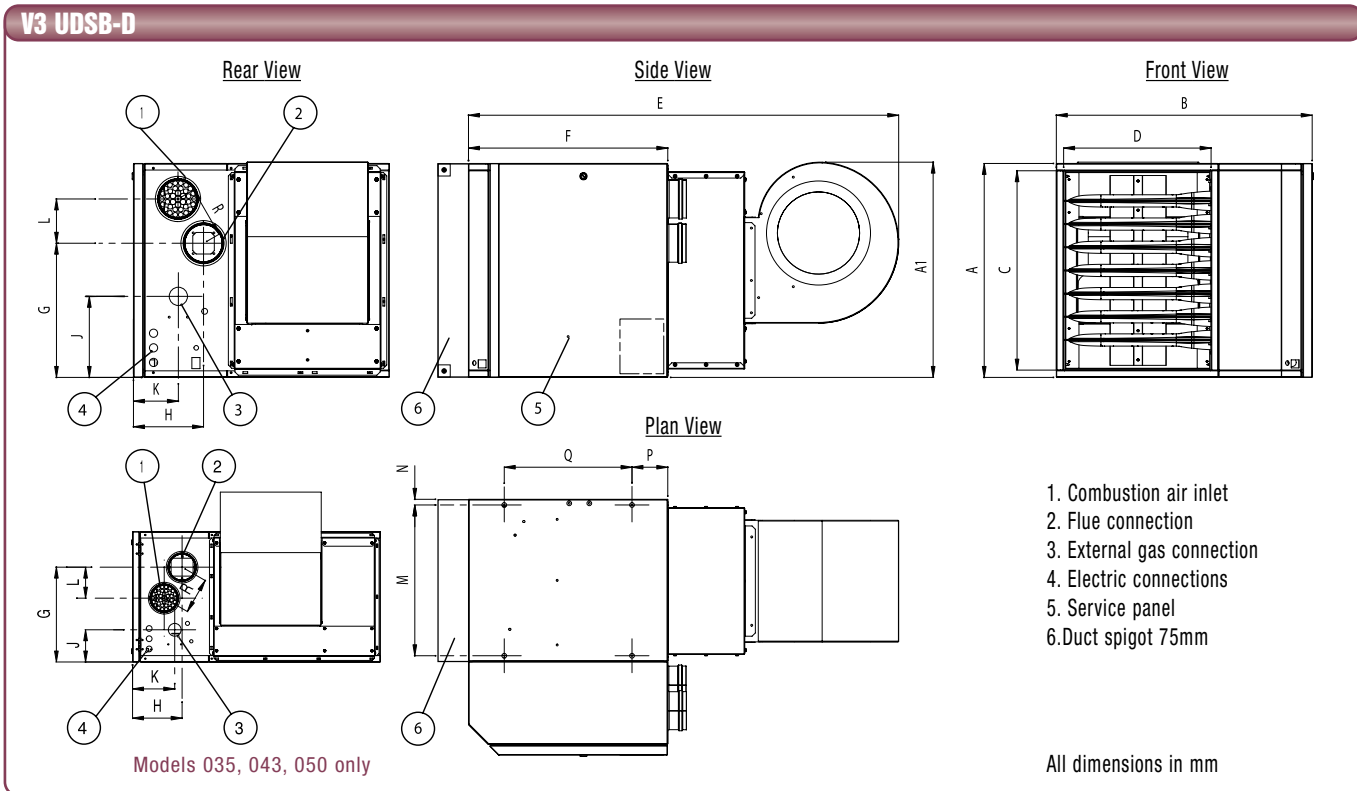


DIMENSIONS



Models	UDSBD 015	UDSBD 020	UDSBD 025	UDSBD 030	UDSBD 035	UDSBD 043	UDSBD 050	UDSBD 055	UDSBD 064
A	383	383	586	586	510	510	510	663	663
A1	460	460	590	590	670	670	670	685	720
B	700	700	700	700	970	970	970	970	970
C duct spigot height	383	383	586	586	496	496	496	649	649
D duct spigot width	444	444	444	444	641	641	641	641	641
E	935	935	1185	1185	1610	1610	1610	1610	1610
F	546	546	546	546	897	897	897	897	897
G	200	200	368	368	371	371	371	354	354
H	191	191	191	191	194	194	194	206	206
J	139	139	222	222	126	126	126	150	150
K	122	122	122	122	165	165	165	165	165
L	86	86	121	121	121	121	121	204	204
M suspension points	413	413	413	413	623	623	623	623	623
N	16	16	16	16	33	33	33	33	33
P	98	98	98	98	149	149	149	149	149
Q suspension points	350	350	350	350	600	600	600	600	600
R air inlet/flue outlet	120	120	140	140	140	140	140	225	225
Top clearance horizontal unit	130	130	130	130	180	180	180	180	180
Bottom clearance ¹	50	50	50	50	100	100	100	100	100
Side clearance	270	270	270	270	350	350	350	350	350

Note: 1. Clearance required for combustibles -heaters can be base mounted on suitable non combustible supports. Clearance for access panel 850mm side clearance 50mm. Rear clearance from the back of the fan is 100mm. For details on suspending units vertically please contact the Reznor sales office. All dimensions in mm.

V3 UDSB-D ROOM SEALED UNIT HEATERS



Reznor®

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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 9001: 2000 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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Reznor®

THE NAME FOR WARM AIR

V3 UDSB-D ROOM SEALED UNIT HEATERS

Introduction

Incorporating all the features of the highly successful V3 UDSA range, UDSB-D models are equipped with variable speed direct drive centrifugal fans to provide a simple yet versatile solution for a variety of heating applications.

The fan speed is pre set at the factory to allow for units to operate against a resistance of 125Pa. A simple wire change on site allows different settings facilitating alternative airflows, static pressure or noise levels. Standard units are provided with a duct spigot for connection to ductwork. Free blowing applications require horizontal louvres and the fan speed adjusted (if required) to give the desired airflow.

The versatile range of airflows available makes UDSB-D units ideal for applications where high airflows and long throws are required such as in high buildings. Units are also suitable for use with air induction nozzles or as over door heaters. For ducted applications the variable fan speed allows different airflows and static pressures to be selected to suit the application (see separate fan charts for details).

Outputs across the range extend from 15kW to 64kW and units are available with either a standard horizontal discharge or a vertical down flow discharge.

Energy Saving

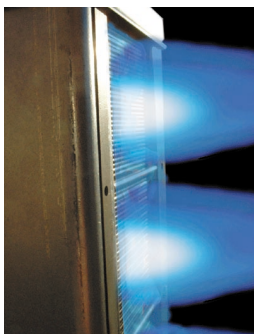
- 4-pass heat exchanger achieves over 92% thermal efficiency
- Reduced carbon dioxide and NOx emissions
- Improved airflow and new louvre design provide longer air throws and reduced stratification within the building



- Aerodynamic heat exchanger profile reduces the resistance to airflow and allows higher airflows for optimum temperature rise through the heater and reduced roof space temperatures

Extended Operational Life

- Radical new design heat exchanger manufactured from titanium stabilised aluminised steel is particularly strong and durable providing additional temperature resistance. It's weld free construction ensures long life
- Self-aligning burner eliminates possible flame impingement and premature heat exchanger failure, allowing the unit to be used horizontally or vertically



Unit shown is complete with optional louvres

- Eligible for 100% enhanced capital allowances* This symbol verifies that the product was independently assessed and qualifies for the ECA scheme, an upfront tax relief enabling businesses that invest in energy saving equipment to claim 100% first year capital allowance against their taxable profits.



Simple and Versatile Installation

- Reduced weight for quicker installation and simplified support requirements
- Concentric flue terminal provides both flue outlet and combustion air inlet thereby reducing installation time
- Balanced flue units eliminate the need for combustion air grilles in the wall
- Horizontal models may be suspended or base mounted on a suitable non combustible support
- Downflow models are available with standard louvre or optional four way discharge head
- In modern buildings doors often account for the largest source of heat loss, the UDSB-D units provide an ideal solution for over door heating



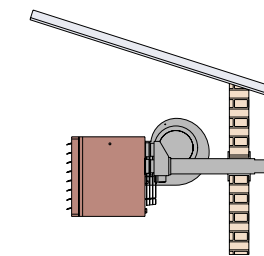
Enhanced Safety

- Room sealed units draw combustion air from outside the building thereby preventing contaminants from entering the combustion zone
- Differential pressure switch shuts off the burner if either the flue or combustion air supply is obstructed
- Dual limit stats monitor the airflow to prevent overheating in the event of the main fan failing or being restricted.

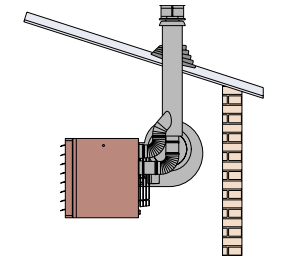


Simplified Flueing Arrangements

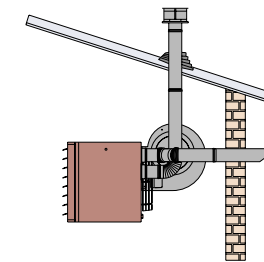
- Units are CE certified as type B (Fan assisted flue) or type C (Balanced flue) appliances
- CE Certification for different balanced flue options for complete installation flexibility



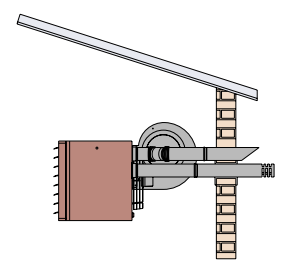
Balanced flue wall outlet (type C12) eliminates roof opening and flashing



Balanced flue roof outlet (type C32)



Combustion air through the wall, flue outlet through the roof (type C52)



Separate combustion air and flue pipes (type C12) for applications where wall thickness exceeds length of balanced flue terminal

Balanced flue terminals may be extended by up to 9 metres of flue plus 9 metres of combustion air pipe (deduct 1.5 metres for each 90° bend).

UDSB-D Technical Data

MODEL		UDSB-D 015	UDSB-D 020	UDSB-D 025	UDSB-D 030	UDSB-D 035	UDSB-D 043	UDSB-D 050	UDSB-D 055	UDSB-D 064	
Nominal heat output	kW	14.6	18.2	25.5	29.2	34.9	42.1	48.6	54.7	64.4	
Air flow ¹	m ³ /h	1575	1650	2400	3040	3835	3750	4250	4550	5360	
Temperature rise ²	C	27	32	31	28	27	32	33	35	37	
Air throw ³ – (horizontal model)	m	18	23	26	26	32	34	38	38	38	
Noise level (free field @ 5 metres)	dB(A)	50	52	47	51	46	47	52	50	53	
Sound pressure (typical installation @ 5 metres)	dB(A)	57	58	54	58	53	54	59	57	60	
Gas consumption ⁴	Natural gas G20	m ³ /h	1.68	2.1	2.94	3.36	4.02	4.85	5.59	6.3	7.41
	Propane G31	kg/h	1.24	1.55	2.16	2.47	2.96	3.57	4.12	4.64	5.46
Gas Pipe connection ⁵	Rc	1/2"					3/4"				
Standard motor speed		mid	high	low	mid	low	low	mid	mid	high	
Dia flue outlet/combustion air inlet	mm	80	80	100	100	100	100	100	130	130	
Recommended mounting height ⁶	m	3.5	4	4.5	4.5	5.5	5.5	6	6	6	
Total electrical rating 230V 1Ph 50 Hz ⁷	W	325	400	920	1165	970	985	1180	1480	1460	
Approx net weight	kg	50	53	71	74	125	131	131	148	153	

Note: 1. Based on 125 Pa external static and standard motor speed. Airflow may be varied by changing motor speed and/or static pressure. 2. Based on standard airflow, temperature rise will vary if airflow is changed. 3. Standard airflow, the air throw will be influenced by the height of the building, mounting height, room temperature and louvre setting. 4. Maximum inlet pressure 50mbar, minimum inlet pressure 17.5mbar. 5. Not supply line size, run adequately sized pipe and reduce at heater connection. 6. Downturn nozzles are recommended for higher mounting heights. 7. Standard motor speed at 125Pa.