



TECHNICAL SPECIFICATIONS - AIRA GDH DIRECT FIRED HEATERS

GENERAL

AIRA GDH units are direct fired gas appliances capable of supplying highly efficient heating into areas with sufficient ventilation and 100% outside air to be supplied.

CABINET

The main paneling and weatherproof casing enclosing the gas train and controls are made from galvanized steel. Each unit has Duct Mate for easy installation with onsite ductwork.

FAN & BLOWER REQUIREMENT

GDH units require airflow across the burner to operate. A factory installed pressure switch acts as a safeguard preventing operation if there is insufficient airflow. Pressure switches are to be set on site. GDH units can be paired with a Seeley International evaporative cooler to provide a combined heating and cooling system.

Contact Seeley International with your system requirements and we will be able to match an appropriate fan/blower for the onsite requirements.

MAIN CONNECTION DUCT

GDH units are fitted with Ductmate for connections.

Type B Compliance

All AIRA GDH units will require type B certification and are supplied with the relevant data for submission to governing approval authority.

Electrical Controls

All units have a control box housed in a weatherproof casing. Units may be controlled by factory supplied Rotary Switch and wall temperature sensor or by using a field supplied BMS. Units will require single phase power. Additional 3 phase power will be required to operate the connected blower.

Configuration Operations

Options:

1. BMS or Rotary Switch/ Wall Sensor
2. 2 position motorized dampers for increased cooling airflow

Restrictions on Installations

GDH units shall NOT be installed in domestic or residential premises. For all other applications the approval of the gas technical regulator shall be obtained. A risk assessment of the installation location is to be conducted with reference to the relevant Australian Standards and the Building Code of Australia.

Maintenance Requirements

All GDH units require 6 monthly testing in accordance with AS3814 to ensure that the concentration of carbon monoxide, carbon dioxide, formaldehyde, and oxides of nitrogen are below the allowable limits.

Emmissions Data

GDH unit emissions will vary depending on gas pressure and airflow across the burner. An estimated CO and NO2 level can be provided for the unit by contacting Seeley International. Unit emissions are to be tested and recorded during commissioning and 6 monthly testing to ensure they meet Australian Standards and local regulations and requirements.

User Control

Units can be fitted with either an Rotary switch, or connected to a BMS system. A Rotary Switch and Thermostat is the default option.

Interface for BMS:

Fan: ON/OFF or LOW/HIGH
Heat: ON/OFF
Modulation: 0-10VDC

A Rotary Switch and Thermostat setup:

Off
Fan Low (If 2 Speed Motor is fitted to fan)
Fan High
High Cool (If Cooler Fitted)
Low Cool (If Cooler Fitted)
Heat

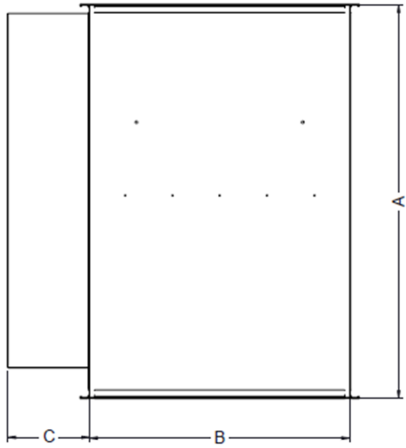


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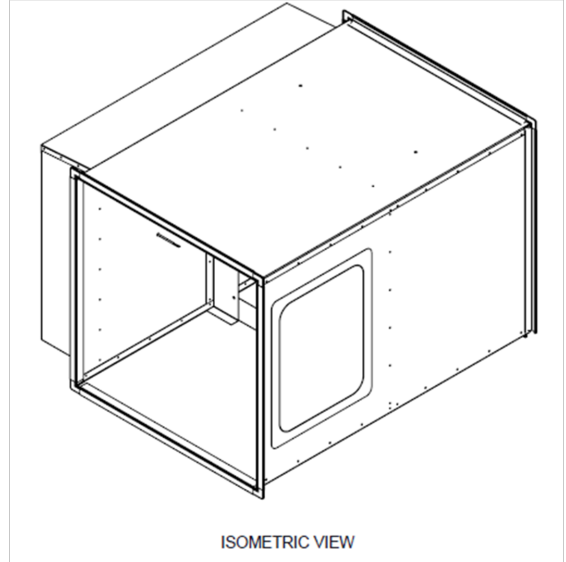


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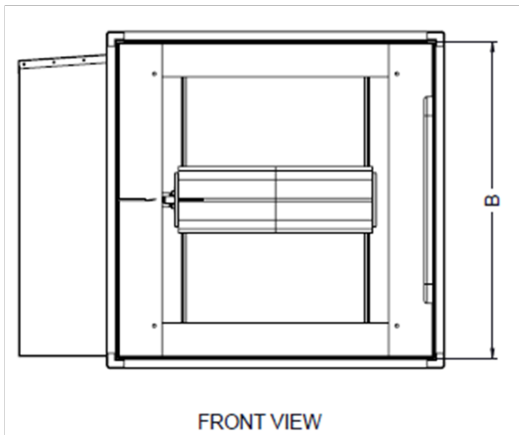
UNIT DIMENSIONS



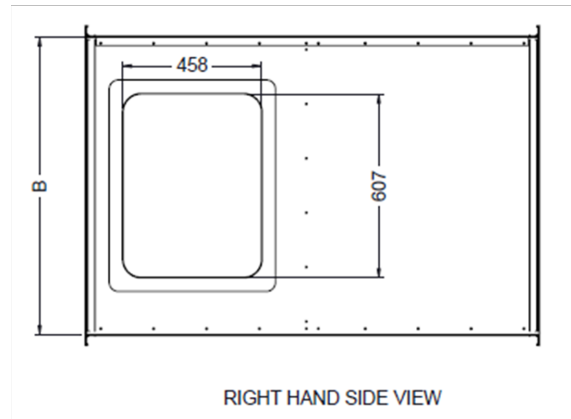
TOP VIEW



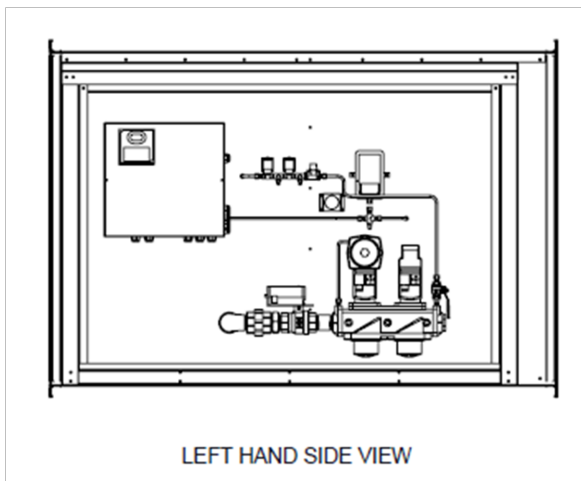
ISOMETRIC VIEW



FRONT VIEW



RIGHT HAND SIDE VIEW



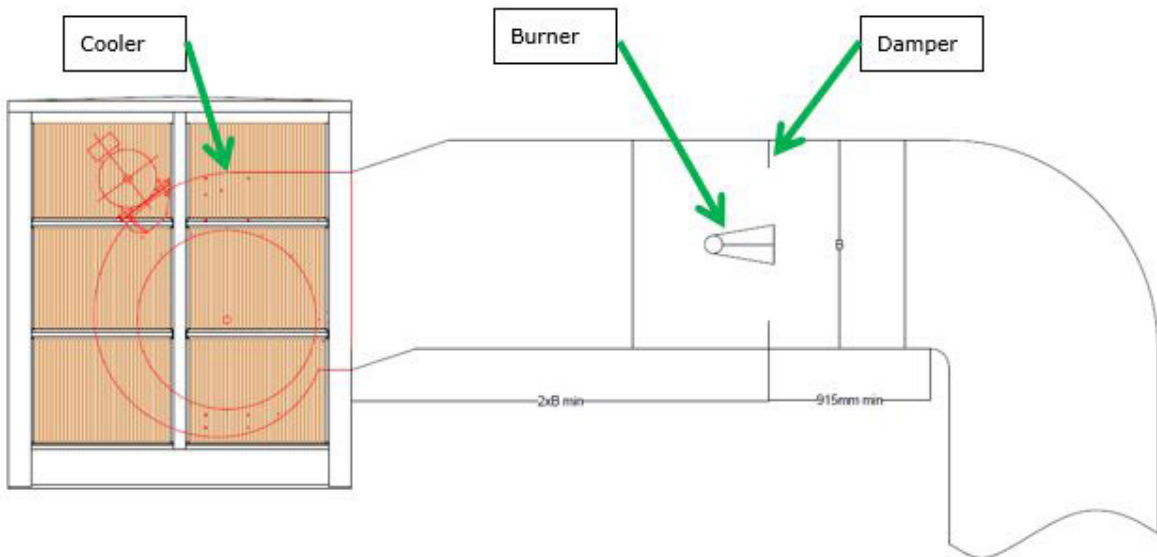
LEFT HAND SIDE VIEW

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UNIT DIMENSIONS

UNIT	1055	1585	2110	2500
A	1500	1500	1500	1500
B	990	1150	1400	1400
C	310	310	310	310

TYPICAL INSTALLATION



Note: Centre of blower blast area to align with centre of burner. The burner shall be at least 2x the diameter/width of the duct from the air supply source. At least 915mm of straight duct after the damper is to be installed before a bend

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PERFORMANCE SUMMARY

MODEL:			GDH1055	GDH1585	GDH2110	GDH2500
HEATING PERFORMANCE	Airflow 35C Temp Rise	(L/s)	6379	9580	12759	15110
	Airflow 42C Temp Rise	(L/s)	5316	7983	10623	12592
	Airflow 55C Temp Rise	(L/s)	4059	6096	8119	9615
	Input Gas	(MJ/Hr)	1055	1585	2110	2500
	Output	(kW)	293	440	586	694
SERVICES	Electrical	Voltage V/Ph/Hz	240/1/50 and 415/3/50 for blower	240/1/50 and 415/3/50 for blower	240/1/50 and 415/3/50 for blower	240/1/50 and 415/3/50 for blower
		Max Power (kW)	1.15	1.15	1.15	1.15
	Duct Connections**	(mm)	990x990	1050x1050	1400x1400	1400x1400
CONTROLLER	Type	Standard	Rotary Switch	Rotary Switch	Rotary Switch	Rotary Switch
	Type	Optional	BMS	BMS	BMS	BMS
	Voltage	V/Ph/Hz	BMS (Customer Supplied)	BMS (Customer Supplied)	BMS (Customer Supplied)	BMS (Customer Supplied)
GAS SUPPLY (NG&LPG)	Maximum	(kPa)	7.0	7.0	7.0	7.0
	Minimum	(kPa)	1.12	1.12	1.12	1.12
TEST POINT NG	High	(kPa)	Installation depedant			
	Low	(kPa)				
GAS SUPPLY SIZE		(mm)	40mm	40mm	40mm	40mm
DIMENSIONS	Shipping	(mm)	1600Wx-1700Dx1200H	1600Wx-1700Dx1300H	1600Wx-1700Dx1600H	1600Wx-1700Dx1600H
	Service Clearance All Sides	(mm)	1000	1000	1000	1000
WEIGHT	Shipping	(kg)	155	180	297	302
	Operating	(kg)	120	145	267	272

* AIRA GDH units operating at the above gas rates will have a static pressure difference of 125Pa across the burner. Contact Seeley International for further information.

**AIRA GDH units are assessed on a per installation basis. Unit dimensions and gas rate may vary