

# UCA CONVENTIONALLY FLUED HEATERS



**Reznor<sup>®</sup>**  
THE NAME FOR WARM AIR

# UCA – CONVENTIONALLY FLUED HEATERS

## UCA – Conventionally Flued Heaters

Designed for use in a wide range of free blowing commercial and industrial applications such as workshops, garages, production facilities and warehouses, UCA heaters offer a cost effective efficient means of space heating. Units may be either suspended or mounted on wall brackets so that they do not infringe on valuable floor space.

## Features

- Conventional flue
- Axial fan
- Suitable for natural gas (G20)
- Aluminised steel heat exchanger
- Horizontal louvres
- Piezo ignition system

## Options

- Vertical louvres
- Downturn nozzles (30° and 60°)
- Suitable for propane gas
- Economy thermostat
- Wall mounting brackets

## Benefits

- Easy installation and maintenance
- Low cost



## Specification

### Heat Exchanger

The all welded venturi tube exchanger is designed for extended operational life and has an unrivalled track record for durability.

### Burners

Corrosion resistant aluminised steel burners with stainless steel ribbons are mounted in a slide out burner tray. The burner tray withdraws from the left side of the heater when facing the air inlet.

### Air Handling

Direct drive axial flow fans fitted with single phase 230V motors provide quiet and effective air distribution. Two fans are fitted on models 75 and 95.

An optional “economy thermostat” may be fitted to heaters suspended at high level to recirculate warm air back down to working level during periods when the burners are switched off.

Horizontal discharge louvres are fitted as standard. Additional vertical louvres may be fitted as an option.

Downturn nozzles are available to deflect the airflow and are recommended for units fitted at higher mounting heights.

The fan operation is controlled by an integral fan thermostat. This delays fan start up until the heat exchanger has reached operating temperature and continues to run the fan after the burner has switched off and all useful heat has been dissipated.

### Cabinets

The cabinets are manufactured from corrosion resistant steel and all internal components exposed to products of combustion are manufactured from aluminised steel, contrasting black powder coated louvres are fitted to the air discharge.

### Safety

To ensure safe automatic operation each unit is fitted with a multi function gas control valve and thermoelectric flame monitoring safety

control. To protect against insufficient airflow a limit thermostat is fitted and shuts down the heater in the event of overheating. An additional higher limit thermostat is fitted for dual safety control.

### Controls

Remote control panels are available to simplify on site wiring and provide optimum fuel economy. The panels are complete with digital time control and day and night temperature settings and a “fan only” switch to provide summer air movement.

### Installation

Heaters must be installed in accordance with BS 6230 paying particular attention to the requirements for combustion air.

Units may be suspended or base mounted on suitable non-combustible supports. Four suspension brackets are fitted on each unit to accept M10 fixings.

Installation must be carried out by a suitably qualified installer in accordance with the installation instructions provided and current codes of practice. Incorrect installation will invalidate the warranty. Units must not be installed in atmospheres containing highly flammable or explosive vapours, combustible dusts, halogenated hydrocarbons or chlorinated vapours or in areas subject to excess draught.

### Electrical

A permanent single-phase supply is required to each unit, to ensure correct fan operation this supply should not be switched off except for maintenance.

Units must be wired in accordance with the wiring diagrams provided and current electrical standards.

# TECHNICAL SPECIFICATION

## UCA Technical Data

MODEL			UCA25	UCA30	UCA35	UCA45	UCA55	UCA75	UCA95
Nominal Heat Output		kW	24	28	34	41	51	70	93
Airflow @15°C		m³/h	1700	2400	3700	3700	4200	5600	7900
Temperature Rise		K	41	33	27	32	35	36	34
Throw <sup>1</sup>		m	17	20	28	28	28	32	38
Gas Consumption	nat.gas G20 <sup>2</sup>	m³/h	2.89	3.33	4.13	4.97	6.17	8.49	11.33
	propane G31 <sup>3</sup>	kg/h	2.16	2.49	3.09	3.72	4.62	6.35	8.48
Gas connection <sup>4</sup>		Rc	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Fan motor(s) rating		kW	0.075	0.12	0.12	0.12	0.12	2 x 0.12	2 x 0.12
Total electrical rating		kW	0.11	0.15	0.23	0.23	0.23	0.31	0.51
Sound pressure level (Lp) @ 5m	free field	dB(A)	44	44	47	47	47	48	51
	typical installation	dB(A)	51	51	54	54	54	55	58
Suggested mounting height <sup>5</sup>		m	2.0-2.5	2.0-2.5	2.25-2.75	2.25-2.75	2.5-3.0	2.5-3.0	2.5-3.0
Approximate weight		kg	72	84	100	100	116	145	183

1 Throw depends on height of building, mounting height of heater, room temperature and louvre settings

2 Natural Gas – minimum inlet pressure 17.5 mbar, maximum inlet pressure 50 mbar

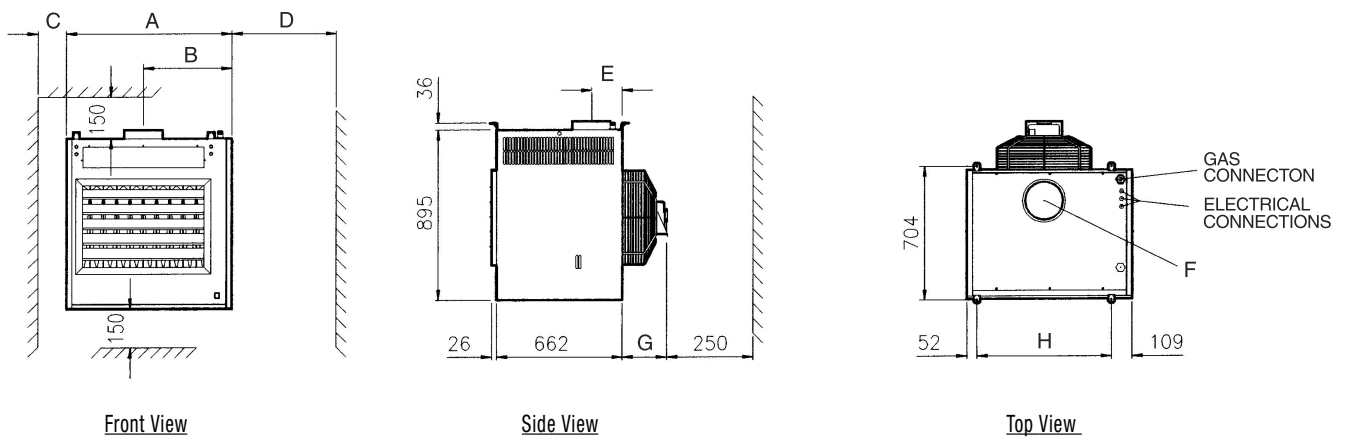
3 Propane Gas – minimum inlet pressure 37 mbar, maximum inlet pressure 50 mbar

4 Not supply line size

5 To underside of heater

## DIMENSIONS

### UCA – Conventionally Flued Heaters



MODEL		UCA25	UCA30	UCA35	UCA45	UCA55	UCA75	UCA95
Cabinet width	A	520	590	730	730	870	1080	1360
Access side to flue centre	B	290	325	395	395	465	570	710
Side clearance non control side	C	150	150	150	150	150	300	300
Access side clearance	D	550	620	750	750	900	1100	1400
Cabinet back to flue outlet	E	127	137	151	151	162	162	169
Flue outlet diameter (inches)	F	5	6	7	7	8	8	10
Depth axial fan	G	218	249	278	278	318	249	318
Suspension centres	H	359	429	569	569	709	919	1199

All dimensions in mm except flue outlet diameter which is in inches.

# Reznor<sup>®</sup>

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## Company Standards and Services:

All Reznor products are tested and approved to CE standards. Reznor UK Ltd. is assessed to BS EN ISO 9002: 1994 Quality Assurance. Reznor offers a design service to its customers; including budget schemes, on site technical support and a comprehensive after-sales service package. Reznor reserves the right to change specifications without prior notice.



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