

## **ALTITUDE OF INSTALLATION:**

The heater may be installed at any altitude up to 10,100 ft above sea level, provided the appropriate modification(s) are performed. The altitudes which require modification vary depending on the model. Parts necessary to convert the heater for outdoor installation at altitudes up to 7,700 ft (minimum) are included with the heater. Conversion is accomplished by replacement of the blower air inlet plate, and for indoor applications, installation of a special vent pressure switch. The blower air inlet plates are clearly marked with the compatible heater model(s), vent configuration(s), and altitude range(s). Care should be taken to verify the correct plate (and vent pressure switch, when applicable) is being used to ensure proper heater performance. The vent pressure switch should be provided with the indoor adapter kit, or if you have an older indoor adapter kit, order p/n FDXLVPS1931 for the high-altitude indoor vent pressure switch.

### **High-Altitude Conversion Procedure:**

1. Identify the altitude of the installation site. This may be done using a GPS device, or by looking up the altitude for the geographic location. Altitudes for all locations in the United States and Canada may be found using the zip/postal code database at [www.zip-codes.com](http://www.zip-codes.com). If the altitude for the installation site is greater than 10,100 ft, the heater may not be installed. Note that if installing outdoors, some Universal H-Series heaters may be compatible with your altitude without modification. Table 1 lists the altitude ranges for heaters without modification. All indoor heaters installed above 2,000 ft require a special vent pressure switch.
2. Select the appropriate blower air inlet plate to use based on the heater model, vent configuration (outdoor or indoor), and altitude needed. Extra plate(s) are included with the heater, packaged in the plastic bag with this manual. Each plate has a label which identifies which model(s), vent configuration(s), and altitude range(s) it is designed for. Table 1 lists the maximum installation altitudes using the included conversion plate(s). If installing above 7,700 ft, the high-altitude kit

***USE ONLY HAYWARD GENUINE REPLACEMENT PARTS***



**HAYWARD** Pool Products  
A Hayward Industries, Inc. Company

Pomona, CA Clemmons, NC Nashville, TN  
Tel: 908-351-5400 [www.haywardpool.com](http://www.haywardpool.com)

FDXLHAK1930 (sold separately) may be necessary.

3. If installing indoors, select the appropriate high-altitude indoor vent pressure switch from the indoor adapter kit or from the FDXLVPS1931 kit. Each switch has a label which identifies which model(s) and altitude range(s) it is designed for.
4. If connected, turn pump, main gas valve, and heater power off.
5. Remove heater front access door.
6. Remove the 4 #10 hex head screws that fasten the blower air inlet plate to the blower, and remove the blower air plate and discard. Save the 4 screws as they will be needed to install the new plate.  
See Figure 49 (page 47).
7. Install the appropriate blower plate from the kit using the 4 screws. It may be helpful to drive the screws in and out of the plate outside of the heater first to “thread” the holes before installing it in the heater.
8. If the installation is configured for indoor venting, a special high-altitude vent pressure switch must be installed. Follow the instructions for vent kit installation (page 17), but use the appropriate blower air inlet plate and vent pressure switch for your altitude.
9. Re-install heater front door.
10. If connected, turn pump, main gas valve, and heater power back on.
11. Activate heater and check for proper function.

Table 1 lists the maximum altitudes each model is designed for with: a) no modifications, b) the included conversion plate installed, and c) the accessory conversion kit FDXLHAK1930 installed (sold separately).

**TABLE 1**

Heater Model	Gas	Maximum Installation Altitude					
		Outdoor Installation			Indoor Installation *		
		No Modifications to Heater	Included Conversion Plate Installed on Heater	Conversion kit FDXLHAK1930 Installed on Heater	No Modifications to Heater	Included Conversion Plate Installed on Heater	Conversion kit FDXLHAK1930 Installed on Heater
H150FDN	NAT	7,700 ft	N/A	10,100 ft	10,100 ft	N/A	N/A
H150FDP	LP	7,700 ft	N/A	10,100 ft	2,000 ft	10,100 ft	N/A
H200FDN	NAT	10,100 ft	N/A	N/A	10,100 ft	N/A	N/A
H200FDP	LP	5,400 ft	10,100 ft	N/A	2,000 ft	10,100 ft	N/A
H250FDN	NAT	5,400 ft	10,100 ft	N/A	2,000 ft	10,100 ft	N/A
H250FDP	LP	2,000 ft	7,700 ft	10,100 ft	2,000 ft	7,700 ft	10,100 ft
H300FDN	NAT	10,100 ft	N/A	N/A	10,100 ft	N/A	N/A
H300FDP	LP	2,000 ft	10,100 ft	N/A	2,000 ft	10,100 ft	N/A
H350FDN	NAT	2,000 ft	10,100 ft	N/A	2,000 ft	10,100 ft	N/A
H350FDP	LP	2,000 ft	7,700 ft	10,100 ft	2,000 ft	7,700 ft	10,100 ft
H400FDN	NAT	10,100 ft	N/A	N/A	10,100 ft	N/A	N/A
H400FDP	LP	2,000 ft	7,700 ft	10,100 ft	2,000 ft	7,700 ft	10,100 ft

\* All indoor installations at altitudes above 2,000 ft also require a special vent pressure switch to be installed in addition to the blower air inlet plate. The special vent pressure switch is included with the appropriate indoor vent kit (UHXNEGVT1xxx or UHXPOSHZ1xxx), or the high-altitude vent pressure switch kit FDXLVPS1931.

**USE ONLY HAYWARD GENUINE REPLACEMENT PARTS**