

## **HWL-AS external air-to-water heat pump for setting up outside 5,4 - 7,9 kW with refrigerant R290**



Compact air-water heat pump with defrosting device for outside installation. It uses external air as a source. The free standing housing is sound insulated and made of aluminium. The heat pump includes a high efficiency, suction gas cooled compressor, copper aluminium ribbed evaporator and stainless steel 1.4401 plate heat exchanger for the heating circuit. The heat pump is designed to fulfill all required EU-standard safety regulations. The heat pump is controlled with weather compensation and is supplied with a separate remote control, is pre wired, easy to assemble and has a range of optional accessories. The built-in controller has E-bus and modem connections. The heat pump is available with R290 refrigerant. Up to eight heat pumps (of different sizes if necessary) may be cascaded for higher heating capacity.

### **Configuration:**

- **built-in heat pump controller without text in clear announcement**
- **mixing circuit control ( temperature sensor must be ordered separately)**
- **high efficiency**
- **quiet**
- **easy assembly and easy operation**
- **built-in pressure transmitter (depending on the version)**
- **flow temperature R290 max. 65°C at 10K delta T - flow and return**

### **Option:**

- **cooling operation**
- **external electric heating element (HELN)**
- **external circulating pump for the heating circuit (HHB)**
- **external hot water priority switch**
- **built-in heat meter**
- **Remote control with text in clear announcement**



HAUTEC comfort heat pump controller HSC6001WPC, microprocessor controlled with weather compensation. It can control up to 2 heat generators for heating and domestic hot water and optional cooling, including 1 mixing circuit.

### **Conditions:**

Output related switch of first heat generator (compressor), which can be operated in two power levels and additional 2nd heat generator ( e.g. electric heating element).

Digital clock with perpetual calendar, clock change summer/winter time, several adjustable clocktimer programs, separate counting of operation hours and number of starts for every heat generator, plain text display. Showing the flow and return temperature of the heating system and source entrance and exit temperatures, outside and inside temperatures. Easy handling with two buttons and error diagnostics.

With the master remote control it is possible to display up to 14 temperature values. Depending on the system configuration 4 - 8 of these will be available for use.

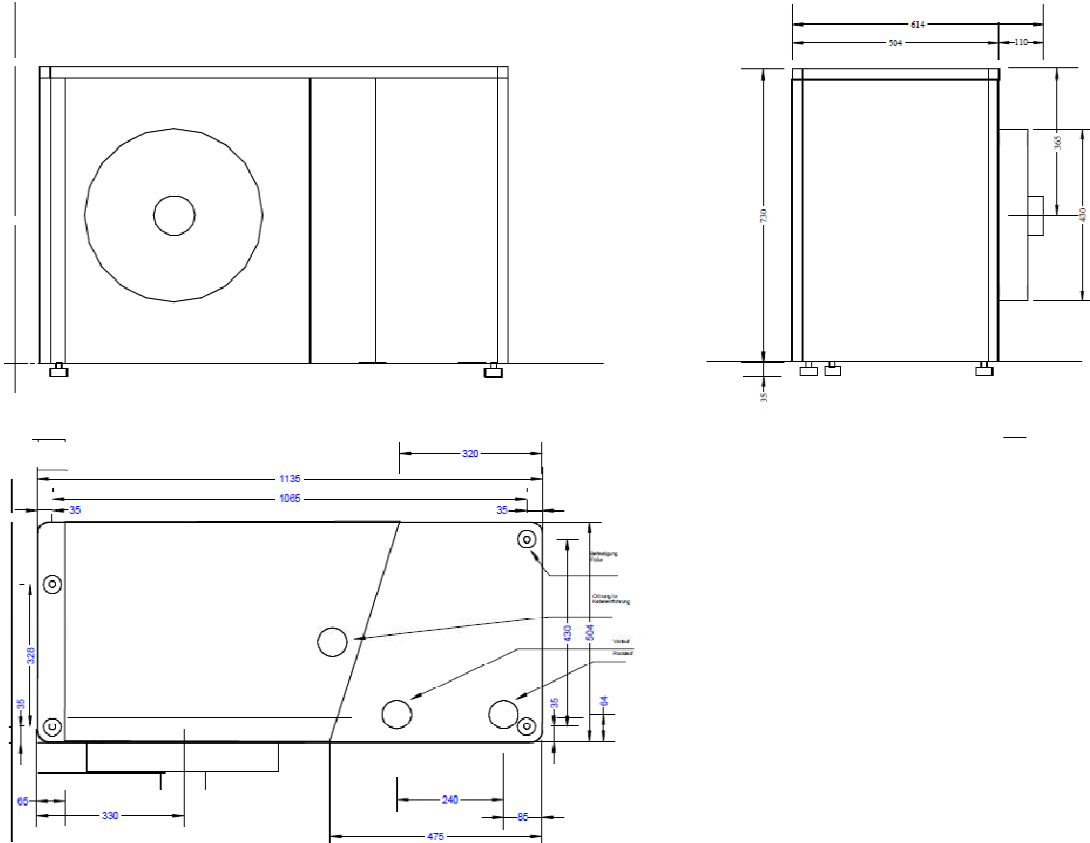
### **Optional:**

Radio clock module, remote control with space temperature sensor, diagnostic module for data transmission to a PC.



HAUTEC digital remote control with plain text display and space temperature sensor to adjust the time, heating mode, automatic programs, holiday program or party mode. With the remote control the main values can be read out. A button for showing error messages, operation hours and number of starts for every heat generator, flow and return temperature of the heating system, source entrance and exit temperatures, outside and inside temperatures. The technician can use it as a master remote control to get other important information such as temperature and low and high pressure of the refrigerant circuit.

**HWL-AS external air-to-water heat pump for setting up outside 5,4 - 7,9 kW with refrigerant R290**



## HWL-AS external air-to-water heat pump for setting up outside 5,4 - 7,9 kW wit

Type		HWL AS-36	HWL AS-43
Refrigerant		R290	R290
Refrigerant filling weight	kg	1,45	1,57
Compressor Oil (Alkylbenzol S 68)	kg	1,3	1,45
Primary-SOURCE (Air-water)		x	x
Setting-up inside / outside		- / +	- / +
HEATING capacity A7/W35 (EN 14511)	kW	7,1	11,4
Power consumption A7/W35 (EN 14511)	kW	1,60	2,70
Coefficient of performance (COP) A7/W35 (EN 14511)		4,5	4,3
HEATING capacity A2/W35 (EN 14511)	kW	5,4	7,9
Power consumption A2/W35 (EN 14511)	kW	1,50	2,30
Coefficient of performance (COP) A2/W35 (EN 14511)		3,6	3,5
HEATING capacity A2/W50 (EN 14511)	kW	5,0	7,4
Power consumption A2/W50 (EN 14511)	kW	2,10	3,20
Coefficient of performance (COP) A2/W50 (EN 14511)		2,4	2,3
HEATING capacity A-15/W35 (EN 14511)	kW	3,0	4,5
Power consumption A-15/W35 (EN 14511)	kW	1,30	2,10
Coefficient of performance (COP) A-15/W35 (EN 14511)		2,2	2,2
COOLING capacity A30 (Flow 16°C / Return 21°C)	kW	5,8	8,5
Power consumption A30 (Flow 16°C / Return 21°C)			
Coefficient of performance A30 (Flow 16°C / Return 21°C)	EER	3,2	3,0
SOURCE min. volume flow	m³/h	1800	1800
SOURCE nominal volume flow	m³/h	2700	2700
SOURCE entrance heat flow <40°C min.	°C	-20	-20
SOURCE entrance heat flow <55°C min. (at 10 K)	°C	2	2
SOURCE entrance max.	°C	35	35
SOURCE volume heat exchanger (water-side)	l	-	-
HEATING min. volume flow	m³/h	0,46	0,68
HEATING nominal volume flow	m³/h	0,93	1,36
HEATING internal pressure drop	hPa	27	35
HEATING connection dimensions	Inch	1	1
HEATING flow temperature minimal	°C	25	25
HEATING flow temperature temporary max. (at 10 K)	°C	65	65
HEATING volume heat exchanger (water-side)	l	1,9	2,2
Nominal voltage	V	400	400
Number of phases		3~	3~
Frequency	Hz	50	50
Nominal current	A	4,0	4,6