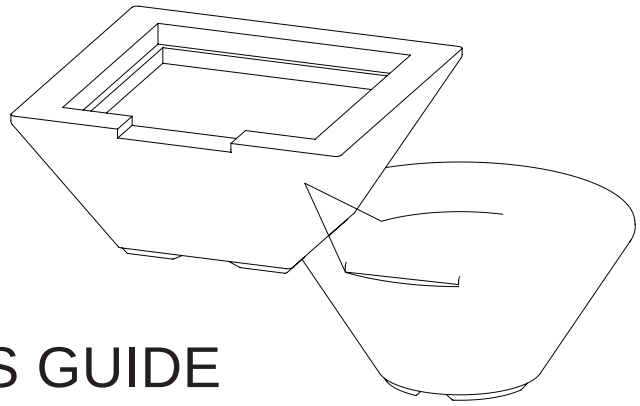
PENTAIR



MAGICFLAME™
FIRE AND WATER BOWL

INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

[redacted] FOR YOUR SAFETY - READ BEFORE OPERATING!
,I WKH LQIRUPDWLRQ LQ WKLV PDQXDO LV QRW IROOR
UHVXOW FDXVLQJ SURSHUW\ GDPDJH SHUVRQDO LQMXU\ RU OR
PDQXDO FDOO

⚠ DANGER RISK OF FIRE OR EXPLOSION! ,P SURSHU LQVWDOODWLRQ DQG R
UHVXOW LQ ÀDPPDEOH JDV OHDNV ZKLFK FRXOGUUHVX
PDMRU SURSHUW\ GDPDJH

⚠ DANGER FIRE OR EXPLOSION HAZARD!

IF YOU SMELL GAS:
- 6KXW R‡ JDV WR WKH DSSOLDQFH
- ([WLQJXLVK DQ\ RSHQ ÀDPH
- ,I RGRU FRQWLQXHV OHDYH WKH DUHD LPPHGLDWHO\
- $IWHU OHDYLQJ WKH DUHD FDOO \RXU JDV VXSSOLHU RU ¿U

)DLOXUH WR IROORZ WKHVH LQVWUXFWLRQV FRXOG UHVXOW LQ
SURSHUW\ GDPDJH SHUVRQDO LQMXU\ RU GHDWK

[redacted] FOR OUTDOOR USE ONLY! ,QVWDOODWLRQ DQG VHUYLFH PXV
TXDOL¿HG LQVWDOOHU VHUYLFH DJHQF\ RU WKH JD

DSSOLDQFH

⚠ DANGE

INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.
CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.

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Hours: 9:00AM to 7:00PM EST (6:00AM - 4:00PM PST)

Call: (800) 831-7133

Visit: www.pentair.com

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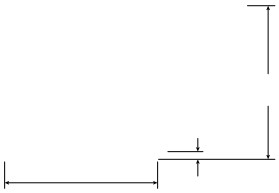
BOWL DIMENSIONS



Natural Gas (NG) Requirements

Ensure that the service supplying the ýre feature is ýtted with a positioned shut o valve that is easily accessible.

Always check the rating plate to make sure the gas supply you are connecting to is the gas intended for your ýre feature. The installation of this appliance to a ýxed piping system must conform with local codes or, in the absence of local codes, to the National Fuel Gas Code, ANSI 2223.1, NFPA 54; National Fuel Gas Code; Natural Gas and Propane Installation Code, CSA 8149.1 as applicable.

Natural gas connection must be performed by a licensed contractor or local gas company representative.

6 X S S O \ 3 U H V V X U H
Minimum: 6.3” W.C.
Normal: 7.0” W.C.
Maximum: 7.7” W.C. (1/2 psi)

Pressure Testings
If the ýre feature is installed with a ýxed fuel piping system and equipped with an appliance gas pressure regulator, the ýre feature and its individual shut-o valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressure in excess of 1/2 psi (3.5 kPa).

The ýre feature must be isolated from the gas supply piping system by closing its individual manual shut o valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2

GAS LINE INSTALLATION

ELECTRICAL INSTALLATION

When using multiple ýre features, the total allowable wattage is 300 Watts. A transformer should only be loaded to 80% of its capability.

For example: A 300 watt transformer should have no more than 240 watts attached to it. A single MagicFlame is 60 Watts maximum. No more than four MagicFlame features can be connected to a 300 watt transformer.

1. 'LVFRQQHFW DOO SRZHU WR WKH FLUFXLW DW WKH FLUFXLW EUHDNHU
2. Install 1ò electrical conduit and glue an elbow on top to prevent water ýlling the conduit.
3. Feed cord through the niche and conduit to the Junction Box or 12 VAC Transformer.

INSTALLING THE BURNER ASSEMBLY

ADDING FIRE MEDIA

[redacted] ONLY use approved fre media, correctly distributed, to ensure safety and proper combustion. Never use non-porous material, or any material that holds moisture, such as gravel, pebbles, river rock, etc.

When heated, non-porous material will not allow steam to properly vent which can result in the material fracturing and causing personal injury or property damage. When heated, materials that hold moisture can boil and fracture unexpectedly and cause personal injury or property damage.

1. Place ýre media onto the support plate.

   Note: Do not overýll the support plate.

2. Spread the media evenly over the support plate and burner. Depth of media should be approximately 3 inches.

   Note: Ensure the burner is covered, but not buried. If using ýre glass, cover the burner with a 1/4-inch to 1/2-inch of glass. See FIGURE 9.

   Note: Do not cover the top of the pilot hood. The pilot needs air to operate properly. See FIGURE 9.

3.

REPLACING THE PILOT ORIFICE

The pilot oriýce is located at the base of the pilot/igniter assembly and the burner oriýce is located at the end of the main burner pipe.

Each oriýce is speciýc for either Natural Gas or Propane.

1. Turn o the electrical and gas supply to the ýre feature.
2. Remove ýre media from the bowl.

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1.

REPLACING THE BURNER ORIFICE & 217

12. Position the heat shield and tighten the jam nut by hand until it holds the heat shield in place.
13. Using a wrench, tighten the jam nut until the heat shield is ýrmly secured.
14. Apply pipe thread sealer onto the burner inlet pipe. See FIGURE 22.
15. Thread the control box outlet onto the burner inlet pipe and clockwise until tight. See FIGURE 23.
    Note: Ensure the heat shield is not blocking the pilot hole. See FIGURE 24.
16. Update the label on the bottom of the control box to indicate the ýre feature has been converted to operate on propane gas.

FIGURE 22

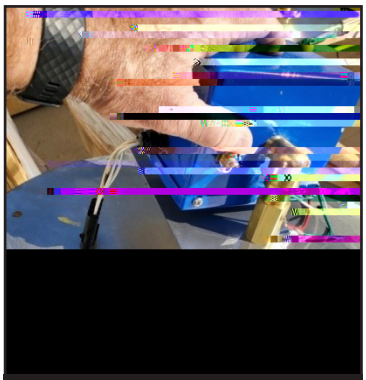

FIGURE 23

FIGURE 24

TROUBLESHOOTING

,I H[SHULHQFLQJ WURXEOH ZLWK WKH ¿UH IHDWXUH FRQWDFW D TXDOL¿H

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