



BUILDINGS BULLETIN 2014-011

OTCR

Supersedes: None

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Issuance Date: August 28, 2014

Purpose: This document establishes acceptance criteria for direct-fired outdoor non-recirculating construction heaters as alternative equipment in the NYC Construction Codes.

Related Code	AC 113.2.3	FGC 106.5	FGC 411
Section(s):	FGC 101.2.2	FGC 107.1	MC 926 (928)*
	FGC 101.2.3	FGC 301.3	

*parenthesis denotes corresponding section of 2014 NYC Construction Codes

Subject(s): Construction heater, gas fired heater; Construction heater, salamander

Background: Direct-fired outdoor non-recirculating construction heaters are not regulated in the NYC Construction Codes. This bulletin establishes criteria for direct-fired outdoor non-recirculating construction heaters. The "[Temporary Heat Installation in High Rise Buildings FACT SHEET](#)" covers salamanders which are recirculating open fire heaters. Salamanders are not addressed in the bulletin.

Description: A direct-fired outdoor non-recirculating construction heater consists of a burner, gas pressure regulator and controls. This temporary construction heater is placed on the ground or on the roof, open to the sky. The unit heats fresh air which is ducted to spaces intended to be heated when under construction. These non-recirculating heaters do not use heated indoor air for combustion. Only outdoor air is used for combustion.

Evaluation Scope: NYC Construction Codes

Evaluation Criteria: Pursuant to section AC 28-113, the Office of Technical Certification and Research recognizes direct-fired outdoor non-recirculating construction heaters tested and evaluated in accordance with ANSI Z83.7 "*Gas-Fired Construction Heaters.*"¹ Acceptable direct-fired outdoor non-recirculating construction heaters shall be listed and labeled by an approved agency in accordance with section AC 28-113.2.3 and shall comply with the conditions of this bulletin.

Uses: Direct-fired outdoor non-recirculating construction heaters are intended for temporary use in heating spaces or buildings under construction.

Restrictions:

- This bulletin does not cover recirculating construction heaters.
- Such unit is not intended to serve as permanent heating systems for occupied buildings or portions of occupied buildings.
- This bulletin covers natural gas-fired units only.

Conditions of Acceptance: Direct-fired outdoor non-recirculating construction heaters shall be designed, filed and installed in accordance with the NYC Construction Codes and other applicable provisions including but not limited to the following:

A. Design

1. Direct-fired outdoor non-recirculating construction heaters shall be sized for a minimum complete exchange of air every two hours in accordance with manufacturer's recommendation and conditions of the listing.
2. Direct-fired outdoor non-recirculating construction heaters shall comply with noise control requirements per section MC 926.

B. Filing

1. The licensed master plumber must:
 - Submit an "LAA 1" application to the Department. In the "Description of Work" section list the make, model and the number of heaters installed.
 - Schedule an appointment through the Call Center for gas roughing-in and gas test inspection.
 - Schedule a finish inspection through the Call Center to confirm heaters are properly installed
 - Upon successful inspection may request gas authorization for the duration of the heat season.
2. At the end of the heat season, the meter, construction heater and the associated piping shall be removed and properly sealed at the point of gas services and the LAA1 shall be signed off either by a self-certification or DOB inspection.

C. Installation Requirements

1. Installation requirements shall be in accordance with the manufacturer's instructions, the applicable listing and the conditions of this bulletin.
2. Direct-fired outdoor non-recirculating construction heaters shall be installed and dismantled by a licensed master plumber.
3. The unit shall be installed with natural gas only. It shall be installed outdoors on the ground or on the roof and shall not be installed where flammable gases or vapors are present.
4. Fresh air shall be supplied in sufficient quantities to maintain the health and safety of employees. The unit shall operate only with adequate means of fresh air.
5. Units shall be installed on noncombustible flooring. Clearances from adjacent combustible surfaces shall meet the minimum clearances indicated by the manufacturer's instruction and the applicable listing.

6. Direct-fired outdoor non-recirculating construction heaters shall be labeled as per section AC-113.4. All shipment and deliveries of materials shall be accompanied by a label certifying the material shipped or delivered are equivalent to those tested and approved.

**Referenced
Standards:**

1. ANSI Z83.7-2011 *“Non-recirculating Construction Heaters”*