

## Carno Premium HCW-PN Water to Water heat pump 6,2 -42,7 kW with R407c refrigerant

The HAUTEC Carno series may be used in conjunction with underground water as heat source. The HAUTEC Carno models are for room heating and hot-water generating in residential and commercial buildings. The HAUTEC Carno heat pumps are constructed to run especially quietly. All models may be delivered for cooling in summer as option. Besides optimum economic efficiency, a maximum in residential comfort, the heat pump incorporates the new HAUTEC heat pump controller especially developed for heat pump applications. The operator has full control of all functions of his heating system. The built in ready for use HAUTEC source and heating kits and electric heating element reduce the on site assembly costs.

The heat pump has a high efficiency compressor, suction gas cooled with 2 stainless steel plate heat exchangers, one for the heating circuit and one for the source circuit. It is built on a proven Hautech chassis in a sound insulated housing. The brine- and heating circulating pumps, the hot water priority switch and the electric heating element are built-in, ready for operation. The pre-wired heat pump is controlled with weather compensation and is supplied with a separate remote control.

### Configuration:

- **built-in heat pump controller with plain text display**
- **mixing circuit control ( temperature sensor must be ordered separately)**
- **high efficiency**
- **even quieter operating by new construction method**
- **easy assembling and easy operation**
- **built-in soft starter (only type 60)**
- **built-in pressure transmitter (depending on the version)**
- **flow temperature: R407c till type 75 max. 65°C, all other max 60°C**

### Optional:

- **cooling operation**
- **built-in electric heating element**
- **built-in circulating pump for heat circuit**
- **built-in well pump wiring**
- **built-in hot water priority switch**
- **built-in heat meter**
- **electronic circulating pumps**

### Preview:

- **shortly also with the refrigerant R 290 available with a cop of over 6 after EN 14511 with W10/W35**



Premium



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 heat generator 1 (compressor), which can be operated in two power levels and additional heat generator 2 ( 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.

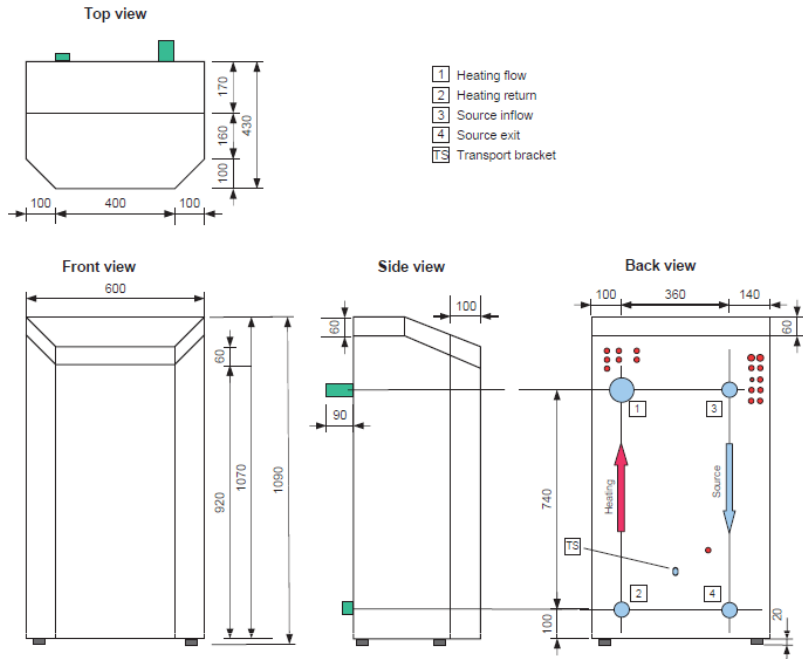
With the master remote control it is possible to display up to 14 temperature values. Depending on the system configuration 4 - 8 of these will be free for use.

Optional:

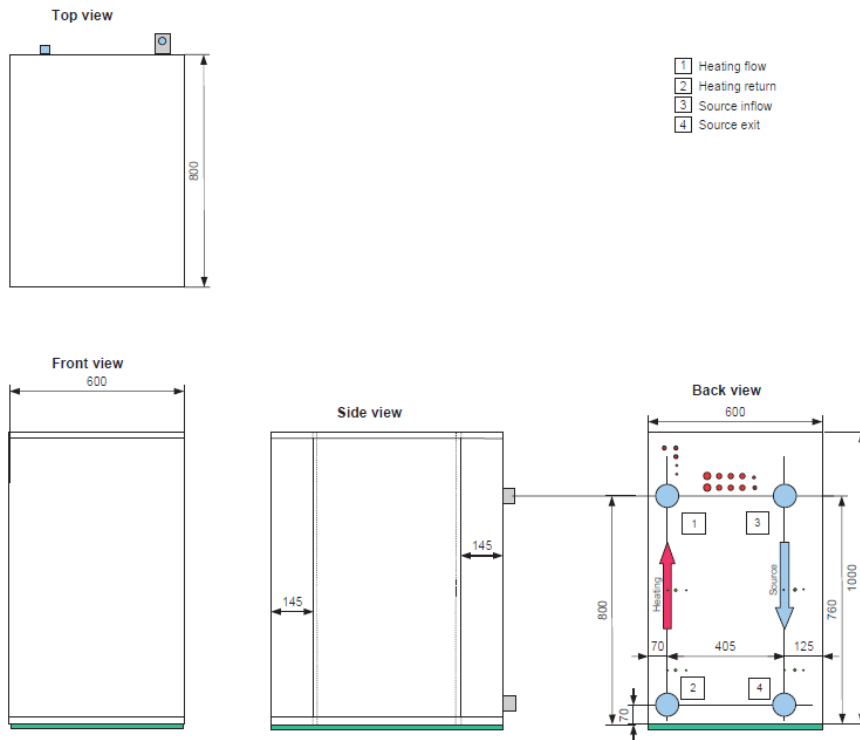
Radio clock module, remote control with room temperature sensor, diagnostic module for data transmission on a PC.

HAUTEC digital remote control with plain text display and room 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 informations such as temperature and low and high pressure of the refrigerant circuit.

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HCW-PN- 19-124



HCW-PN-144

**Carno HCW-PN Premium Water to Water heat pump 6,2 -42,7 kW with R407c refrigerant**

Premium

Type		HCW PN 19	HCW PN 25	HCW PN 32	HCW PN 35	HCW PN 42	HCW PN 48	HCW PN 60	HCW PN 75	HCW PN 94	HCW PN 124	HCW PN 144
Refrigerant		R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c
Refrigerant filling weight	kg	1,10	1,20	1,30	1,45	1,55	1,60	1,70	1,95	2,10	2,25	2,65
Heating capacity W10/W35	kW	6,2	8,3	10,3	12,1	13,9	15,4	17,6	21,6	26,9	34,2	42,7
Power consumption W10/W35	kW	1,15	1,43	1,79	2,13	2,50	2,69	3,21	3,78	4,8	6,18	7,82
Coefficient of performance W10/W35 (EN 255)		5,4	5,8	5,8	5,7	5,6	5,7	5,5	5,7	5,6	5,5	5,5
Coefficient of performance W10/W35 (EN 14511)		5,2	5,6	5,6	5,5	5,4	5,5	5,3	5,5	5,4	5,3	5,3
Heating capacity W10/W50	kW	5,4	7,0	8,8	10,2	12,2	13,6	16,1	19,8	25,2	31,4	38,6
Coefficient of performance W10/W50 (EN 255)		3,8	4,0	4,0	4,0	3,9	3,8	3,7	3,8	3,8	3,8	3,7
Coefficient of performance W10/W50 (EN14511)		3,6	3,8	3,8	3,8	3,7	3,6	3,5	3,6	3,6	3,6	3,5
Heating capacity W10/W65	kW											
Coefficient of performance W10/W65 (EN 255)												
Coefficient of performance W10/W65 (EN 14511)												
Source min. Volume flow (at 5K)	m³/h	0,87	1,17	1,46	1,71	1,96	2,19	2,47	3,06	3,79	4,82	5,97
Source nominal volume flow (at 3K)	m³/h	1,45	1,96	2,44	2,85	3,27	3,64	4,11	5,11	6,32	8,03	9,95
Source internal pressure drop (at 3K)	hPa	125	220	153	169	170	170	206	242	290	454	320
Source connection dimensions	Inch	1	1	1	1	1	1	1	1	1	1	1 ¼
Source entrance min	°C	7	7	7	7	7	7	7	7	7	7	7
Source entrance max	°C	18	18	18	18	18	18	18	18	18	18	18
Heating min. volume flow (at 10K)	m³/h	0,53	0,71	0,89	1,04	1,20	1,33	1,51	1,86	2,31	2,94	3,66
Heating nominal volume flow (at 5K)	m³/h	1,07	1,42	1,77	2,07	2,39	2,65	3,02	3,71	4,62	5,88	7,32
Heating internal pressure drop (at 5K)	hPa	66	84	79	88	90	108	113	126	190	240	115
Heating connection dimensions	Inch	1	1	1	1	1	1	1	1	1	1	2
Heating flow temperature temporary max.	°C	65	65	65	65	65	65	65	65	60	60	60
Nominal voltage	V	230	400	400	400	400	400	400	400	400	400	400
Starting current	A	<30	<30	<30	<30	<30	30	38	56	70	86	86
Starting current (limited)	A							19	29	40	42	48
Fuse (delay)	A	20	3x16	3x16	3x16	3x20	3x20	3x25	3x25	3x25	3x35	3x35
Measurement height	mm	1080	1080	1080	1080	1080	1080	1080	1080	1080	1020	1020
Measurement width	mm	600	600	600	600	600	600	600	600	600	600	600
Measurement depth	mm	430	430	430	430	430	430	430	430	430	800	800
Weight	kg	106	106	129	129	131	138	138	153	153	173	208