



**Gas Fired Boilers**  
**MASSACHUSETTS**  
**SUPPLEMENT**

Harsco Industrial Patterson-Kelley  
100 Burson Street  
East Stroudsburg, PA 18301  
Telephone: (570) 476-7261  
Toll Free: (877) 728-5351  
Facsimile: (570) 476-7247  
[www.harscopk.com](http://www.harscopk.com)

# SUPPLEMENT

## Commonwealth of Massachusetts

### Installation & Owner's Manual

**In the Commonwealth of Massachusetts, the following modifications to ALL P-K Gas Fired Boiler, Operating & Maintenance manuals apply.**

#### Section 3.2 Compliance with codes

- In the Commonwealth of Massachusetts this unit must be installed by a licensed gas fitter or plumber
- The Commonwealth of Massachusetts requires compliance with the National Fuel Gas Code ( NFPA 54, ANSI Z223.1) with the following modifications to Chapter 10:

Revise 10.8.3 by adding the following additional requirements:

- (a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:
  1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
    - a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
    - b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.
  3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "**GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS**".
  4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.
- (b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:
1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
  2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.
- (c) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:
1. Detailed instructions for the installation of the venting system design or the venting system components; and
  2. A complete parts list for the venting system design or venting system
- (d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:
1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
  2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

- (e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

### **Section 3.6 Flue Venting**

- In the Commonwealth of Massachusetts piping of condensate shall conform with the State Plumbing Code
- Required clearances in the Commonwealth of Massachusetts

Provide clearances between combustion air intake, exhaust between combustion air intake, exhaust vent, roof and wall surfaces, doors and window and snow line as shown in the following diagrams. The exhaust vent termination must be not less than 7 feet above grade in accordance with section 10.3.4.6 of ANSI Z221 (NFPA 54) . The exhaust may not be vented directly above a public walkway per section 10.8.4 of the same standard. It must also have a minimum 6 foot horizontal and 6 foot vertical clearance (above or below) any electric meters, regulators or relief equipment.

### **Section 3.7 Gas Piping**

- In the Commonwealth of Massachusetts field installed gas cocks must be "T" handle type