

LISTING REPORT

INTERTEK TESTING SERVICES NA INC.

3933 US ROUTE 11

CORTLAND, NY 13045

Job No. 3023279-421
3023279SVN4

Issued: February 25, 2004
Revised: March 13, 2014

REPORT NO. 3023279-004

INSPECTION, TESTS AND EVALUATION
OF A
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 Recirculating Direct Gas-Fired Industrial Air Heater for compliance with applicable requirements of the Standard for Recirculating Direct Gas-Fired Industrial Air Heaters (ANSI Z83.18-2004, ANSI 83.18a-2005, ANSI 83.18b-2008). 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.

*ANSI Z83.18-2012 Dated: 12/01/2012
Standard for Recirculating Direct Gas-Fired Industrial Air Heaters

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PRODUCT DESCRIPTION**PRODUCT COVERED –**

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 M (Modulating recirculation 15% minimum OA), B(2-Position, minimum 15% or 100% OA) or F(Fixed minimum 15% OA), 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. The units are equipped to permit recirculation of air across the burner.

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.