



BFH2E

heat flow



Installation & Control Guide for BFH2E

All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorised by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.

The correct electricity supply voltage is shown on the rating label attached to the appliance.

Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interests of progress the Company reserve the right to vary specifications from time to time without notice.

CUSTOMER HELPLINE

Should you need any advice on the use of your new Consort product please contact our Helpline:

Consort Equipment Products Limited

Thornton Industrial Estate, Milford Haven, Pembrokeshire, SA73 2RT

Tel: 01646 692172 Fax: 01646 695195 Email: technical@consortepl.com Web: www.consortepl.com

Operation hours: Mon to Thu 8.30am to 4.30pm | Fri 8.30am to 3.30pm

BS EN ISO 9001 Registered Company No FM12671

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Warnings

- **Do NOT install the heater directly above a power outlet.**
- **Do NOT site the heater in a corner.**
- **Do NOT handle the appliance with wet hands.**
- **Do NOT use the appliance in areas with excessive dust.**
- **Do NOT cover or restrict any aperture.**
- **Do NOT use the appliance if damaged.**
- **Do NOT leave the appliance unattended where young children are present.**
- **Do NOT touch the outlet grille when in use.**
- **ENSURE nothing flammable is below the heater.**
- **ENSURE nothing is pushed into any aperture.**

Cleaning

Always disconnect the heater from the mains before cleaning. The heater should not require any maintenance, but it is strongly advised that it is kept clean. An occasional wipe over with a soft cloth and using a vacuum cleaner to remove dust from apertures is all that should be necessary.

Safety and Care

The appliance is **NOT** intended for use by persons (including children) with reduced physical, sensory or mental capabilities, a lack of

experience or knowledge unless they have been given instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. Parts of the heater can become very hot and cause burns.

Overheating Protection

The heater is equipped with electronic overheat protection, which constantly monitors the heater's temperature. If for any reason this protection fails, there is a manual thermal cutout and built into the heater.

If this happens the thermal cut-out will switch off the appliance.

The appliance will not operate until the heater is disconnected from the mains supply and it has cooled down for at least 10 minutes.

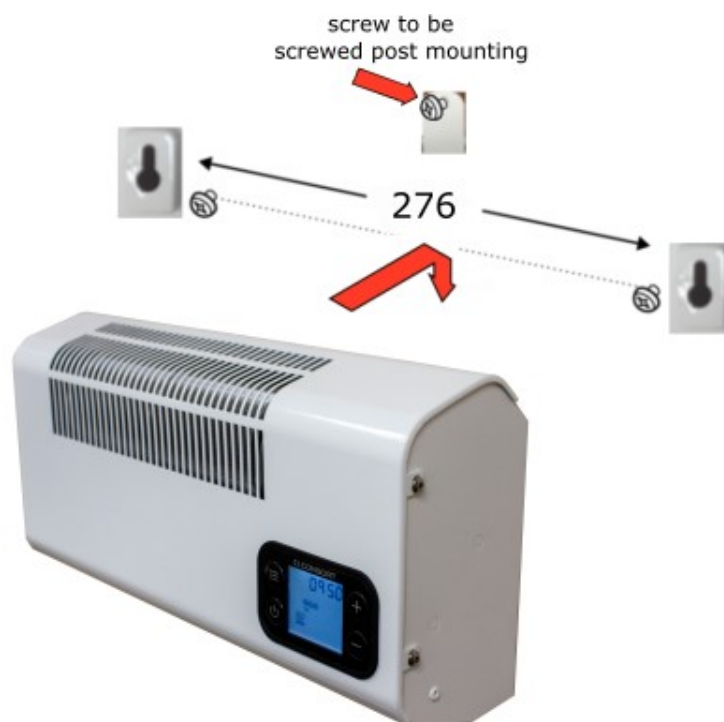
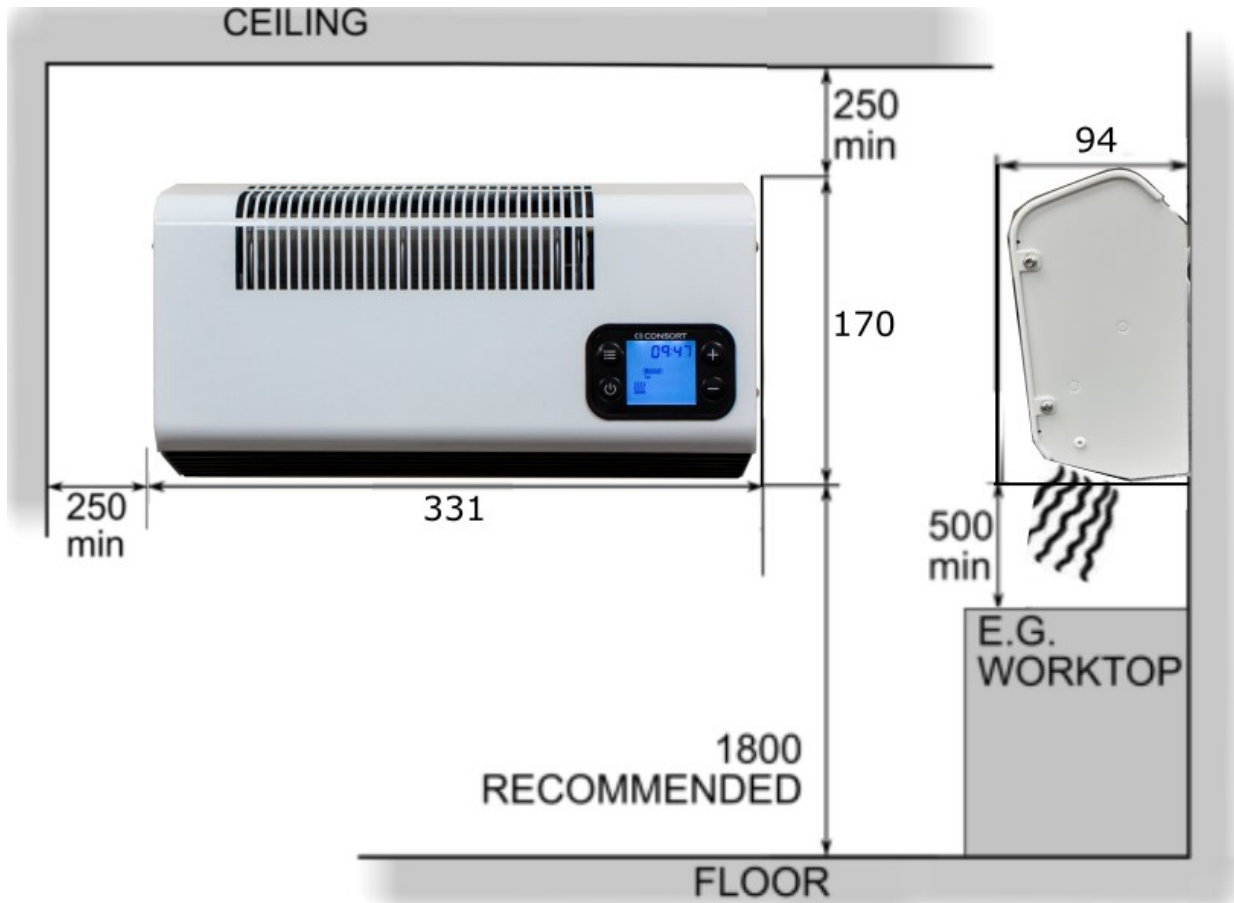
Installation

The heater must be wall mounted at a minimum height of 1m from the floor.

For the best performance the heater should be mounted at 1.8m from the floor. When installing the heater, the minimum clearances must be followed; 250mm from any corner or ceiling. To install the heater, mark the position of the 2 keyhole slots. Using suitable fixings, screw in 2 screws, leaving the heads 2mm from the wall. Hang the heater onto the screws. Mark the position of the top hole. Remove the heater and install a suitable fixing for the final screw. Install the heater using the 3 fixing points.

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Electrical Connections

Electrical installation should be carried out by a competent installer in accordance with the latest edition of the IEE Wiring Regulations, (BS.7671), and any relevant Local Authority Bye-Laws. **This heater must be permanently connected to the electricity supply via a double pole switch having 3mm gap on each pole. There are no exceptions.** A switched Fused Connection unit to BS.1363. Part 4 is a recommended mains supply connection accessory to ensure compliance with safety requirements applicable to fixed-wiring installation. Note: When switched on for the first time the appliance may emit a slight smell. This is purely the evaporation of a fluid used in the manufacturing process.

WARNING: This appliance must be earthed.

Heater Not Working

- Check that the screen is lit and power is available to the heater.
- Check that the overheating protection has not operated. Follow the instructions given under the section headed 'Overheating protection'.
- Check that the fuse in the fused connection unit has not blown. This can be done by replacing the fuse with another suitable fuse.
- Should none of the above remedies work, then telephone the helpline number shown in these instructions (UK ONLY). Do not attempt to repair the heater.

Basic Operation

The BFH2E has 4 standard operating modes:

BOOST, MANUAL, FROST PROTECT and AUTO.

Each mode can be selected by pressing the MENU button to cycle through the options. The cycle sequence will always start with **BOOST** mode followed by **MANUAL, FROST PROTECTION** and **AUTO**.

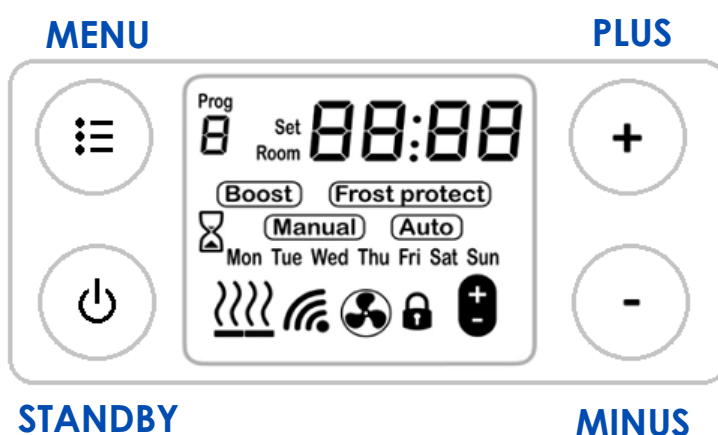
The BFH2E also has a **STANDBY MODE**. To enter/exit this mode, press the standby button. In **STANDBY MODE**, the heating will not be activated and the display will be blank.

To adjust the operating mode/ settings of the BFH2E, the display must first be activated.

If the heater is in **STANDBY MODE**, press the power button. The heater will exit standby mode and the display will be activated for 10 seconds.

If the controller is not in **STANDBY MODE**, press either of the + or - or menu buttons once. The display will be activated for 10 seconds.

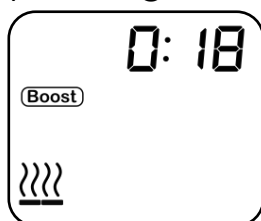
Button Configuration



Basic Operation

Boost Mode

The boost feature increases the room temperature for 15 minutes. To amend the set temperature when in **BOOST** mode, activate the display and use the **+** and **-** buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved. After 15 minutes, the BFH2E will return to the previous operating mode.



Manual Temperature Mode

In **MANUAL** mode, the heater maintains a chosen set temperature between 15°C and 35°C. To amend the set temperature when in **MANUAL** mode, activate the display and use the **+** and **-** buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved.

When the room temperature reaches the set temperature, the heating is disabled.



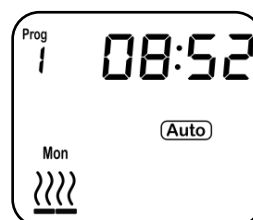
Frost Protection Mode

In **FROST PROTECT** mode, the heater maintains a chosen set temperature between 4°C and 15°C. To amend the set temperature when in **FROST PROTECT** mode, activate the display and use the **+** and **-** buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved.



Auto Control Mode

In this mode, the heater will follow the week's time / temperature program. The temperature can be temporarily overridden in **AUTO** mode by simply activating the display and using the **+** and **-** buttons to set the new temperature. The new set temperature will be then maintained until the next program step.



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Heat Symbols

Every time there is a demand for heat, the display will show one of the heat icons.



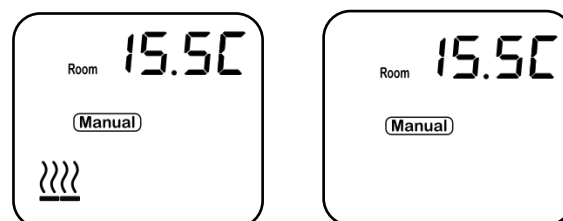
Keys Locking

Press and hold + and - together for 5 seconds. The display will show the  symbol. Repeat the step to unlock.



Open Window Detection

Ensuring you don't waste energy on heating the outside world, the heater is equipped with optional open / closed window detection. The heater recognises sudden drops in temperature when a window or a door is opened and turns the heating off to save energy. When the window is closed, the heater will automatically detect a temperature rise, and switch itself back on. Once enabled in the setup menu, the open window detection is fully automatic and does not require any human intervention to be activated. When open window detection has been triggered, the heat symbol will flash on/off as shown below.



The system has been factory set to default time and temperature values. If necessary, all values can be adjusted. When the heating is on, the open window detection sensor will automatically switch the heater off when it detects a fall in temperature of 2°C in less than 10 minutes (This temperature can be changed in menu 8 and time in menu 7). If a temperature rise of 2°C in less than 30 seconds is detected, the heater will switch itself back on (this temperature can be changed in menu A and time in menu 9).

Setting The Time and Day

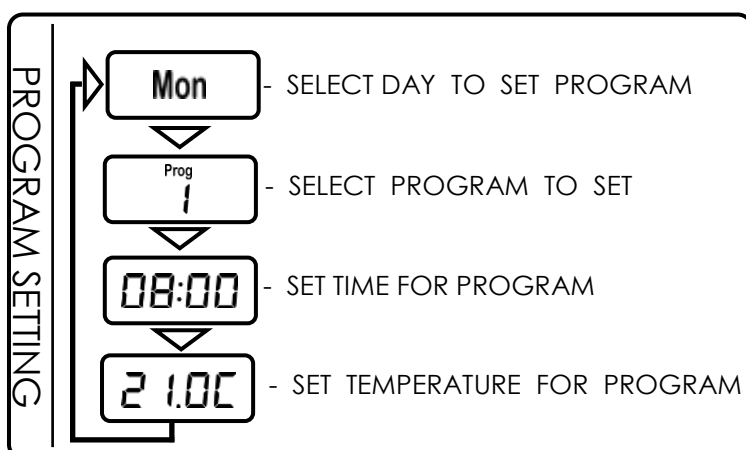
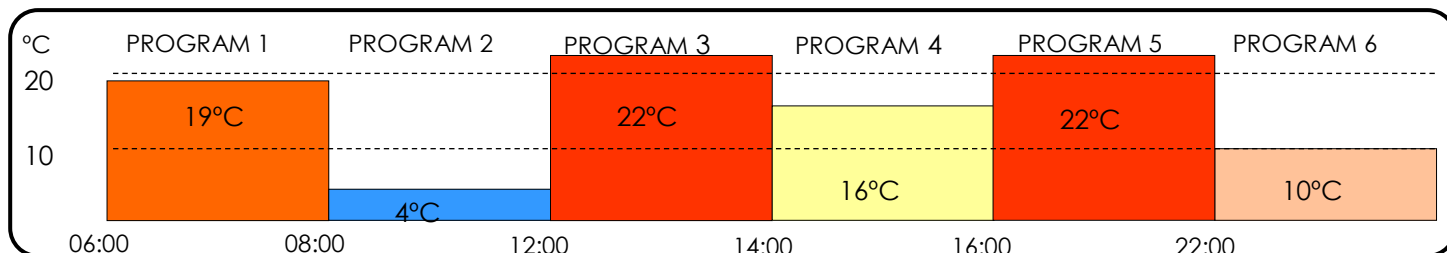
The BFH2E will come set with the correct time and day. It has an internal battery back up that can remember the settings. It will automatically change the clock to adjust the British summer time. Should you need to alter the time, see the section "set-up menu".

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Setting the automatic program schedule

An example of a one day program on BFH2E



This section provides an example of how to set the 7-day program for one day. The example will program the timer to maintain 21°C from 08:00 until 16:00. It will maintain 4°C from 16:00 onwards. It does this by setting the programs as follows;

Prog 1 - Set to 08:00 and 21°C

Prog 2 - Set to 16:00 and 4°C

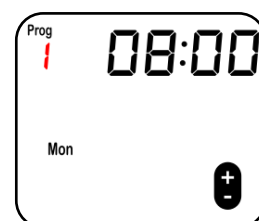
Prog 3, 4, 5, 6 - Set to inactive

The steps to program this are shown below;

Step 1: Press and hold the MENU button. The display below should show with Monday flashing



Step 2: Press the MENU button. Prog 1 in the top left of the display should flash. This represents the program number. Each day has 6 programs.



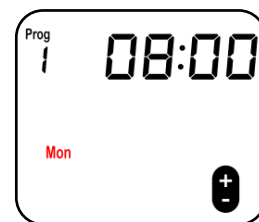
Step 3: Press the MENU button. The time should flash. Use the + and - buttons to set the time you want the heating to switch on.



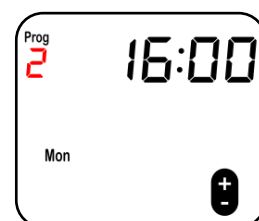
Step 4: Press the MENU button. The temperature should flash. Use the + and - buttons to set the temperature you want to maintain.



Step 5: Press the MENU button. Monday should flash again.



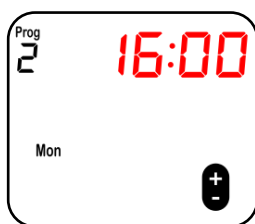
Step 6: Press the MENU button. Prog 1 in the top left of the display should flash. Use the + button to increment this to Prog 2. (Note: you can cycle between the different programs using the + and - buttons)



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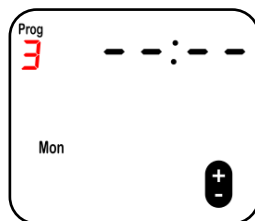
Step 7: Press the MENU button. The time should flash. Use the + and - buttons to select the time you want the heating to switch off.



Step 8: Press the MENU button. The temperature should flash. Use the + and - buttons to select a frost protection temperature.



Step 9: Repeat these steps for programs 3-6 if additional time periods are required. Any programs not being utilized must be deactivated. To do this, simply select the program in question as per step 6 and press the STANDBY button. The time should change to dashes as shown. To reactivate the program, simply press the STANDBY button again.

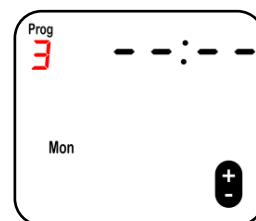
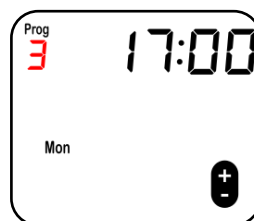


Basic Operation

1. Press and hold MENU for 5 seconds to enter the program setting.
2. The day will be flashing. Use + and - to navigate day, press MENU to select day.
3. PROG 1 will be flashing. Use + and - to navigate program, use MENU to select program.
4. The time will be flashing. To set time, use + and - , press MENU to set the time.
5. The temperature will be flashing. To set temperature, use + and - to change temperature, press MENU to set temperature.

Setting Programme Inactive

If you do not require the use of all 6 programs they can be deactivated. When in programming mode select the program you want to make inactive and press the STANDBY button. To activate the program again, press the STANDBY button.



Overview of Auto Mode

The BFH2E has a 7-day, 5-day+2-day and a 24 hour timer available. This can be chosen in the setup menu. Up to 6 programming steps are available for each day. In the programming you can set a start time and a temperature for each program.

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Copy Day Function

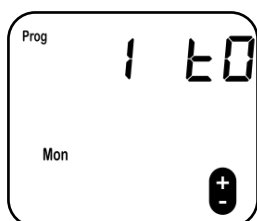
If you require the same set of programs throughout the week, a 24 hour timer is available. This will use the same program every day. A 5-day + 2-day timer is also available. This will use the same programs Monday-Friday, and the alternative on Saturday and Sunday. These modes are enabled in the setup menu, as explained in the "setup menu" section.

Alternatively, it is possible to copy a program from one day to another. To do this, follow the steps below;

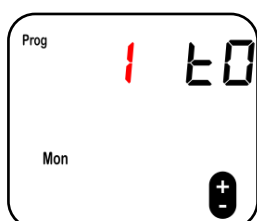
Step 1: Press and hold MENU for 5 seconds to enter the program setting.



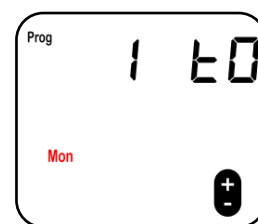
Step 2: Press and hold STANDBY for 5 seconds to enter the copy day setting.



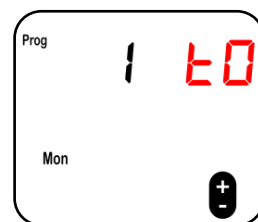
Step 3: Use the MENU button to select the day to copy the programs from. 1 = Monday, 2 = Tuesday and so on.



Step 4: Use the + and - buttons to select the day to copy the programs to.



Step 5: Press the STANDBY button to copy the programs. The 'to' will flash to confirm the programs have been copied.



Set up Menu

1. Press and hold MENU and - together for 5 seconds.
2. The display will enter the setup menu.
3. Use + and - to change a value.
4. Use TIME to scroll between the settings.
5. Use standby button to exit the setup menu

1 - Temperature calibration

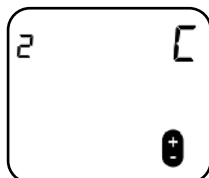
The temperature reading is factory calibrated but if for any reason it needs adjusting (better accuracy required, to suit different position in the room etc.), the reading can be recalibrated in 0.5 degree steps.



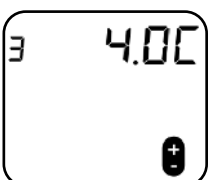
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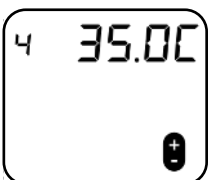
2 - Celsius / Fahrenheit



3 - Set minimum temperature



4 - Set maximum temperature



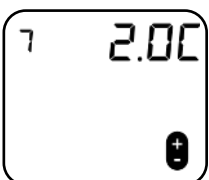
5 - Enable/disable open window detection



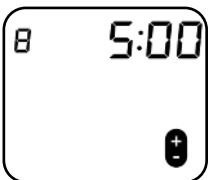
6 - Open window detection time



7 - Temperature drop in open window detection time



8 - Closed window detection time



9 - Temperature rise in closed window detection time



A - Program mode select.

Choose between a 7-day, 5-day + 2-day or a 24 hour timer.



B - Time and Date setting.

The year is shown first, use + and - to change, then press menu to change date and time.



C - Power Selection 1000w or 2000w.



D - Backlight Setting

If this is **OFF** the backlight will turn off after 15 seconds

If this is **ON** the back light will be permanently



Declaration Of Conformity

In accordance with UK Government Guidance.
WE HEREBY CERTIFY THAT THE APPLIANCES DETAILED HEREON HAVE BEEN
INSPECTED AND TESTED, AND CONFORM TO THE REQUIREMENTS OF THE
FOLLOWING UK STATUTORY INSTRUMENTS WHERE APPLICABLE:

Electrical Equipment (Safety) Regulations 2016 SI. 2016 1101
Electromagnetic Compatibility Regulations 2016 SI. 2016 No. 1091
Radio Equipment Regulations 2017 SI. 2017 No. 1206
The Ecodesign for Energy Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019. SI. 2010 2617
The Restriction of use of Certain Hazardous Substances. SI. 2012 No. 3032
The Waste Electrical and Electronic Equipment Regulations 2013. SI. 2013 No. 3113
Security Requirements for 'Connectable Products' PTSI Act 2022

Transposed standards used:

- **BSEN55014 (2006)**
- **BSEN301 489.1 & .3**
- **BSEN300 220.1 & .2**
- **BSEN60 730.2.9**
- **BSEN 60335.1 (2012)**
- **BS EN 60335.2.30 (2009)**
- **ETSI BSEN 303 645**

PART NUMBER AND DESCRIPTION OF APPLIANCE: BFH2E

NAME OF RESPONSIBLE PERSON:
POSITION:
DATE:

DAVID O'SULLIVAN
OPERATIONS MANAGER
03/10/2025



CONSORT EQUIPMENT PRODUCTS LTD.

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