

UNIT HEATER (UH)

- Classic air heater
- Easily expandable
- Compact air handling
- Sturdy and durable



Description

The Unit Heater is a classic Thermo Air product. With its characteristic design, this product can be found throughout Europe and beyond. Ever since the '60s these indirectly fired air heaters have been installed in storerooms, storage facilities, workshops, etc. These air heaters are sturdy and flexible and were designed to operate reliably over a long lifetime.

No situation is ever the same and therefore the Unit Heater can be modified to suit client's diverse needs. All modifications and options are possible. If it's a supply or return plenum, mixing box, room thermostat or speed controllers, these air heaters have numerous possibilities. Even at a later stage, this unit can be easily expanded to become a complete air handling system. By adding a filter, mixing section, cold water heat exchanger and perhaps a Terminal Box, you can easily construct a complete system (CLK-range).

Function

Air direction and speed are essential for optimum heat distribution. The dual adjustable outlet grille controls air direction. Air speed is attained by adequate static pressure. These conditions cannot be reached with a (noisy) axial fan. That is why a silent but powerful centrifugal fan is used in the Unit Heater. The Unit Heater ensures optimal heat distribution. Depending on the model, air throw of up to 30 metres can be attained.

Technical specifications

The Unit Heater is constructed from durable, corrosion-proof and low maintenance coated panels in a light grey colour (RAL 7035); other colours are available on request. The components are built in the high quality, polished casing which is thermally and acoustically insulated. The silent, low speed IMOFA DD fan provides the required pressure for a significant airflow and bridges the resistance of an eventual filter, mixing box and/or duct system. Because the maximum capacity is not always required, the fan can be adjusted to different speeds.

The Unit Heater is available in 3 standard models and various versions.

Compliance as per the Standards stated in Machine Directive 89/336 EC (attachment 2B) and the Low Voltage Directive 73/23/EEC.

Supplied with:

- high capacity heat exchanger
- IMOFA DD-alternating current fan
- dual adjustable outlet grille
- filter (optional)
- mixing box with dampers (optional)
- maintenance switch (optional)
- speed controller (optional)
- plenums (optional)
- room thermostat (optional)

UNIT HEATER (UH)

Technical data

Unit Heater	Unit	UH-7	UH-9	UH-10
Heating capacity ¹⁾	kW	12	24	35
Heat coil	type	WWHB-7/2	WWHB-9/2	WWHB-10/2
Water pressure drop	kPa	10	8	17
Fan	type	DD-7-7-9	DD-9-9-9	DD-10-10-9
Air volume	m ³ /h	1000	2000	3000
Airflow (max.)	m	25	30	30
Sound ²⁾	dB(A)	51	56	57
Weight ³⁾	kg	23	36	47
Motor rating	W	62	245	245
Maximum current	A	0,6	2,3	2,3
Electrical connection	V/ph/Hz	230/1/50	230/1/50	230/1/50
Dimensions (lxwxh)	mm	500x420x420	600x520x520	600x620x620
Article number	UH	991-200	991-205	991-210

1) LPHW flow/return conditions- 90 - 70°C (other conversions available on request)

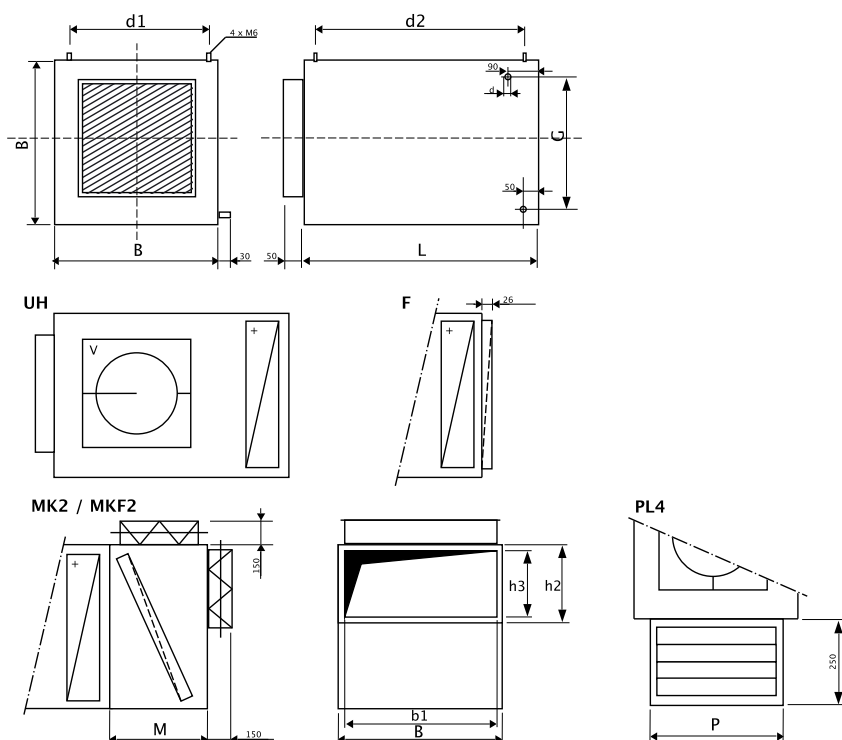
2) Sound pressure measured at 3 metre distance from the outlet nozzle ref 10e-12W. All values+/- 3 dB(A)

3) Base unit consisting of heat coil and fan

Product Options

Options	Type	UH-7	UH-9	UH-10
Flat filter set	F	111-701	111-701	111-701
Outlet plenum 4 sided with adjustable grille	PL4	091-200	091-205	091-210
Mixing box with 2 dampers	MK2	091-300	091-305	091-310
Mixing box with 2 dampers and flat filter	MKF2	091-320	091-325	091-330
Room thermostat (230V)	RT	415-001		
Speed controller (in plastic casing)	TRK	411-101		
Maintenance switch	WS-1	411-003		
Servomotor (230V open/shut)	SM	on request		

Measurements



Dimensions

Letter	UH-7	UH-9	UH-10
L	500	600	600
B	420	520	620
d	15	22	22
G	292	385	490
d1	358	458	558
d2	418	518	518
P	340	440	540
M	250	250	300
h2	265	265	295
h3	235	235	235
b1	320	420	520
c1	120	100	100