

Directions for installation and use

Product	Dancing Flames
Models	Dancing Flames 120 Dancing Flames 150 Dancing Flames 200
Product group	Open gas fires
Version	2007-12
Language	English

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Preface

Congratulations on the purchase of your Kal-fire fireplace.

This manual describes the installation, daily use and maintenance of all fireplaces from the Kal-fire series. Read this manual carefully before installing and using the fireplace.

Always keep this manual close to your fireplace

The Kal-fire fireplace must be built-in by an authorized installer, according to prevailing national or local standards. At delivery check the fireplace for possible transport damage. Any damage should be immediately reported to the supplier. The supplier takes no responsibility for any possible damage as a result of incorrect installation.

In the event of problems or if you have any questions regarding the operation of your fireplace, please do not hesitate to contact your dealer. Your dealer is your contact person during the warranty period.

Kal-fire has a special telephone number for technical support for dealers, so your dealer can always provide professional advice.

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1 Installation instructions

Prior to connecting the gas fireplace, please carefully observe the following instructions:

- Connection of this gas fireplace must be carried out exclusively by a registered installer and this in accordance with the national and/or local regulations. Before installing the appliance, gas facilities have to be constructed in accordance with the regulations. Construction of draught-controls and air supply devices should be carried out in accordance with the current regional regulations
- Protective devices fitted in the fireplace and gas control unit may never be switched off in case of a failure, nor may these be bypassed or altered. Before completion of the appliance, your installer has to check its correct functioning. Factory-set protective devices may never be altered.
- It is compulsory to check draught by means of a flue gas test.



1.1 Flue facilities.

Dancing Flames appliances can operate on natural draught. Therefore, however, the flue should meet a number of requirements (see 1.1.2). If these requirements are not met, the Dancing Flames will have to be connected to a chimney fan. Next, you will find a description of two different situations.

1.1.1 *Dancing Flames with chimney fan*

Almost all new houses are fitted with mechanical ventilation, due to the fact that government sets high requirements to insulation of a house. In a well-insulated house, however, but little outside air can



Picture 1 : Chimney fan

enter, so it has to be forced inside over a mechanical ventilation system. Connecting a fireplace creates an opening to the outside. As a consequence, the power of the mechanical ventilation system will become larger than the power of natural draught, drawing in flue gases from the outside instead of blowing them out of the room. The chimney fan will see to it that flue gases are always removed. For that reason, the fans are equipped with a pressure fail-safe system. In cooperation with Exhausto brand, Kal-Fire has developed a system, in

which everything is integrated. As soon as the fireplace is lit, everything is automatically controlled and monitored over the system's electronics. There is no separate remote control for the chimney fan (Exhausto RSVG) and the fireplace.

In naturally ventilated houses, this problem does not occur. In many a case there is negative pressure in the house, created by the wind blowing around the houses. When there is an under-pressure in the house, air is led from the outside to the inside. The flue duct should then be constructed in such a way that it will provide a larger draught than the negative pressure within the house. Next, you will find the requirements to be met by the chimney

1.1.2 Dancing Flames without chimney fan

For naturally ventilated housed, no chimney fan is necessary in some cases. Next, you will find the different types of appliances with their specific requirements.

Dancing Flames 200.

Chimney should have a length of at least 6 meters with a diameter of 250 mm. With a height of 6 meters, no change in directions may occur. This will enhance resistance within the duct and reduces draught.

Dancing Flames 150 with a height of 35 cm.

Chimney should have a length of at least 6 meters with a diameter of 250 mm. With a height of 6 meters, no change in directions may occur. This will enhance resistance within the duct and reduces draught.

Dancing Flames 150 with a height of 28 cm.

Chimney should have a length of at least 4 meters with a diameter of 200 mm. With a height of 4 meters, no change in directions may occur. This will enhance resistance within the duct and reduces draught.

Dancing Flames 120 with a height of 28 and 35 cm

Chimney should have a length of at least 4 meters with a diameter of 200 mm. With a height of 4 meters, no change in directions may occur. This will enhance resistance within the duct and reduces draught.

In every situation, a flue gas test should be done! A house can be located in a windy area or in the middle of a town. For that reason the wind situation is different in all circumstances, leading to higher or lower negative pressure.

1.2 Facilities for fresh air supply

For each gas-fuelled appliance, it is compulsory to provide for a fresh air supply facility. Open gas fires do consume a lot of air.

In order to combust 1m³ of gas, 11m³ air is needed. There should also be an overmeasure of air, since a perfect combustion can only exist in a high yield boiler. The final air supply should thus be much higher.



For the exact supply in combustion air, we refer to national and local regulations in force, which depend upon the appliance's gas output.

Dancing Flames 200.

Air supply 3 connections of 150.

Dancing Flames 150 with a height of 35 cm.

Air supply 3 connections of 150

Dancing Flames 150 with a height of 28 cm.

Air supply 2 connections of 150

Dancing Flames 120 with a height of 28 and 35 cm

Air supply 2 connections of 150

The Dancing Flames 200 has more connections than indicated above. Three of them can be used and the others should be blocked with non-combustible material (superwool).

1.3 Technical data

1.3.1 *Dancing Flames 120*

Model	NL	BE/FR	DE	AT/CH/GB/IT	Propane
Type	B11AS	B11AS	B11AS	B11AS	B11AS
Gas / P	G25 / 25 mbar	G20 / 20 mbar	G20 / 20 mbar	G20 / 20 mbar	G31/37 mbar
Gascat.	I2L	I2E+	I2ELL	I2H	I3P
Input	13 kW	13 kW	13 kW	13 kW	12,2 kW
Max/min	1,5/0,54 m3/h	1,37/0,58 m3/h	1,37/0,58 m3/h	1,37/0,58 m3/h	0,5 m3/h
Burner pressure	23,9 mbar	18,7 mbar	18,7 mbar	18,7 mbar	34,4 mbar

1.3.2 *Dancing Flames 150*

Model	NL	BE/FR	DE	AT/CH/GB/IT	Propane
Type	B11AS	B11AS	B11AS	B11AS	B11AS
Gas / P	G25 / 25 mbar	G20 / 20 mbar	G20 / 20 mbar	G20 / 20 mbar	G31/37 mbar
Gascat.	I2L	I2E+	I2ELL	I2H	I3P
Input	13,5 kW	14,5 kW	14,5 kW	14,5 kW	14,6kW
Max/min	1,7/0,57 m3/h	1,5/0,62 m3/h	01,5/0,62 m3/h	01,5/0,62 m3/h	0,6 m3/h
Burner pressure	23,6 mbar	18,6 mbar	18,6 mbar	18,6 mbar	33,5 mbar

1.3.3 *Dancing Flames 200*

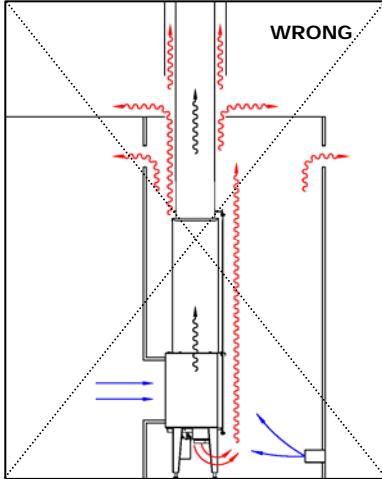
Model	NL	BE/FR	DE	AT/CH/GB/IT	Propane
Type	B11AS	B11AS	B11AS	B11AS	B11AS
Gas / P	G25 / 25 mbar	G20 / 20 mbar	G20 / 20 mbar	G20 / 20 mbar	G31/37 mbar
Gascat.	I2L	I2E+	I2ELL	I2H	I3P
Input / output	18,2 kW	19,8 kW	19,8 kW	19,8 kW	17,8 kW
Max/min	2,2/0,59 m3/h	2,0/0,65 m3/h	2,0/0,65 m3/h	2,0/0,65 m3/h	0,73 m3/h
Burner pressure	14,1 mbar	11,3 mbar	11,3 mbar	11,3 mbar	34,8 mbar

2 Assembly instruction

2.1 Technical assembly

The firebox opening into which the Dancing Flames will be mounted must be made out of heat resistant material and have such dimensions that expansion of the steel construction is warranted. Make sure that no air currents can be created alongside the fire appliance. Take heed of the following drawings in order to avoid any problems.

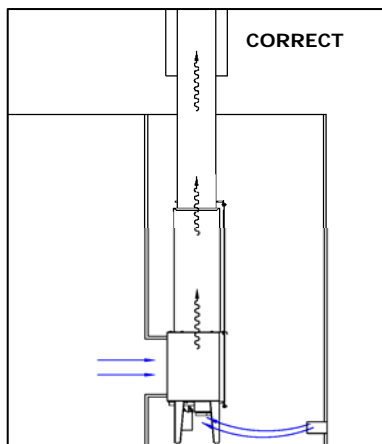
Negative pressure underneath the fire



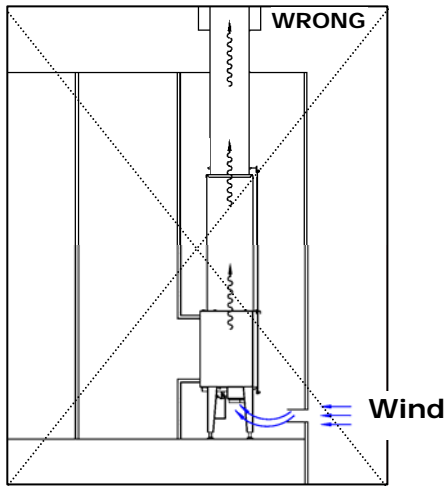
In this situation, which is incorrect, draught underneath the fire is so large, that the flames are drawn downwards.

Make sure that air currents cannot flow elsewhere than into the chimney. Not sealing off a compartment well, will enable warm air to rise and create negative pressure.

When using a flexible flue tube in an existing one, it should be sealed off well, if not, the existing flue tube will act as air discharge, creating negative pressure.

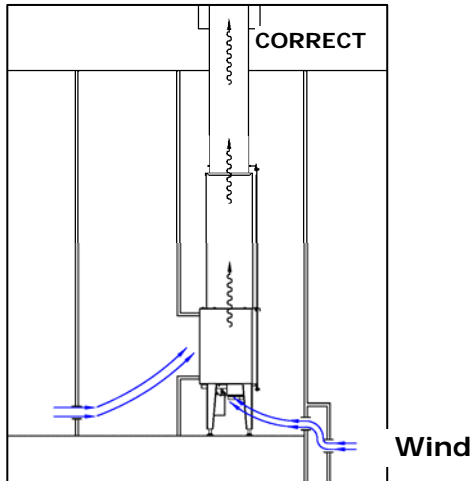


In this correct situation, fresh air has to rise along the backside of the burner. In this way, negative pressure underneath the burner can never occur and electronics will be well cooled off.

Too much overpressure underneath the fire

A Dancing Flames always needs a lot of ballast air. When a room is very small, the Dancing Flames will draw in all its air via the opening behind the burner. This will result into a cutting torch effect.

When the wind is situated straight onto the air intake, this may cause an overpressure.



When the room is not able to provide for sufficient ballast air, a passage to another room should be created by means of a grid

In order to limit wind loads, a fence can be placed so that there is no direct contact between wind and air intake.

2.2 Flue gas regulator control

The Dancing Flames is fitted with a flue gas regulator safety. When the flue gas regulator is closed – in connection with draught – the fire will automatically go out, the lever is in its lower position. If not, flue gasses can enter the room. The Flue gas regulator control is mounted as follows:

1




Remove packaging and inspect all parts for damage. The lever for the flue gas regulator is screwed down

2



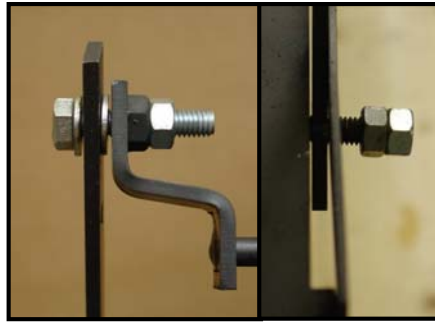
Put the hood on the appliance and fix it with the screws contained in the package.

3



Mount the lever between the guiding

4



Mount the lever as indicated in the pictures. Do not fully fasten the screws but use a second bolt to secure the connection. Make sure the lever keeps on hinging.

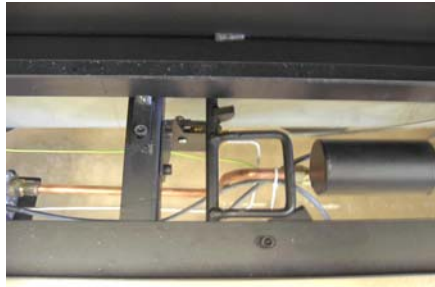
MIND when mounting there should be sufficient space left between the backside of the appliance and the wall so that the flue gas regulator control can function smoothly

5



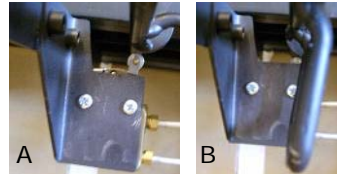
Open the service panel to the right hand inner side of the fireplace

6



Check whether the flue gas regulator functions properly before building in the appliance. If needed, lubricate guiding with temperature resistant lubricant (copper fat).

7



- A. Lever horizontal: flue gas regulator open and Dancing Flames in operatingmode.
- B. Lever vertical: flue gas regulator closed.

2.3 Gas connection

The Dancing Flames is as a standard always delivered with a radiographic gas control unit with remote control. This must be connected by an authorised installer.

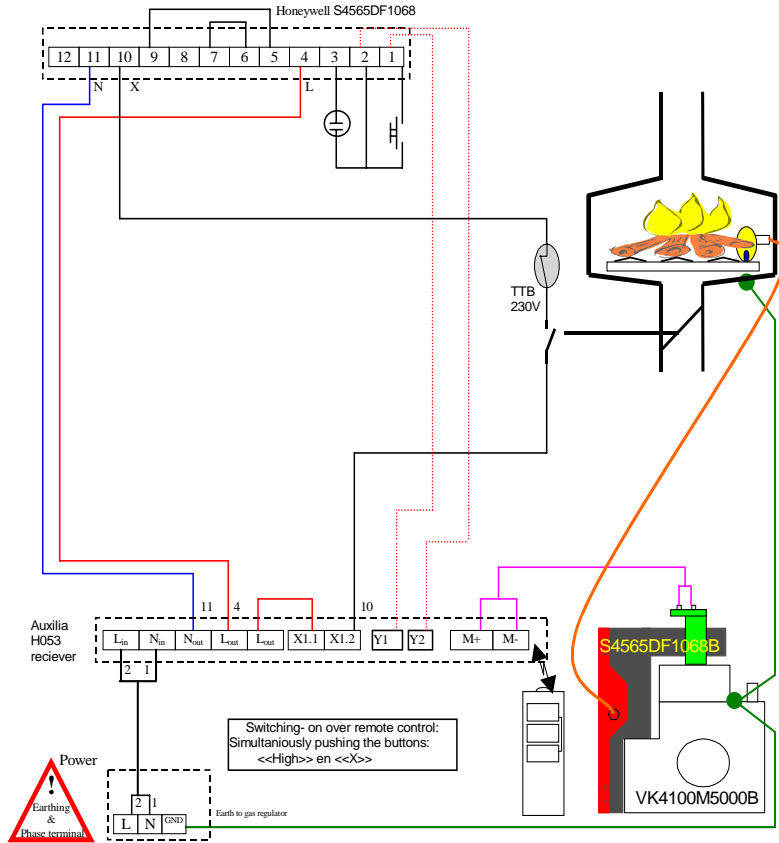
- Test leak-tightness of the system by means of soapsuds or leakage testing spray.
- Check if draught is sufficient, 10 minutes after cold start. This should be done by means of the flue gas test. Close doors and windows, since they favourably influence draught.

2.4 Electrical connection without chimney fan

connect the remote control to an earthed socket and check its operation. If the ignition keeps on sparking despite a clearly visible pilot flame, you must turn around the plug due to the phase sensitiveness of the ionisation protection. When closing the flue gas regulator, the fire should extinguish automatically

Standard connection without chimney fan

- With thermal reflux safety cut-out (option)
- With controlled ventilation regulator (option)

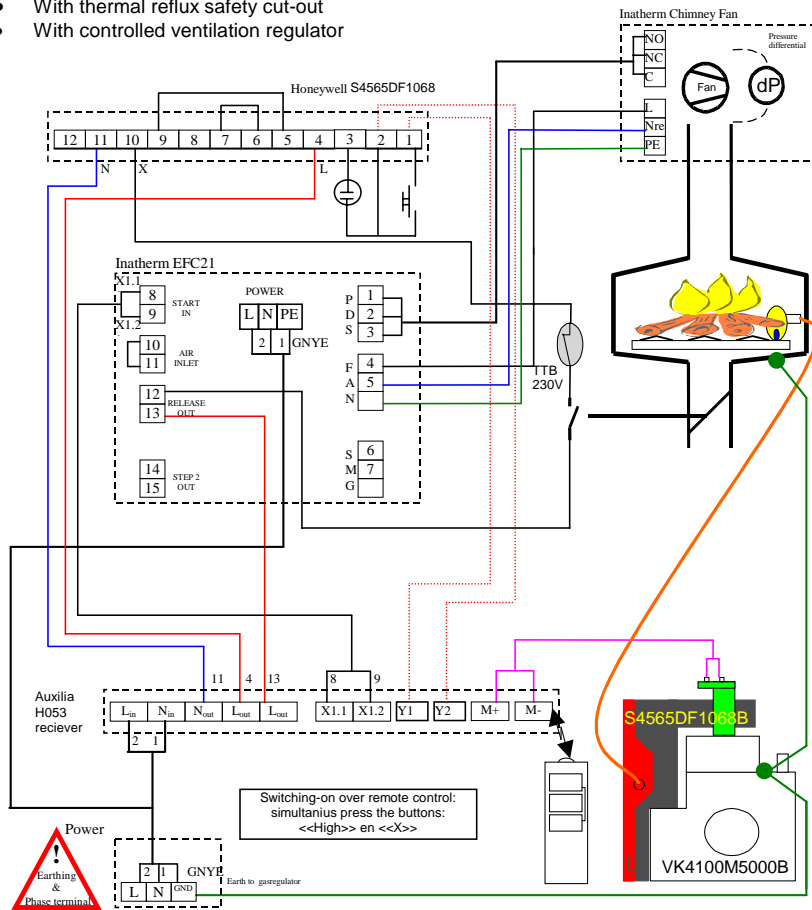


2.5 Electrical connection with chimney fan

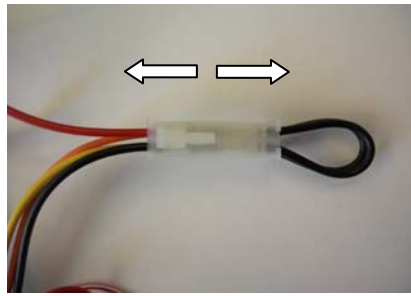
The Dancing Flames is as a standard delivered with a connection without fan. Every Dancing Flames however comes with a conversion kit for making it appropriate for connection to an Exhausto RSVG fan. For this purpose, change the layout of the previous page to this plan through changing the plug.

Connection diagram with Inatherm RSVG and EFC21 control unit

- With thermal reflux safety cut-out
- With controlled ventilation regulator

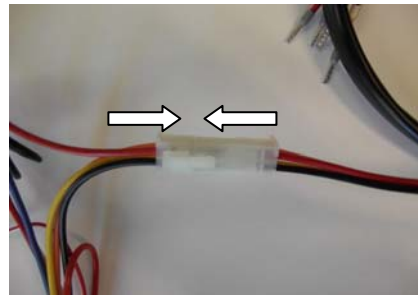


Step 1



Remove plug 1

Step 2



Insert the delivered plug onto the cable tree

Step 3

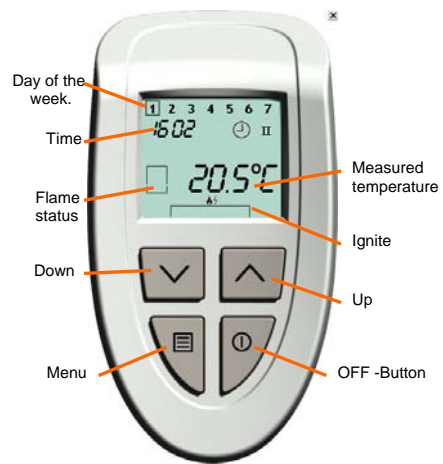


Connect the other four cables to the EFC 21/EFC 25.

3 Operating instruction





3.1 Operating the gasfire for the first time

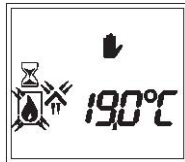
Place the batteries in the hand transmitter (see chapter 3.6). Place the plug in the socket and open the gas tap. When the remote control is activated for the first time, the electronics will check whether the poles are correct. If they are not in order, the symbol for a plug will appear on the display. The poles will then need to be changed. See chapter 5 on malfunctions. The RF remote control is provided with a display and four buttons. These are used for the simple operation of the decorative fireplace and to change the settings easily.



3.2 Igniting the gasfire

The fireplace must be turned on and off by hand.

The ignition will start to spark automatically when the buttons  and  are pressed in. The symbols  and  will flash to indicate that the fireplace has been ignited. This appliance is fitted with Intermittent Pilot (IP).





Once the gasfire has been ignited, it can be operated.

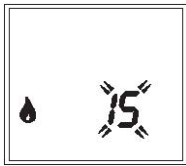
Press the button  once in order to select the **user menu**.





3.3 Manual with the flame height control


3.3.1 *Regulating the flame height*

When you have left the menu, the flame height can be regulated as follows.

Press in the  button or the  button completely. The display below will become visible.





The current set flame height will flash. Adjust the desired flame height using the buttons  and . Depending on the button pressed in, the symbol  or  will briefly be visible on the display. The flame height can be set to between 1 and 15.

Wait for several seconds or press the button  in order to leave the menu.

N.B.: The flame height can only be regulated when the fireplace is on.


3.3.2 *Switching off the fireplace*

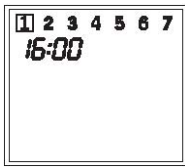
Press the  button once to switch off the decorative fireplace.






The symbol  will flash in order to indicate that the decorative fireplace is switched off. After the fireplace has been switched off, the start display will reappear.


3.4 Clock setting

When you want it is possible to set the clock and day in the hand transmitter. Follow this procedure to do so.



Press the  button several times until the display below appears.



The set time will flash. Set the correct time using the buttons  and . Press the  button. The days of the week will now flash. Select the day of the week using the buttons  and . The open block will now indicate which day has been selected.


Wait for several seconds or press the  button in order to leave the menu.

3.5 Resetting the appliance

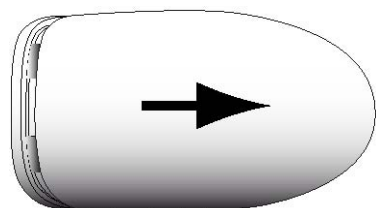
If a flame cannot be detected after sparking for 30 seconds, the automatic burner device will be secured by a locking mechanism. 'Reset' will then appear on the display. You can reset the automatic burner device by operating the buttons  and  on the remote control simultaneously. It is possible that this procedure may have to be repeated when used for the first time or following a lengthy period of disuse.

After the reset cycle of 30 seconds, the device will start itself or you can restart by pressing on the ON and OFF buttons simultaneously.

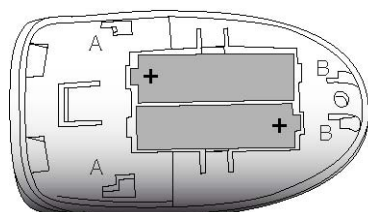
3.6 Replacing the batteries

Your RF remote control operates using two 'penlight' alkaline batteries (type AA). When the symbol  flashes on the display, the batteries will need to be replaced.

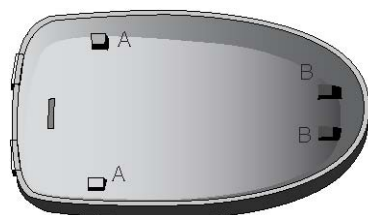
If the batteries are completely empty, nothing will appear on the display. For this reason, it is important to replace the RF remote control batteries in good time. The batteries are replaced as follows:



Remove the back panel of the RF remote control by sliding it down several millimetres and then lifting it up.



Remove the old batteries from the holder. Place the new batteries in the holder as indicated in the illustration adjacent.



Re-secure the back panel of the RF remote control by positioning the projections A and B of the back panel in the corresponding recesses of the housing.

The time and day of the week will have to be re-entered after the batteries have been replaced.

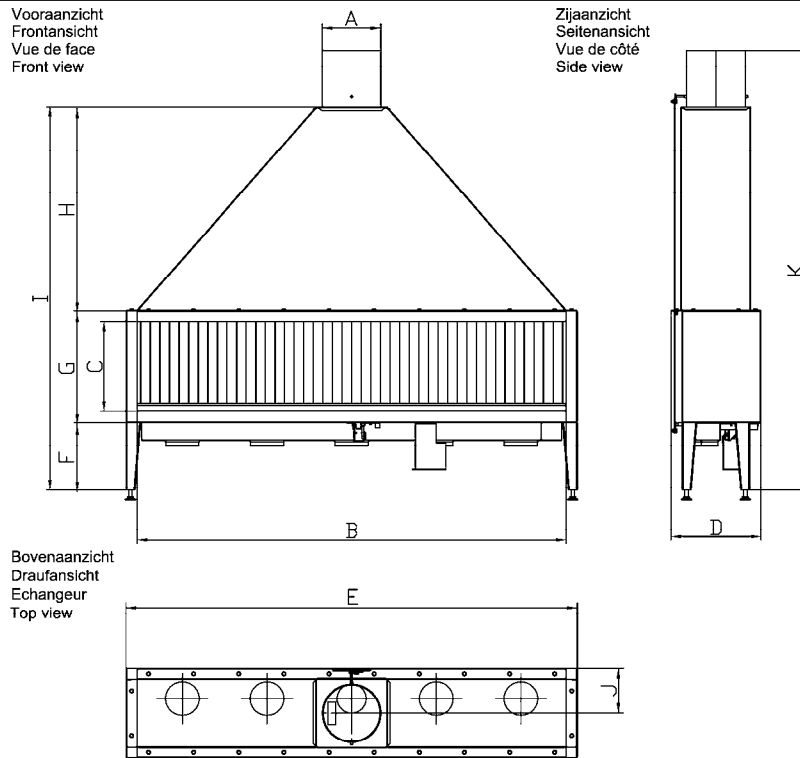
N.B.: Do not throw the batteries away but dispose of them responsibly.

Kal-fire-Dancing Flames

Maatblad/Massblatt/Fiche de mesures/measures **kal-fire** 

Vooranzicht
Frontansicht
Vue de face
Front view

Zijaanzicht
Seitenansicht
Vue de côté
Side view



Bovenaanzicht
Draufansicht
Echangeur
Top view

TYPE	A	B	C	D	E	F	G	H	I	J	K	NG	P
DF 120 / 28.5	200	1100	284	405	1200	300	384	278	962	160	1040	Yes	No
DF 120 / 35	200	1100	350	405	1200	300	450	450	1200	160	1280	Yes	Yes
DF 150 / 28.5	200	1400	284	405	1500	300	384	278	962	160	1040	Yes	No
DF 150 / 35	250	1400	350	405	1500	300	450	570	1320	185	1400	Yes	Yes
DF 200	250	1900	400	405	2000	300	500	905	1705	200	1955	Yes	Yes

Alle maten in mm. Maten onder voorbehoud / Alle Maße in mm. Massänderungen vorbehalten
Dimensions en mm. Sous réserve de modifications / Dimensions in MM. modifications preserved

5 Problems

Code	Meaning
0	Number of times that the supply voltage is switched on
1	The mains plug is not positioned correctly in the socket
2	The temperature in the decorative fireplace is too high
3	The internal space sensor of the decorative fireplace measures an invalid temperature
4	The external space sensor of the decorative fireplace measures an invalid temperature
5	The internal protection detects an error
6	There no longer any communication
7	The flame could not be detected on time
8	The automatic burner device reports an error and the flame could not be detected on time
9	Not in use
10	The automatic burner device reports an error when the pilot light is shorter than 30 minutes (type SP only)
11	The automatic burner device reports an error. The pilot light has been on for longer than 30 minutes (type SP only)
12	The automatic burner device reports an error although it has not been switched on yet
13	The automatic burner device reports an error although it is switched on
14	The automatic burner device reports an error although it is switched on and the 2nd relay has been released

6 Certificate of warranty

This certificate of warranty is only valid if presented together with the dated sales receipt.

Please keep these documents for any later use !

Name and address of the customer	
Customer	: _____
Street	: _____
Postal code	: _____

Model

Production number

Date of purchase
____ - ____ - ____

Name and address of installer - dealer	
Name	: _____
Street	: _____
Postal code	: _____

6.1 Warranty conditions

Kal-Fire products, which are covered by the present certificate of warranty, have been carefully manufactured in high-quality materials. Should there despite of this occur any failures or defects, the following warranty conditions will apply:

1. Before proceeding to the installation, the recognised installer will firstly persuade himself of the good quality and impeccable functioning of the flue gas discharge channel. Gas appliances should always be built in by a recognised installer according to the national and possibly regional applicable standards as well as according to the installation instructions as delivered together with the appliance.
2. For Kal-Fire gas appliances, the warranty is valid for a period of 1 year, starting from the date of purchase, which has to be clearly and unmistakably indicated on the sale invoice. Accompanying warranty registration card should be fully completed and returned to Kal-Fire B.V..
3. Should any failure due to manufacturing faults or fault in material occur during the period of guarantee, Kal-Fire B.V. will send a replacement part to the installer free of charge in substitution for the defective component, without compensation for assembly or disassembly. Transport costs are to your account.
4. If the installer is unable to repair the failure himself, he has the option, upon his express wish, to request the company Kal-Fire B.V. to do this, on the condition that it is within the BENELUX countries.
5. The whole appliance or parts of it can be sent in for verification or repair only after a previous consultation. These goods have to be accompanied by this filled out certificate of warranty as well as by the dated sales receipt.

6. For possible service at home by the company Kal-Fire (only within the BENELUX countries) during the period of guarantee, warranty documents (this page and the dated sales receipt) will always have to be shown.
7. In case of service at home out of the period of guarantee, the following costs will be charged: material costs, working hours and call out fees

6.2 The warranty does not apply in the following cases:

1. If the above-mentioned points have not been, or have only partially been met.
2. If any modification has been made to the appliances, without our knowledge.
3. If the owner of the appliance changes.
4. If the appliance has not been built in according to the installation instructions, or has not been used according to the operating instructions.
5. If the burner bed contains more artificial logs than prescribed or different ones.
6. If this certificate of warranty together with the dated sales receipt cannot be shown, or when it appears that the data on the sales receipt have been manipulated (date deleted, defaced, modified, etc...)

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