



Listing Constructional Data Report (CDR)

1.0 Reference and Address			
Report Number	3177218CRT-001	Original Issued: 8-Jun-2009	Revised: 12-Mar-2014
Standard(s)	American National Standard for Recirculating Direct Gas-Fired Industrial Air Heaters ANSI Z83.18 – 2012 Edition, Dated: December 1, 2012		
Applicant	AbsolutAire, Inc.	Manufacturer	AbsolutAire, Inc.
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2.0 Product Description	
Product	Direct Gas-Fired Industrial Air Heater
Brand name	The AbsoluteAire E Series Air Turnover heater
Description	<p>The product covered by this report is a Direct Gas-Fired Industrial Air Heater.</p> <p>The AbsolutAire E Series Air Turnover heater is a permanently connected heater designed for, but not limited to, manufacturing spaces, warehouses, athletic facilities and other similar spaces. The E series uses a direct fired nozzle mixed line burner and minimal outside air to provide the necessary BTUs to overcome space skin loss and axial fans to mix room air with heated air.</p> <p>The E series heater is controlled by a programmable thermostat and standard controls which include; VFD controlled supply air fan, motor overload protection, high and low airflow switches, High temperature limit switch, non-fused disconnect switch, control circuit fusing, burner and combustion air pressure gauges and supply voltage of 120,208, 230,380,460, and 575 Volts, 1 or 3 phase, 50 or 60 Hz.</p> <p>The Standard construction of the E series is heavy gauge aluminized skins, or galvanized steel skin constructed of 24 gauge (0.0276") minimum steel with a minimum of G60 galvanized coating, over heavy duty, custom extruded aluminum framing. Hinged access doors are standard along with 1" aluminum filters. The E series is available with the following options:</p> <p>Multiple air filter options: DDC controls, with web access option - Smart stat with BACnet or LONtalk BMS interface Motorized discharge louver blades - Foil faced insulation Internal fan and motor vibration isolation - External 'whole unit' vibration isolation; VFD for combustion blower motor; Through door fused disconnect switch Insulated double wall construction - Discharge extension; Access door interlock switch; Dirty filter light and/or alarm horn and/or magnahelic gauge - 120V/10/60Hz GFI service outlet and light - Burner-failure alarm horn Smoke detector Inlet gas pressure gauge - High gas pressure regulator; FM or IRI insurance gas manifold; High and/or low gas pressure switches Additional OA Damper Assembly Stainless Steel Skins Painted Skin (Enamel, Epoxy or Phenolic); Service Platform; Cooling Coils - DX cooling, CW cooling - Evaporative cooling Piloted Ignition Fuel to be used is natural gas, the unit configuration is blow through, vertical with horizontal inlet and discharge. These units are intended to be used indoors only.</p>
Models	<p>Model numbers Ex-yy-zz, where: E is the AbsolutAire designation for the series. x designates cabinet size (1,2,3,4, 5, and 6). yy is the BTUh capacity of the burner in 100,000 BTUh multiples, (4, 6, 8,10, 15, 20, 25, 30,35, 40, 45, 50, 55, 60, 65, and 70). For example, 4 is 400,000 BTUh, and 30 is 3,000,000 BTUh. zz is the CFM capacity of the supply fan in 1000 cfm multiples (10,15,20,25,30,35,40,45, 50, 55, 60, 70, 80, 90, 100,110, and 120). For example, 10 is 10,000 cfm and 90 is 90,000 cfm. See selection chart for further detail.</p>
Model Similarity	NA