



# Harry Taylor

CELEBRATING **95** YEARS

## Warm air heaters / HT2000 UDSA heater range Room sealed unit heaters

High efficiency

CE & Building Regulations Compliant

Sealed combustion circuit

Modulating burner

Automatic operation

Space saving off floor installation

Optimised control

Centrifugal options available



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SUPPLIER

“Taylor” made solutions from the company with the know - how



**Axial fan heaters**

For conventional cross flow  
warm air discharge.



**Centrifugal fan heaters**

For ducted heating systems.

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# Warm air heaters / HT2000 UDSA heater range

## Room sealed unit heaters

### UDSA - Technical Data

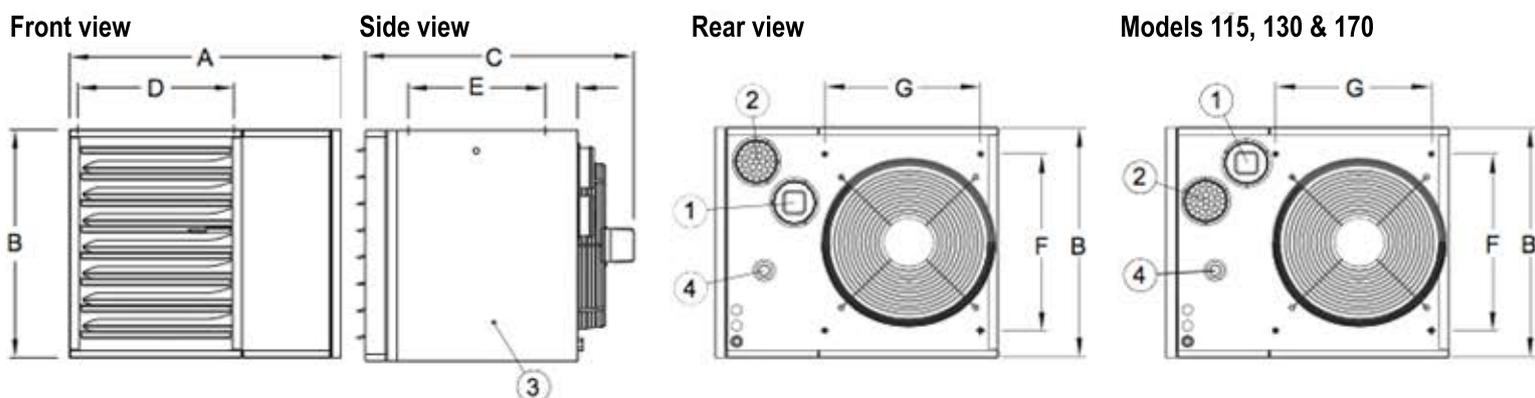
		Model Ref														
		30	50	70	90	100	115	150	170	200	225	250	300	330	410	490
Nominal heat output	kW	11	15	18	26	29	35	42	49	55	64	73	85	97	128	146
Airflow	m <sup>3</sup> /h	1020	1360	1700	2385	2725	3510	4535	5180	5830	6810	7770	9065	103360	13608	15552
Temperature rise	K	32	32	32	32	32	29	28	28	28	28	28	28	28	27	27
Horizontal throw <sup>1</sup>	m	10	13	16	20	25	25	28	32	35	33	41	41	39	33	41
Noise level @ 5m <sup>2</sup> (Q=2, A=160m <sup>2</sup> )	dB(A)	46	47	48	43	49	44	45	56	51	52	54	55	60	55	57
<b>Gas Consumption<sup>3</sup></b>																
Natural gas G20	m <sup>3</sup> /h	1.26	1.68	2.1	2.94	3.36	4.02	4.85	5.59	6.3	7.41	8.39	9.79	11.18	14.81	16.78
Propane G31	kg/h	0.93	1.24	1.55	2.16	2.47	2.96	3.57	4.12	4.64	5.46	6.18	7.21	8.24	10.92	12.36
Gas connection <sup>4</sup>	Rc	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
<b>Mounting height(s)<sup>5</sup></b>																
Horizontal	m	2-2.5	2-3	2.5-3	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	3-4	3-4	3-4	3.5-4	4-5	4-5
Vertical downflow	m	n/a	4-5	4-5	4.5-6	4.5-6	5.5-7	7-9	7.5-10	7-9	8-10.5	7.5-10	8.5-11	9-12	n/a	n/a
Total electrical load (230V/50Hz)	kW	0.12	0.13	0.13	0.27	0.27	0.33	0.49	0.49	0.49	0.68	0.85	0.85	0.85		
Net weight	kg	33	38	40	56	60	88	99	99	112	118	143	158	168	245	263

1. Throw is dependent on mounting height, building height, room temperature and louvre settings. Throw distance relates to terminal velocity of 0.35m/s.
2. Actual noise levels are dependent on heater location and type of building. Noise levels for UDSB-D are at standard speed.
3. Natural gas G20 calorific value 10.5 kWh/m<sup>3</sup> GCV, inlet gas pressure maximum 50mbar, minimum 17.5mbar. Propane G31 calorific value 14.0 kWh/kg GCV, inlet gas pressure maximum 50mbar, minimum 37mbar.
4. Not supply line size.
5. Recommended height to underside of heater. Downturn nozzles are recommended on horizontal units where units are installed at higher mounting heights. For buildings over 4 metres high, air re-circulation fans are recommended in conjunction with the heaters. Mounting height depends on louvre setting. Vertical down flow heaters should be used on conjunction with air re-circulation fans.
6. Standard air flow at 125Pa. UDSB-D models are supplied with fan speed factory set as shown in table. For alternative duties the fan speed can be changed on site by simply relocating a wire in the electrical terminal strip.

### UDSA - Dimensions

		Model Ref														
		30	50	70	90	100	115	150	170	200	225	250	300	330	410	490
Unit width	A	700	700	700	700	700	970	970	970	970	970	1040	1040	1040	1150	1150
Unit height	B	307	383	383	586	586	510	510	510	663	663	866	866	866	1367	1494
Overall length	C	696	723	723	771	771	1033	1033	1033	1052	1052	1036	1139	1097	1034	1034
Suspension centres	D	413	413	413	413	413	622	622	622	622	622	672	672	672	676	676
Suspension centres	E	350	350	350	350	350	600	600	600	600	600	600	600	600	300	300
Suspension centres	F	n/a	250	250	450	450	400	400	400	500	500	500	500	500	n/a	n/a
Suspension centres	G	n/a	413	413	413	413	622	622	622	622	622	672	672	672	n/a	n/a
Flue & combustion air collars Ø		80	80	80	100	100	100	100	100	100	130	130	130	130	130	130
Top clearance horizontal unit		50	50	50	50	50	100	100	100	100	100	100	100	100	100	100
Top clearance downflow unit		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Rear clearance		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Bottom clearance*		50	50	50	50	50	100	100	100	100	100	100	100	100	100	100
Side clearance		50	50	50	50	50	100	100	100	100	100	100	100	100	100	100
Service panel clearance		850	850	850	850	850	850	850	850	850	850	850	850	850	100	100

\*Horizontal discharge heaters may be base mounted directly onto non-combustible supports adequately sized to support the unit weight.



# Warm air heaters / HT2000 UDSA heater range

## Room sealed unit heaters

The UDSA and UDSB units are a technically advanced range of gas fired unit heaters designed to deliver outstanding energy efficiency, performance and economy for reduced operating and life cycle costs. The heat exchanger achieves 92% thermal efficiency reducing energy consumption and running costs.

**Application:** A range of gas fired unit heaters, designed to give outstanding energy efficiency performance and economy for reduced operating and life cycle costs suitable for factories, workshops, warehouses, automotive workshops, greenhouses and many other commercial premises.

**Building Regulations & CE Approval:** All our heaters are designed with fuel efficiency in mind and meet the efficiency requirements of Part L2B of current Building Regulations as well as applicable CE legislation.

**Construction:** Manufactured from Titanium stabilised aluminised steel for enhanced life expectancy. The unique aerodynamic profile results in minimal resistance to air flow to give longer throws, improved temperature distribution and reduced temperature.

**Guarantee:** Heaters are provided with one of the most comprehensive guarantee packages available -  
Year One: Parts and labour  
Year Two: Parts

**Controls:** Heaters are ready for automatic operation after the simple connection of the time and temperature control. We offer a fully optimised control which includes a secure entry code facility, temperature dependant start time, digital time switch with override facility, electronic day & frost protection thermostats and can be set to run on "fan only" to enable summer air movement.

**Increased Airflow:** A high capacity axial flow fan is fitted to UDSA units for improve air throws and reduced stratification. UDSB - D models are fitted with a direct drive centrifugal fan.

**Testing:** Every heater is individually inspected, test fired and safety function tested prior to despatch

## Optimised Air Distribution

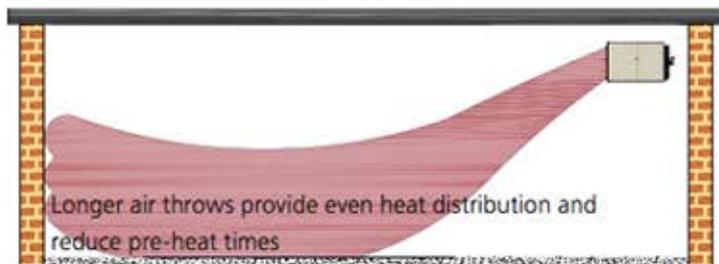
### Traditional unit heater

Higher roof space temperatures increase heat loss through roof



### UDSA heater

Reduced floor to ceiling temperature gradients



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