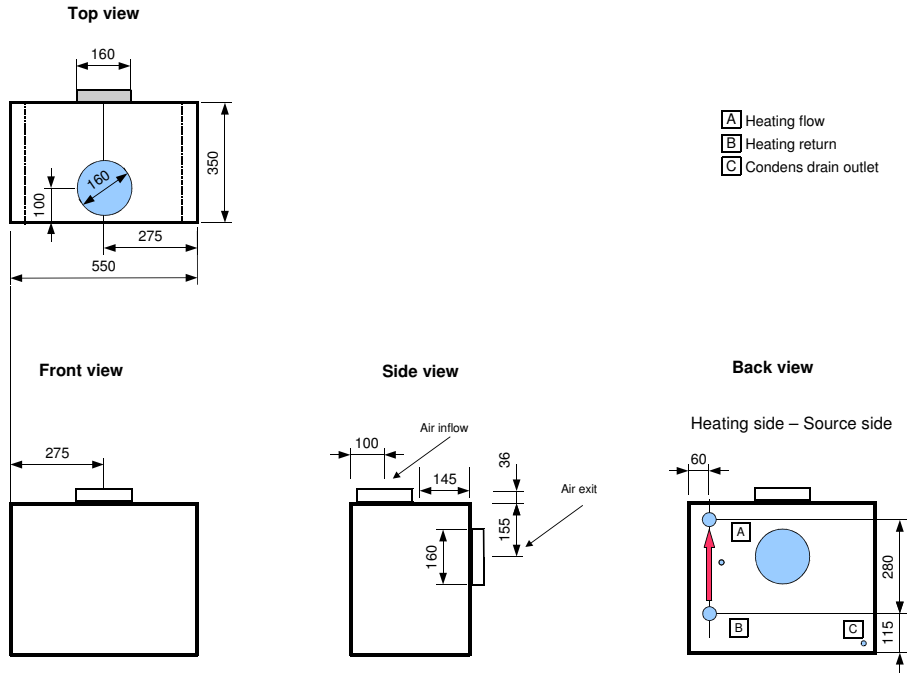


HWAL living space exhaust air heat pump

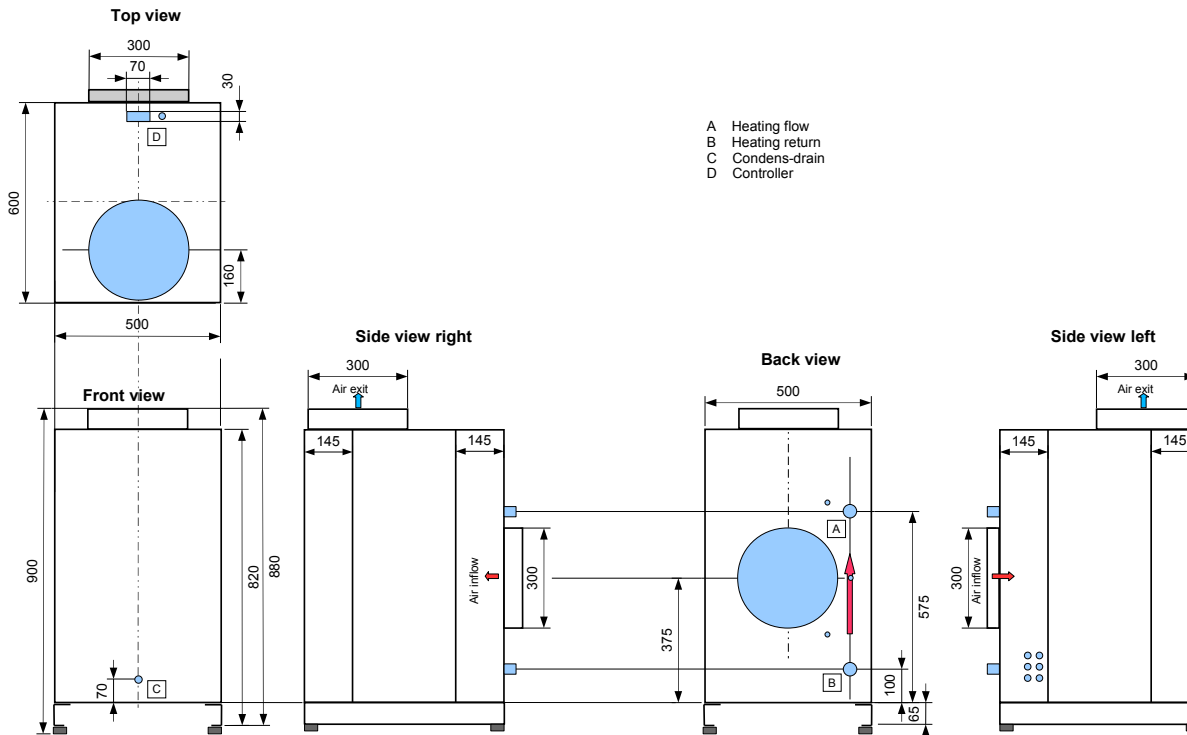


Air-water heat pump uses the stored heat in the exhaust air to heat the domestic hot water and the living space. The compact, sound insulated housing includes a high efficiency, suction gas cooled compressor, aluminium ribbed evaporator and a stainless steel plate heat exchanger. The heat pump is designed to fulfill all required EU standard safety regulations. The nozzles for exhaust air intakes and air outlets (DN160) are installed already on the heat pump. The HWAL may be used in combination with a HAUTEC brine-water heat pump as a Mono Unit. A low energy house with an air duct system and domestic hot water may be heated monovalent or monoenergetic in combination with an electric heating element if required. Easy installation may be further assisted if optional accessories are supplied pre-installed. The heat pump is available with R134a refrigerant providing enhanced flow temperatures.



HWAL 3001

Exhaust air



HWAL 3002

HWAL living spaces exhaust air heat pump

Type		HWAL-3001	HWAL-3002
Refrigerant		R134a	R134a
Kältemittel-Füllgewicht	kg	0,40	1,20
Heating capacity exhaust air A20/W35 (EN 255)		1,5	4,0
Power consumption exhaust air A20/W35 (EN 255)		0,38	0,87
Coefficient of performance exhaust air A20/W35 (EN 255)		3,8	4,6
Heating capacity exhaust air A20/W50 (EN 255)		1,3	3,6
Power consumption exhaust air A20/W50 (EN 255)		0,37	0,97
Coefficient of performance exhaust air A20/W50 (EN 255)		3,4	3,7
Source exhaust air min. volume flow	m³/h	180	780
Source exhaust air nominal volume flow	m³/h	270	1170
Source exhaust air internal pressure drop	hPa	24	29
Source exhaust air connection dimensions	mm	160	250
Source exhaust air outlet min.	°C	8	8
Source exhaust air inlet max.	°C	35	35
Heating min. volume flow (at 10K)	m³/h	0,13	0,34
Heating nominal volume flow (at 5K)	m³/h	0,26	0,68
Heating internal pressure drop (at 5K)	hPa		
Heating exhaust air internal pressure drop (at 5K)	hPa	18	28
Heating connection dimensions	Inch	1	1
Heating exhaust air flow temperature temporary max.	°C	70	70
Nominal voltage	V	230	230
Starting current	A	20	30
Starting current (limited)	A		
Fuse (delay)	A	16	16
Measurement height	mm	475	900
Measurement width	mm	550	500
Measurement depth	mm	385	660
Weight	kg	57	100

HWAL living spaces exhaust air heat pump R134a - with 2 years cooling circuit material warranty¹
- temporary 70°C flow temperatures

Product code WP	Order number	Heating capacity A20/W35 (kW)	HWAL 3001	HWAL 3002
HWAL3001	88A3210AHALN3	1,5	2.287,-	
HWAL3002	88A3019AHBLN3	4,0		4.004,-

Elektronik control thermostat (built-in and ready for operation)

HBER-L	89BRL00ESG0ND		234,-	234,-
--------	---------------	--	-------	-------

If used in combination with a HAUTEC heat pump the exhaust air unit is controlled by the HAUTEC heat pump controller incorporating legionnaires protection and programming. (HBER is not required)

Accessories - (optional). Further information in the accessories list

Heating kit (built-in and ready for operation)

HHB01	89HB00100H0ND		435,-	435,-
-------	---------------	--	-------	-------

Connecting kit with reinforced hoses (supplied as separate unit)

HWAS01 L	89WA00100H0ND		148,-	148,-
----------	---------------	--	-------	-------

Electric heating element (Supplied as separate unit)

HELNAL01L	89ENAL001H0ND	3,0-9,0	380,-	380,-
-----------	---------------	---------	-------	-------

Fan kit (Supplied as separate unit)

HRV 160	660501600		356,-	Ventilation volume flow at Δ p 180 pa: 300 m³/h
HRV 250	660502500		778,-	Ventilation volume flow at Δ p 250 pa: 1000 m³/h

Fan kit (connected and ready for operation)

HLBAL01	89LBAL001H0ND		412,-	Ventilation volume flow at Δ p 140 pa: 300 m³/h
---------	---------------	--	-------	---

Controller extension (if using combined with HCS as Mono unit)

HGVE	89WRM6001E0ND		570,-	570,-
------	---------------	--	-------	-------

When ordering please use product code e.g.: HCS-PN-235K with order number.

1) The warranty for parts of refrigerant circuit comes into effect only if the equipment is used for its intended purpose and the installation and commissioning have been examined and approved of an authorized HAUTEC customer service technician. An extended warranty of 2 years is available (refrigerant circuit) for a surcharge of 2% on the selected equipment price. More accessories may be found in the accessory section page 118 onwards.