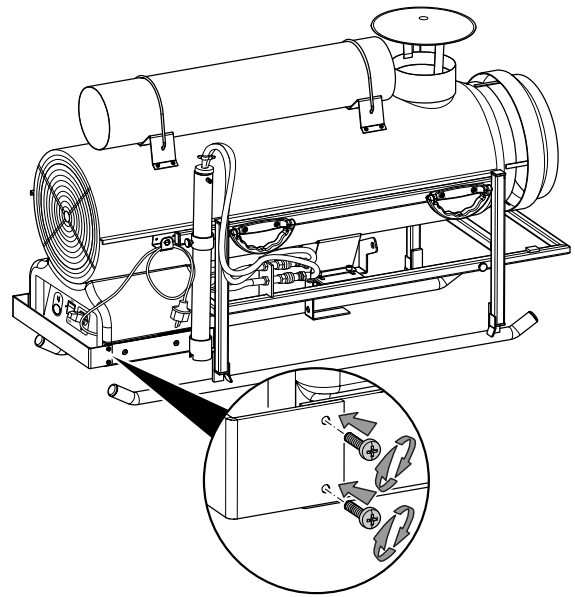
Upon delivery the transport frame is already partially preassembled. The protective bars at the front and rear are still to be mounted.

1. Attach the first protective bar at the front of the device.

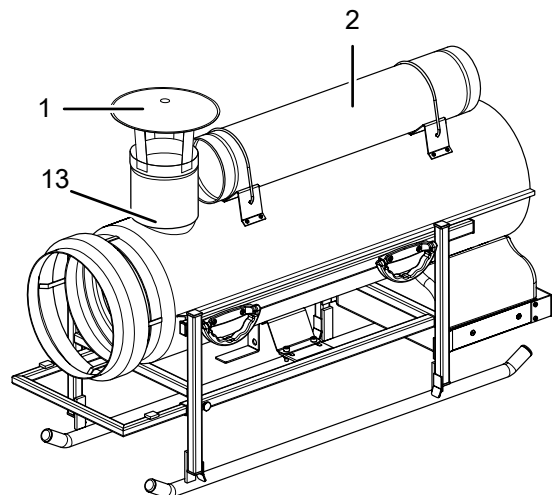


2. Tighten the screws on both sides.

3. Affix the rear protective bar using 2 screws on each side.



4. Check the protective bars for tight fit.



Flue gas evacuation

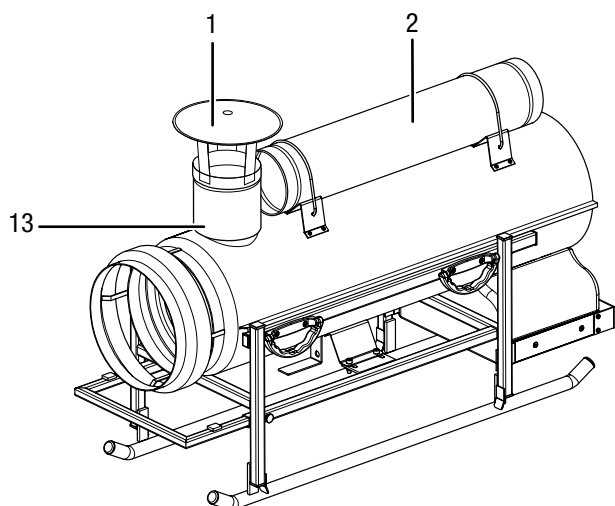
- Prior to planning the flue gas system, gather information about the national legislation and contact a responsible specialist (cf. DIN 18160 in Germany).
- Ensure an unimpeded and sufficient combustion air supply (e.g. by means of ventilation openings in doors, ceilings, windows, walls or via interconnected airways).
- Have the exhaust emission of the burner checked at regular intervals.

Mounting the flue pipe

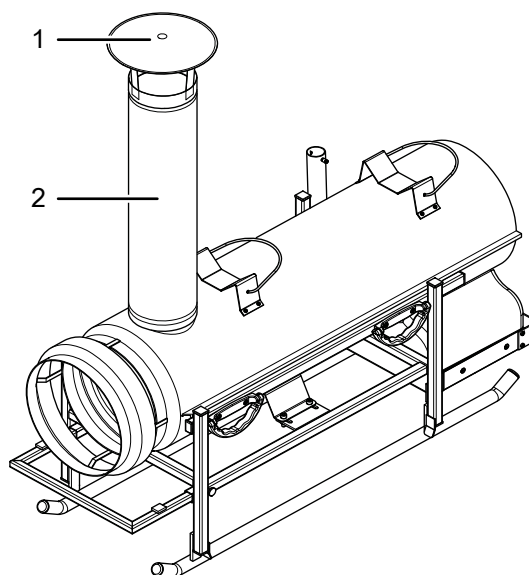
The flue pipe may only be used for outdoor flue gas evacuation applications.

Proceed as follows to attach the flue pipe to the device:

1. Remove the flue pipe (2) from the holding fixture.
2. Detach the rain cap (1) from the flue pipe connection (13).

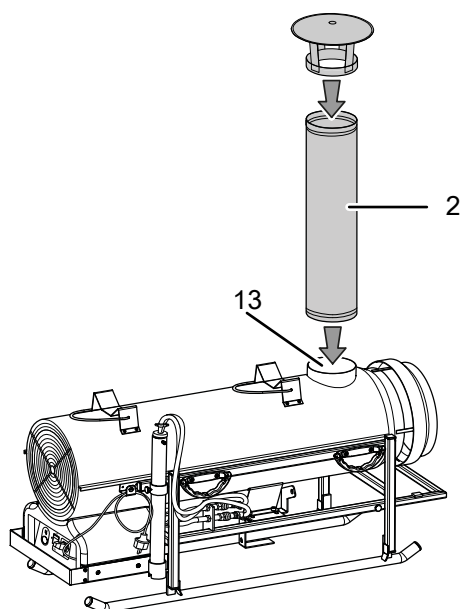


4. Put the rain cap (1) onto the flue pipe (2).



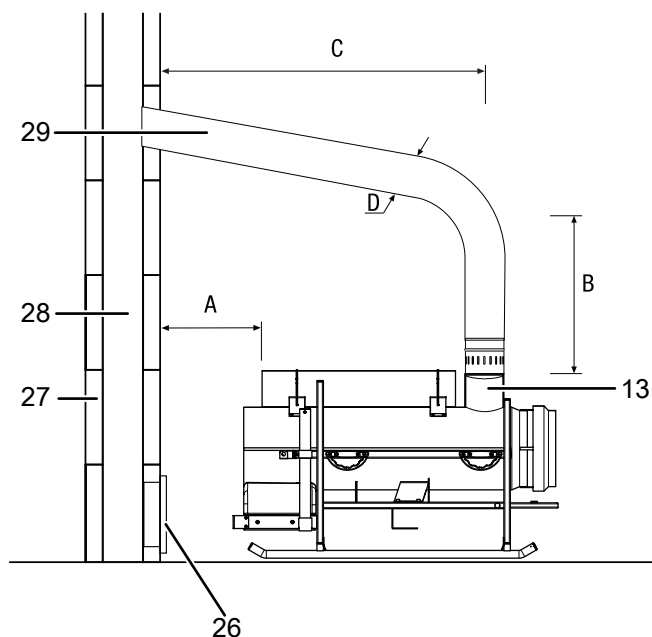
5. Check the flue pipe for tight fit.

3. Connect the flue pipe (2) to the flue pipe connection (13) of the device.



Flue duct

The following schematic representation should be considered when planning a flue duct:



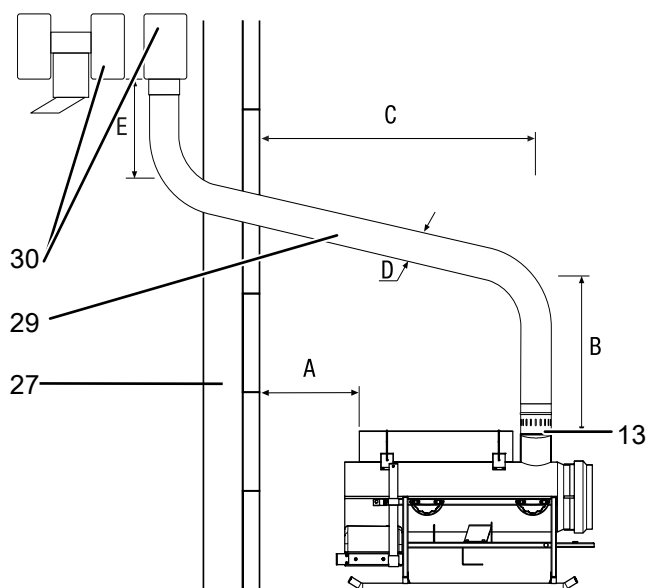
No.	Designation
13	Flue pipe connection
26	Cleaning opening with explosion protection flap
27	Outer wall
28	Flue – inside min. 20 x 20 cm
29	Wall duct with elbow min. 5°

Dimensions:

- A: min. 1 m
- B: min. 1 m
- C: as short as possible
- D: $\geq \varnothing 120 \text{ mm} / 150 \text{ mm}$

Wall duct

The following schematic representation should be considered when planning a wall duct:



No.	Designation
13	Flue pipe connection
27	Outer wall
29	Wall duct with elbow min. 5°
30	Draught booster H-shaped

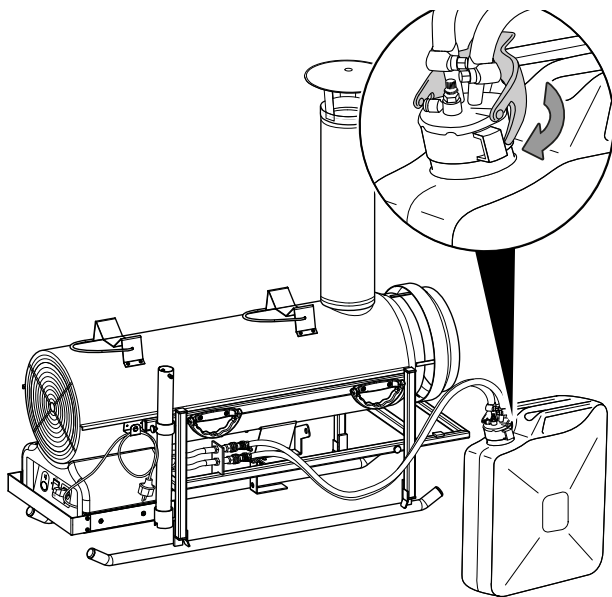
Dimensions:

- A: min. 1 m
- B: min. 1 m
- C: as short as possible
- D: $\geq \varnothing 120 \text{ mm} / 150 \text{ mm}$
- E: min. 1 m

Establishing the oil supply

Quick couplings are used to connect the device to an external tank or the optional jerrycan.

- ✓ Switch the device off according to the Shutdown chapter.
 - ✓ Before attempting to connect the external tank, wait until the device has cooled down completely.
 - ✓ Only use fuel suitable for the device (see technical data).
1. Position the device on firm, level and incombustible ground.
 2. Unscrew the cover from the tank connection of the external tank.
 3. Unscrew the cover of the device from the tank connection of the device.
 4. Attach the feed and return hose to the tank connection of the external tank using the quick couplings.
 5. Attach the feed and return hose to the tank connection of the device using the quick couplings.
 6. Make sure that the hose is firmly attached to avoid leakage.
 7. The device is now connected to the oil supply.



Positioning

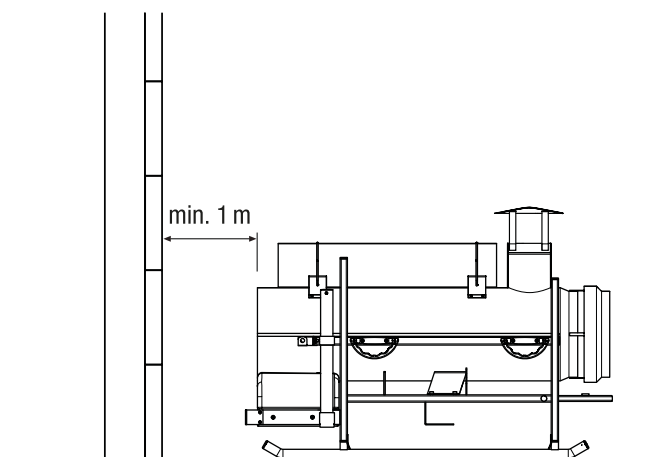
A number of spatial and technical conditions have to be considered for the selection of the device's installation site. Non-observance may impair the proper functioning of the device or the accessories or can entail risks of personal injury and property damage.

The following is to be observed for positioning:

- The device may only be operated on roofed over surfaces.
- The device is to be set up in a stable position on incombustible ground.
- The device must be set up in close proximity to a flue, an outer wall or on an open, ventilated surface.
- The device must be connected to a properly secured mains power socket.
- The room where the device is positioned must be sufficiently ventilated.

Ensure a sufficient fresh air supply, especially when there are people or animals in the same room with the device!

- The minimum distance between the wall and the air inlet opening of the device must be at least 2 m (see figure).
- The minimum distance between the device and combustible materials must be at least 3 m.
- The inlet and outlet openings must not be covered.
- There must be no walls or large objects near the device.
- There must be a sufficient number of fire extinguishers available.



Start-up

- Check the scope of delivery of your device for completeness. If an accessory part is missing, please contact the Trotec customer service or the specialist dealer where you purchased the device.
- Check the device and its connection parts for potential damage.
- Observe the conditions described in the chapter Positioning.
- Install the exhaust system of the device in a technically correct manner. You can also connect the device to a flue or an outer wall as illustrated in chapter Assembly.
- Connect the device to an external tank or jerrycan as described in the chapter Establishing the oil supply.
- Check the device for its proper condition prior to start-up and at regular intervals during application.
- Check whether the characteristics of the power grid conform to those on the nameplate.
- Each time before you plug the mains plug into the mains socket and switch on the device, make sure that the fan is moving freely.
- Connect the mains cable to a properly secured socket (230 V / 50 Hz / 10 A). On construction sites, there must be a residual current device (RCD) upstream of the socket in accordance with national regulations (in Germany: VDE 0100/0105).

The device is now ready for operation.

Operation

The device may only be used by accordingly instructed persons.

Operating elements



Warning

Fire hazard if device is covered or due to incorrect positioning of the device!

There is a risk of fire if the heating device is covered or incorrectly positioned.

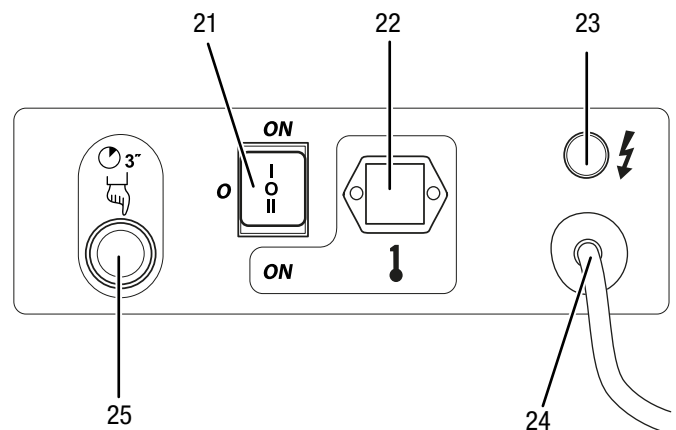
Never cover the device during operation and position it with sufficient distance to walls and objects (according to the chapter Technical annex).



Warning of electrical voltage

Before any work on the device, remove the mains plug from the mains socket!

Do not touch the mains plug with wet or damp hands. Hold onto the mains plug while pulling the power cable out of the mains socket.



No.	Designation
21	Selector switch: <ul style="list-style-type: none"> • I = ON (activate manual operation) • O = switch the device off • II = ON (activate automatic operation)
22	Thermostat socket
23	Lamp
24	Power cable
25	Reset button

The device has two operating modes:

- Manual operation
- Automatic operation with external thermostat (optional)

Manual operation

For continuous heat generation, here, the device operates independently of a control unit.

1. Switch the device on by setting the position of the selector switch (21) to position **I** (activate manual operation).

Automatic operation (optional)

Automatic operation of the device is only an option with a connected controller (optional), e.g. a thermostat. The thermostat is connected to the thermostat socket (22).

1. Switch the device on by setting the position of the selector switch (21) to **II** (activate automatic operation).
- ⇒ To confirm the completion of the start-up process, the electronic control unit causes the reset button (25) to briefly flash in red.

Shutdown



Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!



Warning of electrical voltage

Before any work on the device, remove the mains plug from the mains socket!

Do not touch the mains plug with wet or damp hands. Hold onto the mains plug while pulling the power cable out of the mains socket.

Note

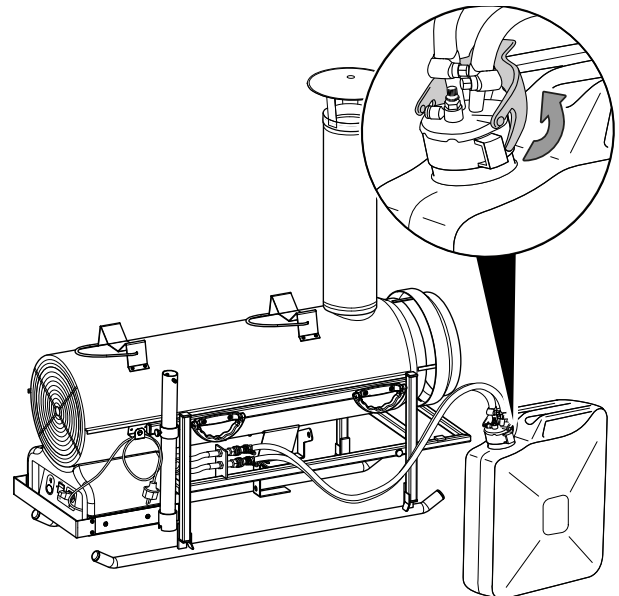
Damage to the device due to overheating!
Never switch off the device by pulling the mains plug. This may lead to overheating!
Switch off the device properly. Only pull the mains plug once the fan motor has stopped completely.

1. Switch off the device by setting the selector switch to position **0**.
2. If you use a thermostat, switch off the device using the settings of the controller (e.g. by setting a lower temperature at the thermostat).
⇒ The flame goes out and the fan continues to run for approx. 90 seconds in order to cool down the burner.
3. Wait until the automatic after-cooling is completed.
4. Secure the device against inadvertent switch-on by pulling the mains plug.

Disconnecting the oil supply

Proceed as follows to disconnect the oil supply:

- ✓ Make sure that there is no fuel residue in the feed and return hose.
 - ✓ Switch the device off according to the Shutdown chapter.
 - ✓ Before attempting to connect the external tank, wait until the device has cooled down completely.
1. Disconnect the feed and return hose from the tank connection of the external tank using the quick couplings.
 2. Disconnect the feed and return hose from the tank connection of the device IDS 30 F using the quick couplings.
 3. Screw the cover of the external tank back onto the tank connection.
 4. Screw the suitable cover onto the tank connection of the device IDS 30 F.



Restarting the device after a malfunction

During initial start-up and after the fuel oil circuit has been drained completely, the fuel oil supply to the nozzle may be insufficient. In this case, the flame monitoring system will respond and the device will be blocked.

1. Wait for approx. 1 minute.
2. Press the reset button (25) for approx. 5 seconds.
3. Switch the device on.

If the device still does not start:

- Make sure that the device is properly connected to an external tank or a jerrycan (see chapter Assembly).
- Press the reset button.

To detect further causes of error, see chapter Errors and faults.

Available accessories

Accessories	Article number
Thermostat with 10 m cable	6.100.007.016
Connection kit for external oil tank	6.100.006.185
Adapter set tank kit – oil hose	7.210.000.003
Tank line with quick couplings, length 5 m	6.100.006.037
Connection set for external jerrycan	6.100.006.184
Tank liquid level indication	6.100.006.160
Filler neck oil filter	6.100.006.161
90° arc connection for exhaust gas pipe	6.100.006.216
Air hose Tronect SP-C, length 7.6 m	6.100.001.265



Warning

Only use accessories and additional equipment specified in the instructions.
Using insertion tools or accessories other than those specified in the instructions may cause a risk of injury.

Errors and faults



Warning of electrical voltage

Tasks which require the device to be opened must only be carried out by authorised specialist companies or by Trotec.



Warning

Risk of injury due to improper repair!
Never try to make any modifications or repairs on the device.
Unauthorised modifications can lead to serious injuries or death.
Have a certified specialist workshop perform the repair work.

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damage. If you notice damages, do not try to take the device back into operation.
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Check the on-site fusing.

Note

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

The device still does not operate correctly after these checks:

Please contact the customer service. If necessary, bring the device to an authorised specialist electrical company or to Trotec for repair.

Error codes

Error / fault	Operation indicator	Self-diagnosis indication	Cause	Remedy
Fan does not start and flame does not ignite	Off	-	Controller set incorrectly	Check if the controller is set correctly (e.g. the temperature set at the thermostat must be higher than the room temperature).
			Controller faulty	Have the controller replaced by the customer service.
Fan does not start or switches off during start-up or operation	Orange flashing	-	No power supply	Check the characteristics of the electrical system (230 V-1 ~ – 50 Hz). Check the functionality and position of the selector switch. Check the fuse for soundness.
			Voltage < 175 V	Check the supply voltage. The device will restart automatically when the voltage value exceeds 190 V.
			Voltage > 265 V	Check the supply voltage. The device will restart automatically when the voltage value falls below 250 V.
Fan switches off during start-up or operation	Continuous red indication	Orange flashing	Flame present prior to ignition of the transformer	Instruct the customer service to have the device cleaned and fuel oil residues removed from the combustion chamber.
			Photo cell faulty	Have the photo cell exchanged by the customer service.
		Red flashing or flashing that alternates between red and green	Motor winding interrupted or blown	Have the motor replaced by the customer service.
			Motor bearing blocked	Have the motor replaced by the customer service.
			Motor capacitor blown	Have the motor capacitor replaced by the customer service.
			No ignition	Check the connections of the ignition cables at the electrodes and the transformer. Check the position and the distance of the electrodes. Check whether the electrodes are clean. Have the transformer replaced by the customer service.
			Flame monitoring system faulty	Have the flame monitoring system replaced by the customer service.
			Photo cell faulty	Have the photo cell exchanged by the customer service.

			Burner is supplied with no or insufficient fuel oil	Charge the customer service with the following tasks: <ul style="list-style-type: none"> to have the coupling between the pump and the motor checked for soundness. to have the fuel oil circuit checked for intruded air and to have the lines and filter seal checked for tightness. to have the nozzle cleaned or exchanged.
			Magnet valve faulty	Charge the customer service with the following tasks: <ul style="list-style-type: none"> to have the electrical connections checked. to have the safety thermostat LI checked. to have the magnet valve cleaned or exchanged.
		Continuous orange indication	Internal error of the electronic control unit	Instruct the customer service to have the control unit reset; try at least twice. If the problem persists, have the control unit replaced.
Fan starts and flame burns with smoke formation	Continuous green indication	-	Insufficient supply of combustion air	Remove all obstacles and obstructions from the inlet and/or outlet openings. Have the position of the adjustment ring for the regulation of the air supply checked by the customer service. Have the supporting disc of the burner checked by the customer service.
			Excessive supply of combustion air	Have the position of the adjustment ring for the regulation of the air supply checked by the customer service.
			Used fuel oil contaminated or contains water	Replace used fuel oil with clean fuel oil. Clean the fuel oil filter.
			Air inside the fuel oil circuit	Have the lines and the fuel oil filter checked for tightness by the customer service.
			Insufficient fuel oil quantity at the burner	Charge the customer service with the following tasks: <ul style="list-style-type: none"> to have the pump pressure checked. to have the nozzle cleaned or replaced
			Excessive amount of fuel oil at the burner	Charge the customer service with the following tasks: <ul style="list-style-type: none"> to have the pump pressure checked. to have the nozzle replaced.
Device does not switch off	Continuous green indication	-	Sealing of the magnet valve faulty	Have the magnet valve replaced by the customer service.

Maintenance

Maintenance intervals

Maintenance and care interval	before every start-up	as needed	at least every 2 weeks	at least every 4 weeks	at least every 6 months	at least annually
Check air inlets and outlets for dirt and foreign objects and clean if necessary	X					
Check air inlet grid(s) for dirt and foreign objects and clean if necessary	X		X			
Clean the exterior		X				X
Visually check the inside of the device for dirt		X		X		
Check for damage	X					
Check attachment screws		X				X
Test run						X

Maintenance and care log

Device type:

Device number:

Maintenance and care interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Check air inlets and outlets for dirt and foreign objects and clean if necessary																
Check air inlet grid(s) for dirt and foreign objects and clean if necessary																
Clean the exterior																
Visually check the inside of the device for dirt																
Check for damage																
Check attachment screws																
Test run																
Comments																

1. Date: Signature:	2. Date: Signature:	3. Date: Signature:	4. Date: Signature:
5. Date: Signature:	6. Date: Signature:	7. Date: Signature:	8. Date: Signature:
9. Date: Signature:	10. Date: Signature:	11. Date: Signature:	12. Date: Signature:
13. Date: Signature:	14. Date: Signature:	15. Date: Signature:	16. Date: Signature:

Activities required before starting maintenance



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down completely.



Warning of electrical voltage

Tasks which require the device to be opened must only be carried out by authorised specialist companies or by Trotec.

Cleaning the housing

Clean the housing with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

Wipe the housing dry after cleaning.

Technical annex

Technical data

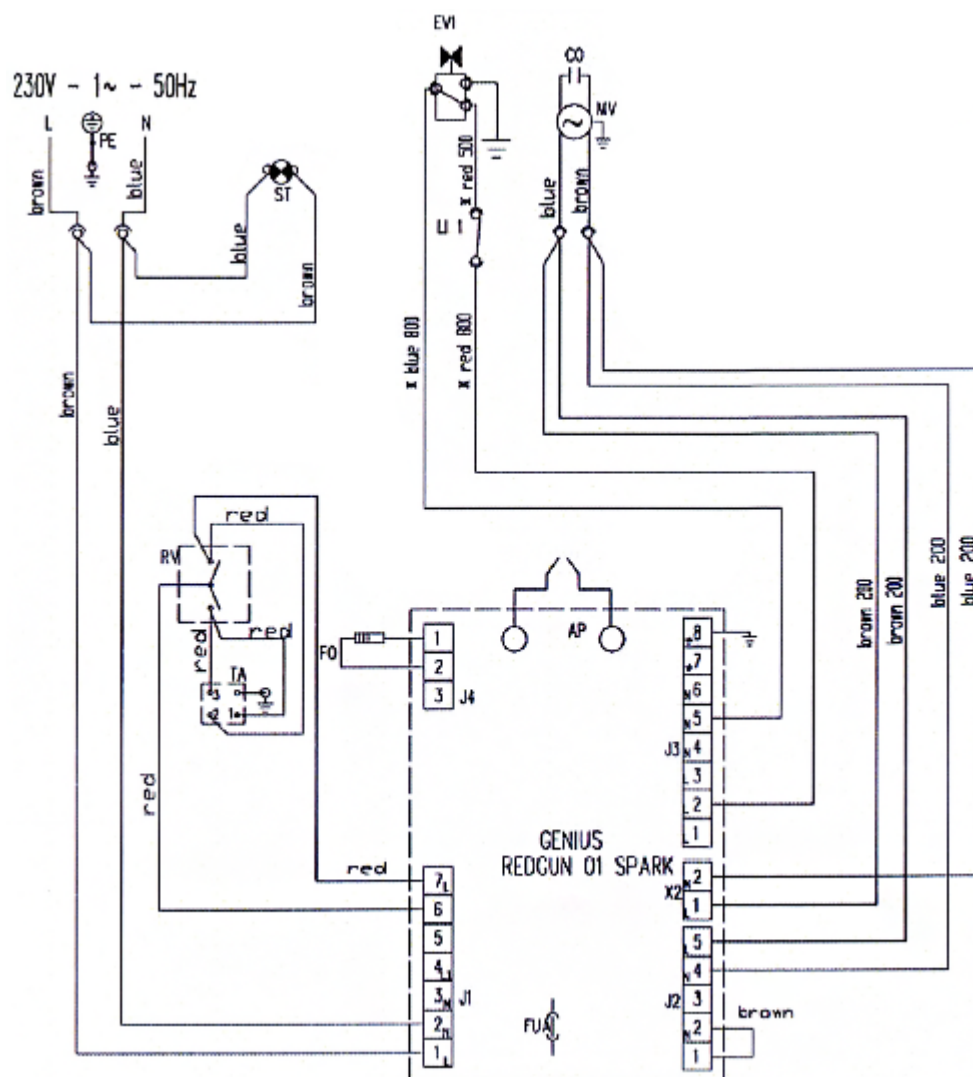
Parameter	Value
Article number	1.430.000.128
Method of heating	indirect
Air flow rate	1150 m ³ /h
Fan	axial fan
Max. nominal heat input	34.1 kW
Nominal heat output	28.8 kW (24764 kcal)
Temperature increase ΔT	70 °C
Input voltage	230 V / 50 Hz
Current consumption	1.56 A
Air transport hose connection \emptyset	300 mm
Flue pipe connection \emptyset	150 mm
Max. fuel consumption	3.25 l/h
Sound level (at a distance of 1 m)	75 dB (A)
Dimensions (length x width x height)	1270 x 470 x 720 mm
Minimum distance to walls and other objects	<div style="text-align: right;"> A: top 1 m B: rear 1 m C: side 1 m D: front 1 m </div>
Weight	56 kg

Fuels

The following fuels are approved for the device:

- EL fuel oil
- Diesel

Wiring diagram



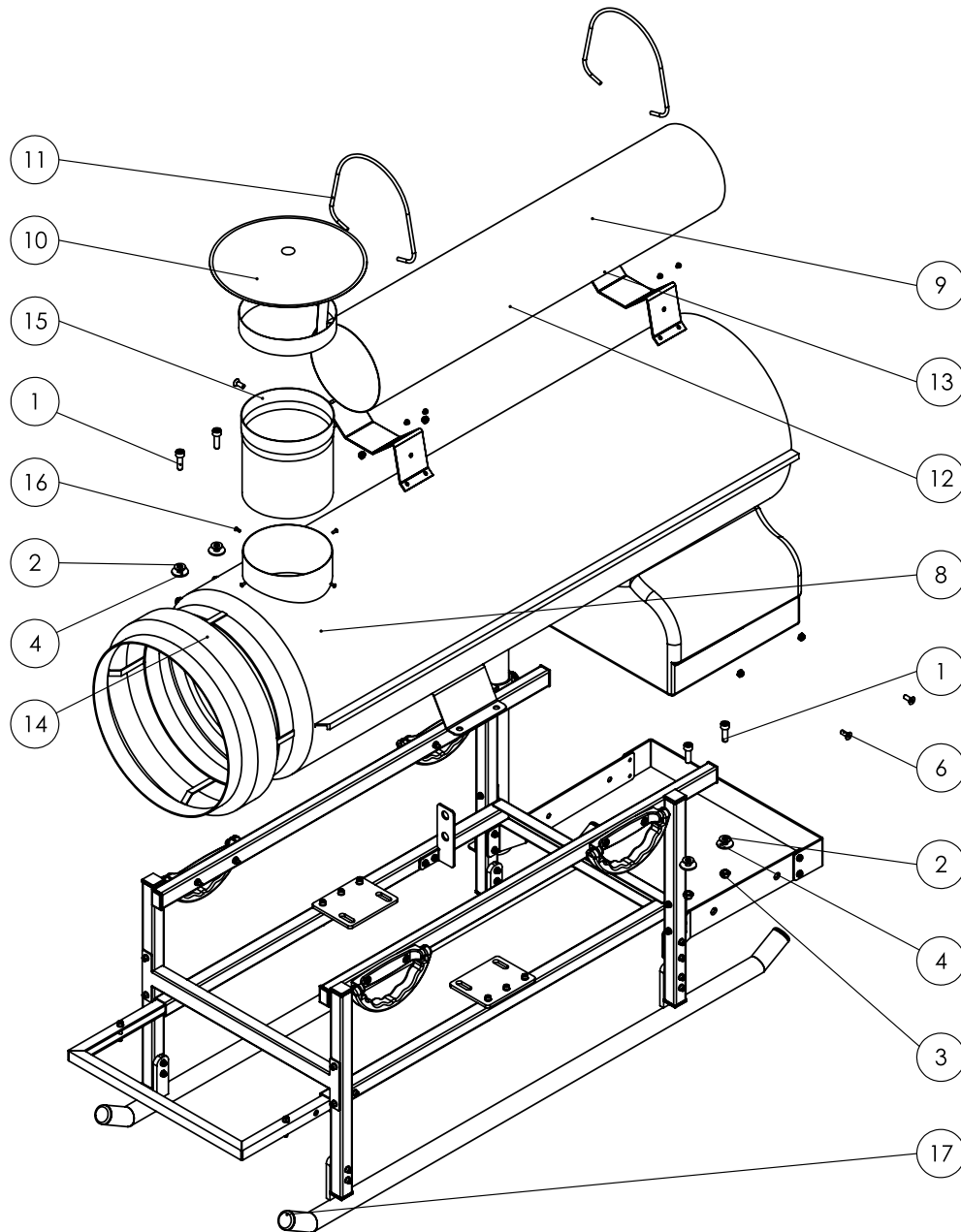
Abbreviation	Component	Abbreviation	Component
AP	Control unit	FO	Photo cell
TA	Thermostat connection	CO	Condenser
ST	Indicator light	MV	Fan motor
LI 1	Safety thermostat	FUA	Fusing 3.15 A
EV 1	Magnet valve	RV	Selector switch

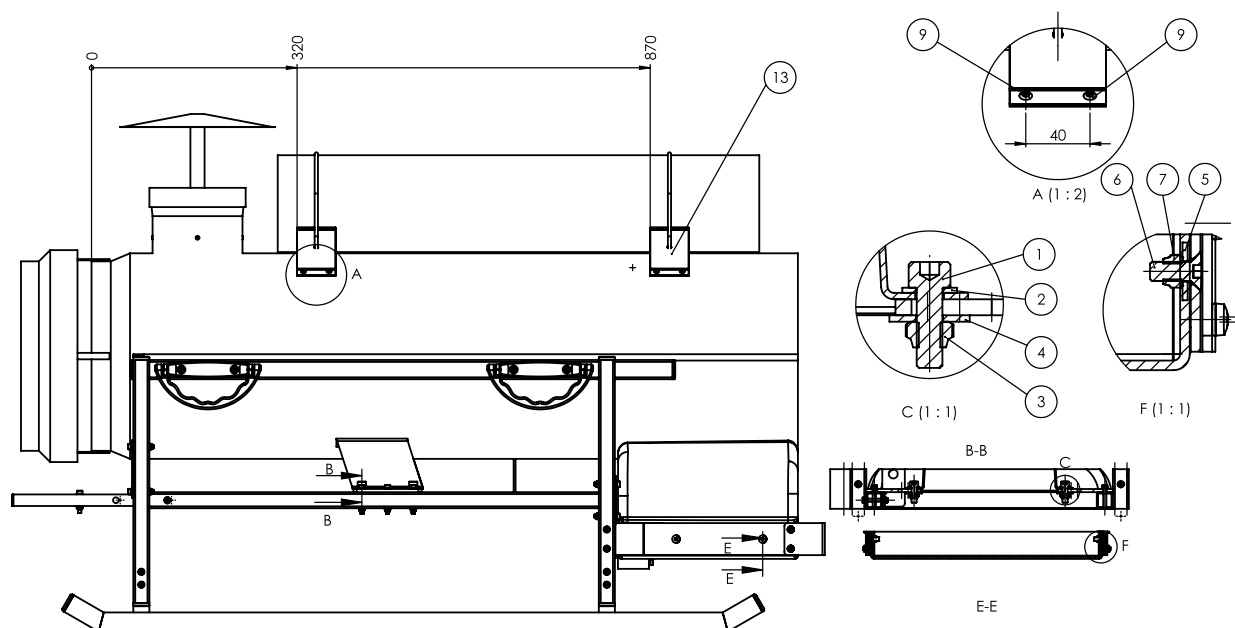
Overview of spare parts and spare parts list IDS 30 F



Info

The position numbers of the spare parts differ from those describing the positions of the components mentioned in these instructions.



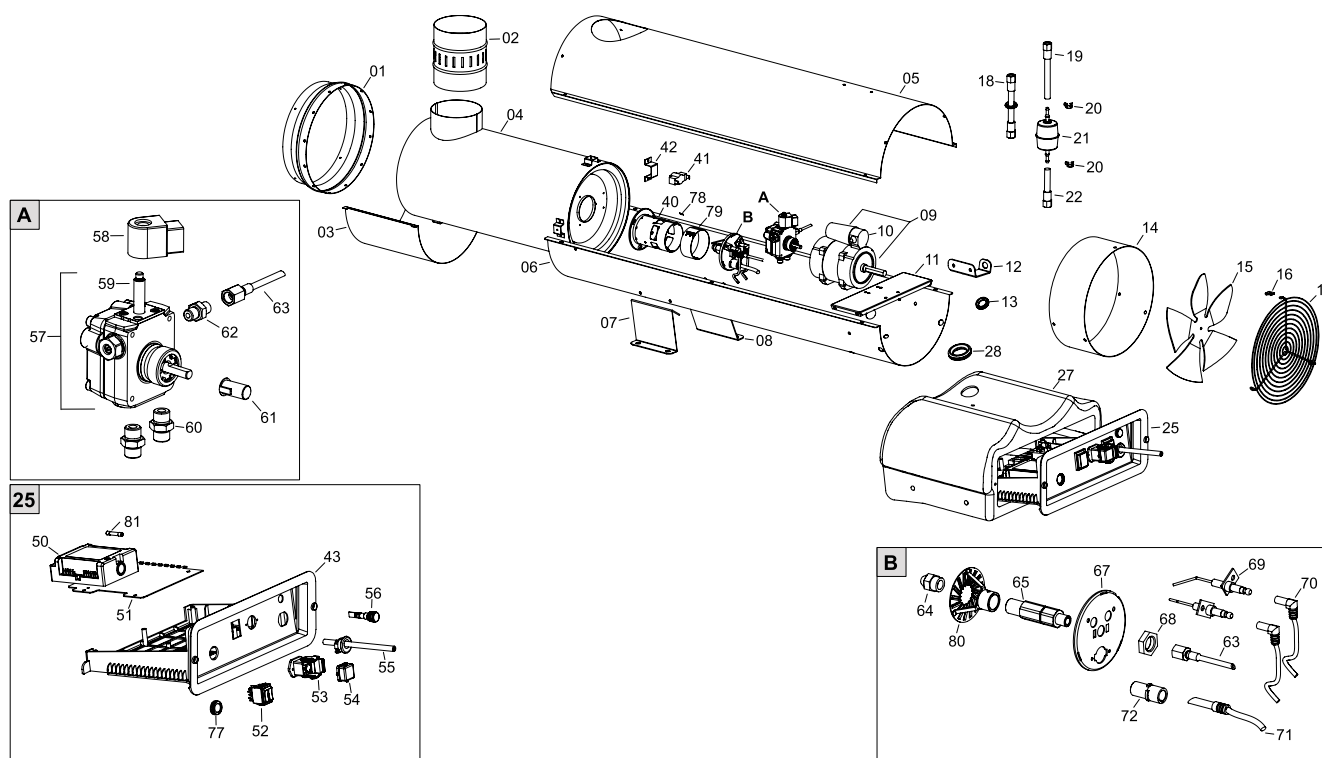


No.	Spare part	No.	Spare part	No.	Spare part
1	Cylinder head screw (DIN 912 – M 8 x 25 VA)	7	Self-locking hexagon nut (DIN 985 – M 6)	13	Pipe holding fixture
2	Washer (DIN 125 – A Ø8.4 VA)	8	Oil heater	14	Hose connection (IDS30 accessory, 300 mm adapter)
3	Self-locking hexagon nut (DIN 985 – M 8 VA)	9	Rivet (Ø4x10 Al)	15	Universal connection (DN 150, conical)
4	Washer (DIN 9021 – Ø8.4xØ24x1.8 VA)	10	Rain cap (DN 150)	16	Rivet (Ø3.2x8 V2A)
5	Washer (DIN 9021 – Ø6.4xØ20x1.25)	11	Bungee cord (l=450 mm)	17	IDS 30 F frame
6	Hexagon socket countersunk screw (DIN 7991 – M 6 x 16 V2A)	12	Pipe (DN150 750 mm, 0.6 mm sheet)		



Info

The position numbers of the spare parts differ from those describing the positions of the components mentioned in these instructions.



No.	Spare part	No.	Spare part	No.	Spare part
1	Outlet cone	20	Clamping piece	59	Solenoid valve housing
2	Flue pipe connection	21	Filter	60	Connector, Fe
3	Insulation plate	22	Flexible fuel oil hose	61	Engine / pump coupling
4	Combustion chamber	25	Control box	62	Connector, Fe
5	Top section of the body	27	Switchboard cover	63	Fine hose
6	Bottom section of the body	28	Cable feed-through	64	Nozzle
7	Support bracket body	40	Burner tube	65	Nozzle holder
8	Support bracket body	41	Safety thermostat	67	Supporting disc burner
9	Motor	42	Support bracket thermostat	68	Lock nut, brass
10	Condenser	43	Control box panel	69	Ignition electrode
11	Support bracket engine	50	Flame monitoring device	70	High-voltage cable
12	Power cable retainer	51	Mounting plate	71	Photo cell
13	Cable feed-through	52	Double-pole switch	72	LDR retainer
14	Air collector	53	Socket	77	Lock-out switch protection
15	Fan	53	Thermostat socket cover	78	Terminal strip
16	Retaining clip	55	Power supply cable	79	Air control flap
17	Air inlet grid	56	Lamp	80	Baffle plate
18	Flexible fuel oil hose	57	Fuel oil pump	81	Fuse
19	Flexible fuel oil hose	58	Solenoid valve coil		

Disposal



The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website <https://hub.trotec.com/?id=45090>. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Fuel oil

The fuel oil must be drained from the device and collected. Fuels are to be disposed of according to the national regulations.

Declaration of conformity

Declaration of conformity in accordance with the EC Machinery Directive 2006/42/EC, Annex II, Part 1, Section A

We – Trotec GmbH – declare in sole responsibility that the product designated below was developed, constructed and produced in compliance with the requirements of the EC Machinery Directive in the version 2006/42/EC.

Product model / Product: IDS 30 F

Product type: oil heater

Year of manufacture as of: 2022

Relevant EU directives:

- 2014/30/EU: 29/03/2014

Applied harmonised standards:

- None

Applied national standards and technical specifications:

- None

Manufacturer and name of the authorised representative of the technical documentation:

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Place and date of issue:

Heinsberg, 17.01.2022

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