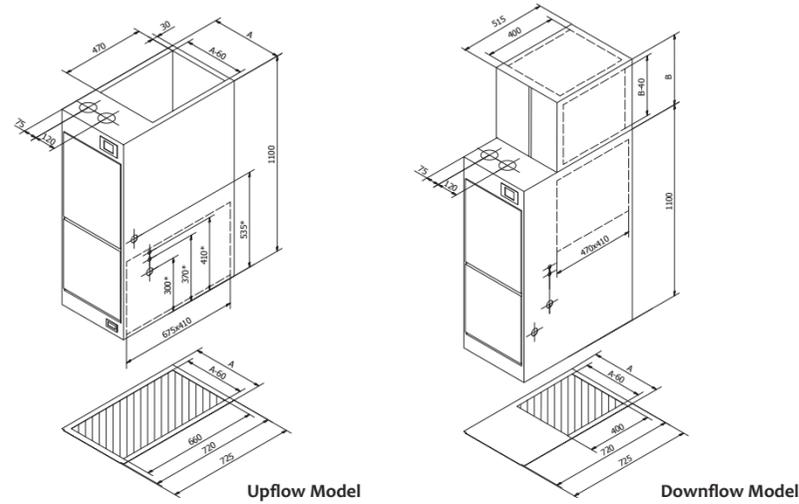


## Technical features Udara



Udara Technical Data			10	15	20	30	40	50
Gas Category (EN 437)			I2H, I2N, I2L, I2E, I3P					
Gas Appliance Type			B22p, C12, C32, C52, C92					
Maximum Input Net (Lower Calorific Value)	G20-20mbar	kW	10.0	14.8	19.7	29.5	39.4	49.2
Gross heat input (Higher Calorific Value)	G20-20mbar	kW	11.1	16.4	21.9	32.8	43.8	55.1
Heat Output			G20-20mbar kW					
Maximum Output			10.6	15.7	21.0	31.4	42.1	52.5
Minimum Output			2.0	2.8	3.7	5.6	7.4	9.4
Gas consumption			G20-20mbar m <sup>3</sup> /h					
Gas consumption at full load			1.058	1.566	2.085	3.122	4.169	5.206
Gas consumption at minimum load			0.190	0.275	0.360	0.54	0.720	0.910
Thermal efficiency			%					
Thermal efficiency at full load			106.2	106.3	106.4	106.6	106.8	106.8
Thermal efficiency at minimum load			109.0	109.0	109.0	109.0	109.0	109.0
NOx emissions			< 28mg / kWh (CLASS 5 EN1020/ EN1319)					
Condensate quantity		kg/h	1.3	2.0	2.6	3.9	5.2	6.5
Diameter flue/combustion air inlet		Ø	80/80					
Gas connection		Ø	1/2" G					
Dimension			mm					
Height			1100	1100	1100	1100	1100	1170
Width A			400	400	400	500	600	700
Depth			720	720	720	720	720	720
Height filtercasing downflow B			340	340	340	440	540	540
Weight		kg	52	66	71	84	99	122



## Meaning Udara

Udara [uu-dh-aa-r-aa]  
 Udara is the Malay word for air

For more information, please contact your installer

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 Rushden, NN10 9TL  
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# Quick warm up, with clean air in your home

Premium materials, advanced components and innovative production techniques. The result is the Udara, without any doubt the most advanced air heater on the market. An extremely efficient and highly durable device, easy to use, reliable and easy to maintain.

### High efficiency

The heart of the Udara is a unique heat exchanger made of high quality and durable stainless steel. In the heat exchanger, the hot exhaust gases from the burner are cooled to well below the dew point, so they're going to condense. This extracts almost all heat from the flue gases and the heat output is increased.

This has nothing but advantages. A high burning efficiency translates into a lower gas bill. An economical unit such as the Udara helps to reduce greenhouse gas emissions. Thus you actively contribute to a less polluted climate.

### Comfortable heat

The Udara is a modulating heater. This means that the unit can continuously regulate the output of the burner.

By the ability of the heater to adjust constantly to the requirements the temperature can be adjusted very precisely.

When the space is cold the Udara will operate on high heating output to reach the desired temperature as quickly as possible. On the other hand, when the set temperature is almost reached then the Udara will operate quietly on low output.

In addition, the fan speed is always adjusted to the air temperature, so you won't suffer from cold draughts!

### Clean burning

The Udara is equipped with a modulating pre-mix burner. This type of burner produces very low emissions of pollutants such as nitrogen oxides, one of the causes of acid rain and smog.

The burner control is also equipped with an advanced, self-learning and gas-adaptive control. The Udara automatically recognizes the type of gas that is supplied and constantly regulates the gas-air ratio to ensure proper combustion.

Through the use of an electronic gas-air control the starting of the heater is extremely reliable and perfect combustion is maintained under all conditions.

This is the only way to be guaranteed a minimum emission of harmful gases.

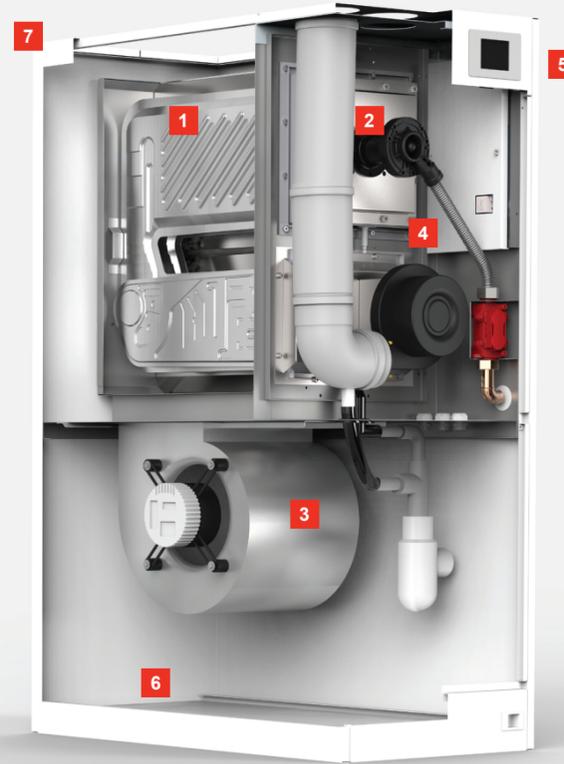
### Modulating thermostat

The Udara is easy to operate with a programmable modulating thermostat. The thermostat constantly communicates with the burner control and informs you at all times about the proper functioning of the appliance.

### Cooling

The Udara can be extended with a heat pump. During hot summer days you can cool the air in your house and keep the temperature comfortable.

The heat pump can also be used in intermediate seasons for heating. The gas burner is then only used if the outside is colder and the efficiency of the heat pump is too low.



### 1 HR heat exchanger

The unique, patented heat exchanger extracts the maximum heat from the flue gases. In addition, the air resistance of the heat exchanger is very low and the unit is resistant to blockage.

### 2 Modulating premix burner

The modulating premix burner constantly adjusts its output to quickly reach your required temperature while avoiding temperature fluctuations. The emissions of pollutants such as NOx and CO are minimal.

### 3 Energy efficient fan

Direct-drive fan is equipped with a quiet brushless DC motor with a very high efficiency even at low speeds. The high efficiency reduces emissions and reduces your energy bill.

### 4 Gas-adaptive burner control

The advanced burner control is equipped with a unique gas-adaptive control. Thanks to this arrangement you are always assured of good combustion, even if the gas quality is not constant. This provides a safe and efficient heating in all circumstances.

### 5 User friendly operation

The control panel is equipped with a colour touch-screen display. Settings can be adjusted easily and quickly.

### 6 Air filter

In all Udara models a disposable air filter is provided as standard. A fine filter is available as an option.

### 7 Sheet steel casing

The cabinet is made of galvanized prepainted sheet steel. The white polyester powder coating is virtually scratch-resistant and easy to clean.

5 year warranty  
on the heat exchanger



## Multicalor Industries NV

Multicalor has manufactured air heaters for more than 30 years. From our many years of experience, we have developed the Udara: extremely efficient, very reliable and easy to maintain. The patented stainless steel heat exchanger is insensitive to pollution and has excellent efficiency and extremely low air resistance. The patented premix burner meets the most stringent emission standards and has highly reliable ignition. With the Udara installed in your home you can enjoy years of efficient and trouble-free operation!