



HELIOTHERM HEAT PUMPS

TECHNICAL DATA SHEETS

Ground Water Heat Pump
WEB CONTROL Series



TECHNICAL DATA SHEET HP05S07W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	7,77 kW	6,99 kW
Cooling capacity	6,64 kW	5,32 kW
Input	1,12 kW	1,68 kW
COP	6,91	4,17

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	7,49 kW	6,81 kW
Cooling capacity	6,31 kW	5,05 kW
Input	1,18 kW	1,76 kW
COP	6,35	3,87

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	1,8 kW
Stall current	26 A
Oil amount	1,1 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,6 m ³ /h
Pressure loss	1,1 mWs
Temperature difference	4 K
Content	1,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,4 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,9 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	7,80 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	2,8 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 10 A
Max. compressor operating current	5 A
Starting current	26 A
Starting current with soft starter	17 A

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

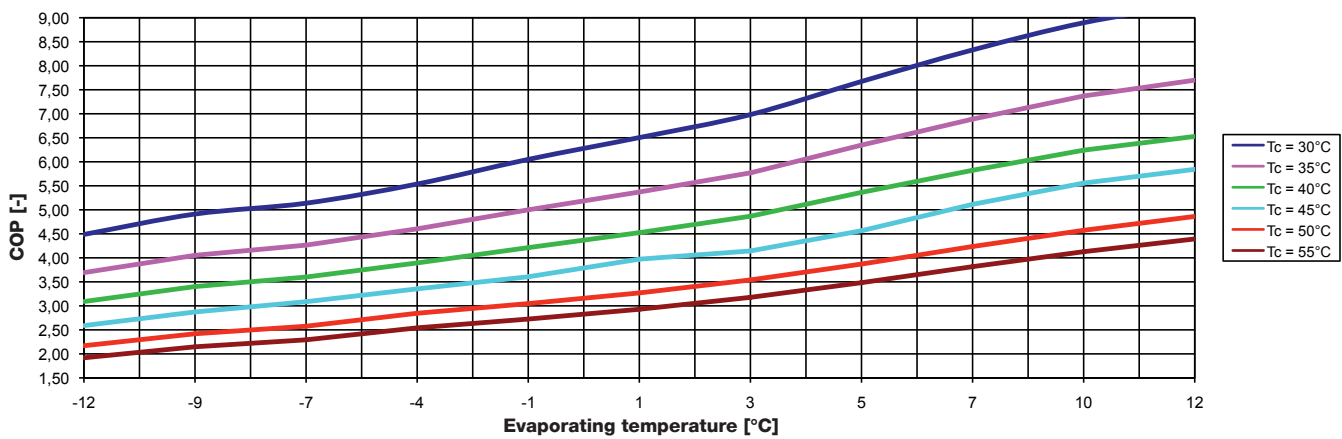
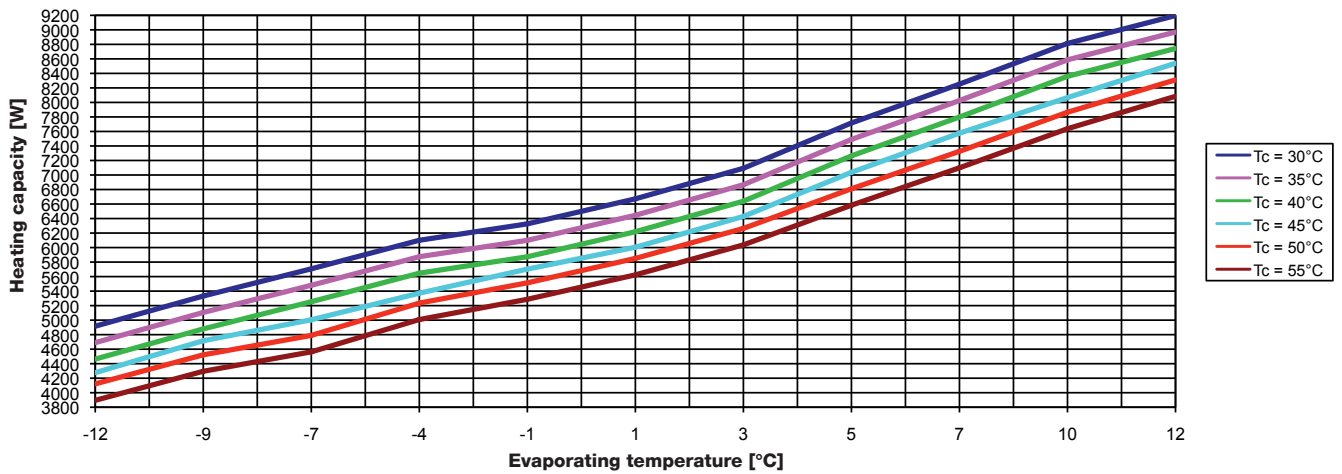
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP05S07W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP07S08W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	9,62 kW	8,67 kW
Cooling capacity	8,23 kW	6,63 kW
Input	1,39 kW	2,04 kW
COP	6,92	4,25

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	9,28 kW	8,44 kW
Cooling capacity	7,82 kW	6,30 kW
Input	1,46 kW	2,14 kW
COP	6,36	3,94

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	2,0 kW
Stall current	32 A
Oil amount	1,1 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,9 m ³ /h
Pressure loss	1,8 mWs
Temperature difference	4 K
Content	1,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,6 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,9 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	9,70 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	2,8 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 10 A
Max. compressor operating current	5,5 A
Starting current	32 A
Starting current with soft starter	21,3 A

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

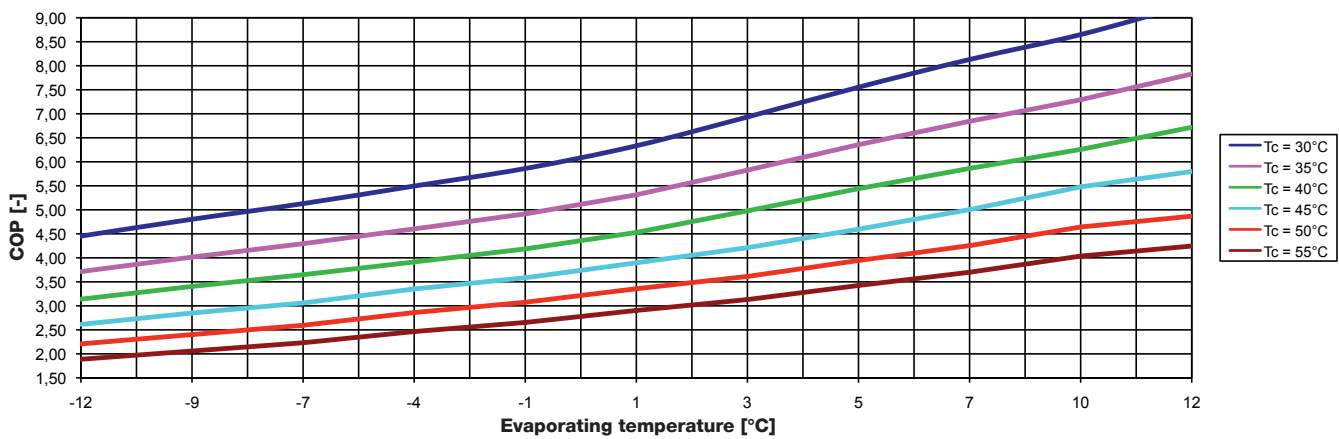
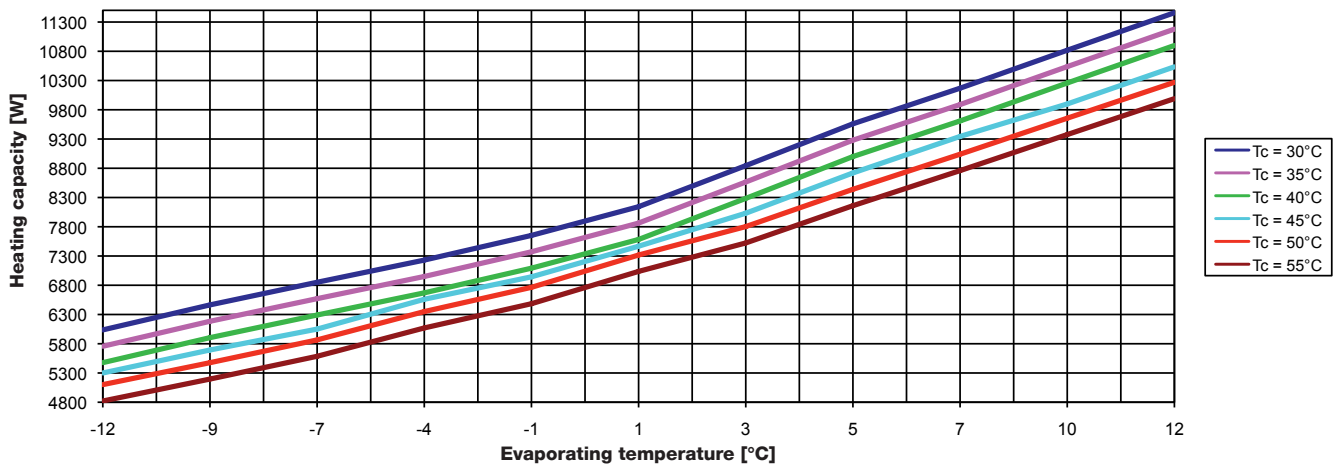
Bei Gleichstromverfahren Cooling capacity um ca. 50 % minimiert
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP07S08W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP08S10W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	10,83 kW	9,43 kW
Cooling capacity	9,26 kW	7,20 kW
Input	1,57 kW	2,23 kW
COP	6,89	4,23

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	10,45 kW	9,18 kW
Cooling capacity	8,80 kW	6,84 kW
Input	1,65 kW	2,34 kW
COP	6,33	3,93

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	2,5 kW
Stall current	35 A
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,3 m ³ /h
Pressure loss	2,5 mWs
Temperature difference	4 K
Content	1,9 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,0 m ³ /h
Pressure loss	1,0 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	11,10 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	2,9 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	6 A
Starting current	35 A
Starting current with soft starter	23,3 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

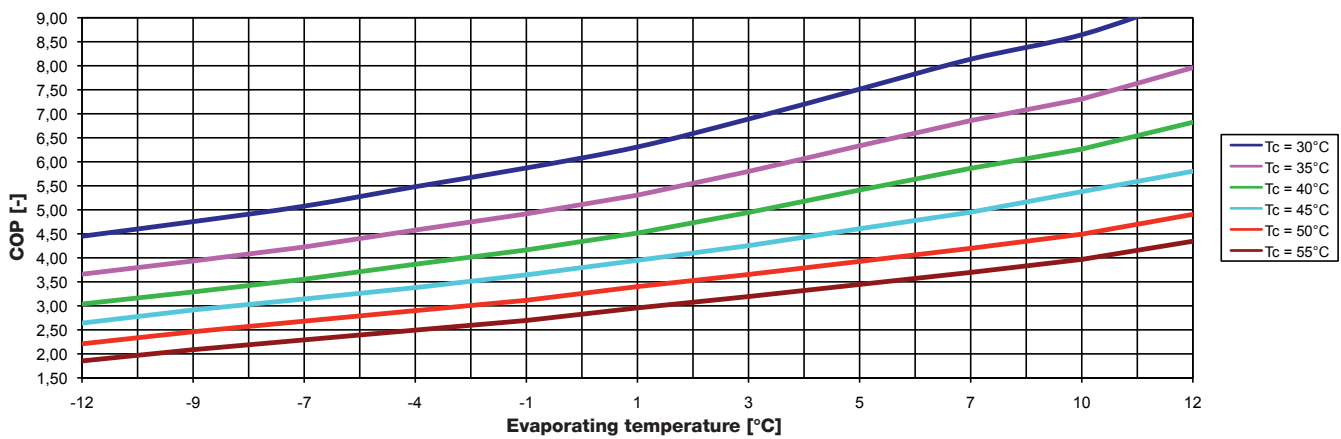
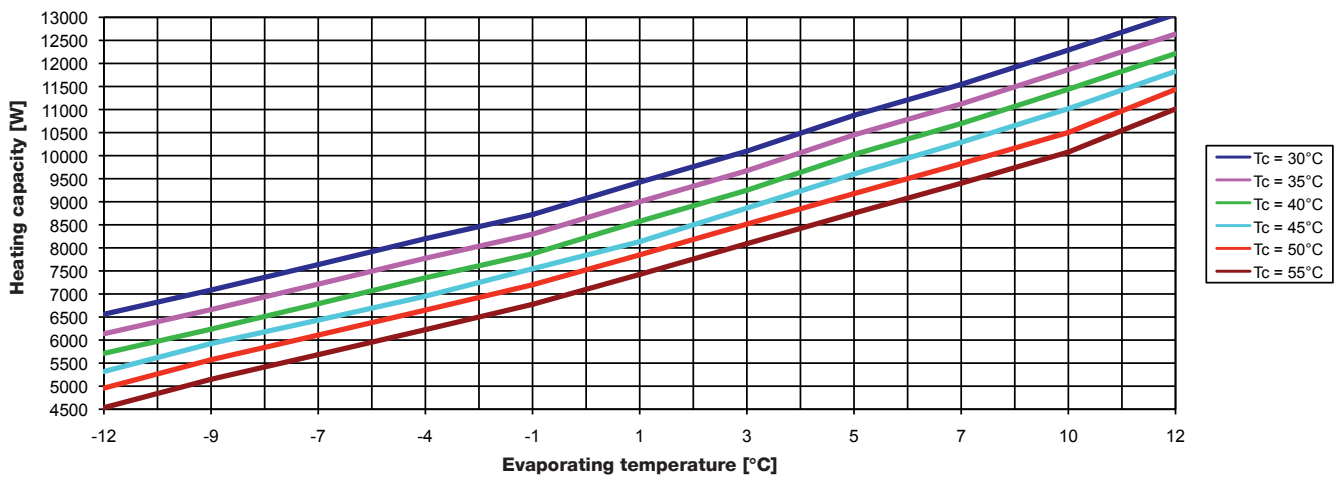
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP08S10W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP10S12W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	14,30 kW	12,84 kW
Cooling capacity	12,24 kW	9,91 kW
Input	2,06 kW	2,93 kW
COP	6,95	4,38

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	13,79 kW	12,49 kW
Cooling capacity	11,63 kW	9,41 kW
Input	2,16 kW	3,08 kW
COP	6,38	4,06

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	3,2 kW
Stall current	48 A
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,7 m ³ /h
Pressure loss	2,0 mWs
Temperature difference	4 K
Content	1,9 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,3 m ³ /h
Pressure loss	1,5 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	14,40 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,1 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	8 A
Starting current	48 A
Starting current with soft starter	32 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

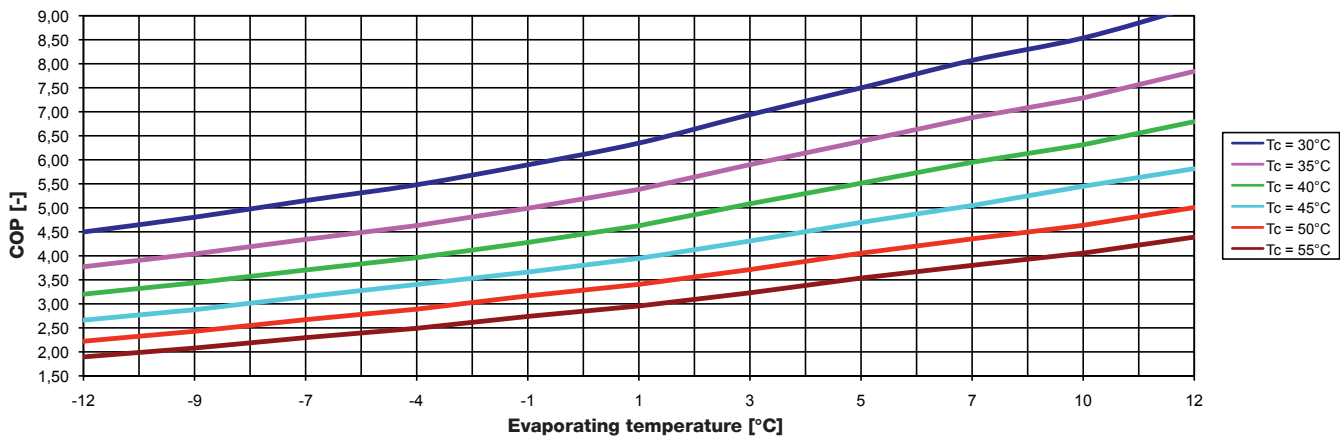
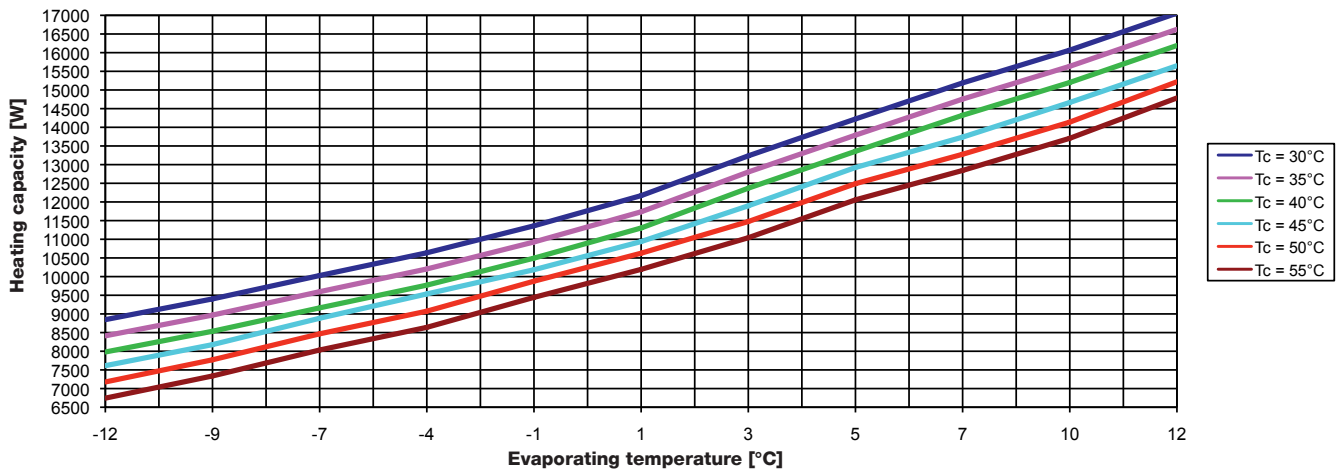
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP10S12W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP12S16W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	17,15 kW	15,37 kW
Cooling capacity	14,73 kW	11,86 kW
Input	2,43 kW	3,51 kW
COP	7,06	4,38

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	16,54 kW	14,95 kW
Cooling capacity	13,99 kW	11,26 kW
Input	2,55 kW	3,69 kW
COP	6,49	4,05

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	4,1 kW
Stall current	64 A
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	3,4 m ³ /h
Pressure loss	3,0 mWs
Temperature difference	4 K
Content	1,9 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,9 m ³ /h
Pressure loss	1,6 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	17,30 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,2 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	10 A
Starting current	64 A
Starting current with soft starter	42,6 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

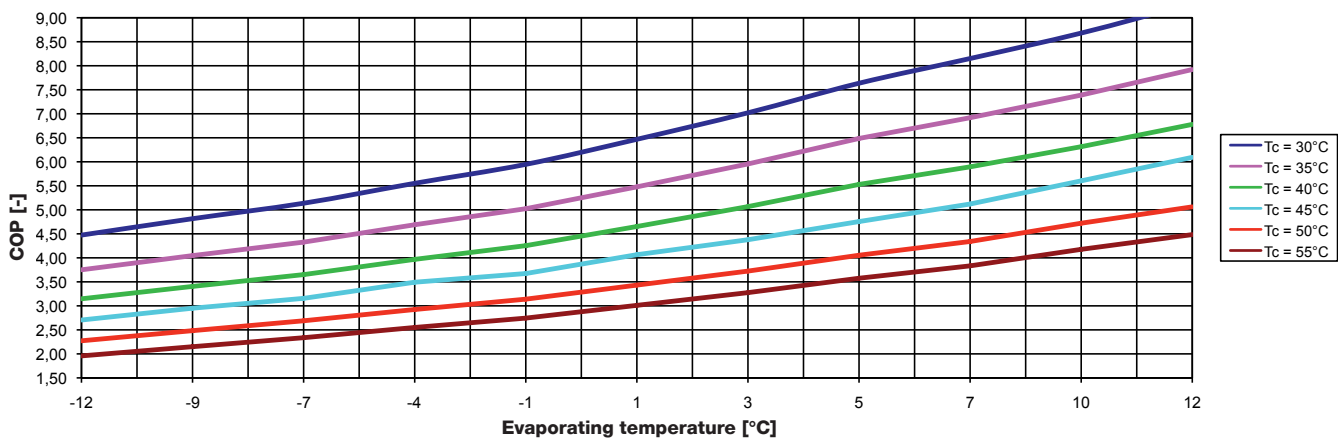
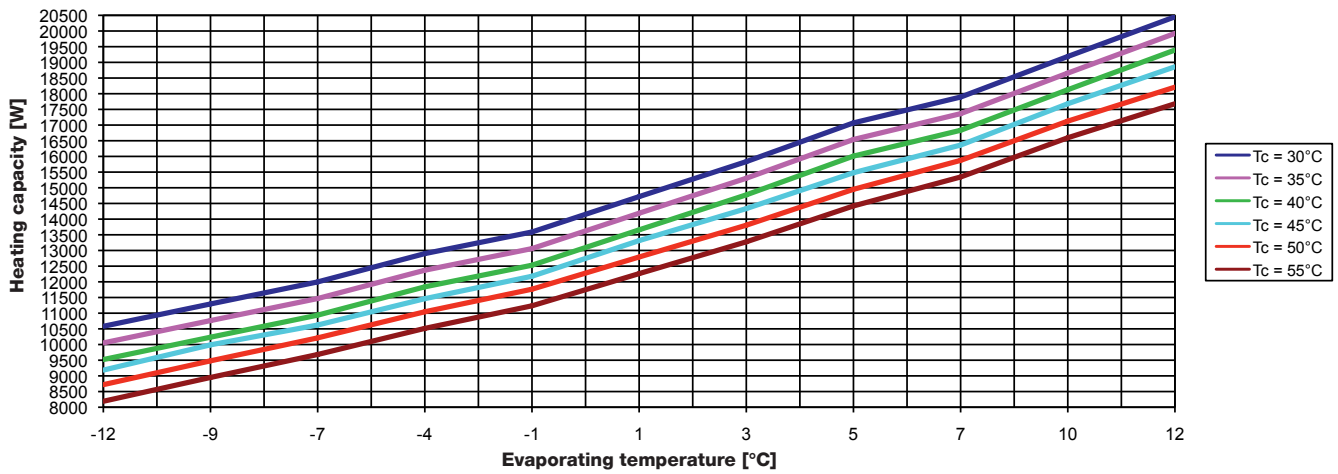
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP12S16W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP16S18W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	20,58 kW	18,61 kW
Cooling capacity	17,61 kW	14,39 kW
Input	2,97 kW	4,22 kW
COP	6,93	4,41

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	19,85 kW	18,10 kW
Cooling capacity	16,73 kW	13,67 kW
Input	3,12 kW	4,43 kW
COP	6,36	4,08

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	5,1 kW
Stall current	74 A
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	4,2 m ³ /h
Pressure loss	2,8 mWs
Temperature difference	4 K
Content	1,9 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	3,5 m ³ /h
Pressure loss	1,9 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	20,50 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	12,2 A
Starting current	74,6 A
Starting current with soft starter	49,3 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x460x520	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

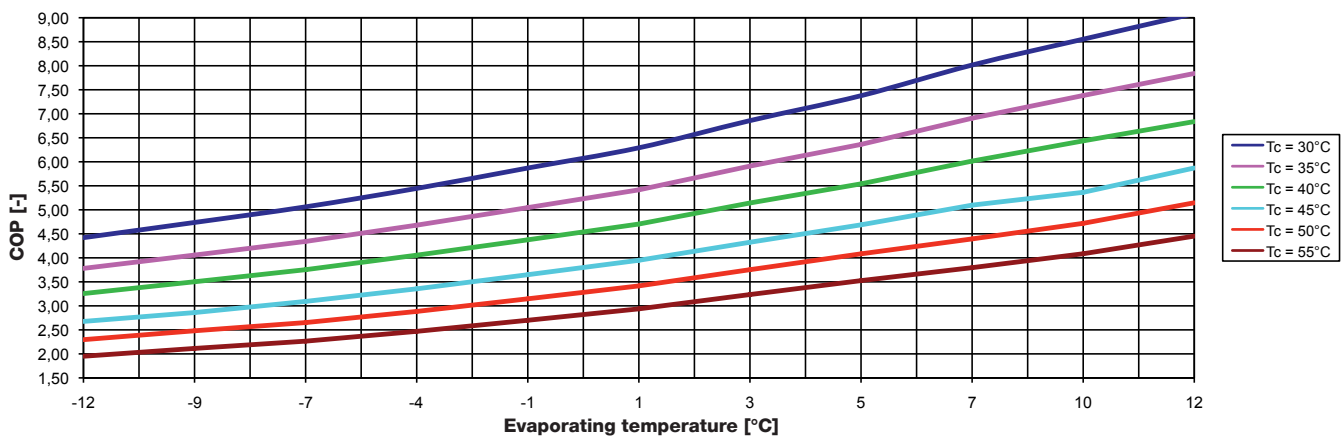
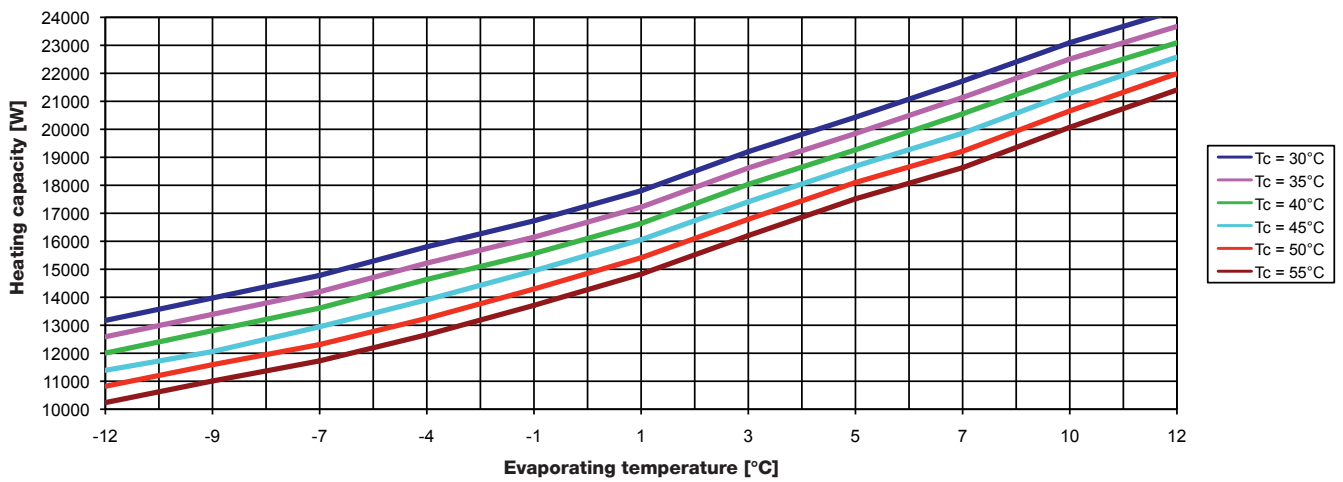
²⁾ Values given in counter-current flow in cooling mode.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP16S18W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP20S25W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	29,60 kW	26,64 kW
Cooling capacity	25,25 kW	20,57 kW
Input	4,34 kW	6,07 kW
COP	6,81	4,39

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	28,55 kW	25,91 kW
Cooling capacity	23,99 kW	19,54 kW
Input	4,56 kW	6,37 kW
COP	6,26	4,07

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	6,9 kW
Stall current	95,6 A
Oil amount	2,5 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	5,5 m ³ /h
Pressure loss	3,9 mWs
Temperature difference	4 K
Content	3,0 l
Tested pressure	45 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	4,5 m ³ /h
Pressure loss	2,2 mWs
Temperature difference	5 K
Content	3,0 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	29,30 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	4,7 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 20 A
Max. compressor operating current	16 A
Starting current	95 A
Starting current with soft starter	63,3 A

Acoustic Pressure Level	
1 m distance	50 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	ET
Ground water outlet and inlet	2"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	175	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

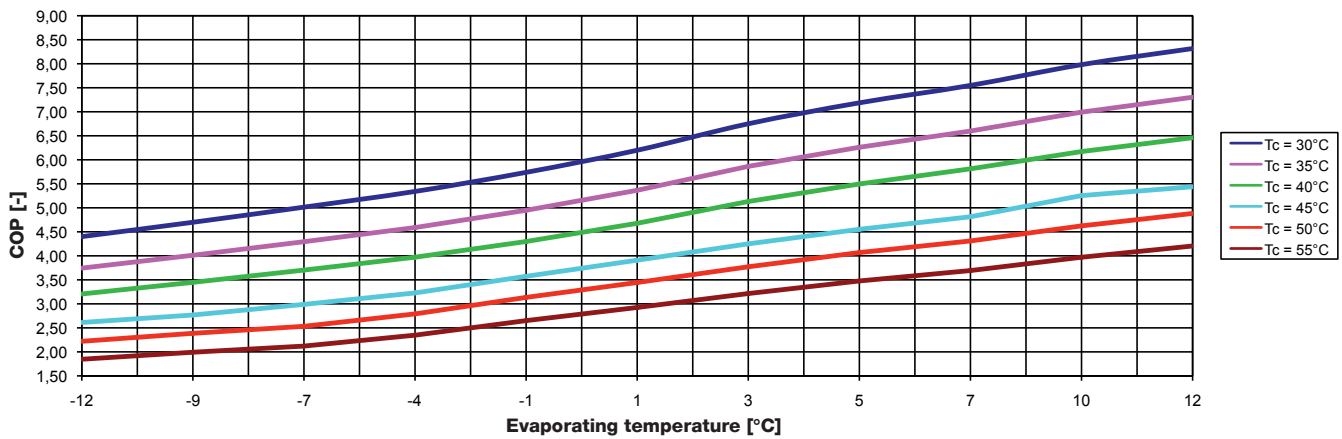
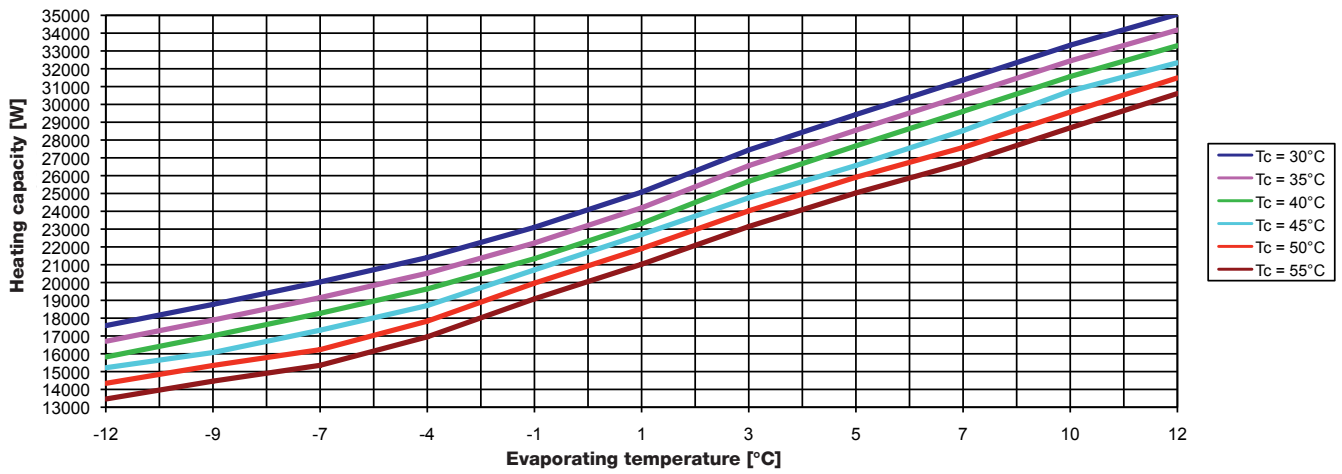
²⁾ Values given in counter-current flow in cooling mode.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP20S25W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP28S40W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	39,44 kW	35,39 kW
Cooling capacity	33,65 kW	27,21 kW
Input	5,79 kW	8,18 kW
COP	6,81	4,33

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	38,05 kW	34,44 kW
Cooling capacity	31,97 kW	25,85 kW
Input	6,08 kW	8,59 kW
COP	6,26	4,01

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	8,5 kW
Stall current	118 A
Oil amount	3,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	7,3 m ³ /h
Pressure loss	1,5 mWs
Temperature difference	4 K
Content	4,5 l
Tested pressure	45 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	6,8 m ³ /h
Pressure loss	1,9 mWs
Temperature difference	5 K
Content	4,5 l
Tested pressure	45 bar

Refrigerant Cycle	
Working fluid	R410a
Fill amount	5,4 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 25 A
Max. compressor operating current	22 A
Starting current	118 A
Starting current with soft starter	78,6 A

Acoustic Pressure Level	
1 m distance	50 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	ET
Ground water outlet and inlet	2"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	185	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

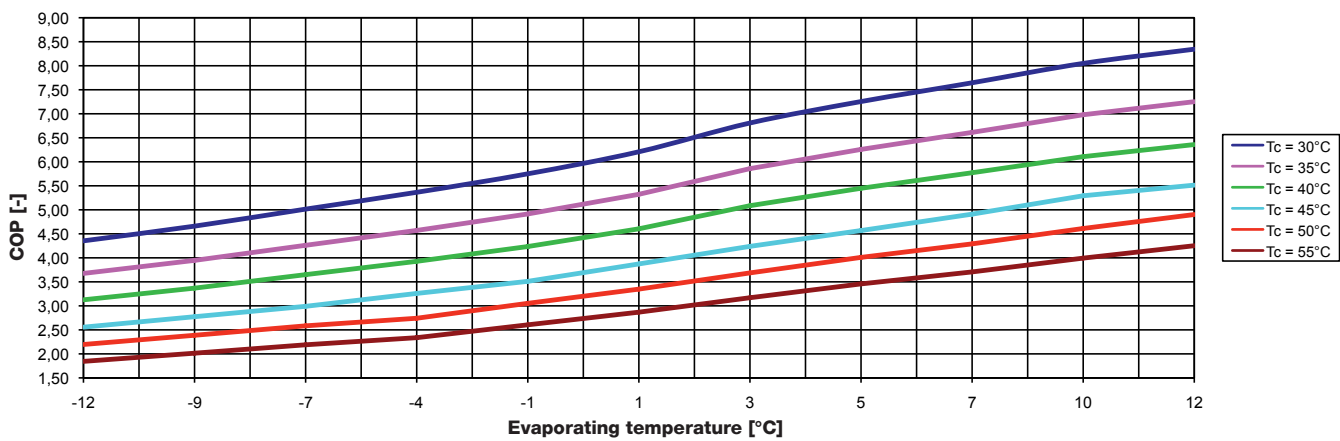
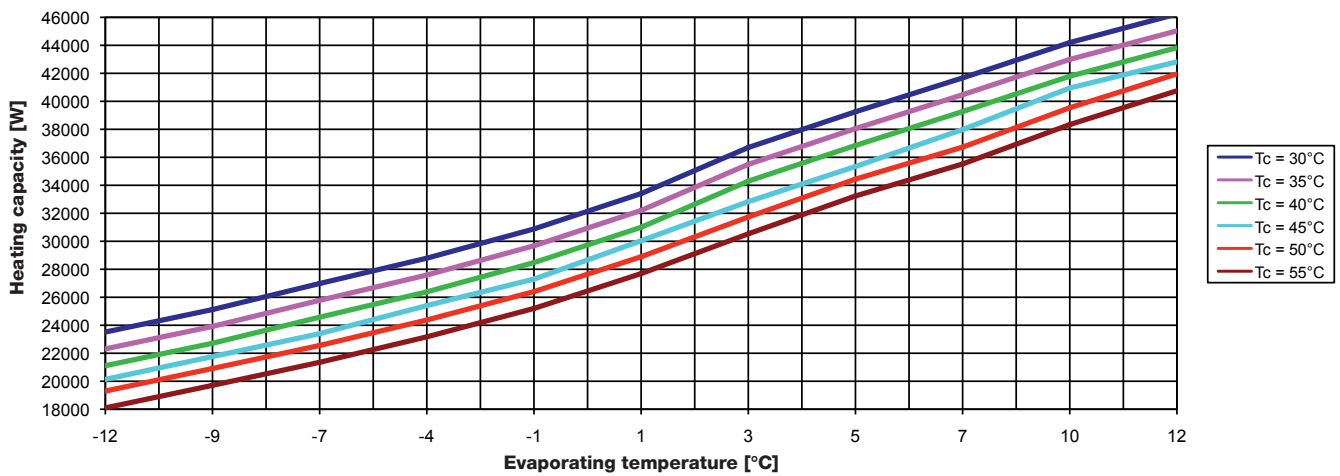
W10 = Energy source temperature (Ground water) = 10 °C

W35 = Heating water temperature (Water) = 35 °C

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP28S40W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP32S45W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	44,12 kW	39,19 kW
Cooling capacity	37,63 kW	30,16 kW
Input	6,49 kW	9,03 kW
COP	6,80	4,34

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	42,56 kW	38,13 kW
Cooling capacity	35,75 kW	28,65 kW
Input	6,81 kW	9,48 kW
COP	6,25	4,02

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	10,3 kW
Stall current	118 A
Oil amount	3,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	9,0 m ³ /h
Pressure loss	2,3 mWs
Temperature difference	4 K
Content	4,5 l
Tested pressure	45 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	8,3 m ³ /h
Pressure loss	2,0 mWs
Temperature difference	5 K
Content	4,5 l
Tested pressure	45 bar

Refrigerant Cycle	
Working fluid	R410a
Fill amount	5,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 32 A
Max. compressor operating current	25 A
Starting current	118 A
Starting current with soft starter	78,6 A

Acoustic Pressure Level	
1 m distance	55 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	ET
Ground water outlet and inlet	2"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	225	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

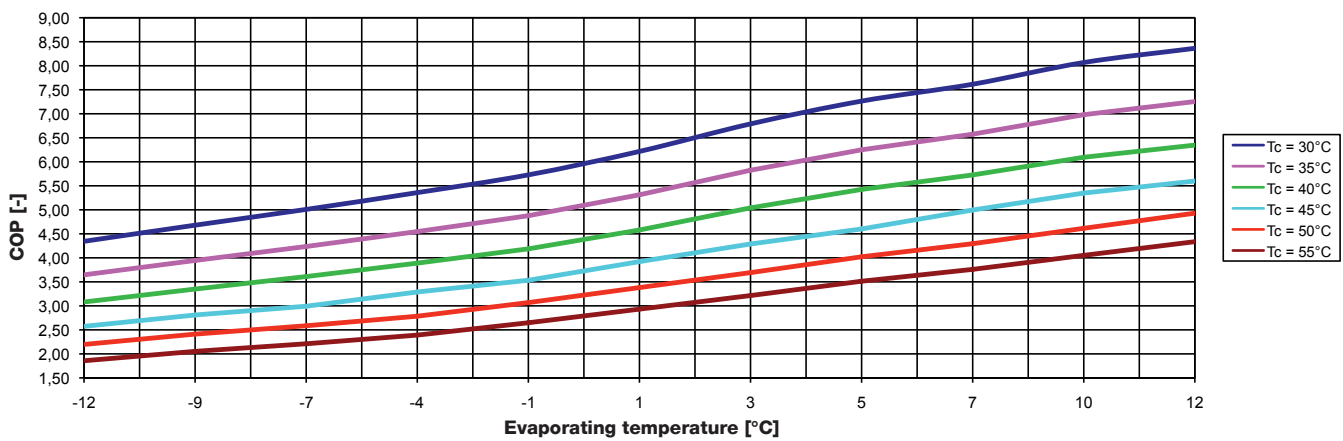
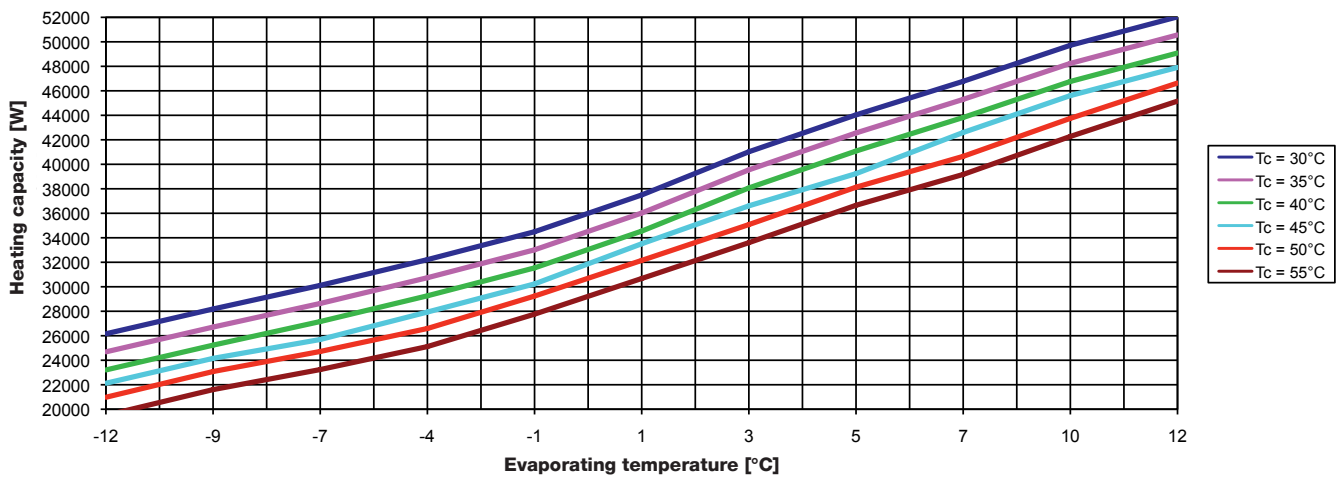
W10 = Energy source temperature (Ground water) = 10 °C

W35 = Heating water temperature (Water) = 35 °C

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP32S45W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP42S55W-WEB

Ground Water Heat Pump | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	58,50 kW	52,47 kW
Cooling capacity	49,90 kW	40,39 kW
Input	8,60 kW	12,08 kW
COP	6,80	4,34

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	56,44 kW	51,06 kW
Cooling capacity	47,41 kW	38,38 kW
Input	9,03 kW	12,68 kW
COP	6,25	4,03

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	13,1 kW
Stall current	198 A
Oil amount	3,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	13,6 m ³ /h
Pressure loss	2,0 mWs
Temperature difference	4 K
Content	4,5 l
Tested pressure	45 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	9,4 m ³ /h
Pressure loss	1,4 mWs
Temperature difference	5 K
Content	5,7 l
Tested pressure	45 bar

Refrigerant Cycle	
Working fluid	R410a
Fill amount	7,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 32 A
Max. compressor operating current	31 A
Starting current	198 A
Starting current with soft starter	132 A

Acoustic Pressure Level	
1 m distance	58 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	ET
Ground water outlet and inlet	2"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	240	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

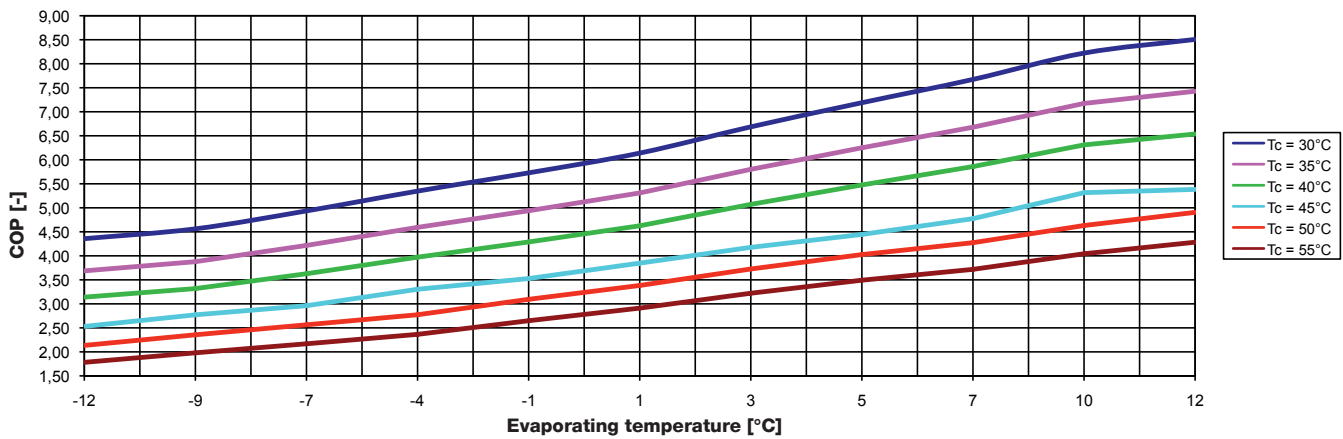
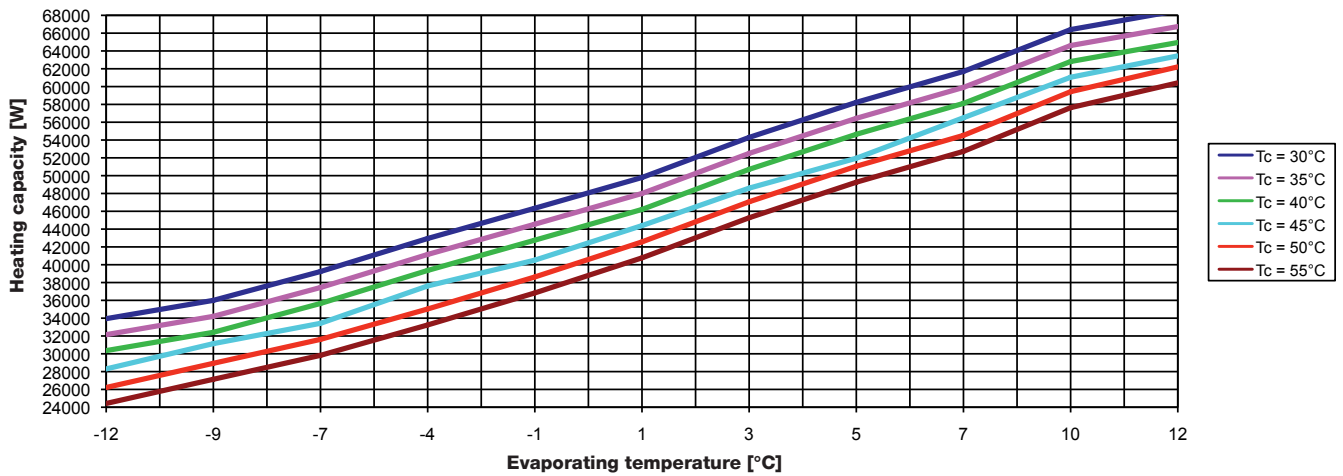
W10 = Energy source temperature (Ground water) = 10 °C

W35 = Heating water temperature (Water) = 35 °C

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP42S55W-WEB

Ground Water Heat Pump | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP05S07W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	7,33 kW	6,56 kW
Cooling capacity	6,21 kW	4,88 kW
Input	1,12 kW	1,68 kW
COP	6,53	3,92

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	7,08 kW	6,40 kW
Cooling capacity	5,90 kW	4,64 kW
Input	1,18 kW	1,76 kW
COP	6,00	3,64

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	1,8 kW
Stall current	26 A
Oil amount	1,1 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	1,8 m ³ /h
Pressure loss	1,1 mWs
Temperature difference	3 K
Content	2,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,4 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,9 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	7,40 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 10 A
Max. compressor operating current	5 A
Starting current	26 A
Starting current with soft starter	17 A

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

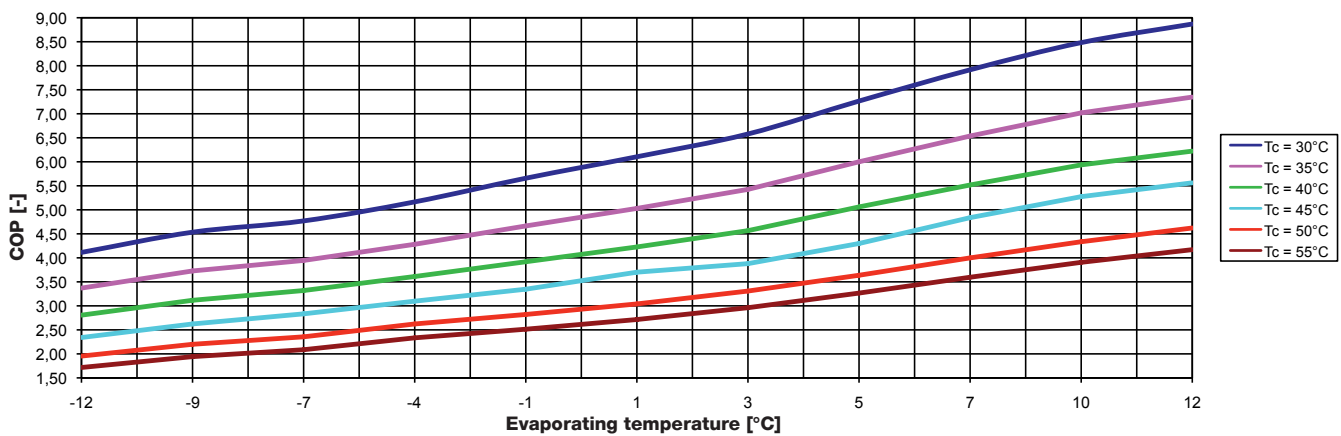
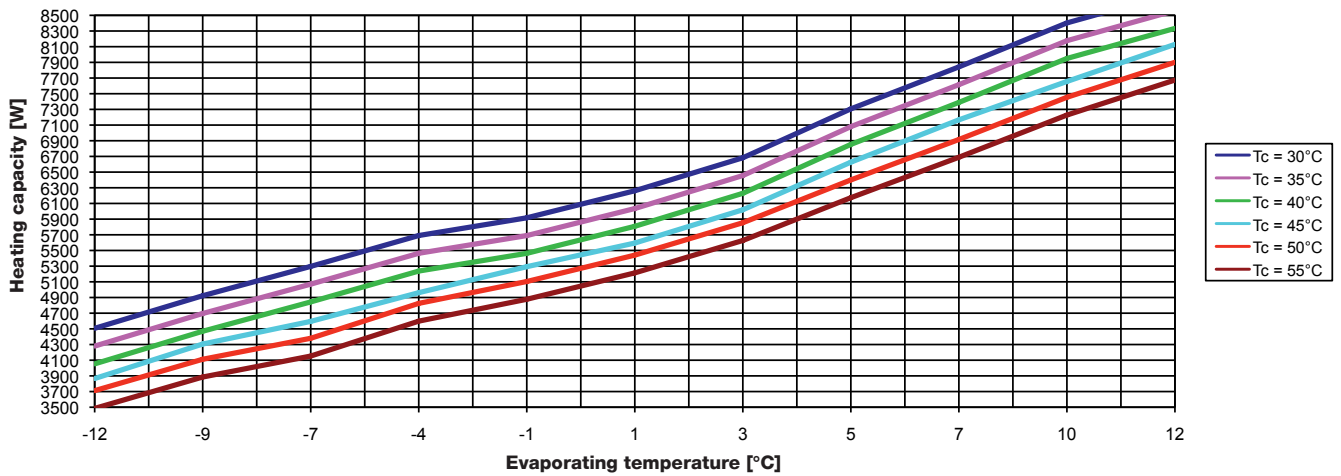
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP05S07W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP07S08W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	9,13 kW	8,17 kW
Cooling capacity	7,74 kW	6,14 kW
Input	1,39 kW	2,04 kW
COP	6,56	4,01

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	8,81 kW	7,97 kW
Cooling capacity	7,35 kW	5,83 kW
Input	1,46 kW	2,14 kW
COP	6,03	3,72

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	2,0 kW
Stall current	32 A
Oil amount	1,1 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	2,1 m ³ /h
Pressure loss	1,8 mWs
Temperature difference	3 K
Content	2,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	1,6 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,9 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	9,20 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 10 A
Max. compressor operating current	5,5 A
Starting current	32 A
Starting current with soft starter	21,3 A

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

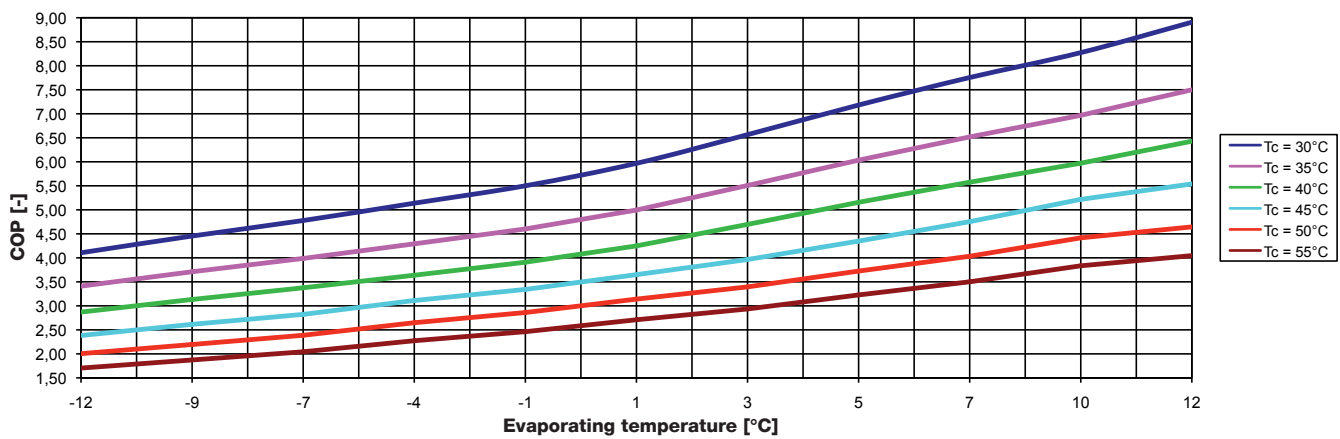
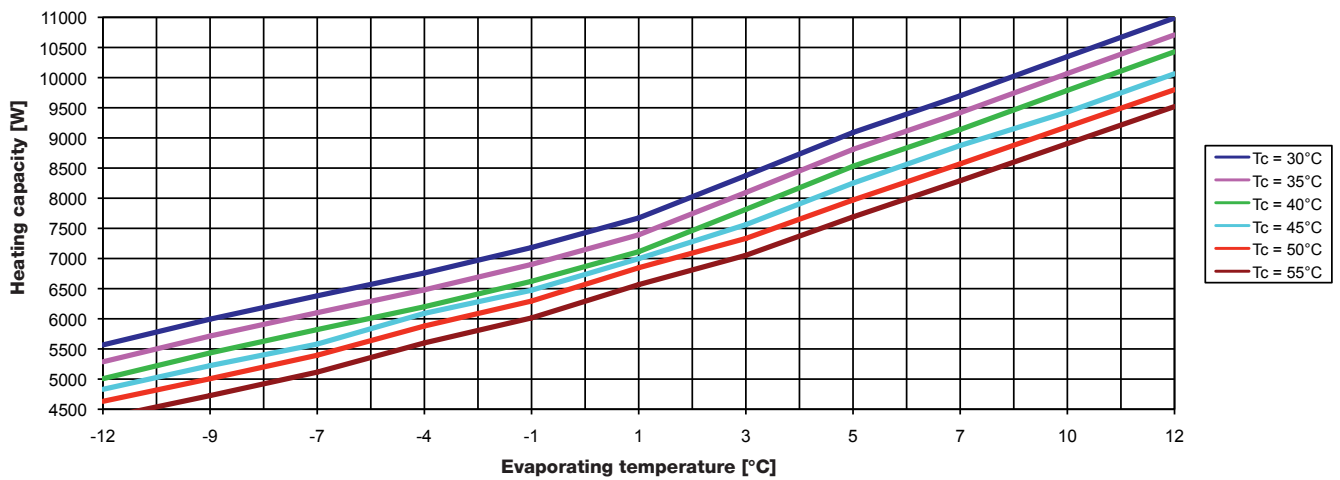
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET 07S08W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP08S10W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	10,20 kW	8,79 kW
Cooling capacity	8,63 kW	6,57 kW
Input	1,57 kW	2,23 kW
COP	6,49	3,95

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	9,85 kW	8,58 kW
Cooling capacity	8,20 kW	6,24 kW
Input	1,65 kW	2,34 kW
COP	5,97	3,67

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	2,5 kW
Stall current	35 A
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	2,5 m ³ /h
Pressure loss	2,0 mWs
Temperature difference	3 K
Content	2,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,0 m ³ /h
Pressure loss	1,0 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	10,50 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,1 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	6 A
Starting current	35 A
Starting current with soft starter	23,3 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	125	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

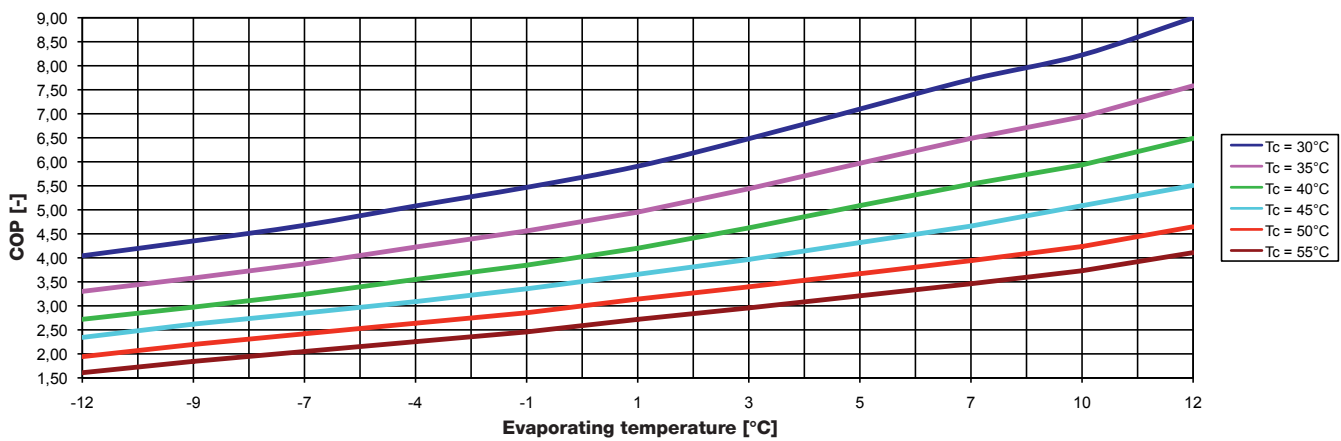
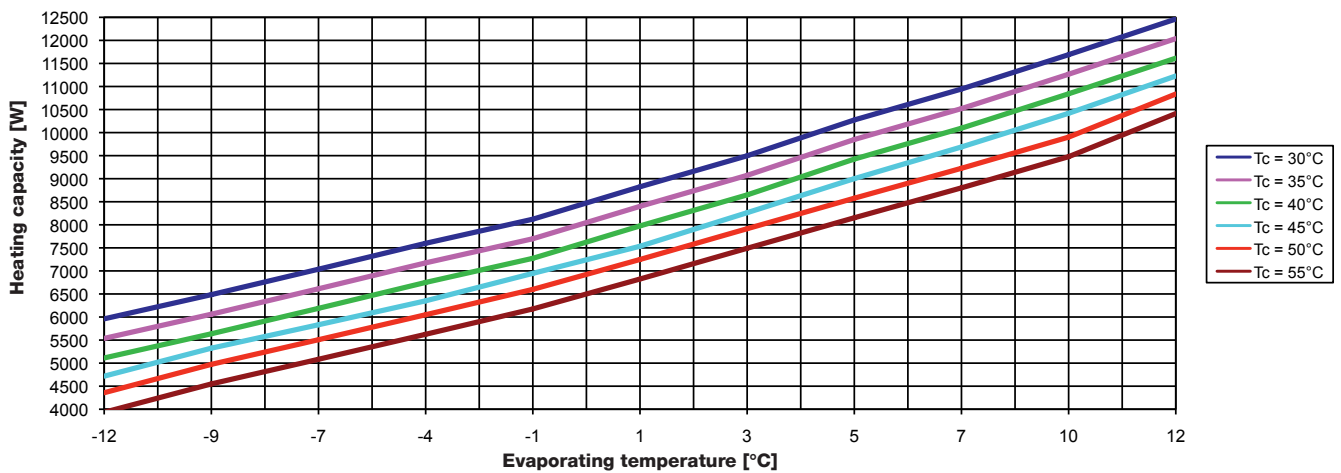
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP08S10W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP10S12W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	13,48 kW	12,02 kW
Cooling capacity	11,42 kW	9,08 kW
Input	2,06 kW	2,93 kW
COP	6,55	4,10

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	13,01 kW	11,71 kW
Cooling capacity	10,85 kW	8,63 kW
Input	2,16 kW	3,08 kW
COP	6,02	3,80

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	3,2 kW
Stall current	48 A
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	3,2 m ³ /h
Pressure loss	2,5 mWs
Temperature difference	3 K
Content	2,4 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,3 m ³ /h
Pressure loss	1,5 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	13,70 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,2 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	8 A
Starting current	48 A
Starting current with soft starter	32 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	5/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

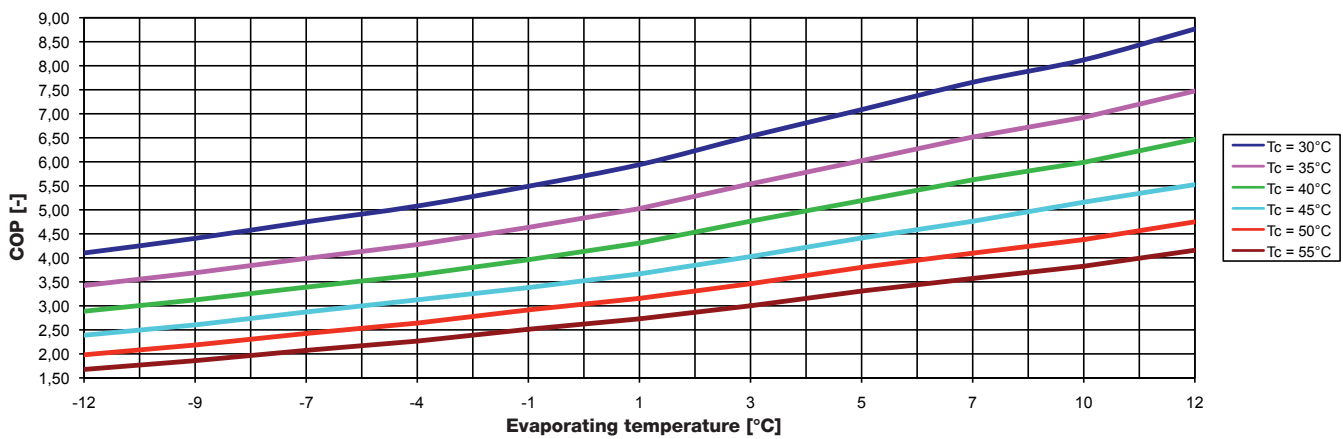
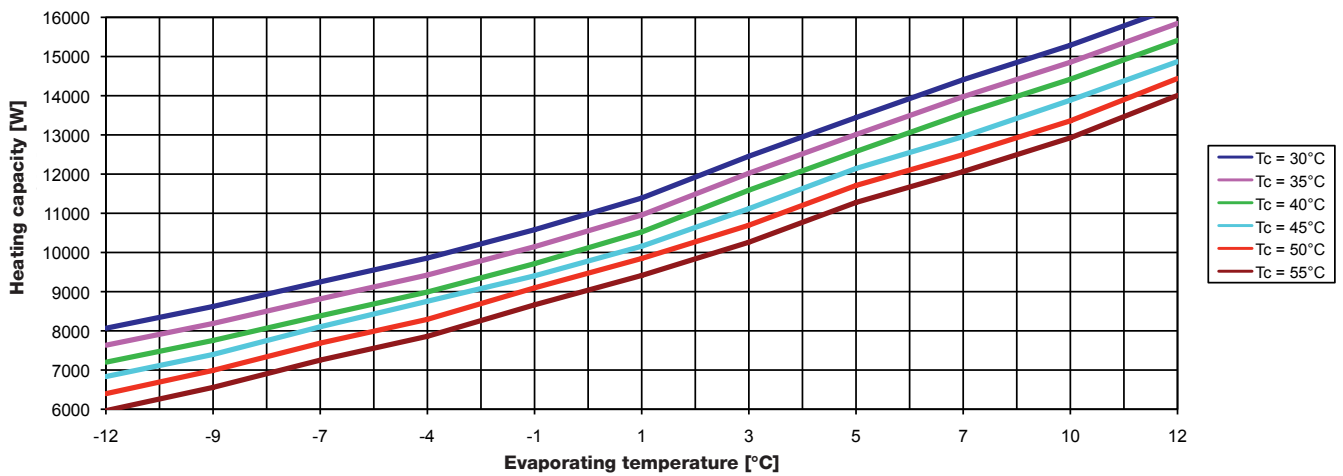
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP10S12W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP12S16W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	16,10 kW	14,31 kW
Cooling capacity	13,67 kW	10,80 kW
Input	2,43 kW	3,51 kW
COP	6,63	4,08

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	15,54 kW	13,95 kW
Cooling capacity	12,99 kW	10,26 kW
Input	2,55 kW	3,69 kW
COP	6,09	3,78

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	4,1 kW
Stall current	64 A
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	4,2 m ³ /h
Pressure loss	3,0 mWs
Temperature difference	3 K
Content	4,2 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	2,9 m ³ /h
Pressure loss	1,6 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	16,40 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	10 A
Starting current	64 A
Starting current with soft starter	42,6 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	6/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

²⁾ Values given in counter-current flow in cooling mode.

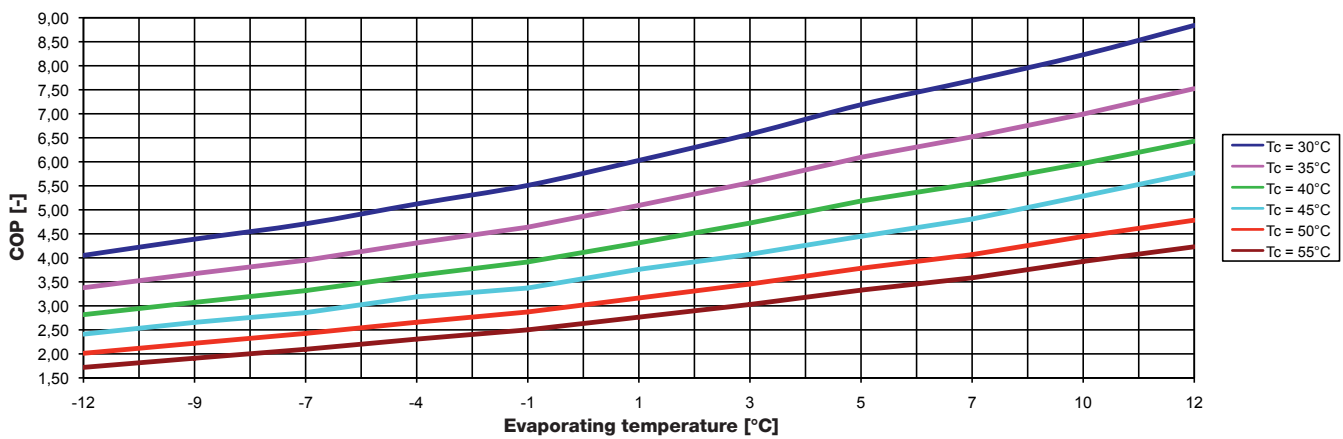
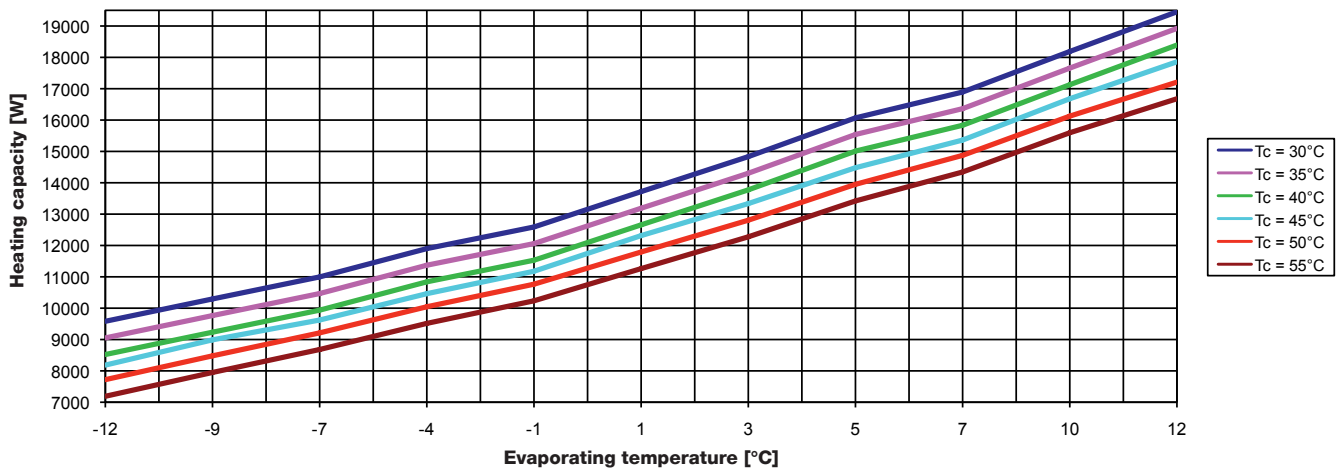
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

0,25 kW/person are to be calculated to the heating load for DHW preparation.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP12S16W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP16S18W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	19,53 kW	17,56 kW
Cooling capacity	16,56 kW	13,33 kW
Input	2,97 kW	4,22 kW
COP	6,57	4,16

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	18,85 kW	17,10 kW
Cooling capacity	15,73 kW	12,67 kW
Input	3,12 kW	4,43 kW
COP	6,04	3,86

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	5,1 kW
Stall current	74 A
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	5,2 m ³ /h
Pressure loss	2,8 mWs
Temperature difference	3 K
Content	4,2 l
Tested pressure	45 bar

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	3,5 m ³ /h
Pressure loss	1,9 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	19,50 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,8 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	12,2 A
Starting current	74,6 A
Starting current with soft starter	49,3 A

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	ET
Ground water outlet and inlet	6/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	155	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

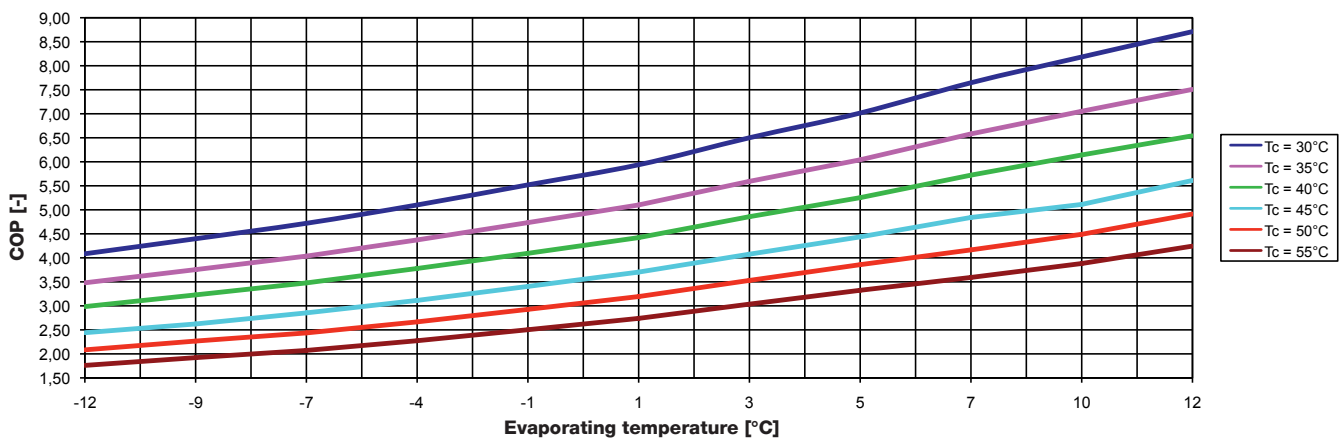
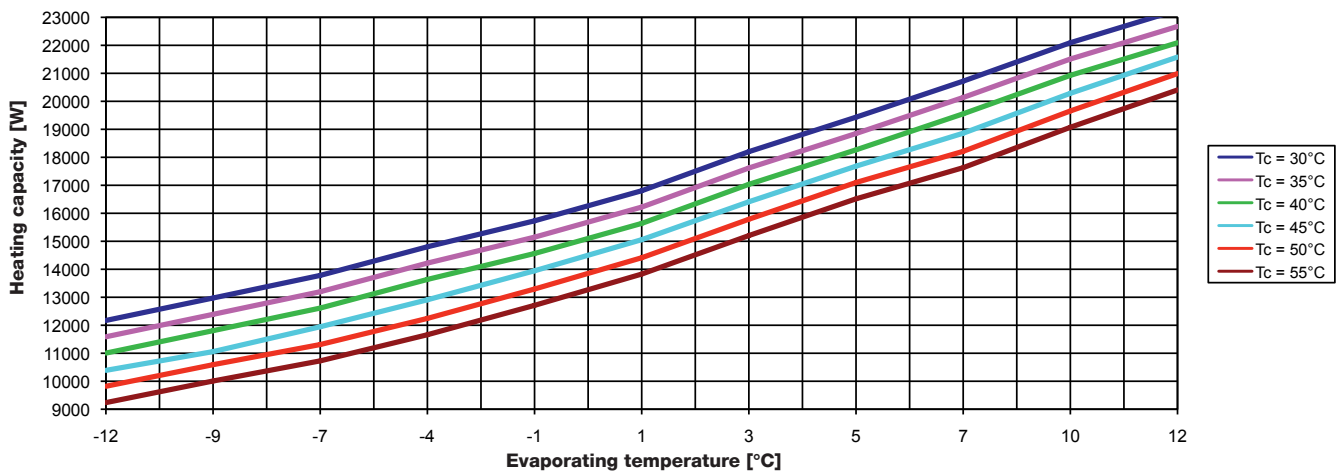
²⁾ Values given in counter-current flow in cooling mode.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP16S18W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP20S25W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	28,12 kW	25,16 kW
Cooling capacity	23,78 kW	19,10 kW
Input	4,34 kW	6,07 kW
COP	6,48	4,15

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	27,15 kW	24,51 kW
Cooling capacity	22,59 kW	18,14 kW
Input	4,56 kW	6,37 kW
COP	5,95	3,85

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	6,9 kW
Stall current	95,6 A
Oil amount	2,5 l

Evaporator / Energy Source	
Type	Spiral heat exchanger
Material	Stainless steel
Water flow rate	6,6 m ³ /h
Pressure loss	3,9 mWs
Temperature difference	3 K
Content	4,2 l
Tested pressure	45 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow rate	4,5 m ³ /h
Pressure loss	2,2 mWs
Temperature difference	5 K
Content	3,0 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
W25/W18	27,80 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	5,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 20 A
Max. compressor operating current	16 A
Starting current	95 A
Starting current with soft starter	63,3 A

Acoustic Pressure Level	
1 m distance	50 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	ET
Ground water outlet and inlet	6/4"	ET
Height x Width x Depth	1.380x550x620	mm
Weight	175	kg

Operating Limit Values		
Max. operating water pressure	10	bar
Max. operating refrigerant pressure	40	bar
Max. heat outlet temperature	62	°C

¹⁾ Performance specifications

W10 = Energy source temperature (Ground water) = 10 °C
W35 = Heating water temperature (Water) = 35 °C

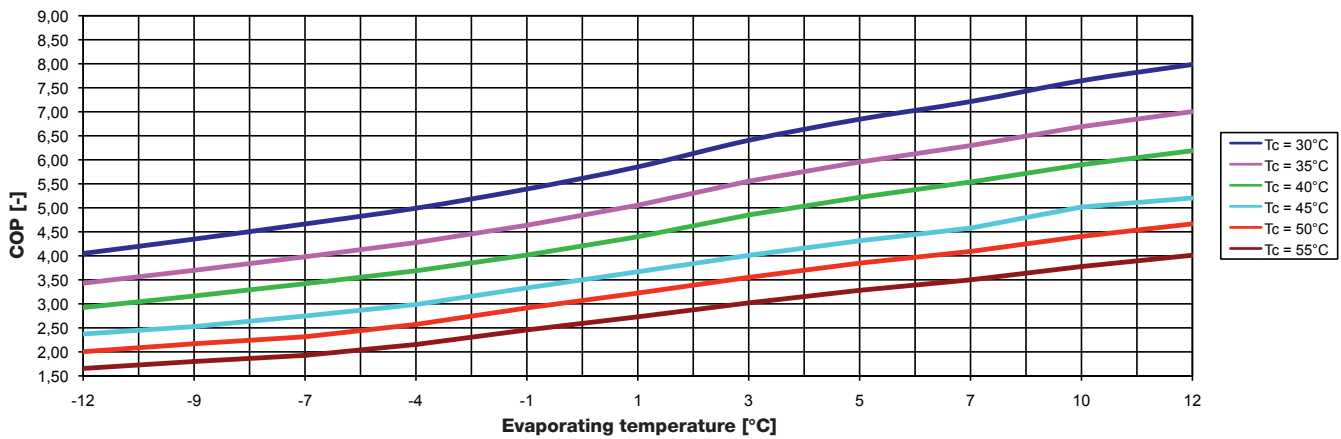
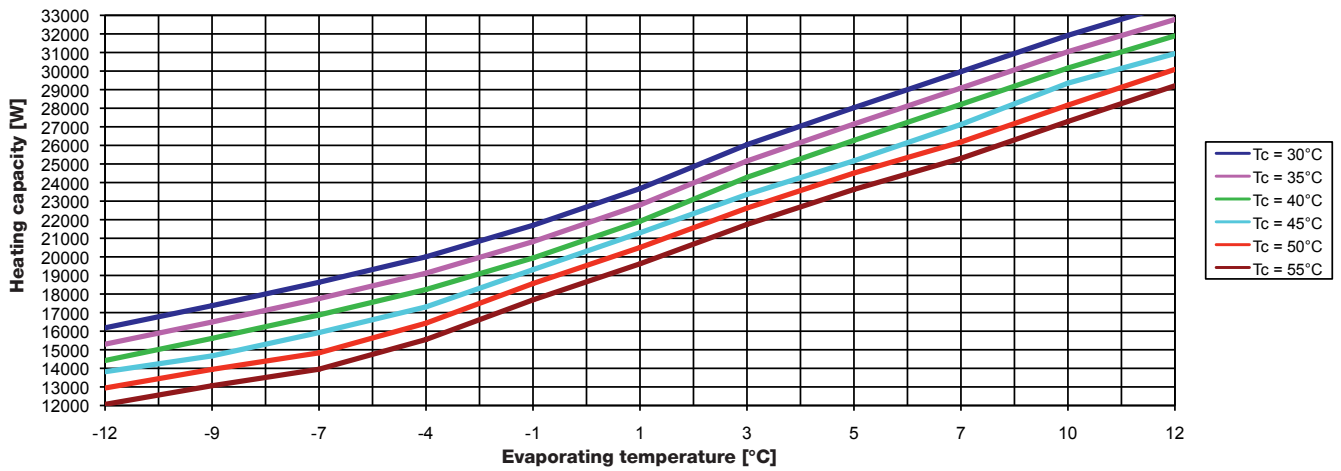
²⁾ Values given in counter-current flow in cooling mode.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

Tolerance results of EN 12900 are valid for the above mentioned performance data.

TECHNICAL DATA SHEET HP20S25W-WEB, S VERSION

Ground Water Heat Pump with Spiral Evaporator | WEB CONTROL Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.