

USER MANUAL INSTALLATION GUIDE

Installation Guide and User Manual

decoflame® built-in Bioethanol Burners with Safety Chamber

English



It is imperative that you read this manual before installing and using the product
Keep the manual in a safe place for future reference

English

Installation and User Guide for built-in decoflame® Bioethanol Burners with Safety Chamber

Issue January 2013

Congratulations on your new decoflame® bioethanol burner

IT IS IMPORTANT THAT YOU READ THE ENTIRE INSTALLATION AND OPERATING INSTRUCTIONS AND ADHERE TO THE SAFETY MEASURES DESCRIBED HEREIN – DECOFLAME CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGES CAUSED AS A RESULT OF NON-ADHERANCE TO THESE INSTRUCTIONS.

DECOFLAME IS NOT LIABLE FOR ANY INJURIES OR DAMAGES SUSTAINED THROUGH THE USE OF CUSTOM MADE, PRIVATELY DESIGNED OR COMMISSIONED FIREPLACE SETTINGS INCORPORATING A DECOFLAME® BURNER WITH SAFETY CHAMBER.

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SAFETY

Naturally, safety is imperative dealing with open fire. All decoflame® burners are intelligently engineered, manufactured and quality-tested in Denmark with highest product safety and user-friendliness in mind. The unique and design-protected decoflame® burner which is thoroughly tested and its closing mechanism manually adjusted prior to leaving the production line. **The decoflame® burner must not be used without its matching safety chamber!**

Please strictly adhere at all times to all safety measures described in this manual.

POSITIONING

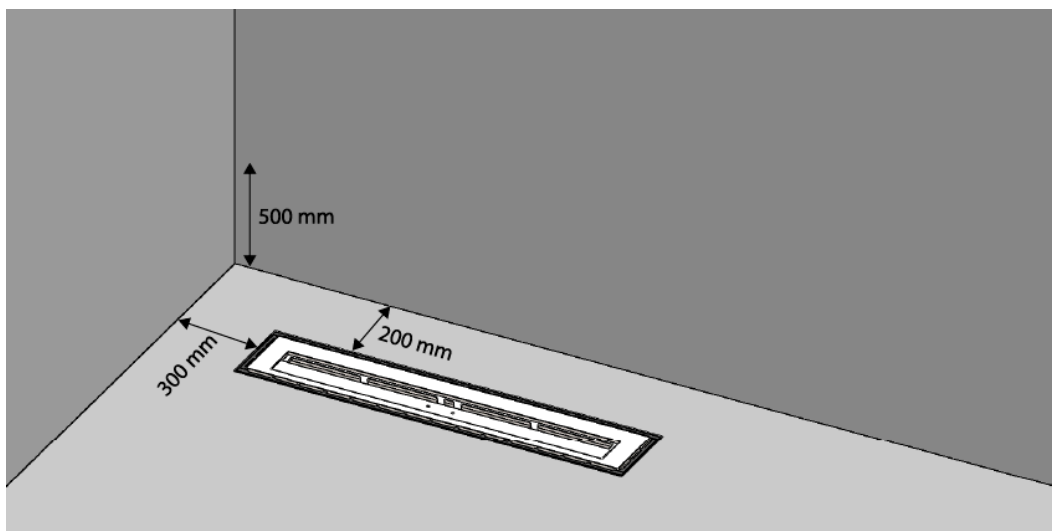
Make sure that position your decoflame[®] burner within its safety chamber in a safe place, which means a location which is not exposed to any draught, as bioethanol is a volatile fluid. In fact, only the vapour of the bioethanol is burning when lit. You should not touch the flames of the lit fireplace or blow into the flames, as this will cause the flames to escape from the fireplace and they will become uncontrollable. If the burner is exposed to draught, the flames lay down on the top of the burner which does not only make them invisible, but also leads an overheating of the burner resulting in an increased consumption of bioethanol and an undesired high combustion temperature. Should you experience such behaviour, you must change the setting of your fireplace application.

decoflame[®] built-in burners can be placed next to each other in one custom-made safety chamber which accommodates two or more burners in a row.

CLEARANCES

Make sure that you adhere to the following clearances when incorporating your decoflame[®] burner in your own fireplace creation:

<i>Above</i>	<i>Front</i>	<i>Rear</i>	<i>Sides</i>
600mm	200mm	200mm	300mm



You should also keep a distance of at least 30 cm (12 in) moving past the burner, as your movement may have an impact on the flames.

NB – We do not recommend to position TV screens or valuable paintings above the fire as the upwards drifting warm air might damage those. If you intend to do so anyway, please contact DecoFlame for advice.

Make sure that the cut-out into which you intend to place the decoflame[®] burner with safety chamber is perfectly in level and that your whole fireplace construction is made of non-flammable material.

When choosing a suitable height as position for your fireplace setting please also consider keeping it out of reach of smaller children and pets.

Do you have children or pets in the home? If so, make sure an adult keeps an eye on them at all times during operation of your fireplace and never leave your fireplace unattended when it is lit.

If in doubt, please contact DecoFlame.

MAINTENANCE

Decoflame recommends that you clean all parts of your burner frequently with a lint-free cloth or kitchen paper towel and a non-abrasive detergent, some bioethanol or another alcohol-based product. Alternatively you can use little sponge that you find packaged together with your decoflame® burner/s in order to brush up its surface.

INSTALLATION

Walls surrounding the decoflame® burner must be covered with non-inflammable materials like fibre plaster boards (e.g. Fermacell, GypRock Fireline) or bricks.

The surface onto which or the cut-out into which you wish to place the safety chamber with burner must be perfectly in level.

The cut-out dimensions must be 2mm wider and larger than the dimensions of the safety chamber. The walls of the cut-out may touch the metal of the safety chamber.

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Strictly adhere to the clearances mentioned on page 3.

Your decoflame® burner is **NOT** suited to be used with decorative refractory items like pebbles or logs.

OPERATING INSTRUCTIONS

ALWAYS light and extinguish your decoflame® burner in a safe manner. Only adults may light and extinguish the flames.

All decoflame® bioethanol burners are designed and manufactured exclusively for use with bioethanol of highest purity (96%). **DO NOT** use any other fuel or materials or bioethanol of inferior quality as this will void your warranty.

1. Purchase the bioethanol in a specialist shop or on www.decoflame.com for easy home delivery (available only in selected countries).
2. Open a bottle of bioethanol and fill the fuel into the burner opening up to the max. level indicator. You can use a funnel in order to avoid spilling. **DO NOT** overfill the burner! **DO NOT** light the burner in case you should have overfilled in accidentally (see Answers and Questions item 6).
3. Use a paper kitchen towel in order to wipe off any excess bioethanol from the burner and surrounding surfaces. Then, wash your hands thoroughly **BEFORE** lighting the bioethanol vapours.
4. Use a long fireplace match or a fireplace lighter to light the vapours.
5. Keep an appropriate distance when lighting the fireplace.
6. **DO NOT** smoke when filling the burner with bioethanol.
7. **DO NOT** – under any circumstances – refill the burner when it is in use or still hot from previous use.
8. If you wish to extinguish the fire before the burner is empty, please **ONLY** use the following method: using the handle of your burner pull the slider gently but in a continuous, decisive movement towards you until the burner opening is completely closed.
9. Ideally, you allow *all* of the bioethanol in the burner to be burnt. Should you extinguish the fire at a time when there is still bioethanol left in the burner, it is recommended that you wait until it is cooled down (takes around 15 – 20 minutes) and then fill up the burner once again as described under item 2. above before lighting it.
10. **DO NOT** place any inflammable materials or clothes in the vicinity of your burner. **DO NOT** place any pebbles or stones or other refractory decorative items on or around the burner

11. Ensure that the room in which the fireplace is situated is well ventilated at all times during operation of your fireplace without causing any draught.
12. If your installation foresees more than one decoflame[®] built-in burner placed next to each other in one custom-made safety chamber, you can only operate **ALL** burners together once you have filled them. If you wish to operate not all of the burners in your setting you must keep the ones you do not intend to light **EMPTY**.
13. **DO NOT** mix bioethanol with other fuels.
14. Always thoroughly follow the instructions on the packaging of the bioethanol.
15. Bioethanol is extremely flammable.
16. Avoid contact with eyes and skin.
17. We recommend that people with breathing problems or asthma consult their doctor prior to using a bioethanol fireplace.
18. Avoid draughts, as these will lead to overheating of the burner.

QUESTIONS AND ANSWERS

1. Where can I position the bioethanol burner?

Always safely placed in its safety chamber, you may position the decoflame[®] burner in non-flammable surroundings in any draught-free location, as no chimney or flue is required. For example, you could place it in your flat, house, holiday home – or in your office. Read the chapter POSITIONING and CLEARANCES for more details regarding this subject.

2. Is any kind of approval required?

Regulations and laws might vary though from country to country. Make sure you observe these regulations and laws before you use the fireplace.

3. What to consider when installing your decoflame[®] burner?

Decoflame recommends that the complete surroundings are constructed of fire resistant boards like Fermacell, GypRock Fireline or another **non**-inflammable material. Furthermore, it is important that the safety chamber and burner are positioned perfectly in level.

4. Is the burner ready for use after unpacking?

Yes, once you have placed it safely inside its safety chamber in accordance with the instructions given herein, the only thing you need to add is bioethanol.

5. What is the best way to light the burner?

Use long fireplace matches or fireplace lighters.

6. What should I do if I overfilled the burner?

Inside the burner/s you will notice a min. and max. level indicator. Always fill the burner to the max. level indicator. Should you accidentally overfill the burner, the access bioethanol will be caught in the safety chamber underneath the burner. **DO NOT** light the fireplace! Remove the burner from out of the safety chamber by reaching with your fingers inside the burner in order to get hold of it (it is advisable to wear rubber gloves). Empty part of the contents of the burner into a bucket (you can dispose of the bioethanol in your kitchen sink – it is only alcohol). Use kitchen paper in order to dry the contents of the safety chamber completely. Reposition the burner, place the lid on top. Once your hands are clean and dry, use a long lighter or match to light the fire.

7. Is bioethanol dangerous?

No, bioethanol is neither dangerous to humans nor the environment and it is biodegradable. Bioethanol is made of organic, sustainable and environmental-friendly raw materials such as corn, potatoes and sugar cane. During combustion, water vapour and carbon dioxide are created, which can even be beneficial to your indoor plants. Make sure that you keep the fuel in a safe place out of reach of children, as it is highly flammable.

8. Is it dangerous to inhale the gas that is developed during combustion?

When burning, bioethanol is dissolved into nothing else but water vapour and CO₂ (carbon dioxide). The amount of CO₂ which is released corresponds to the one of 2 stearine candles of medium size. As the combustion temperature of your bioethanol fireplace lies below 400°C, no other harmful substances are released during

combustion. Always make sure that the room in which the fireplace is situated is well ventilated (without causing a draught) in order to ensure a sufficiently high level of oxygen during operation of the fireplace – as fire consumes oxygen. Always consult your doctor prior to using a bioethanol fireplace in case you have problems with your respiratory system (asthma etc).

9. In which quantities is bioethanol supplied?

decoflame[®] bioethanol is supplied in plastic containers of 1 to 4 litres. In order to facilitate filling of the burner you should fill a smaller container with bioethanol and use a funnel for pouring the liquid into the burner.

10. What is the burning duration of one litre of bioethanol?

Between 2-4 hours, depending on the size of the burner/s, the room ventilation and setting of the flame intensity.

11. Does the fireplace give off much heat when in use?

The heat efficiency of the decoflame[®] burners varies (see chapter Dimensions, Volume and Heat Output). However, our burners are designed mainly for decorative purposes - they should only be considered as *supplement* to any primary heating system.

12. Can paper and wood be used as fuels on the decoflame[®] fireplace?

No, you may *only* use bioethanol of at least 96% but max. 97.5% purity in the burner.

13. How can the flame be extinguished when the burner is lit?

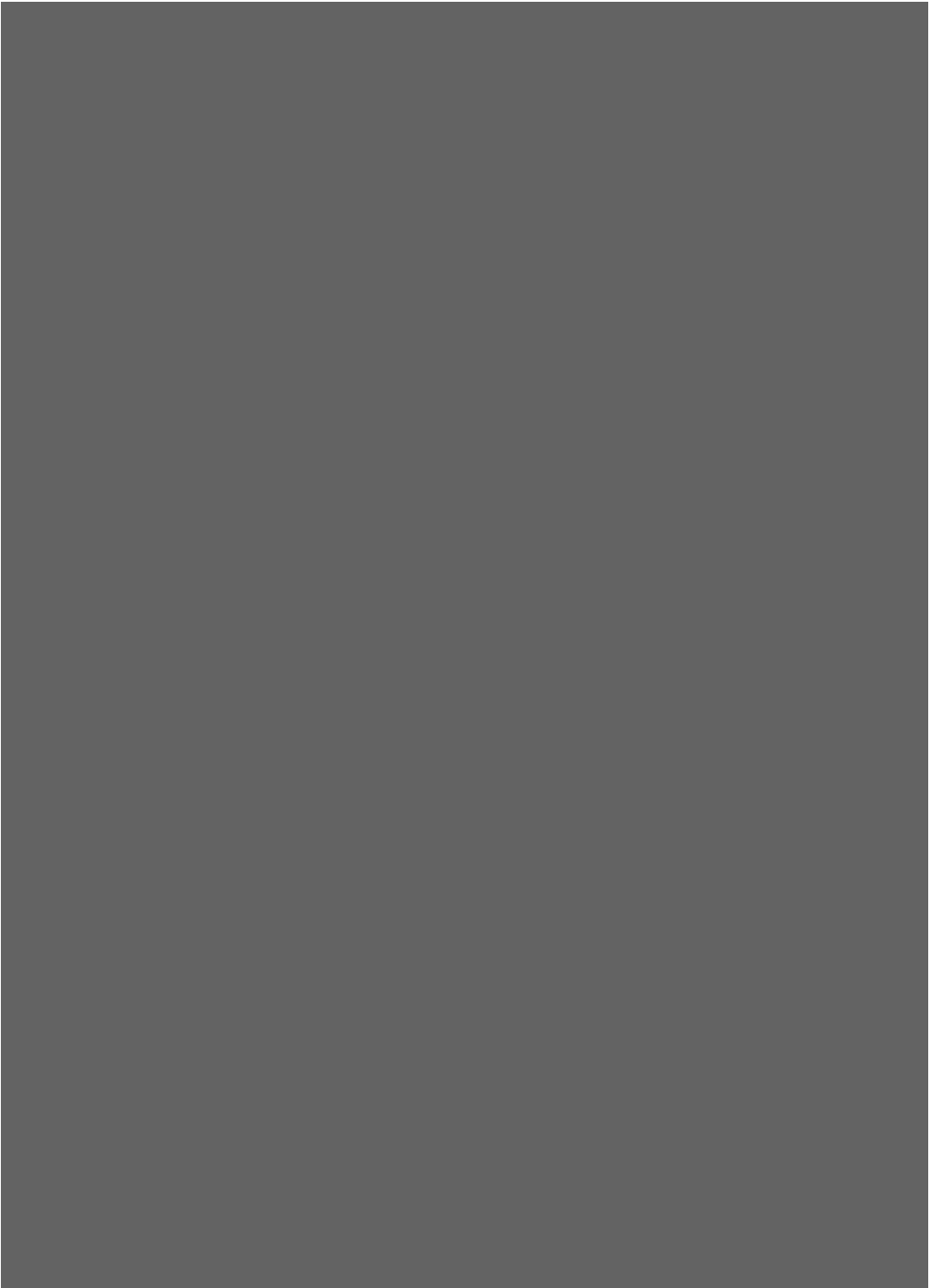
Ideally, you allow *all* of the bioethanol in the burner to be burnt. Should you extinguish the fire at a time when there is still bioethanol left in the burner, please **ONLY** use the following method: Using its handle pull the slider on top of the burner gently but in a continuous, decisive movement towards you until the burner opening is closed.

14. Can the burner be used in a room of any size?

Generally the relation between heat efficiency and minimum room volume can be set to 1:20. This means that a 2kW/h fireplace requires a minimum 40m³ room volume.

DIMENSIONS, VOLUME AND HEAT OUTPUT

Burner width mm	Safety Chamber widthxdepthxheight mm	Volume litres	max. Heat Output kW/h	min. Room Volume m³
400	425x125x79.5	1.8	3.0	60
500	525x125x79.5	2.3	3.8	76
600	625x125x79.5	2.8	4.5	90
700	725x125x79.5	4.0	6.8	136
800	825x125x79.5	4.8	7.5	150
1000	1025x125x79.5	5.9	8.2	164



For more info please visit www.decoflame.com

or contact DecoFlame at info@decoflame.dk