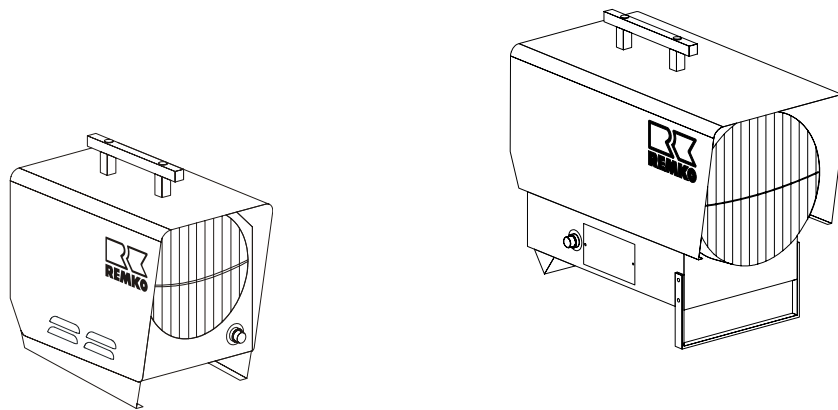




REMKO PGM 30 / 30 E
REMKO PGM 60 / 60 E
Propane gas heater



Operation
Technology
Spare Parts

Operating instructions

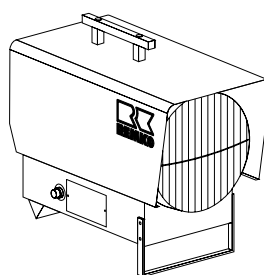
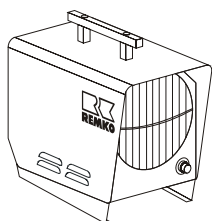
Read these instructions carefully before setting up/operating the unit!

Our guarantee becomes null and void if the unit is used, set up or maintained improperly, or if modifications are made to the supplied unit without our prior consent.
Subject to alterations!

Mobile propane gas heater

REMKO PGM 30 / 30 E

REMKO PGM 60 / 60 E



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Always keep these operating instructions near or on the unit!



Safety Instructions

Make sure to observe relevant local building and fire protection codes and abide by professional association regulations when the unit is in operation.

Please also observe the following.

The unit may only be operated by persons who have received proper training in its operation.

The units must be installed and operated in such a way that people are not exposed to radiant heat and fires cannot occur.

The units may only be installed and operated in closed rooms where the units have an adequate air supply for combustion.

The portable liquid gas tanks must be set up securely in an upright position.

During unit operation, the portable liquid gas tanks may never be used while they are lying on their sides. *Danger of explosion: liquid gas may leak out of the gas nozzle.*

The unit may only be operated in well-ventilated rooms.

Persons may not remain in the room where the unit has been installed for longer periods of time. *Warning signs must be placed at the entrances.*

The unit may only be set up and operated on a non-flammable surface.

Make sure that no flammable objects/materials can be sucked in to the unit.

The unit may not be set up or operated in surroundings susceptible to fire or explosions.

A safe distance off 1.5 m must be maintained around the unit; a distance of 3 m must be maintained from its exhaust opening, even for non-flammable objects.

The unit's exhaust opening may not be reduced in size or equipped with hoses or pipes.


Never insert foreign objects into the unit.

The air suction grille must always be kept free of dirt and loose objects.

Do not expose the unit to a direct stream of water.

All electric cables outside the unit are to be protected from damage (e.g. caused by animals, etc.).

Before performing any maintenance or repair work, make sure to unplug the unit from the power supply and disconnect it from the fuel supply.

 **Do not bypass or block safety mechanisms while the unit is in operation.**

Description of the Unit

The unit is a mobile, liquid gas-fired heater with a fan for transporting hot air. It does not have a heat-exchanger.

The unit works without an exhaust system and is only suitable for industrial purposes. The unit is a direct-fired device which has been designed for universal and smooth operation.

The unit is equipped with an integrated "power regulation" function for gradual control of heat output, as well as with a durable flame burner, an electromagnetic valve, a piezo electric ignition, a safety pilot with thermoelectric flame monitoring, a connecting cable with plug and finally a quiet axial fan which requires little maintenance.

The unit meets the basic safety and health requirements found in the relevant EU regulations.

Areas of Application

The unit can be used, for example:

to dry new buildings

to provide localised heat for outdoor workplaces or localised heat in production rooms and halls not susceptible to fire.

to permanently or temporarily heat closed and open rooms that have sufficient fresh air intake

to de-ice machines, vehicles and non-flammable stored goods and regulate the temperature of components susceptible to frost.

 **For optimum unit operation, the device should not be operated at an ambient temperature above 25 °C.**

Unit Functionality

When the unit is switched on (operating switch set to "I" = heating mode), the air supply fan starts and the electromagnetic valve opens. However, the gas supply to the burner is still closed off.

The gas supply to the burner is released by pressing the pin of the thermoelectric gas valve (safety pilot). The liquid gas is supplied to the burner pipe through a pressurised nozzle where enough oxygen is added to meet the respective burner capacity.

The resulting gas-air-mixture is ignited on the burner head by an electric ignition spark. The spark is generated by manually triggering the piezo electric igniter.

Thermoelectric flame monitoring is started by heating the thermocouple. The safety pilot pin must now be released. If there are operational problems or the flame goes out, the gas supply is interrupted. However, the supply air fan continues running.

The safety temperature limiter (STB) interrupts the gas supply and locks all functions if the unit overheats. The STB can only be manually released after the unit has cooled.

The min/max heat output can be gradually with the "power regulation" function during unit operation.

General Instructions

The unit may only be operated by persons who have received proper training in its operation and how to handle liquid gas.

When operating the unit, make sure to comply with the relevant national/regional guidelines.

The unit may only be operated in rooms

- with sufficient air supply for combustion
- that are well-ventilated
- where the quantities of substances which can be harmful when breathed in are admissible.

Good natural ventilation exists when, for example:

1. The room content in m³ equals 30 times the rated heat output of all units in operation in the room and natural ventilation is supplied through doors and windows or
2. There are non-closable openings for air output and intake close to the ceiling and floor whose size in m² equals at least 0.003 times the rated heat output in kW of all heating units in operation in the room.

A standard unit connection pressure of **1.5 bar (1500 mbar)** of category I _{3B/P} is required for all EU countries.

The connection pressure may not fall below or exceed the required value.

When longer hoses are used, the corresponding pressure loss has to be taken into account.

Use only those parts, such as gas hoses, pressure controller and mechanisms which protect lines and hoses from breaking and safety mechanisms that prevent gas leakage, that have been tested and are suitable for the intended purpose.

The pressure controllers must have a fixed initial pressure of 1500 mbar and must be equipped with a mechanism that prevents the hose from breaking.

The unit may not be operated if the gas is in a liquid state as it enters the burner.

At building sites, only hoses designed for use with liquid gas may be used.

In accordance with regional regulations.

The length of the gas hose should not exceed 2 metres.

Longer hoses may be used if safety regulations are observed and the length of the hoses is kept as short as possible.

Gas hoses must be protected against chemical, thermal and mechanical damage.

If unit operation is unmonitored, hoses must be used that protected against breakage.

Prior to operating the unit, the operating personnel must check that the unit and its safety mechanisms are functioning properly and that the safety mechanisms have not been removed.


Any defects are to be reported to the supervisor immediately.

The unit must be switched off if any defects are found which endanger the safe operation of the unit!

The unit may be only serviced by authorised personnel; only original spare parts may be used.

Parts that wear out must be replaced on a regular basis unless an authorised service person confirms that the unit is functioning smoothly.

If the unit has been switched off by the temperature limiter due to overheating, the reason the problem occurred has to be identified and fixed.

 **If work is performed on the gas supply hose or if the gas cylinder is replaced, all stop valves must be closed and nothing which can potentially ignite may be present in the immediate surroundings.**

Before Starting

Only individuals who have been sufficiently trained in the respective area may operate the units and monitor the containers and storage of the cylinders.

Make sure that the operator is aware of potential dangers when handling liquid gas.

Prior to operation, the operators must check the units' operating and safety mechanisms for any visible defects and ensure that the safety mechanisms have not been removed.

Important Information

The unit may only be installed in well-ventilated rooms; it may not be installed in residential living rooms or similar spaces!

A constant unit connection pressure of 1.5 bar (1500 mbar) must be maintained even when the unit is in continuous operation.

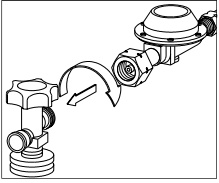
If the unit is operated at a building site, only hoses designed for this purpose may be used.

Clean the gas supply hose thoroughly before operating the unit for the first time.

 **For optimum unit operation, the device should not be operated at an ambient temperature above 25 °C.**

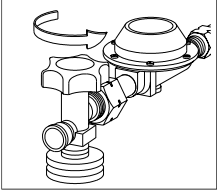
Gas Supply

Connect the gas hose as follows:

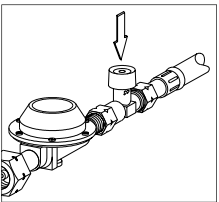


1. Connect the pressure controller to the gas cylinder(s).

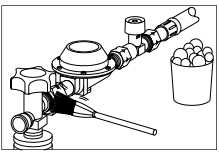
Caution!
Left-handed thread!



2. Open cylinder(s) valve(s).
When gas is removed from several gas cylinders simultaneously, all the valves have to be opened.



3. Press the release button of the hose protection mechanism **after opening** the valve(s).
This must be done each time the cylinders are replaced.



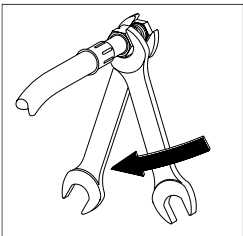
4. After installing and connecting the units, check all gas connections to make sure they are tight.
Soap solution, leak detection spray etc.
Do not use open flames!

Important Information about Installation

When installing or removing the gas hose, make sure to exert counterpressure on the unit's gas connection nipple using an open-end spanner SW 19 and remembering that the thread is left-handed.

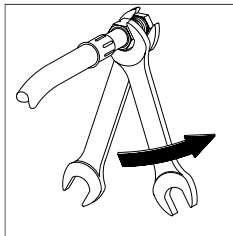
This process also applies to all other gas components, including the pressure controller, hose protection device (against breakage), etc.

Unscrew gas hose



Turn union nut clockwise

Fasten gas hose



Turn union nut counter-clockwise

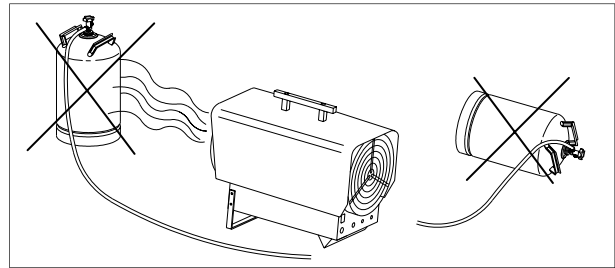
Install gas tanks only in well-ventilated rooms; they may not be set up in rooms where people reside for longer periods!

Important Safety Instructions

The gas tanks may not be placed directly behind the unit!

Never heat up or de-ice the gas tank using the hot air coming out of the unit.
Danger of explosion.

Never place the gas tank on its side when the unit is in operation.
Danger of explosion.



Important Information about Ice Formation on the Gas Supply System

There is a danger that ice will form on the gas or pressure tanks if the dimensions of the gas supply system are insufficient. When the gas pressure falls, it is no longer possible to ensure that gas is properly supplied to the consumer system.

This can result in imperfect combustion or harmful exhaust fumes, or may cause the flame to go out.

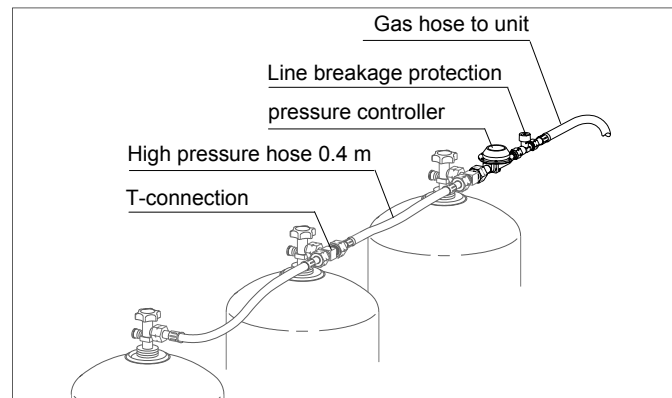
The frost crystals may not be removed using an open flame, burning embers or radiators.

The gas supply system is to be set up in accordance with the unit's connection value (see type plate), length of operation and ambient temperature of the supply tanks.

In general, we recommend that using a set of at least 3 cylinders to prevent heavy ice formation on the tanks. The number of cylinders can be increased using a multi-cylinder set (accessories) depending on the unit capacity and the length of operation.

Assembly of Multi-Cylinder Set

All cylinder valves must be open to ensure constant gas supply!



Starting

Only individuals who have been sufficiently trained in the respective area may operate the units and monitor the containers and storage of the cylinders.

Please also observe the following.

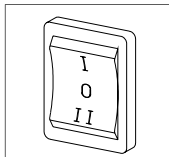
Make sure that the operator is aware of potential dangers when handling liquid gas.

The unit may only be installed in well-ventilated rooms; it may not be installed in residential rooms or similar spaces!


For optimum unit operation, the device should not be operated at an ambient temperature above 25 °C.

Make sure to maintain a safe distance to combustible and flammable materials and comply with local fire codes.

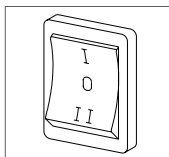
Connecting the unit to the power supply



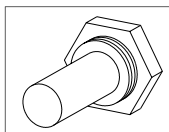
1. Set the operating switch to "O".
Off.
2. Plug the unit in to a power socket with the right connection.
230V/1~ 50Hz.

 **The unit must be connected to the power supply via a special supply point with fault current safety switch.**

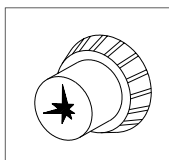
Heating



1. Set the operating switch to "I".
Heating mode.
The air supply fan starts.



2. Press and hold the pressure pin 2 of the thermoelectric gas valve.
Safety pilot.

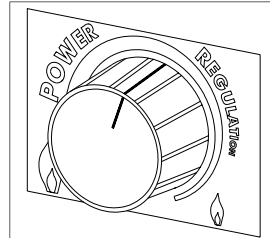


3. Hold the pressure pin down for approx. 2 or 3 sec. and then press the piezo electric igniter until a flame appears.

4. After a flame has appeared, continue holding down the pressure pin for approx. 10 - 15 seconds until the thermoelectric flame monitoring function has started.
5. Do not release the pressure pin before this.
6. If the flame goes out once you release the pressure pin, repeat the ignition process after waiting approx. 1 minute.
7. Keep the pressure pin pressed down a little longer.

Setting and regulating the heat output

1. Set the heat output gradually using the adjustable "power regulation".
2. Please note: this setting can also be gradually changed while the unit is in operation.



Turn to the left:
Increases heat output

Turn to the right:
Lowers heat output

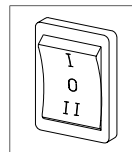
Important Information

Make sure that the air supply can be freely suctioned in and the heated air blown out.

The unit's air intakes and outlets may not be constricted or equipped with hoses or pipes.

Ventilation


In ventilation mode, only the air supply fan runs and the unit can be used for air circulation.



1. Set operating switch to "II".
2. Please note: it is not possible to heat!

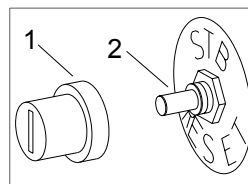
Safety Mechanism

Should overheating occur, the safety temperature limiter (STB) interrupts the gas supply and locks the unit's electrical system. All unit functions are switched off.

 **Before resetting the unit, check the operating conditions to ensure that the STB temperature is not exceeded again.**

"RESETTING" is not possible before the sensor has cooled down to below approx. 90 °C.

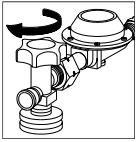
The unit is released once the protective cap has been unscrewed by pressing the "STB-RESET" button.



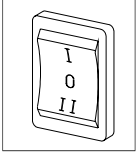
1. Remove the protective cap 1
2. Press the reset button 2.
3. Replace the protective cap.

You will find a detailed table for fixing problems under "Troubleshooting".

Unit Shut Down



1. Close all cylinder valves.
2. Let the flame burn out.




3. Set the operating switch to "0".
Off.
4. Unplug the unit plug from the power supply.


Maintenance

Depending on the operating conditions, the units must be serviced as necessary, at least once every two years by a authorised individual to ensure that they are functioning properly

The test results must be recorded in a test log which is kept in a safe place until the next test so that it can be provided to authorised persons for control purposes at any time.

Regular maintenance and care, especially after each heating period, are required to ensure a long service life and a faultless operation of the unit.

 **When the unit is being serviced, adjusted or repaired, the gas supply has to be turned off and the unit unplugged from the power supply!**

 **Adjustments or maintenance work may only be performed by authorised personnel!**

Please observe the following:

The unit must be maintained and cleaned at regular intervals.

The unit must be kept free of dust and other deposits and may only be cleaned using a dry or damp cloth. *Do not use place the unit in a direct stream of water.*

Do not use any aggressive cleaning agents or those which are harmful to the environment.

Do not use cleaning agents which contain solvents.

Use only suitable cleaners even when the unit is extremely dirty.

Check air suction and blow-out grille on a regular basis and clean when necessary.

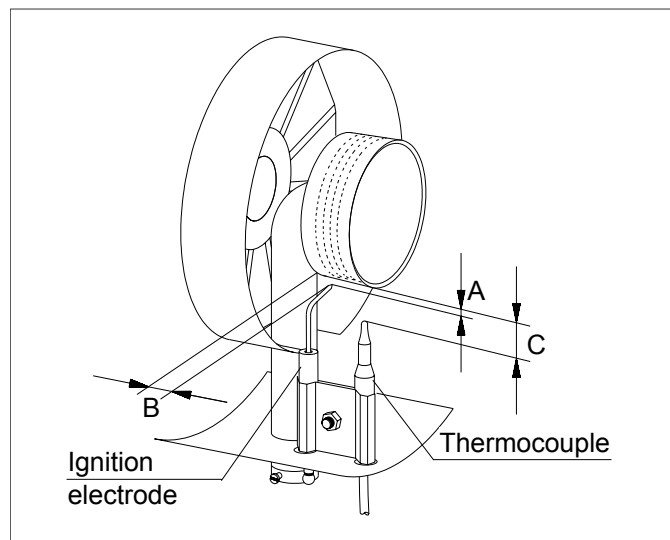
Make sure that the air intake for combustion air, the injector behind it and the gas nozzle are not dirty.

Check gas burner, gas nozzle and gasket for damage; replace when necessary.

Clean baffle plate regularly.

Removing and Cleaning the Gas Burner


1. Shut off the gas supply and unplug the unit from the power supply.
2. Remove the blow-out grille and the outside casing.
3. Loosen the clamping screw on the nozzle holder.
4. Remove the ignition cable from the ignition electrode.
Pay attention to the cap nut and the lock washer.
5. Screw the thermocouple capillary tube out of the safety pilot.
6. Loosen the fastening screws on the burner and remove the burner with ignition electrode and thermocouple from the unit.
7. Clean the burner using a steel brush and compressed air.
8. Put the burner with ignition electrode and thermocouple back into the unit.
9. If necessary, set the ignition electrode and thermocouple by following the instructions below.



Type	A	B	C
PGM 30 / 30E	3 mm	15 mm	20 mm
PGM 60 / 60E	3 mm	15 mm	35 mm

approx. dimensions

10. Assemble all other parts in the reverse order.
11. Test the entire unit to ensure that it is functioning properly; make sure that all gas supply hoses are impermeable using either a soap solution or a leak detection spray.
12. Conduct an electrical safety test after performing any maintenance work.

 **Bright yellow flames are an indication that the fresh air supply is insufficient or that there is dirt inside the unit.**

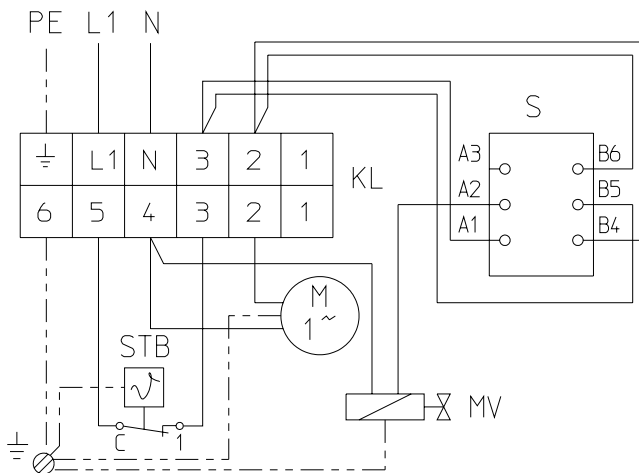
Technical Data

Series		PGM 30 / 30 E	PGM 60 / 60 E
Rated heat output	kW	26	55
Heating capacity	kW	adjustable from 10 to 26	adjustable from 25 to 55
Air output	m ³ /h	800	1,450
Fuel/type of gas		Liquid gas Cat. I ₃ B/P, I ₃ +	
Gas pressure	bar	1,5	1,5
Gas consumption	kg/h	0.78 - 2.0	1.95 - 4.27
Electrical connection 1~	V	230	230
Frequency	Hz	50	50
Power consumption max.	kW	0,07	0,11
Fuse protection	A	10	10
Type of protection		IP 44	IP 44
Sound pressure level L _{pA} 1m ¹⁾	dB(A)	56 - 69	62 - 72
Weight (without accessories)	kg	12	20
Dimensions total	length	mm	450
	width	mm	260
	height	mm	410

1) noise measuring DIN 45635 - 01- KL 3

Wiring Diagram

230/1~ 50Hz



MV = gas valve

M = fan motor

STB = safety temperature limiter

KL = terminal strip

S = operating switch

Service and Guarantee

For the guarantee to be valid, the customer must completely fill out the "guarantee certificate" enclosed with all heating units and send it back to REMKO GmbH & Co. KG in a timely manner after purchasing of the unit and putting it into operation.

The units have undergone testing at the factory to ensure proper functioning. If there are still malfunctions that cannot be fixed by the operator using the troubleshooting instructions, please contact your dealer or contract partner.

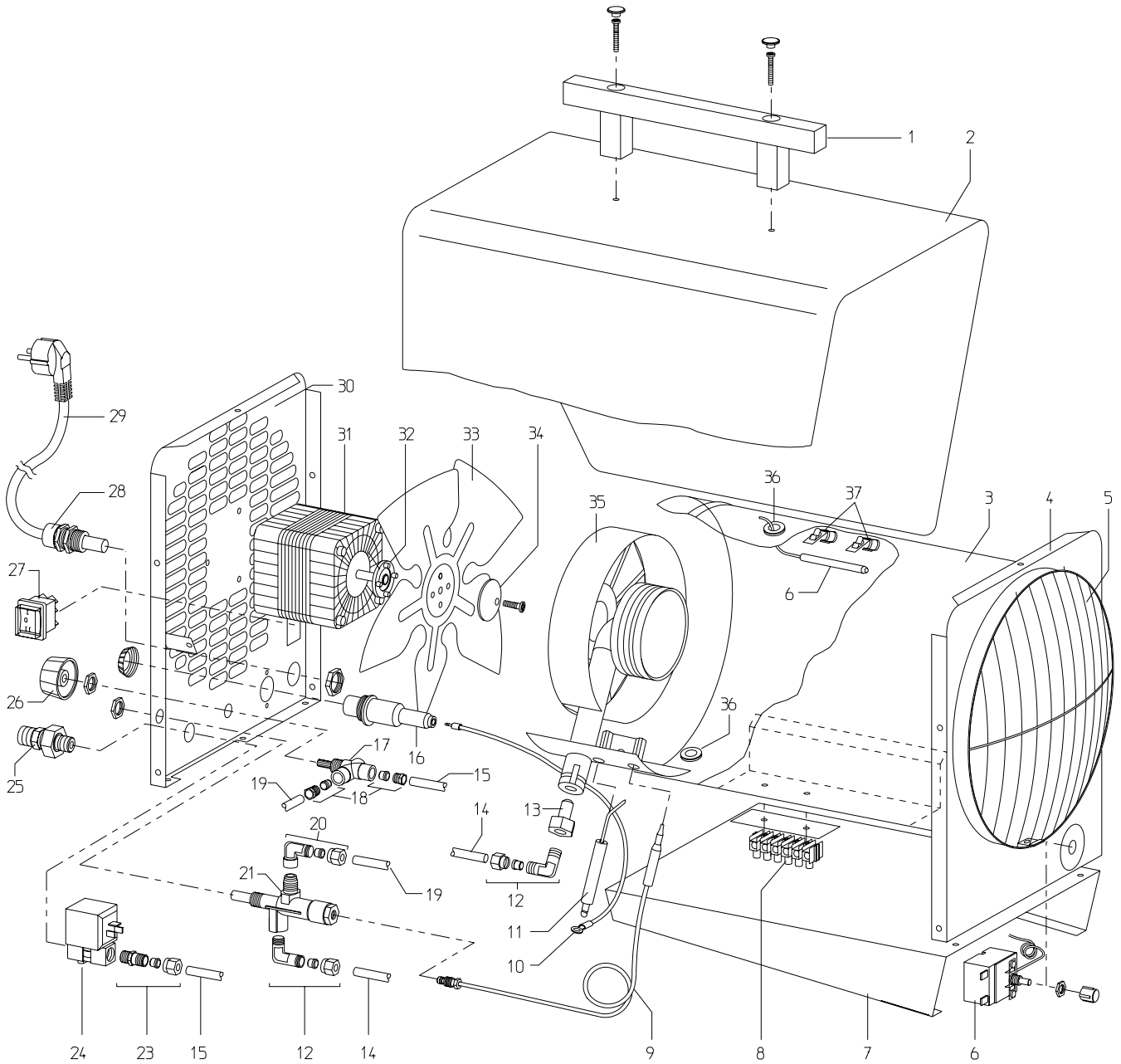
An operation/use other than indicated in these instructions is prohibited!
In the case of non-compliance, we assume no liability and our guarantee becomes null and void.

Proper Use

These devices have been designed and equipped exclusively to be used for heating and ventilation for industrial and commercial purposes.

The manufacturer is not liable for any damage resulting from non-adherence to manufacturer specifications, legal requirements or any modifications to the units.

Exploded View PGM 30 / 30 E



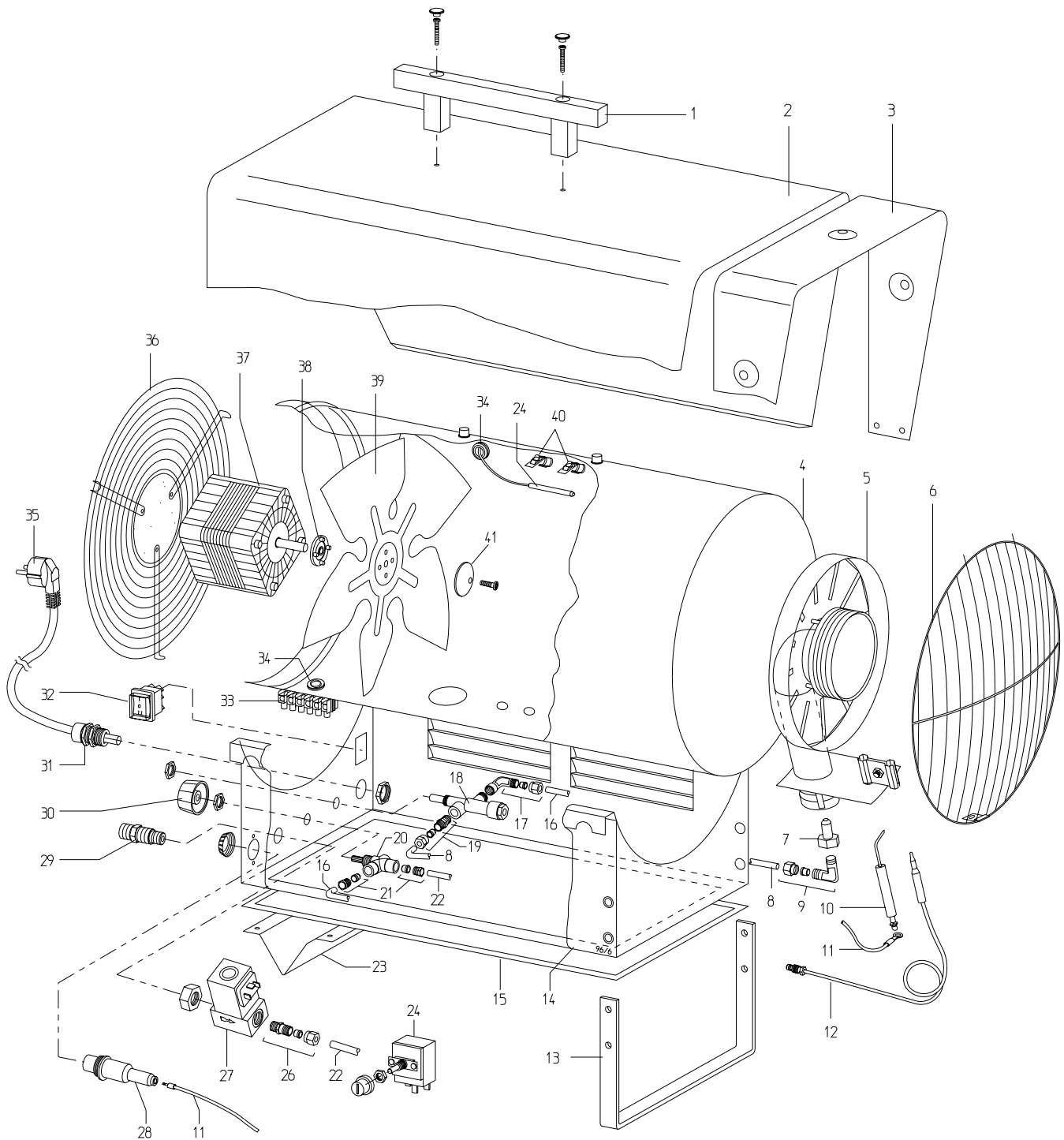
We reserve the right to make changes to dimensions and design in the interest of technical progress.

Spare Part List PGM 30 / 30 E

No.	Description	Ref. No.
1	transport handle	1101142
2	outside casing PGM 30	1101405
2a	outside casing PGM 30 E (stainless steel)	1101463
3	combustion chamber	1101384
4	end plate, front	1101479
5	blow-out protection grille	1101383
6	safety temperature limiter with sensor	1101197
7	inspection cover	1101385
8	terminal strip, 6er	1101366
9	thermocouple	1101164
10	ignition cable	1101283
11	ignition electrode	1101180
12	angled screw coupling 1/8" x 6mm	1101316
13	gas nozzle	1101159
14	gas pipe Z/D	1101452
15	gas pipe M/R	1101441
16	piezo igniter	1101364
17	gas regulator	1101411
18	fitting M10x1	1101409
19	gas pipe R/Z	1101451
20	angled coupling 1/8" x 6mm	1101468
21	thermoelectric gas valve	1101169
23	GE-coupling 1/4" x 6mm	1101396
24	solenoid valve	1101376
25	gas connection nipple 3/8" lks.	1101134
26	control knob, cpl.	1101192
27	operating switch, cpl.	1101188
28	traction relief	1101267
29	connecting cable with plug	1101320
30	end plate, rear	1101480
31	fan motor	1108049
32	clutch plate B 6 Ø	1108455
33	fan blade	1101392
34	clutch disc	1101375
35	gas burner	1101417
36	protection socket	1101304
37	retaining bracket	1101395
not shown	pressure controller with protection from hose breakage	1101470
	2 metres of continuous gas hose	1101419
	2 metres of continuous gas hose (HD for building sites)	1101174
	5 metres of continuous gas hose (HD for building sites)	1108410
	10 metres of continuous gas hose (HD for building sites)	1108411
	multi-cylinder set (2 - 3 cylinders)	1014050
	T - connection for multi-cylinder set	1101177
	nylon seal for T - connection	1101178
	HD - gas hose 0.4m for multi-cylinder set	1101179

When ordering spare parts, please indicate ref. no. and machine no. (see type plate)!

Exploded View PGM 60 / 60 E



We reserve the right to make changes to dimensions and design in the interest of technical progress.



Spare Part List PGM 60 / 60 E

No.	Description	Ref. No.
1	transport handle	1101142
2	outside casing PGM 60	1101420
2a	outside casing PGM 60 E (stainless steel)	1101461
3	insulation	1101421
4	combustion chamber	1101422
5	gas burner	1101423
6	blow-out protection grille	1101424
7	gas nozzle	1101426
8	gas pipe Z/D	1101458
9	angled screw coupling 1/8" x 6mm	1101316
10	ignition electrode	1101280
11	ignition cable	1101283
12	thermocouple	1101164
13	support bracket, front	1101427
14	base plate	1101428
15	inspection cover	1101469
16	gas pipe R/Z	1101459
17	angled coupling 1/8" x 6mm	1101468
18	thermoelectric gas valve	1101169
19	GE-coupling 1/8" x 6mm	1101359
20	gas regulator	1101412
21	fitting M10x1	1101409
22	gas pipe M/R	1101441
23	support bracket, rear	1101249
24	safety temperature limiter with sensor	1101197
26	GE-coupling 1/4" x 6mm	1101396
27	solenoid valve	1101376
28	piezo igniter	1101364
29	gas connection nipple 3/8" lft.	1101134
30	control knob, cpl.	1101192
31	traction relief	1101267
32	operating switch, cpl.	1101188
33	terminal strip, 6er	1101366
34	protection socket	1101304
35	connecting cable with plug	1101320
36	air suction grille	1101432
37	fan motor	1101254
38	clutch plate B 8 ø	1101255
39	fan blade	1101150
40	retaining bracket	1101395
41	clutch disc	1101375
not shown	pressure controller with protection from hose breakage	1101470
	2 metres of continuous gas hose	1101419
	2 metres of continuous gas hose (HD for building sites)	1101174
	5 metres of continuous gas hose (HD for building sites)	1108410
	10 metres of continuous gas hose (HD for building sites)	1108411
	multi-cylinder set (2 - 3 cylinders)	1014050
	T - connection for multi-cylinder set	1101177
	nylon seal for T - connection	1101178
	HD - gas hose 0.4m for multi-cylinder set	1101179

When ordering spare parts, please indicate ref. no. and machine no. (see type plate)!

Troubleshooting

Problem:	Cause:
– unit doesn't start	1 – 2 – 3 – 4 – 7
– unit stops during operation	2 – 4 – 7 – 12 – 13
– fan blows but gas supply is blocked or the flame does not ignite	4 – 5 – 8 – 9 – 12
– flame goes out after the pin of thermoelectric gas valve is released	8 – 10 – 11
– gas supply is blocked or the flame goes out	4 – 6 – 7 – 10 – 11 – 12 – 13
– fuel consumption is too high	12 – 15
– unit can't be shut down	3 – 14
– heating capacity diminishes during continuous operation	13

 **Shut off the gas supply and unplug the unit from the power supply before performing any work on the unit!**
Adjustments or maintenance work may only be performed by authorised personnel! 

Cause:	Remedy:
1. no electrical connection	- plug the unit into an appropriate mains socket (230V/1~ 50Hz)
2. fan motor is overloaded (fan blows irregularly or is blocked)	- check fan motor, fan blade and clutch plate and replace if necessary.
3. operating switch is defective	- shut off gas supply, unplug the unit and replace defective operating switch
4. no gas pressure on solenoid valve	- check gas supply - check contents of gas cylinders - check gas hose(s) for damage - release hose break protection resp. replace it
5. no ignition spark	- set ignition electrode - check ignition cable - check porcelain insulation of ignition electrode
6. Air suction grille is dirty	- clean air suction grille
7. unit is shut down by safety temperature limiter (STB)	- check air suction and blow-out grille and clean if necessary - check fresh air supply - release safety thermostat (STB - Reset)
8. safety pilot does not open or does not lock	- replace safety pilot
9. piezo igniter is defective	- replace piezo igniter
10. thermocouple is not getting warm enough	- check position of thermocouple and adjust according to setting instructions
11. loose or dirty connection between safety pilot and thermocouple	- check connection and clean if necessary
12. pressure controller defective or improper pressure controller attached or hose breakage protection is blocked	- attach original pressure controller - release hose breakage protection or replace it
13. ice has formed on the gas cylinder(s) due to low temperatures and too much gas output	- replace empty gas cylinder(s) and connect 2-3 cylinders using multi cylinder set (Ref-No. 1014050)
14. solenoid valve does not open	- shut off gas supply - let flame burn out - set operating switch to "0" and unplug the unit - replace solenoid valve
15. gas hose(s) are leaking	- find leakage using foam substance to eliminate leaks

Maintenance Log

Model: : **Model No.:** :

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Clean unit -surface-																				
Clean unit -interior-																				
Clean fan blade																				
Clean combustion chamber																				
Clean gas burner																				
Set/replace ignition electrode																				
Check gas hose																				
Check gas supply parts for leaks																				
Check safety facility																				
Check protection guards																				
Check unit for damage																				
Check fastening screws																				
Electrical safety inspections																				
Test run																				

Remarks:.....

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	17. Date: Signature	18. Date: Signature	19. Date: Signature	20. Date:..... Signature

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