

# LISTING REPORT

## INTERTEK TESTING SERVICES NA INC.

3933 US ROUTE 11

CORTLAND, NY 13045

Job No. 3023279-421  
3141307SVN

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REPORT NO. 3023279-003

INSPECTION, TESTS AND EVALUATION  
OF A  
NON-RECIRCULATING DIRECT GAS-FIRED INDUSTRIAL AIR HEATER

RENDERED TO

ABSOLUTAIRE  
KALAMAZOO, MI

GENERAL: This Report gives the results of the inspection, tests and evaluation of a Non-Recirculating Direct Gas-Fired Industrial Air Heater for compliance with applicable requirements of the Standard for Non-Recirculating Direct Gas-Fired Industrial Air Heaters (ANSI Z83.4-2003 / CSA 3.7-2003, ANSI Z83.4a-2004 / CSA 3.7a-2004, ANSI Z83.4b-2006 / CSA 3.7b-2006). This investigation was authorized by Purchase Order No. 14047, dated 04/02/02. The investigation was begun on May 15, 2002 and completed on July 31, 2003. Two prototype samples in good condition were provided by the client on May 15, 2002 and tested at the client's facility in Kalamazoo, MI.

Non-Recirculating Direct Gas-Fired Industrial Air Heaters  
\*ANSI Z83.4/CSA 3.7, 2013, Addenda A – B Issued: 3/1/2013

Participant: AbsolutAire, Inc.  
5496 North Riverview Drive  
Kalamazoo, MI 49004

Manufacturer: Same as Participant

Contact: Robert T. Jauch Jr.  
Phone: 269-382-1875  
Fax: 269-382-5291

Contact:  
Phone:  
Fax:

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**PRODUCT DESCRIPTION**

**PRODUCT COVERED**

Non-Recirculating Direct Gas-Fired Industrial Air Heaters.

Series R, model numbers R followed by: 318,320,327-427, 330-430, 336-436, 340-440, 344-444, 349-449, 354-454, 360-460, 366-466, 373-473, 380-480, 389-489 followed by U or H, followed by O (100% OA constant volume) or V(100% OA variable volume), followed by X (Maxon Burner), E (Eclipse Burner) or M (Midco Burner).

**PRODUCT DESCRIPTION**

The product covered by this report is a series of gas-fired air heaters utilizing a burner in the air stream such that the products of combustion are diluted in the fresh air passing through the heater. Units are intended for use in industrial and commercial applications. The unit described herein consists of an air handling enclosure with provisions for all inlet air to be ducted directly from the outdoors. Units have a SWSI Airfoil fan powered by up to a 150 HP motor. Blower size and motor horsepower determine unit airflow ratings. Units are equipped with a gas-fired line burner and appropriate gas control devices. Gas input rate is determined by the length of the burner and the manifold pressure. The product is intended to be permanently connected to the electrical and gas supply source.

Fuels: Natural and LP Gas

Unit Configuration: Draw Through, Horizontal or Vertical

Discharge Configurations: Horizontal, Upwards, Downwards, Right or Left

Installation: Indoor or Outdoor

**MODEL SIMILARITY**

The product covered by this report is a series of semi-custom manufactured direct fired units. This report describes basic models plus a number of optional features which are certified for use with these models, singly or in combination. It is considered difficult to assign suffixes and prefixes which would identify all possible combinations to the basic model number. Therefore, to maintain traceability of models shipped and installed, the manufacturer must record by serial number and site location each sale, and make such records available to ITS on request.

Unrestricted approved inlet accessories include filter sections, inlet dampers, and weather hoods or inlet plenums. Inlet accessories include evaporative coolers and coils. The basic descriptions given in this report cover all configurations.