CRYSTAL FIRES

1 BECHERS DRIVE AINTREE RACECOURSE BUSINESS PARK AINTREE LIVERPOOL L9 5AY 0151 521 3222

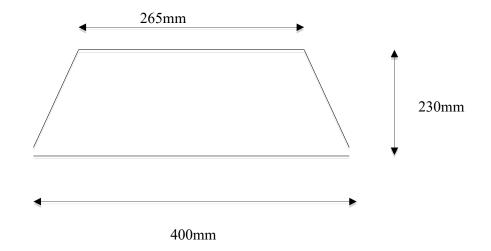
CRYSTAL GEM

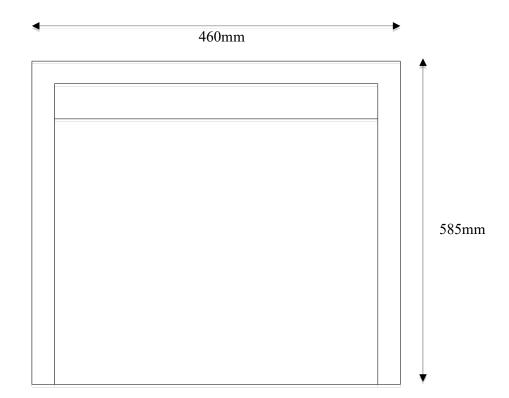
DECORATIVE FUEL EFFECT GAS FIRE

THIS APPLIANCE IS CATEGORY I_{2H} FOR USE WITH NATURAL GAS AT A SUPPLY PRESSURE OF 20 mbar G.B. AND I.E.

INSTALLATION & SERVICING BOOK







GEM BOX SIZES NOT INCLUDING TRIMS

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU START INSTALLING THE APPLIANCE.

KEEP THIS BOOKLET HANDY FOR FUTURE REFERENCE

TECHNICAL DATA

GAS TYPE: NATURAL GAS

GAS PRESSURE: 20mbar
CONNECTION 8mm TUBE
INJECTOR: CAT 82/440
REMOTE CONTROL CAT 82/460
HEAT INPUT 6.9kW HIGH
4.1kW LOW

DATA BADGE ON FRONT BOTTOM SECTION OF APPLIANCE IMPORTANT NOTES

THIS APPLIANCE IS FITTED WITH AN ATMOSPHERE SENSING DEVICE AND CAN ONLY BE FITTED IN CONJUNCTION WITH THE FOLLOWING FLUES.

CONVENTIONAL BRICK OR STONE CHIMNEY.

OR A METAL FLUE BOX CONFORMING TO BS715

A NON COMBUSTIBLE HEARTH MUST BE PROVIDED TO COMPLY WITH THE BUILDING REGULATIONS OR A SUITABLE PROPRIETARY FIRE SURROUND WITH 100 DEGREES C RATING.

THE CHIMNEY OR FLUE (UNLESS NEW) MUST BE SWEPT BEFORE INSTALLATION, IF IT HAS BEEN USED FOR SOLID FUEL

INSTALLER

THIS APPLIANCE MUST BE INSTALLED BY A COMPETENT PERSON

IE. A REGISTERED INSTALLER IN ACCORDANCE WITH THE

CURRENT EDITION OF THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS OR THE RULES IN FORCE. FAILURE TO DO SO COULD LEAD TO PROSECUTION.

GAS SAFE CONTACT: 08004085500

VENTILATION GREAT BRITAIN

NO SPECIAL VENTILATION BRICKS OR VENTS ARE NORMALLY REQUIRED INTO THE ROOM CONTAINING THE APPLIANCE, PROVIDED NORMAL ADVANTAGEOUS ROOM VENTILATION EXISTS, THE INSTALLER MUST SATISFY THIS POINT BY A MANDATORY SPILLAGE TEST.

IRELAND. PURPOSE PROVIDED VENTILATION MUST BE PROVIDED AND MUST HAVE A MINIMUM FREE AREA OF 100CM₂

WARNING

THIS APPLIANCE HAS A NAKED FLAME, AS WITH ALL SUCH FIRES IT IS RECOMMENDED THAT A FIREGUARD SHOULD BE USED FOR THE PROTECTION OF CHILDREN, THE ELDERLY AND INFIRM. FIRE GUARDS SHOULD CONFORM TO BS8423 2002 (FIREGUARDS FOR FIRES AND HEATING APPLIANCES FOR DOMESTIC USE-SPECIFICATION)

The Benchmark Scheme

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by competent persons and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference.

Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hotwater Industry Council who manage and promote the Scheme. Visit www.centralheating.co.uk for more information.

INSTALLATION REQUIREMENTS

CONVENTIONAL CHIMNEY

A CONVENTIONAL BRICK OR STONE CHIMNEY AS USED FOR SOLID FUEL APPLIANCE WITH A MINIMUM EFFECTIVE CROSS SECTIONAL DIMENSION OF 225*225mm, WITH A MINIMUM OF 3 METERS EFFECTIVE HEIGHT.

A LINED FLUE WITH A MINIMUM DIAMETER OF 125mm WITH THE FIREPLACE COMPONENTS CONFORMING TO BS 1251

A BUILDERS OPENING A MINIMUM OF 560mm HIGH AND 400mm WIDE WITH A MINIMUM DEPTH OF 260mm TO ALLOW SUFFICIENT VOLUME OF DEBRIS COLLECTION.

TO OBTAIN THIS DEPTH IT IS NECESSARY TO REMOVE THE CHAIRBRICK.(EXCEPT WHEN INSTALLING FIRETRAY ONLY)

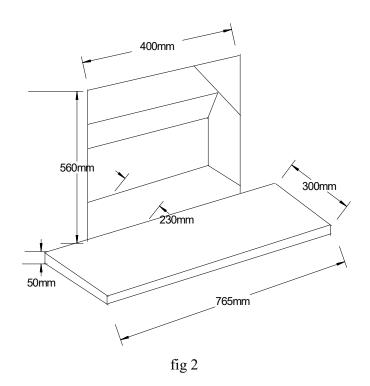
ANY PERMANENT FLUE RESTRICTION OR VARIABLE DAMPER MUST BE REMOVED OR LOCKED FULLY OPEN.

THE CHIMNEY MUST BE SWEPT PRIOR TO INSTALLATION IF NOT NEW.

THE CHAIRBRICK MUST BE REMOVED ON ALL INSTALLATIONS.

EXCEPT WHEN INSTALLING FIRETRAY ONLY

WHEN INSTALLING FIRETRAY THE FOLLOWING HEARTH AND HEIGHT DIMENSIONS MUST BE ADHERED TOO



INSTALLATION REQUIREMENTS FIRETRAY ONLY

THE GEM FIRETRAY MAY BE INSTALLED INTO A STANDARD FIREBACK OR HOT BOX INSTALLED WITH A CERAMIC FIRE BACK

OR HOLE IN THE WALL FIREPLACE WHERE THE OPENING HEIGHT DOES NOT EXCEED 560mm (ie sunrise gas appliance)

THE INSTALLATION MUST ADHERE TO OPENING SIZES IN FIG 2

THE RELEVANT BRITISH STANDARDS MUST BE FOLLOWED

BS EN 1856

BS 5871 :PART 3

BS 5440: PART 1 AND 2

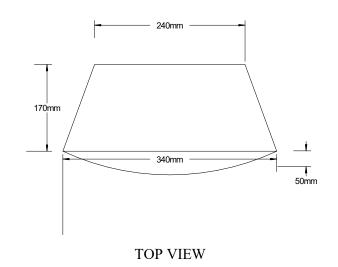
BS 6891

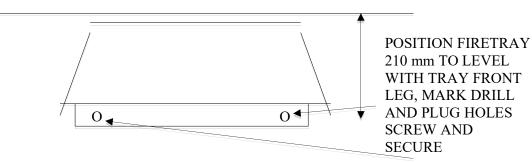
BS 8303

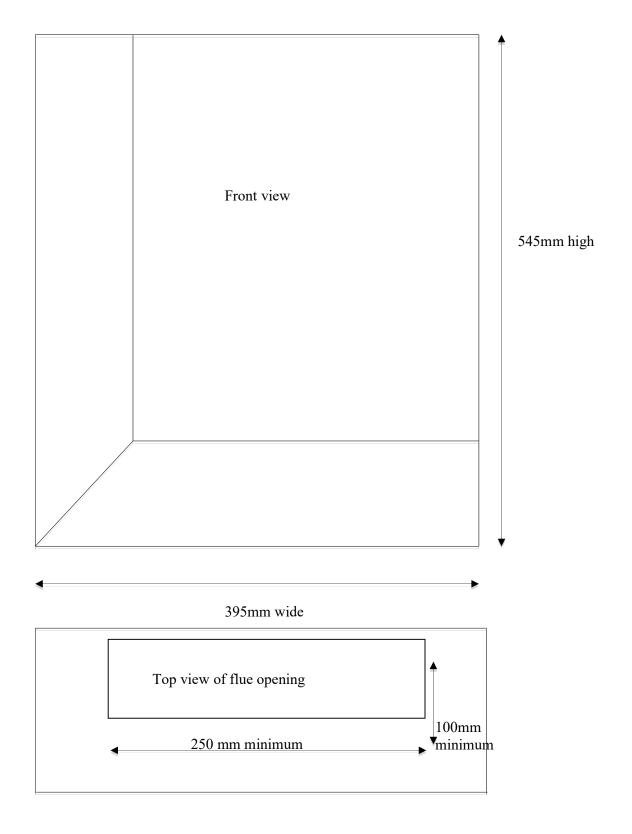
BS 1251

AND I.S 813 FOR IRELAND

FIRE TRAY SIZES NOT INCLUDING CERAMICS



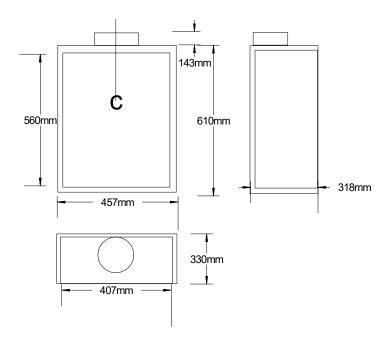




A CERAMIC FIREBACK TO BS1251 INSTALLED IN A METAL BOX ,CAN BE USED AS A HOTBOX TO HOUSE THE GEM FIRETRAY MUST BE TO THE DIMENSIONS SHOWN ABOVE

5 "FLUE PIPE AND STARTER BOX

A DOUBLE WALLED SELKIRK RECESSED FLUE BOX BUILT TO THE REQUIREMENTS OF BS 715 OR BS EN 1856 WITH AN INSULATED FLUE HAVING A MINIMUM DIAMETER OF 125mm (5") AND A MINIMUM EFFECTIVE OVERALL HEIGHT OF 3 METRES (10ft)



RECESSED GAS FLUE BOX DIMENSIONS (NOT INCLUDING FIBREGLASS INSULATION)

NOTE

THE METAL FLUE BOX MUST BE INSULATED WITH FIBRE GLASS OR EQUIVALENT TO A THICKNESS OF 25 mm.

NOTE

WHERE INSTALLATION IS FOR A METAL FLUE BOX, THE SURROUND MUST HAVE A TEMPERATURE RATING OF 150 DEGREES C .

NOTE

IF THE FLUE BOX IS TO BE USED WITH AN EXISTING BRICK OR STONE CHIMNEY A $125~\mathrm{mm}$ (5") MINIMUM DIAMETER FLUE LINER CONFORMING TO BS $715~\mathrm{MAY}$ BE USED.

NOTE

A BRICK CHAMBER TO THE SIZES IN FIG 2 IN AN EXISTING BRICK OR STONE CHIMNEY A 125mm MINIMUM DIAMETER FLUE LINER CONFORMING TO BS EN 1856 MAY BE USED, PROVIDING IT IS SEALED AT THE TOP AND BOTTOM OF THE EXISTING BRICK OR STONE CHIMNEY.

NOTE

ANY OF THE ABOVE FLUES MUST NOT BE RESTRICTED BY DAMPERS OR REGISTER PLATES, THE FLUE MUST SERVE ONLY ONE APPLIANCE AND NOT HAVE ANY BRANCHES OR TRAPS WHICH MAY IMPEDE THE NATURAL DRAUGHT .IF ANY TERMINAL IS FITTED IT MUST BE SUITABLE FOR THE PURPOSE.

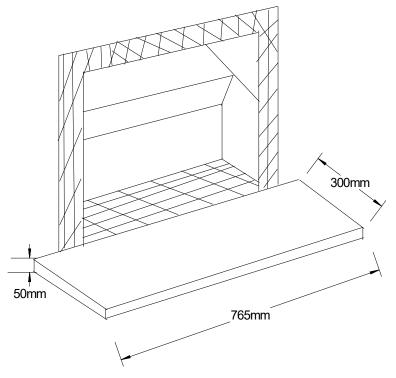


FIG 3

THE FRONT FACE SEAL MUST BE FLAT TO ENSURE A GOOD SEAL IS FORMED BETWEEN THE REAR AND BASE OF THE APPLIANCE AND CHIMNEY TO AVOID ANY REDUCTION IN THE NATURAL DRAUGHT.

ALWAYS ENSURE THE HEARTH IS LEVELED OFF TO HELP ENSURE NO NATURAL DRAUGHT IS LOST BELOW BASE (SEE FIG 3)

A NON COMBUSTIBLE HEARTH MUST BE PROVIDED BENEATH THE APPLIANCE WITHIN THE FIREPLACE OPENING.

A FIRE RESISTANT HEARTH MUST ALSO BE PROVIDED SYMMETRICALLY DISPOSED ABOUT THE FIREPLACE OPENING A MINIMUM THICKNESS OF 12mm WITH THE PERIMETER 50mm ABOVE THE FLOOR LEVEL

THE WIDTH MUST EXTEND A MINIMUM OF 150mm EITHER SIDE OF THE FIREPLACE OPENING AND A DEPTH OF 300mm FROM THE FUEL BED

ANY COMBUSTIBLE MATERIAL MUST BE REMOVED ABOVE THE OPENING TO A HEIGHT OF 900 mm ABOVE THE HEARTH LEVEL.

PURPOSE BUILT SUPERIMPOSED FIRE RESISTANT HEARTHS AND BACK PANELS, SPECIFIED AS SUITABLE BY THE MANUFACTURERS MAY BE USED, OR A SUITABLE PROPRIETARY FIRE SURROUND WITH A 100 DEGREES C RATING.

CARE SHOULD BE TAKEN TO PREVENT ANY DAMAGE BEING CAUSED TO SURROUNDING SOFT FURNISHINGS OR DECORATION.
MANY EMBOSSED VINYL WALL COVERINGS MAY BECOME DISCOLOURED IF PLACE TOO CLOSE TO THE APPLIANCE

CHECK FLUE

CHECK THAT THE CHIMNEY CONFORMS TO THE REQUIRED SPECIFICATIONS AS PREVIOUSLY STATED.

EXAMINE THE CONDITION AND CARRY OUT ANY REMEDIAL WORK
IF THE FLUE HAS BEEN USED FOR SOLID FUEL IT MUST BE SWEPT AND A SMOKE
TEST CARRIED OUT TO CHECK THAT SATISFACTORY SMOKE CLEARANCE HAS BEEN
ESTABLISHED.

IF ALL THE SMOKE IS NOT DRAWN INTO THE FLUE, PRE HEAT THE FLUE WITH A BLOW TORCH OR SIMILAR AND RE CHECK, IF THERE IS ANY UNCERTAINTY EXAMINE FOR THE CAUSE AND IF NECESSARY SEEK EXPERT ADVICE.

GAS SUPPLY

IT IS RECOMMENDED A CONCEALED CONNECTION IS MADE USING SEMI RIGID TUBING ON THE LEFT SIDE OF THE APPLIANCE TAKING INTO ACCOUNT THE REQUIREMENTS OF BS 6891 1988 DEALING WITH ENCLOSED PIPES.

AN ISOLATING VALVE IS BUILT IN TO THE APPLIANCE AS PART OF THE PRESSURE TEST POINT ELBOW.

SECURE FIRE TO FIREPLACE

MARK POSITION OF FLANGE HOLES, DRILL AND PLUG AND FIX FIRE TO FIREPLACE ENSURING A GOOD SEAL USING FOAM SEAL SUPPLIED.

CHECKING GAS PRESSURE AND SOUNDNESS

REMOVE THE PRESSURE TEST POINT SCREW FROM THE INLET ELBOW AND CONNECT PRESSURE GAUGE.

TURN ON GAS TO APPLIANCE.

ROTATE THE CONTROL TO THE IGNITION POSITION AND PUSH IN TO ALLOW THE AIR IN THE PIPEWORK TO BE PURGED.

PUSH IN PIEZO IGNITION SWITCH

CHECK THAT THE ELECTRODE IS SPARKING.

CONTINUE SPARKING UNTIL PILOT IGNITION IS ESTABLISHED.

TURN THE GAS CONTROL KNOB ON TO THE HIGH POSITION AND ALLOW TO RUN FOR FIVE MINUTES.

CHECK THE INLET PRESSURE IS 20 MBAR. +/- 1MBAR ON NATURAL GAS OR 37 mbar ON PROPANE CHECK FOR GAS SOUNDNESS.

TURN OFF GAS SUPPLY, DISCONNECT PRESSURE GAUGE AND REPLACE PRESSURE TEST POINT SCREW.

'At the time of commissioning, complete all relevant sections of the Benchmark Checklist located on the inside back pages of this document.'

REAR MATRIX SITS BEHIND 2 LUGS AND FLAT ON BASE SEE BELOW

GEM LOOSE COAL SET UP



FRONT FIBRE SITS IN WELL OF BURNER AS ABOVE



FRONT 4 LOOSE COALS SIT AS ABOVE



NEXT SET OF 3 FIT AS SHOWN ABOVE WITH THE LEFT AND RIGHT HAVING THE POINT OF THE COAL POINTING OUTWARDS



NEXT 2 SIT AS ABOVE AGAIN WITH THE POINTS OF THE COALS LOOKING OUTWARDS



FINAL 3 SIT CENTRALLY ON TOP AS ABOVE

COAL BED LAYOUT

PERIODICALLY SMALL DEPOSITS OF SOOT MAY GATHER ON THE FUEL BED AND BURNER, THIS MUST BE REMOVED BY REMOVING FUEL AND BRUSHING ANY DEPOSITS WITH A SOFT BRUSH AND VACUUMING THE BURNER, THEN REPLACE FUEL USING THE FOLLOWING PROCEDURE.

THE MAIN FIBRE BASE IS LIABLE TO HAVE SURFACE CRACKS DUE TO THE HIGH TEMPERATURES OF THE FIBRE AND THE PAINT BEING DIFFERENT THIS IS QUITE NORMAL AND SHOULDN'T CAUSE CONCERN



Main ceramic matrix sits on back base central



Front piece sits in to well of burner and flat onto the curved front of fire tray Flat and stable



Piece marked underneath 1 sits snugly above front piece central and touching left side and right



The rear piece can be fitted to the top Sitting central and behind the coal pieces on the side matrix. Sitting flat



Piece marked underneath 2 sits flat centrally above piece 1 onto the flat ledge on the main matrix Piece 2 should not be touching piece 1 and there should be a gap of approx 5mm



Final piece marked underneath 3 sits on top of piece 2 and to the rear pieces

This piece should not actually touch the rear piece and there should be a gap of approx 5 mm

THE EFFECT CAN ALSO COME AS PEBBLES THE LAYOUT IS EXACTLY THE SAME AS ARE THE PIECES HOWEVER THE TOP EFFECT LOOKS LIKE PEBBLES RATHER THAN COAL.

TEST FOR SPILLAGE

CHECK FOR SATISFACTORY CLEARANCE OF COMBUSTION PRODUCTS CLOSE ALL DOORS AND WINDOWS IN THE ROOMS CONTAINING THE FIRE TURN ON GAS FIRE AND SET THE CONTROL TO HIGH

LEAVE THE FIRE BURNING FOR FIVE MINUTES AND INSERT A LIGHTED SMOKE MATCH ON A VERTICAL PLANE

50 mm DIRECTLY UNDER FRONT EDGE OF CANOPY AND 50mm FROM EITHER SIDE OF THE OPENING

ALL SMOKE MUST BE DRAWN INTO THE FLUE

IF SPILLAGE OCCURS ALLOW A FURTHER TEN MINUTES

SHOULD SPILLAGE STILL OCCUR TURN OFF THE FIRE AND SEEK

EXPERT ADVICE

IF AN EXTRACTOR FAN IS SITUATED IN THE ROOM , THIS TEST SHOULD BE REPEATED WITH THE FAN RUNNING

IF THERE IS A ROOM WITH AN EXTRACTOR FAN, THE TEST SHOULD BE REPEATED WITH ALL THE DOORS TO THAT ROOM OPENED AND THE EXTRACTOR FAN RUNNING

FITTING TRIMS

Fit The Trim With Four Magnets Placed On The Vertical Side Flanges Of The Firebox (One At The Top And One At The Bottom)

Offer The Trim Up And Push Into Position

Place Fret Centrally In Front To Cover The Controls

INSTRUCT USER

DEMONSTRATE THE LIGHTING AND EXTINGUISHING PROCEDURES TO THE USER AND REMOVAL AND REFITTING OF THE TRIM FOR CLEANING.

THE APPLIANCE SHOULD BE OPERATED WITH THE GAS CONTROL NOT TURNED ON MORE THAN LOW FOR THE FIRST FIVE HOURS OF USE TO ALLOW THE FIBRE FUEL TO CURE SLOWLY.

THE CURING EFFECT OF HEATING THE FUEL AND OTHER CERAMICS COMPONENTS WILL CAUSE AN INITIAL ODOR.

THE APPLIANCE SHOULD BE SERVICED ANNUALLY BY A COMPETENT PERSON IN ACCORDANCE WITH THESE INSTRUCTIONS AND THE APPLIANCE CHECKED FOR SPILLAGE IN ACCORDANCE WITH THE METHOD DETAILED IN THESE INSTRUCTIONS

HAND THESE INSTRUCTIONS TO THE USER.

SERVICING NOTES

GENERAL NOTES.

SERVICING SHOULD BE CARRIED OUT ANNUALLY BY A COMPETENT PERSON SUCH AS A REGISTERED PERSON IN ACCORDANCE WITH THE RELEVANT REGULATIONS, TO ENSURE THE SAFE AND CORRECT OPERATION OF THE APPLIANCE

BEFORE COMMENING ANY SERVICE OR REPLACEMENT OF PARTS TURN OFF GAS SUPPLY TO FIRE

AFTER SERVICING CHECK FOR GAS SOUNDNESS

AT LEAST ONCE A YEAR CHECK FOR DEBRIS

IF SOOT HAS ACCUMULATED CHECK TO ESTABLISH CAUSE AND RECTIFY IF NECESSARY CLEAN FLUE OR CHIMNEY ACCORDINGLY

EXAMINE THE FUEL FOR SIGNS OF CRACKING AND REPLACE IF NECESSARY. SEE FUEL LAYOUT PROCEDURE BEFORE ATTEMPTING TO REPLACE FUEL WHICH SHOULD ONLY BE REPLACED AS A COMPLETE SET WITH NO EXTRA FUEL ADDED.

1 REMOVAL OF FUEL PIECES

REMOVE LOOSE FUEL PIECES REMOVE FRONT FIBRE BASE REMOVE MAIN FIBRE BASE

2 REPLACEMENT OF GAS CONTROL

REMOVE FUEL SET AS 1

DISCONNECT FIRE AT INLET ELBOW

REMOVE FIRETRAY BY UNSCREWING TWO SCREWS AT FRONT BOTTOM SECTION OF FIRE TRAY

REMOVE CONTRO KNOB, DISCONNECT GAS CONNECTIONS TO VALVE INCLUDING PILOT CONNECTION AND THERMOCOUPLE CONNECTION

REMOVE LOCKNUT HOLDING GAS CONTROL TO FRONT BOTTOM SECTION.

RE ASSEMBLE IN REVERSE ORDER

TURN ON GAS SUPPLY. CHECK FOR SOUNDNESS AND RE COMMISION APLIANCE

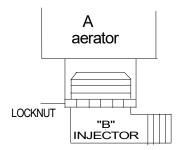
3 REPLACEMENT OF INJECTOR

REMOVE FUEL PIECES SEE 1

REPEAT 2 REMOVE GAS CONTROL

DISCONNECT GAS CONNECTION TO INJECTOR

UNSCREW INJECTOR "B" WHILST AT THE SAME TIME HOLDING LOCKNUT WITH A SPANNER AND CLEAN OR REPLACE.



RE ASSEMBLE IN REVERSE ORDER

TURN ON GAS SUPPLY. CHECK FOR SOUNDNESS AND RECOMMISION THE FIRE.

REPLACEMENT OXY PILOT ASSEMBLY

DISCONNECT FIRE AT INLET ELBOW

REMOVE FIRETRAY

DISCONNECT THERMOCOUPLE AT GAS VALVE

DISCONNECT GAS CONNECTION FROM PILOT ASSEMBLY

REMOVE IGNITOR LEAD FROM PILOT ASSEMBLY

UNDO SCREWS SECURING OXY PILOT TO FIRETRAY

RE-ASSEMBLE IN REVERSE ORDER

TURN ON GAS SUPPLY, CHECK FOR SOUNDNESS AND RE-COMMISION APPLIANCE

CLEANING

BEFORE CLEANING ANY PART OF THE FIRE ,ENSURE THAT THE GAS IS TURNED OFF AND FIRE IS COOL.

BLACK PAINT.

USE ONLY CLEAN DAMP CLOTH ,DO NOT USE ANY CLEANING AGENTS

BRASS TRIM

USE BRASSO ENSURING YOU REMOVE THE BRASS TRIM FROM THE APPLIANCE BEFORE CLEANING

IMPORTANT

THE PAINT AND BRASS FINISH ARE DURABLE BUT WILL BE DAMAGED IF PLASTER, CEMENT, OR WALLPAPER PASTE COMES IN CONTACT WITH IT

COALS AND CERAMICS

IF FOR ANY REASON IT IS NECCESARY TO REMOVE CERAMIC PARTS, THEN BEFORE REPLACEMENT THE BURNER SHOULD BE CHECKED THAT NO PARTICLES HAVE DEPOSITED ON THE BURNER AND IF NECCESARY VACUUM THEM CAREFULLY, THEN REFER TO INSTRUCTIONS FOR REPLACING CERAMICS.

CERAMICS SHOULD BE CLEANED BY SHAKING ANY DEBRIS NO BRUSHING OR VACUMING SHOULD BE PERFORMED.

'After servicing, complete the relevant Service Interval Record section of the Benchmark Checklist located on the inside back pages of this document.'

INSTALLER SPARE PARTS

| FUEL BED | GEM001 | MAIN MATRIX | GEM002 |
|-------------------|---------|----------------|------------|
| FRONT FIBRE | GEM003 | INSTUCTIONS | GEM 004 |
| BRASS TRIM | GEM 005 | ODS COMPLETE | GEM006 |
| GAS VALVE | GEM 007 | REMOTE GAS VAL | VE GEM 008 |
| | | | |

REMOTE ODS GEM 009

Benchmark Commissioning and Servicing Section

It is a requirement that the gas fire is installed and commissioned to the manufacturers instructions and the data fields on the commissioning checklist completed in full.

To instigate the guarantee the gas fire needs to be registered with the manufacturer within one month of the installation.

To maintain the guarantee it is essential that the gas fire is serviced annually by a Gas Safe registered engineer. The service details should be recorded on the Benchmark Service Interval Record and left with the householder



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GAS FIRE COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who commissioned the gas fire as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference

Failure to install and commission according to the manufacturer's instructions and complete this Benchmark Commissioning Checklist will invalidate the warranty. This does not affect the customer's statutory rights.

| Customer name: | Telephone number: | | | | | |
|---|--|-----|-----|--|--|--|
| Address: | | | | | | |
| Gas Fire make and model: | | | | | | |
| Gas Fire serial number: | | | | | | |
| Commissioned by (PRINT NAME): | | | | | | |
| Company name: Telephone number: | | | | | | |
| Company address: | | | | | | |
| | Commissioning date: | | | | | |
| To be completed by the customer on receipt of a Building Regulations | s Compliance Certificate* | | | | | |
| Building Regulations Notification Number (if applicable): | | 1 | I | | | |
| Site Requirements | | Yes | N/A | | | |
| Was the chimney checked to ensure it only serves one flue/fire, and is continuous? | | | | | | |
| Has the chimney been checked for obstructions? | | | | | | |
| Has any debris at the base of the chimney been removed? | | | | | | |
| For brick chimney installations is there enough depth for 12 litres of debris' | ? | | | | | |
| Have damper and register plates been removed or locked in the open posi | tion? | | | | | |
| If previously used for solid fuel has the chimney been thoroughly swept? | | | | | | |
| If the chimney is pre-cast has the inside of the flue been checked for extrud | ded cement / sealant which must be removed? | | | | | |
| Has the fire place been checked for under-floor air supply which must be s | ealed off? | | | | | |
| Has the chimney been inspected prior to fitting the gas fire to ensure that it | is in good condition? | | | | | |
| Has the structure of the chimney been checked for leakage using a smoke | pellet test? (See BS5440-1 for details). | | | | | |
| Ventilation | | | | | | |
| Does the installation require any additional ventilation requirements as details | ailed in the manufacturer's instructions? | | | | | |
| Hearth Requirements- where fitted | | | | | | |
| Is the hearth constructed from non -combustible material? | | | | | | |
| Is the hearth a minimum of 13mm thick and the top surface at least 50mm | above the floor? | | | | | |
| The hearth is a minimum of 760mm wide and has 300mm projecting from the | he fire opening? | | | | | |
| Mounting height (where applicable) has the fire been installed to the correct | t mounting height- as per manufacturer's instructions? | | | | | |
| Firebox and Fuel Bed | | | | | | |
| Has the fuel bed, coals, pebbles etc. been fitted to manufacturer's instruction | ons? | | | | | |
| Gas Supply | | • | | | | |
| Has a soundness test been completed prior to breaking into the gas supply | ? | | | | | |
| Has an isolation tap/restrictor inlet elbow been fitted for servicing? | | | | | | |
| Has the gas supply been thoroughly purged prior to connection to remove | any debris? | | | | | |
| Gas soundness test completed and passed, following completion of the ins | stallation? | | | | | |
| Record burner gas pressure reading – if only the supply pressure is available | ole a gas rate must be undertaken. | | | | | |
| Spillage test | | | | | | |
| Installation passes smoke match test with any extractor fans turned on (se | e manufacturer's instructions) | | | | | |
| Installation | | | | | | |
| Has the gas fire been installed and commissioned in accordance with man | ufacturer's instructions? | | | | | |
| Has the fire been installed with the correct clearence to combustible mater | als, as per manufacturer's instructions? | | | | | |
| The operation of the fire and controls have been demonstrated and understood by the customer? | | | | | | |
| The manufacturer's literature, including Benchmark Checklist and Service | record has been explained and left with the customer? | | | | | |
| Commissioning Engineer's Signature | | | | | | |

SERVICE RECORD

It is recommended that your gas fire is serviced regularly and that the appropriate Service Interval Record is completed.

Service Provider

Before completing the appropriate Service Record below, please ensure you have carried out the service as described in the manufacturer's instructions. Always use the manufacturer's specified spare part when replacing controls.

| SERVICE 01 | Date: | SERVICE 02 | Date: | | |
|--|-------|--|-----------|--|--|
| Engineer name: | • | Engineer name: | • | | |
| Company name: | | Company name: | | | |
| Telephone No: | | Telephone No: | | | |
| Gas safe register No: | | Gas safe register No: | | | |
| Comments: | | Comments: | | | |
| | | | | | |
| | | | | | |
| Signature | | Signature | | | |
| SERVICE 03 | Date: | SERVICE 04 | Date: | | |
| Engineer name: | | Engineer name: | | | |
| Company name: | | Company name: | | | |
| Telephone No: | | Telephone No: | | | |
| Gas safe register No: | | Gas safe register No: | | | |
| Comments: | | Comments: | Comments: | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Signature | | Signature | | | |
| | | | | | |
| SERVICE 05 | Date: | SERVICE 06 | Date: | | |
| SERVICE 05 Engineer name: | Date: | SERVICE 06 Engineer name: | Date: | | |
| | Date: | | Date: | | |
| Engineer name: | Date: | Engineer name: | Date: | | |
| Engineer name: Company name: | Date: | Engineer name: Company name: | Date: | | |
| Engineer name: Company name: Telephone No: | Date: | Engineer name: Company name: Telephone No: | Date: | | |
| Engineer name: Company name: Telephone No: Gas safe register No: | Date: | Engineer name: Company name: Telephone No: Gas safe register No: | Date: | | |
| Engineer name: Company name: Telephone No: Gas safe register No: | Date: | Engineer name: Company name: Telephone No: Gas safe register No: | Date: | | |
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| Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature | | Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 08 | | | |
| Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 07 Engineer name: | | Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 08 Engineer name: | | | |
| Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 07 Engineer name: Company name: | | Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 08 Engineer name: Company name: | | | |
| Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 07 Engineer name: Company name: Telephone No: | | Engineer name: Company name: Telephone No: Gas safe register No: Comments: Signature SERVICE 08 Engineer name: Company name: Telephone No: | | | |
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^{*}All installations in England and Wales must be notified to be Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.

CRYSTAL FIRES

1 BECHERS DRIVE AINTREE RACECOURSE BUSINESS PARK AINTREE LIVERPOOL L9 5AY

GEM DECORATIVE FUEL EFFECT GAS FIRE

THIS APPLIANCE IS CATEGORY I2H FOR USE WITH NATURAL GAS AT A SUPPLY PRESSURE OF 20 mbar G.B. AND I.E. USERS INSTUCTIONS



Crystal fires Itd is a licensed member of the Benchmark Scheme which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance. Benchmark is managed and promoted by the Heating and Hotwater Industry Council. For more information visit www.centralheating.co.uk

USERS INSTRUCTIONS FOR GEM GAS APPLIANCE

YOUR GEM GAS APPLIANCE IS A DECORATIVE LIVE FUEL EFFECT GAS FIRE ,DUE TO ITS NEWNESS THE FIRE MAY GIVE OFF SLIGHT SMELL FOR A SHORT PERIOD AFTER INSTALLATION .THIS IS QUITE NORMAL AND WILL DISAPPEAR AFTER A FEW HOURS OF OPERATION.

THE APPLIANCE TO WHICH THESE INSTRUCTIONS APPLY MUST BE INSTALLED BY A COMPETENT PERSON(EG. A REGISTERED INSTALLER IN ACCORDANCE WITH THE CURRENT EDITION OF THE GAS SAFETY INSTALLATIONS AND USE REGULATIONS OR THE RULES IN FORCE)APPROVED BY THE HEALTH AND SAFETY EXECUTIVE AND MUST BE IN ACCORDANCE WITH THE INSTALLATION AND SERVICING INSTUCTIONS SUPPLIED.

SERVICING SHOULD BE CARRIED OUT REGULARLY BY A COMPETENT PERSON (EG A REGISTERED INSTALLER)IN ACCORDANCE WITH THE CURRENT EDITION OF THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS OR THE RULES IN FORCE. TO ENSURE THE CORRECT AND SAFE OPERATION OF THE APPLIANCE .DEBRIS SHOULD ALSO BE REMOVED FROM BEHIND THE APPLIANCE AT REGULAR INTERVALS.
BEFORE INSTALLATION OF THE APPLIANCE THE CHIMNEY MUST BE SWEPT AND THEN INSPECTED REGURLARLY TO ENSURE THAT IT REMAINS FREE OF OBSTRUCTION.
A FIRE GUARD COMPLYING TO BS8423 ,MUST BE FITTED IF THE ROOM WILL BE OCCUPIED BY YOUNG CHILDREN THE ELDERLY ,OR INFIRM PEOPLE. ON NO ACCOUNT MUST ANY RUBBISH BE THROWN ON TO THE FIRE OR THE LAYOUT OF THE FIREBED DISTURBED.

OPERATING INSTRUCTIONS.

THE APPLIANCE DATA BADGE IS POSITIONED ON THE FRONT BOTTOM SECTION OF THE APPLIANCE AND CARIES THE CONTROL KNOB POSITIONS. THE FULL LIGHTING PROCEDURE IS AS FOLLOWS.

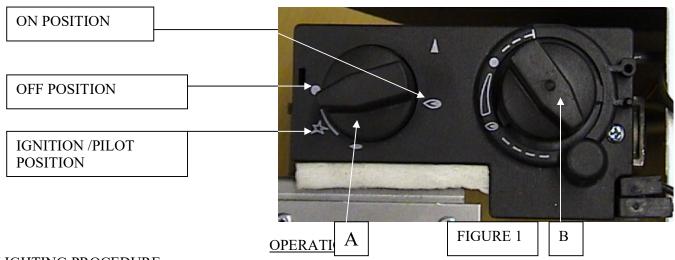
1.PUSH CONTROL KNOB IN AS FAR AS POSSIBLE ON GAS CONTROL

2.TURN KNOB ANTICLOCKWISE TO IGNITION POSITION STILL KEEPING KNOB IN AS FAR AS POSSIBLE. 3.THE IGNITION BUTTON WILL IGNITE THE PILOT WITH THIS OPERATION KEEP THE KNOB PRESSED IN FOR 15 SECONDS.IF THE PILOT FAILS TO LIGHT TURN THE CONTROL KNOB CLOCKWISE TO THE OFF POSITION, WAIT 3 MINUTES AND REPEAT THE PROCEDURE

4.WHEN THE PILOT FLAME IS ALIGHT THE CONTROL KNOB SHOULD BE ALLOWED TO SPRING OUT SLIGHTLY.TURN THE KNOB FULLY ANTICLOCKWISE TO THE HIGH POSITION.THE PILOT FLAME WILL THEN IGNITE THE MAIN BURNER.THE PILOT FLAME CAN BE VIEWED TO THE RIGHT OF THE FIRE JUST BEHIND THE FRONT LOG SET

5.THE APPLIANCE CAN BE ADJUSTED BETWEEN HIGH AND LOW BY MOVING THE CONTROL KNOB TO SUIT, THE KNOB WILL NEED TO BE DEPRESSED SLIGHTLY TO MOVE FROM LOW HIGH AND IGNITION.
6.TO TURN THE FIRE OFF, DEPRESS THE KNOB SLIGHTLY AND TURN IT TO PILOT POSITION.
7.TO COMPLETELY EXTINGUISH THE FIRE DEPRESS THE KNOB SLIGHTLY AND TURN TO OFF POSITION.
8.SHOULD THE SPARK IGNITION FAIL TO OPERATE. TURN THE CONTROL KNOB TO THE OFF POSITION AND WAIT 3 MINUTES. TURN THE KNOB TO THE IGNITION POSITION AND THEN LIGHT THE PILOT WITH A TAPER."LIGHTING THE PILOT WITH A TAPER IS AN EMERGENCY MEASURE ONLY AND THE APPLIANCE SHOULD BE SERVICED AS SOON AS POSSIBLE". AND THEN PROCEED AS STATED IN PARAGRAPHS 2/7. IMPORTANT . THIS APPLIANCE IS FITTED WITH AN OXYGEN DEPLETION SENSOR INCORPORATED INTO THE PILOT BODY. SHOULD THE FIRE REEATEDLY EXTINGUISH ITSELF THEN SPECIALIST ADVISE SHOULD BE SOUGHT, AS THIS MAY INDICATE SPILLAGE INTO THE ROOM OF COMBUSTION PRODUCTS.

MERTIK MAXITROL REMOTE CONTROL SYSTEM THESE INSTRUCTIONS ARE FOR THE USE ON CRYSTAL FIRES REMOTE CONTROL RANGE OF GAS FIRES



LIGHTING PROCEDURE

1. TURN KNOB A (FIGURE 1) SLIGHTLY LEFT TOWARDS THE IGNITION POSITION(SHOWN IN FIG 1 ABOVE) UNTIL REACHING STOP, PRESS DOWN AND HOLD FOR FIVE SECONDS

(ONLY PILOT GAS FLOWS)

- 2. CONTINUE PRESSING DOWN KNOB A WHILE TURNING FURTHER LEFT TO ACTIVATE PIEZO, CONTINUE TO HOLD DOWN FOR 10 SECONDS AFTER PILOY HAS BEEN LIT, IF PILOT DOES NOT LIGHT, STEPS 1 AND 2 CAN BE REPEATED IMMEDIATELY.
- 3. UPON LIGHTING, RELEASE KNOB A AND TURN FURTHER LEFT TO ON POSITION (SHOWN IN FIGURE 1 ABOVE) PILOT GAS FLOWS AND MAIN BURNER FLOWS IN ACCORDANCE TO THE TEMPERATURE SETTING (KNOB B AS SHOWN IN FIG 1 ABOVE)

ADJUSTING THE FLAME SETTINGS

TO TURN THE FIRE ON AND/OR TO ADJUST THE FLAME STTING, PRESS THE ON BUTTONS ON THE REMOTE HANDSET.CONTINUE PRESSING UNTIL DESIRED FLAME SETTING IS OBTAINED.PRESS AND HOLD THE OFF BUTTON TO REVERSE THE SETTING.THE RECEIVER IS EQUIPPED WITH A BUILT IN DELAY, RECOGNIZABLE BY THE FLICKERING LIGHT, TO FACILITATE FINE ADJUSTMENT OF THE FLAME THE MOTORIZED VALVE IS EQUIPPED WITH A SLIP CLUTCH, ALLOWING MANUAL ADJUSTMENT OF MAIN GAS BY TURNING KNOB B

ON BUTTONS

TO PRESS THE ON BUTTON YOU MUST PRESS THE 2 BUTTONS TOGETHER

OFF BUTTON

SHUT OFF PROCEDURE

1.TURN KNOB A RIGHT UNTIL REACHING STOP. IN THIS POSITION ONLY PILOT GAS FLOWS

2.TO SHUT OFF VALVE COMPLETELY, PRESS DOWN SLIGHTLY AND CONTINUE TURNING RIGHT FROM PILOT POSITION TO THE OFF POSITION. THE SAFETY INTERLOCK PREVENTS RE-IGNITION OF THE PILOT FLAME UNTIL THERMOCOUPLE HAS COOLED DOWN SUFFICIENTLY (ELAPSED TIME WILL VARY BASED ON THERMOCOUPLE TYPE) 3.SWITCHING OFF THE REMOTE IS NOT NECCESARY.



THE SENSOR AND BATTERY HOLDER A INSERTED BENEATH THE RIGHT SIDE OF THE FIRE. TO REPLACE BATTERIES ALLOW FIRE TO COOL FOR AT LEAST 30 MINUTES THEN PULL OUT BATTERY HOLDER, THE COVER CAN SLIDE OFF AS ABOVE AND THE BATTERIES CAN BE REPLACED. (USE ONLY LIKE FOR LIKE ALKALINE AA BATTERIES)

REPLACEMENT PARTS
BATTERY HOLDER AND SENSOR
GAS VALVE
REMOTE HANDSET

CRYSMERTIKHOLDER CRYSMERTIKVALVE CRYSMERTIKHANDSET

CLEANING

BEFORE CLEANING ANY PART OF THE FIRE ,ENSURE THAT THE GAS IS TURNED OFF AND FIRE IS COOL.

BLACK PAINT.

USE ONLY CLEAN DAMP CLOTH ,DO NOT USE ANY CLEANING AGENTS

BRASS TRIM

USE BRASSO,ENSURING YOU REMOVE THE BRASS TRIM FROM THE APPLIANCE BEFORE CLEANING

IMPORTANT

THE PAINT AND BRASS FINISH ARE DURABLE BUT WILL BE DAMAGED IF PLASTER, CEMENT, OR WALLPAPER PASTE COMES IN CONTACT WITH IT

COALS AND CERAMICS

IF FOR ANY REASON IT IS NECCESARY TO REMOVE CERAMIC PARTS, THEN BEFORE REPLACEMENT THE BURNER SHOULD BE CHECKED THAT NO PARTICLES HAVE DEPOSITED ON THE BURNER AND IF NECCESARY VACUUM THEM CAREFULLY, THEN REFER TO INSTRUCTIONS FOR REPLACING CERAMICS.

CERAMICS SHOULD BE CLEANED WITH A SOFT BRUSH



THE TAPER SHOULD BE
POSITIONED TO THE PILOT TO
THE FAR RIGHT OF CURVED
FRONT PIECE AND LEVEL
WITH PIECE 1
SHOWN LEVEL WITH THE LINE
BELOW

THE GEM CAN BE LIT WITH A TAPER SHOULD THE SPARK IGNITION FAIL TURN THE KNOB TO THE OFF POSITION AND WAIT 3 MINUTES TURN THE KNOB TO THE IGNITION POSITION AND THEN LIGHT THE PILOT WITH A TAPER THIS IS ONLY AN EMERGENCY MEASURE AND THE APPLIANCE SHOULD BE

SERVICED AS SOON AS POSSIBLE, THEN PROCEED AS STATED EARLIER FOR OPERATION

COAL BED LAYOUT

PERIODICALLY SMALL DEPOSITS OF SOOT MAY GATHER ON THE FUEL BED AND BURNER, THIS MUST BE REMOVED BY REMOVING FUEL AND BRUSHING ANY DEPOSITS WITH A SOFT BRUSH AND VACUUMING THE BURNER, THEN REPLACE FUEL USING THE FOLLOWING PROCEDURE.



Main ceramic matrix sits on back base central



Front piece sits in to well of burner and flat onto the curved front of fire tray Flat and stable



Piece marked underneath 1 sits snugly above front piece central and touching left side and right



The rear piece can be fitted to the top Sitting central and behind the coal pieces on the side matrix. Sitting flat



Piece marked underneath 2 sits flat centrally above piece 1 onto the flat ledge on the main matrix Piece 2 should not be touching piece 1 and there should be a gap of approx 5mm



Final piece marked underneath 3 sits on top of piece 2 and to the rear pieces

This piece should not actually touch the rear piece and there should be a gap of approx 5 mm

THE EFFECT CAN ALSO COME AS PEBBLES THE LAYOUT IS EXACTLY THE SAME AS ARE THE PIECES HOWEVER THE TOP EFFECT LOOKS LIKE PEBBLES RATHER THAN COAL.

FUEL BED GEM001 FRONT FIBRE GEM 003 BRASS TRIM GEM 005 CUSTOMER SPARE PARTS
MAIN MATRIX GEM002
INSTUCTIONS GEM 004

Please ensure that the installer has fully completed the Benchmark Checklist on the inside back pages of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.

This product should be serviced regularly to optimise its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service.

The Benchmark Checklist will be required in the event of any warranty. "

TERMS & CONDITIONS THE APPLIANCE MUST HAVE A GAS NOTIFICATION

AS OF 01/03/2016 BENCHMARK FORM MUST BE FILLED IN COMPLETELY AT TIME IF INSTALLATION Two Year Parts & Labour Guarantee.

Crystal Fires Ltd guarantees your fire for two years against defective manufacturing and material, including parts and labour, subject to the following terms and conditions. Further Three Year Parts Only Guarantee. Your Crystal Fire is covered for a further three years for parts only against defective manufacturing and materials, subject to the following terms and conditions. 1. This guarantee applies to gas fires only. Electrical appliances are not included. 2. Installation must be carried out by a qualified Gas Safe Registered engineer, in accordance with the supplied instructions and a gas safety certificate must be issued by the installer. The product must be operated in accordance with the supplied instructions. 3. The enclosed guarantee registration form must be fully and correctly completed and returned to Crystal Fires within 14 days of the installation. 4. The fire must be serviced annually by a Gas Safe Registered engineer and a gas safety certificate must be issued by the engineer, irrespective of the amount of use of the appliance. The service must include replacement of the oxypilot assembly. 5. The appliance must be kept free from dust, dirt and debris by the user, in accordance with the cleaning instructions. 6. This guarantee is non-transferable and is made to the original owner provided that the purchase was made through an approved Crystal Fires stockist. 7. This guarantee is limited to the repair or replacement of parts found to be defective in material or workmanship after confirmation of the defect by a Crystal Fires engineer, provided that such parts have been subjected to normal conditions of use. 8. Any installation, labour, transportation or any other related costs or expenses arising from defective parts, repair or otherwise of same, are not covered by the guarantee, nor shall Crystal Fires assume responsibility for them. Furthermore, Crystal Fires will not be responsible for any incidental, indirect or consequential damages, except as provided by law. 9. All other guarantees – expressed or implied – with respect to the product, it's components and accessories or any obligations or liabilities on the part of Crystal Fires are hereby expressly excluded. 10. Crystal Fires neither assumes nor authorises any third party to assume on it's behalf, any other liabilities with respect to the sale of this Crystal Fire appliance. 11. This guarantee does not apply to any other product not manufactured by Crystal Fires, such as prefabricated flue boxes and flues. 12. Crystal Fires will not be responsible for:-

- 1. Down drafts or spillage caused by environmental conditions such as nearby trees, buildings, rooftops, hills or mountains. 2. Inadequate ventilation or negative air pressure caused by mechanical systems such as extraction fans, cooker extraction hoods, clothes dryers etc.
- 13. This guarantee is void if:-
- 1. The appliance has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals. 2. The appliance is subjected to prolonged periods of dampness or condensation. 3. Any damage to the combustion chamber, heat exchanger or other components due to water or weather damage which is the result of, but not limited to, improper chimney/venting insulation. 4. Any alteration, wilful abuse, accident or misuse of the product.
- 14. This guarantee does not apply to:-
- 1. Parts that need to be replaced on a routine basis e.g. coals. 2. Cosmetic blemishes to polished metal and painted surfaces. 3. Surface crazing to fibre liners. 4. remote control handsets, switch panels or receivers or discoloring or marking on glass