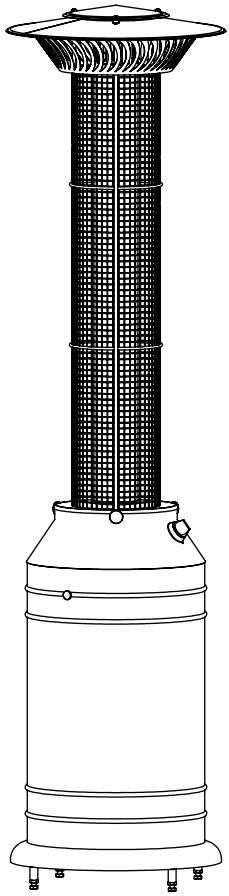
VULKAN
vulkan.com.pl

Producer: Komin-Flex Sp. z o.o.
43-200 Pszczyna, ul. Górnośląska 1
www.kominflex.com.pl



USER MANUAL

*Read the user manual before use

GENERAL INFORMATION

Radiators from the Vulkan line are gas devices, powered with liquid LPG gas propane-butane, adapted for the use with standard cylinders (CONDITIONALLY IT IS POSSIBLE TO USE THE PURE PROPANE AT TEMPERATURE BELOW 5 CELSIUS DEGREES) In order to connect the cylinder to the radiator, you should use the country-specific connection set, consisting of the certified hose, reducer, and hose clamps (the connection set is not part of the radiator).

Instructions for safe use:

It is essential to comply with the following terms of use.
Vulkan radiators are designed for external use, or with the observance of safety use principles in well-ventilated buildings.

Types of threats:

(1) danger of explosion (2) danger of fire (3) hot surface (4) exhaust note

- note: gas devices – check for leaks, refer to the proper operation of the valve (1)
- note: fumes – use the device in well-ventilated rooms (4)
- note: temperature – do not touch the heated surfaces; keep a minimum distance from combustible items (2,3)
- note: exploitation only by adults away from children and animals
- note: installation of the device, and storage of gas cylinders, should be performed according to the relevant provisions for liquid gas
- note: replace the connection hose in the recommended time intervals
- note: use the LPG cylinder permitted in the given country and recommended by the manufacturer
- note: close the gas valve after using the radiators
- note: too high calorific value of the gas mixture, or the improper proportion of the propane/butane composition (e.g. at the end of the cylinder operation), can cause contamination (soot) of the glass tube; cleaning occurs spontaneously after using the gas with appropriate parameters
- note: for maintaining the proper ventilation of the cylinder casing of the chamber, it is mandatory to screw the legs to the base.

Launch of VULKAN radiators

Before first use:
- Check whether the provided product has no visible damage.
- Carefully remove the packaging elements, including the cardboard spacer in the top part of the glass tube (re Vulkan).
- Tighten the legs to the base.
- Fasten the heater (permanently) to the ground-mounting pin included (re Vulkan)

Before the next start-up:
- Make sure that the valve knob is in the position 1 OFF.
- Lift the barrel of the housing and secure it (by suspending it on a chain located on the rack rod) (re Vulkan, Etna).
- Connect the cylinder and the reducer to the burner nozzle with a flexible gas hose (connection set with the reducer is not part of the radiator), secure the connection with clamps.
- Unscrew the valve in the gas cylinder.
- Check the tightness of the connections made using the foaming agent (e.g. water with soap). Never use open flame for testing.

Operation of the valve knob:

1. Venting the burner
- lightly press the knob and turn it to the left (counter clockwise) by 90° to the position (2) PILOT and pressing the knob wait for approx. 1,5 minute.
- return to the starting position – press the know slightly and turn it to the right (clockwise) to the starting position 1 OFF.
- wait for approx. 1 minute to ventilate the gas accumulated during venting.

2. Lighting the remote (candle) of the burner.
- firmly press the knob towards the housing and turn it to the left by 90° into the position (2) PILOT (when turning you should without fear break the significant resistance protection). While turning we will hear the sound of exciting the spark by the ignition system. The remote should ignite at this point.
- if it is not ignited, turn the knob to the starting position and repeat the ignition attempt. If the remote does not start within 1 minute you should wait for another 2 minutes (creating the ignition zone) and you can repeat the ignition operation.
- wait for approx. 1 minute until the security sensor warms up and turn the knob to the left (counter clockwise), pressing it slightly to the working position.

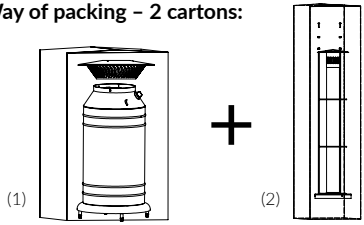
3. Working position.
- the burner valve has got two working positions:
The first position – (3) LOW – work with a yield of approx. 60%, the second position – (4) HIGH – work with full capacity.

1. VULKAN

Technical specifications:

model	VULKAN 30	VULKAN 37	VULKAN 50
device category	I3B/P	I3B/P	I3B/P
gas type	Propane Butane	Propane Butane PLBP	Propane Butane
pressure	30mbar	37 mbar	50 mbar
power	8,0kW	8,5 kW	7,5kW
gas use	0,50kg/h	0,59 kg/h	0,51 kg/h
max cable length	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)
working pressure	30mbar BG, CY, CZ, DK, EE, FI, GR, HU, HR, IT, LT, LV, MT, NL, NO, RO, SE, SI, SK, TR,	37 mbar PL	50 mbar AU DE
nozzle	1,4	1,4	1,00

Way of packing – 2 cartons:

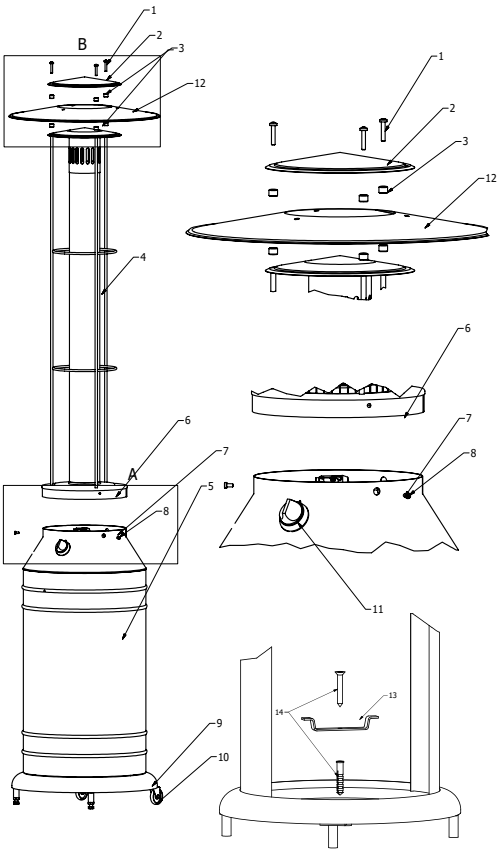


Carton 1: the body with the cover and the base (no.5 and 9), socket screws M 5 mm - 3 pcs. (no.8), legs (no.10), roof fixed on the flame tube (no.12), flat (no.13), mounting pin (no.14) and manual (optionally the connection set)
Carton 2: flame tube with a cover (no.4), roof (no.2), 6 sleeves fi14mm (no.3), and 3 wing nuts (no.1)

The order of assembly:

- Remove the flame tube from Carton 2 with the cover (no.4) and unscrew the wing nuts (no.1)
- Remove the visor (no.2), and three sleeves (no.3), leave the remaining three on the screws
- Remove the visor from Carton 1 (no.12) and place it on the screws with sleeves (no.3) on the flame pipe with a cover (no.4), place the remaining three sleeves (no.3) and the visor (no.2), and tighten them with the wing nuts (no.1)
- Remove the bottom of the radiator from Carton 1 – body with the cover (no.5)
- Screw the legs to the base (no.9) (no.10) which are included in the packaging. Please note that in case of uneven surfaces you should adjust the level by loosening or tightening the legs (no.10)
- Fasten the heater to the ground (no.13 and 14)
- Apply the flame tube with the mounted cap on the flange of the bottom of the radiator (no.6 on no.7) and tighten with the socket screws (no.8) using the Allen key attached to the packaging
- Once again check the stability of the radiator adjusting the feet (no.10)

Components of the radiator:

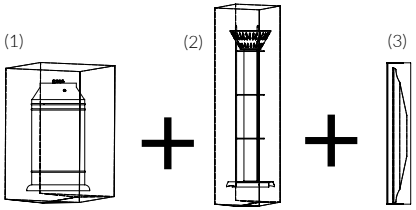


2. ETNA

Technical specifications:

model	Etna 30	Etna 37	Etna 50
device category	I3B/P	I3B/P	I3B/P
gas type	Propane Butane	Propane Butane PLBP	Propane Butane
pressure	30mbar	37 mbar	50 mbar
power	10kW	11 kW	10 kW
gas consumption	0,7kg/h	0,77 kg/h	0,72 kg/h
max cable length	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)
working pressure	30mbar BG, CY, CZ, DK, EE, FI, GR, HU, HR, IT, LT, LV, MT, NL, NO, RO, SE, SI, SK, TR,	37 mbar PL	50 mbar AU DE
nozzle	1,53	1,53	1,00

Way of packing – 3 cartons:



Carton 1: the body with the guard and with the base (no.5 and 9), Allen screws M 5 mm - 3 pcs. - (no.8), legs (no.10) and manual (optionally the connection kit)

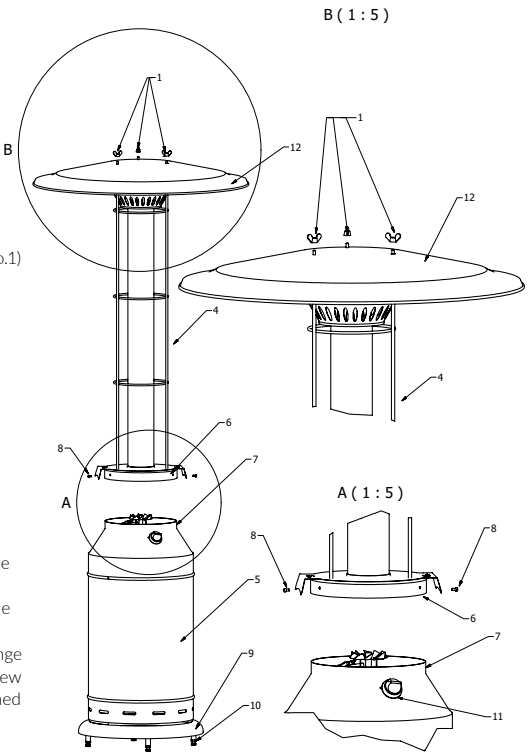
Carton 2: flame tube with a cover (no.4), and 3 wing nuts (no.1)

Carton 3: roof mounted on the flame tube (no.12)

The order of assembly:

- Remove the flame tube from Carton 2 with the guard (no.4) and loosen the wing nuts (no.1)
- Remove the cap from Carton 3 (no.12) and place it on the flame tube with the cover (no.4), and tighten it with wing nuts (no.1)
- Remove the radiator's bottom from Carton (1) – body with the cover (no.5)
- Screw the legs to the base (no.9) (no.10) included in the packaging. Please note that in case of uneven surfaces you should adjust the level by loosening or tightening the legs (no.10)
- Apply the flame tube with the mounted cap on the flange of the bottom part of the radiator (no.6 on no.7) and screw with the Allen screws (no.8) using the Allen screw attached to the packaging
- Once again check the stability of the radiator adjusting the legs (no.10)

Components of the radiator:

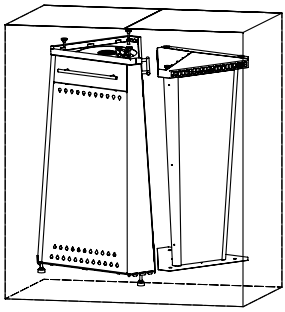


3. HELENA

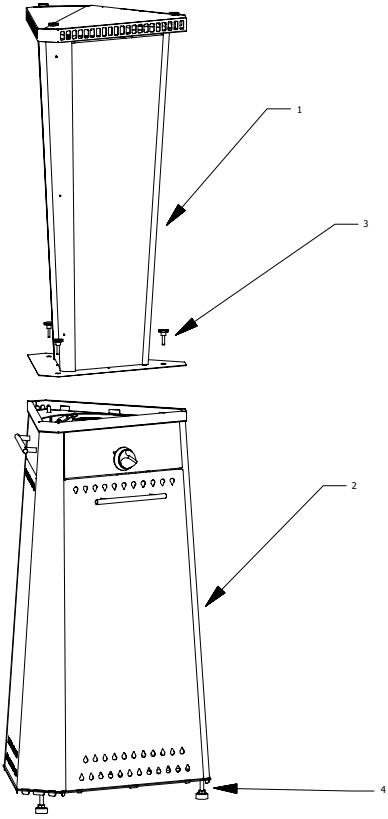
Technical specifications:

model	Helena 30	Helena 37	Helena 50
device category	I3B/P	I3B/P	I3B/P
gas type	Propane Butane	Propane Butane PLBP	Propane Butane
pressure	30mbar	37 mbar	50 mbar
power	5,0 kW	6 kW	5,5 kW
gas consumption	0,37kg/h	0,41 kg/h	0,38 kg/h
max cable length	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)
working pressure	30mbar BG, CY, CZ, DK, EE, FI, GR, HU, HR, IT, LT, LV, MT, NL, NO, RO, SE, SI, SK, TR,	37 mbar PL	50 mbar AU DE
nozzle	1,10	1,10	1,0

Method of packaging – 1 carton:



Components of the radiator:



The order of assembly:

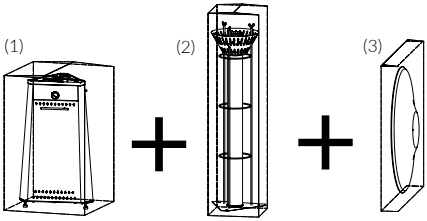
- Remove the flame tube from Carton 1 with a cover (no. 1).
- Remove the bottom of the radiator from carton 1 – body with the cover (no.2).
- Screw the legs to the base (no.4) included in the packaging. Please note that in case of uneven surfaces you should adjust the level by loosening or tightening the legs (no.4).
- Apply the flame tube with the cap on the bottom part of the radiator and tighten with three supplied screws.
- Once again check the stability of the radiator adjusting the legs (no.4).

4. HEKLA

Technical specifications:

model	Hekla 30	Hekla 37	Hekla50
device category	I3B/P	I3B/P	I3B/P
gas type	Propane Butane	Propane Butane PLBP	Propane Butane
pressure	30mbar	37 mbar	50 mbar
power	10kW	11 kW	10 kW
gas consumption	0,7kg/h	0,77 kg/h	0,72 kg/h
max cable length	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)	1,5 mb (40/10 bar ø10)
working pressure	30mbar BG, CY, CZ, DK, EE, FI, GR, HU, HR, IT, LT, LV, MT, NL, NO, RO, SE, SI, SK, TR,	37 mbar PL	50 mbar AU DE
nozzle	1,53	1,53	1,00

Method of packaging – 3 cartons:

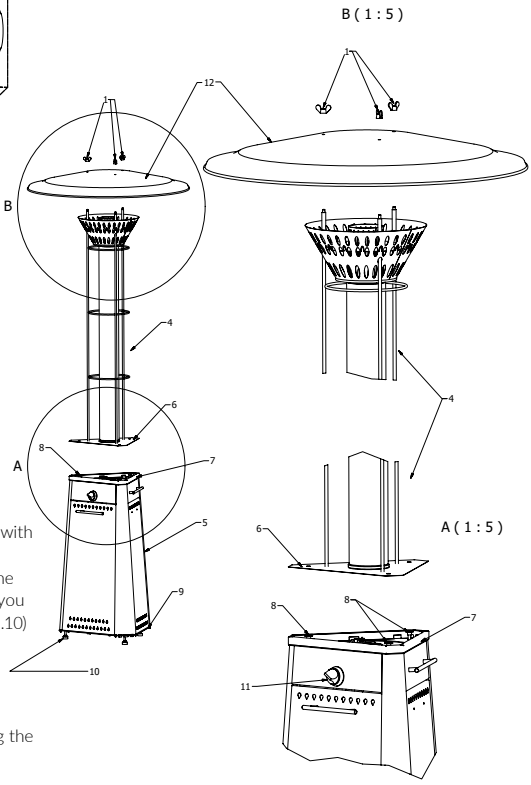


Carton 1: the body with the guard and with the base (no.5 and 9), Allen screws M 5 mm - 3 pcs. - (no.8), legs (no.10) and manual (optionally the connection kit)

Carton 2: flame tube with a cover (no.4), and 3 wing nuts (no.1)

Carton 3: roof mounted on the flame tube (no.12)

Components of the radiator:



The order of assembly:

- Remove the flame tube from Carton 2 with the guard (no.4) and loosen the wing nuts (no.1)
- Remove the cap from Carton 3 (no.12) and place it on the flame tube with the cover (no.4), and tighten it with wing nuts (no.1)
- Remove the radiator's bottom from Carton (1) – body with the cover (no.5)
- Screw the legs to the base (no.9) (no.10) included in the packaging. Please note that in case of uneven surfaces you should adjust the level by loosening or tightening the legs (no.10)
- Apply the flame tube with the mounted cap on the flange of the bottom part of the radiator (no.6 on no.7) and screw with the Allen screws (no.8) using the Allen screw attached to the packaging
- Once again check the stability of the radiator adjusting the legs (no.10)

SAFETY RULES

Follow all operating rules presented in the introduction to the manual.

- All operations with the radiator should be performed with the burner off, after the radiator cools off.
- Exchange of the cylinder and the vent of the gas system of the radiator should be performed only in the open space, away from sources of fire.
- During work, some part of the radiator get really hot, and in particular: the glass tube, reflector, safety net, upper band of peaks an deflectors. Touching these parts during the work and up to 10 minutes after switching the burner off can cause burns or the ignition of the flammable materials in contact with these parts.
- Each time after the exchange of the gas bottle you should check the tightness of the has hose connection to the burner, reducer and cylinder. Before connecting visually check whether the connection set is not damaged. **It is recommended to replace the hose with a new one at least once a year.**
- The radiator during operation should be mounted to a flat, stable surface providing adequate distance from any materials with flammability characteristics or which can, under the influence of heat, get damaged (deformation, sintering, melting). The minimum distance from each side of the radiator from elements made of these materials should be at least 1,2 metres. When operating the radiator under a roof, or in built-up areas, you should provide sufficient ventilation (at least 20% of the open volume).
- The radiator should be operated by adults, who are familiar with the operation manual. The radiator should be protected from the reach of children and animals.
- The radiator used in an open space should be secured against adverse weather conditions. You should not use the radiator in strong wind and during rain or snow.
- Although the tube is made from high-silica borosilicate glass, in direct contact of the heated glass tube with water there is a risk that the stresses will cause the formation of cracks or splash of glass. In this case there is a danger of injury to persons in the vicinity.
- When operating under the open roof (umbrellas), when the burner is set in the position (3) LOW their height should not be smaller than 2,5 m (during the operation you should control the heating of the roof).
- Do not use the radiator near the accumulated combustible materials.
- In case of stating any damage to the radiator, and especially the malfunction of the burner, breakage of the glass tube or feeling the characteristic smell of gas, you should immediately turn the radiator off, twist and disconnect the gas cylinder.
- In this case, you should wait until the radiator cools down and perform the corrective actions specified in the section “Troubleshooting” , or contact with the manufacturer’s service.

MAINTENANCE AND CLEANING OF RADIATORS

Before each use of the radiator, thoroughly check the entire gas installation (connection set, controller, burner candle, burner, etc.) to detect any damage or leaks.

Make sure the gas bottle has a gasket at the valve.

If the heater is not used for a long time protect, it from weather conditions. We recommend buying radiator covers in our online shop: **sklep.vulkan.com.pl**

To clean the radiators, use agents available on the market dedicated to maintenance of stainless steel. In the case where the coating has been damaged and stained, and simple maintenance is not effective, use of special agents on the basis of a weak solution of oxalic acid or phosphoric acid. After use of chemical preparations, cleaned surfaces should always be washed with plenty of water and after drying - a preservative used.

THE MOST COMMON FAULTS AND THEIR REPAIR

The burner's candle does not light up	• check that the cylinder's valve is turned • vent the gas system with the burner (see: Valve operation) • check if the knob is not based on the body preventing the excitation of the spark
The gas smell is noticeable	• check the tightness of the connection set using the foaming agent (e.g. water with soap) • check if the seal of the cylinder is not damaged
The radiator starts up but goes out after a while	• check whether the burner does not protrude beyond the edge of the radiator's body

CUSTOMER SUPPORT AND SERVICE:

All questions, concerning the repair, maintenance and service of the purchased product, and access to spare parts please refer to the company Komin-Flex Sp. z o.o. based in Pszczyna ul. Górnośląska 1.
E-mail: vulkan@kominflex.com.pl, tel. 032 210 11 44 ext. 38 or 40, mobile phone +48 739 252 008.

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WARRANTY CARD

Terms and Conditions of Warranty:

1. Komin-Flex provides warranty for VULKAN terrace radiators forthe period of 2 years.
2. The warranty is provided for the VULKAN brand radiators with the exception of the connection fittings, ie a low pressure controller with a hose which is not included in the set (additional offer).
3. During the warranty period, the user is entitled to free repairs caused by the fault of the manufacturer.
4. The warranty does not cover defects resulting from improper assembly, repair, storage, transport, or operation not in accordance with the operating instructions.
5. The buyer is entitled to exchange for a product or return of cash in the event of a factory defect that cannot be removed.
6. Warranty service does cover any maintenance activities, including those resulting from improper fuel quality.
7. For proper operation of the VULKAN terrace radiator it is necessary to maintain a periodic replacement of the connection set, ie the low pressure controller and the hose (it is recommended to exchange them once a year).
8. Failure to follow the installation instructions will void your warranty.
9. The territorial scope of the warranty protection is the territory of the Republic of Poland.
10. The manufacturer provides warranty on the basis of this warranty card, which is valid only with proof of purchase of the product.

NAME AND TYPE OF RADIATOR:

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USER DATA:

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NAME AND SURNAME / COMPANY NAME

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ADDRESS OF USE

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DATE AND SIGNATURE OF SELLER

The warranty card or rating plate located on the radiator is the basis for recognizing the complaint.
The warranty does not exclude, limit or suspend Buyer's rights, Resulting from the Consumer Rights Act dated May 30, 2014 (Journal of Laws of 2014, item 827) and CC.