



HELIOTHERM HEAT PUMPS

TECHNICAL DATA SHEETS

**Ground Source Heat Pump with Brine Probe
WEB CONTROL Series**



TECHNICAL DATA SHEET HP05S07W-WEB

Ground Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	6,03 kW	5,32 kW
Cooling capacity	4,79 kW	3,54 kW
Input	1,24 kW	1,79 kW
COP	4,87	2,98

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	5,87 kW	5,24 kW
Cooling capacity	4,60 kW	3,40 kW
Input	1,28 kW	1,84 kW
COP	4,60	2,85

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
Brine 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
Flow amount	1,2 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,9 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
B25/W18	7,00 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
Pressure line / Suction line	5/4"	mm
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

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

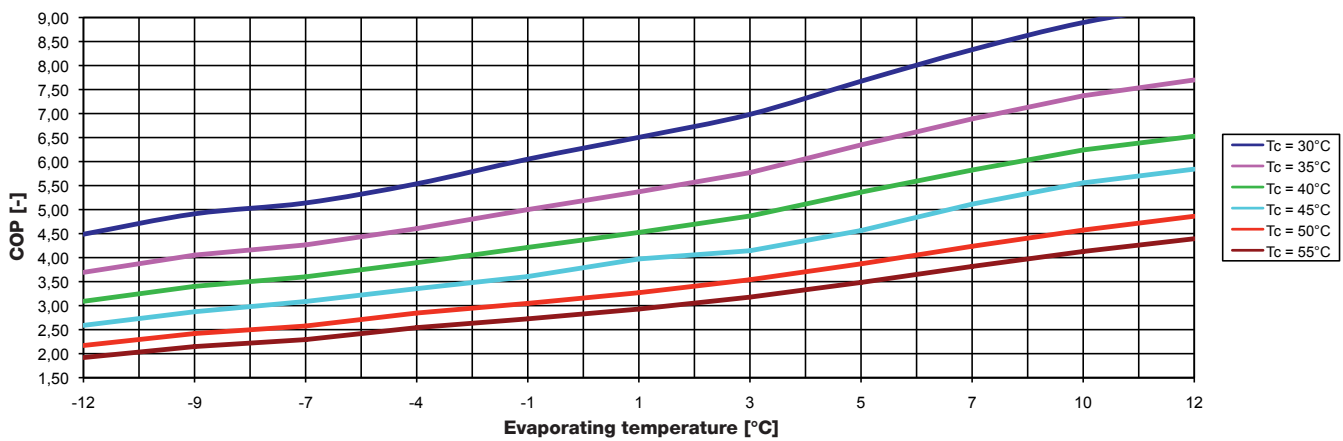
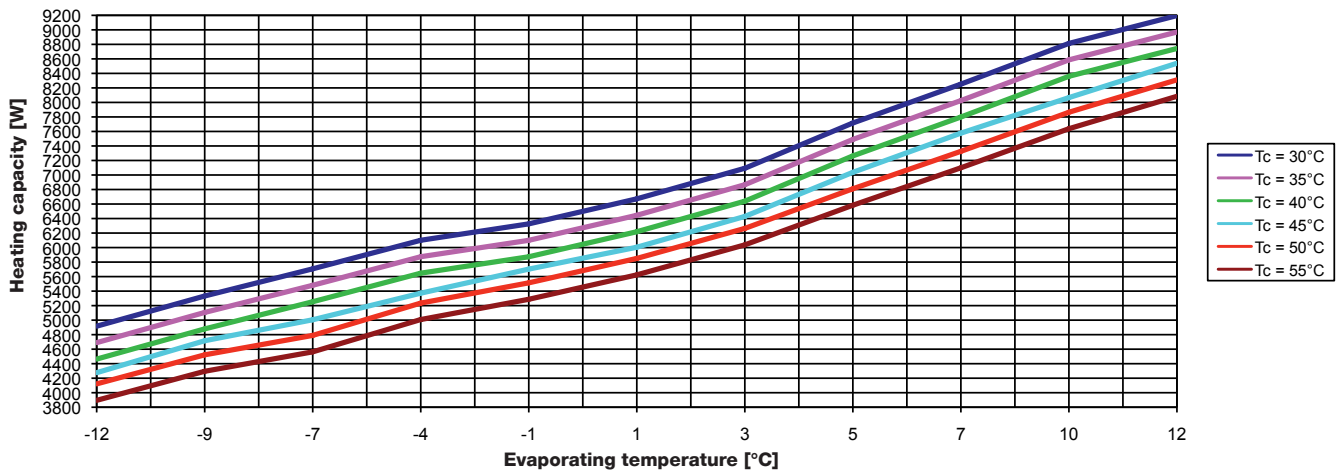
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	7,13 kW	6,46 kW
Cooling capacity	5,67 kW	4,30 kW
Input	1,47 kW	2,16 kW
COP	4,87	3,00

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	6,95 kW	6,35 kW
Cooling capacity	5,44 kW	4,13 kW
Input	1,51 kW	2,22 kW
COP	4,60	2,86

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
Brine 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
Flow amount	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⁾	
B25/W18	8,70 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
Pressure line / Suction line	5/4"	mm
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

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

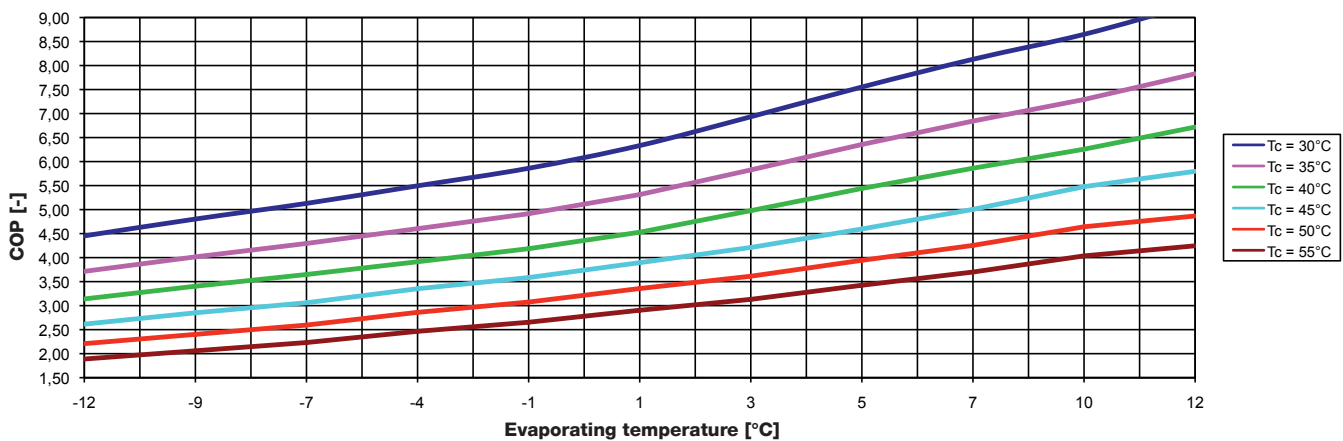
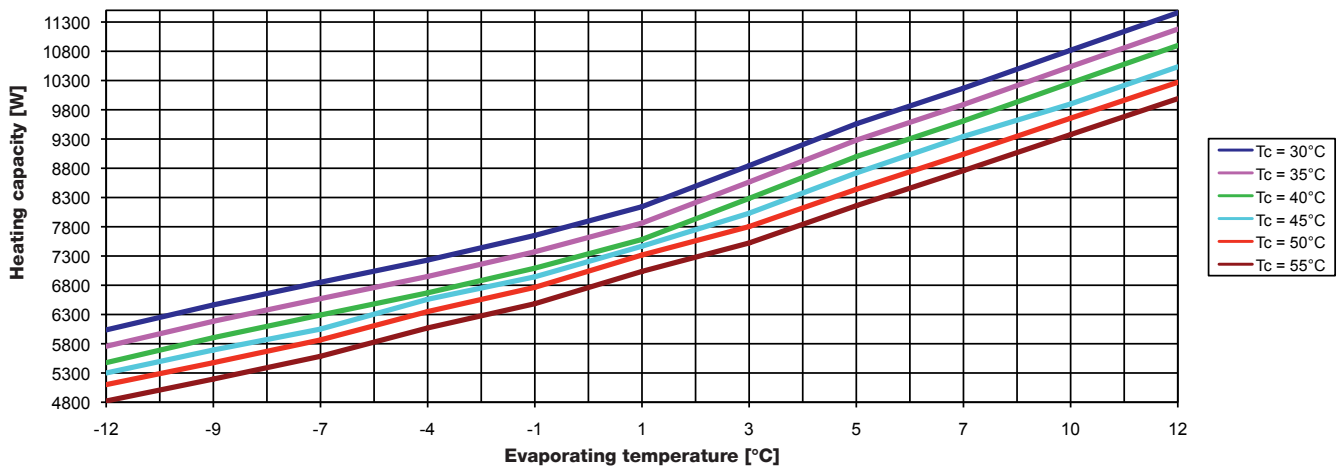
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.
Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 HP07S08W-WEB

Ground Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	7,98 kW	6,76 kW
Cooling capacity	6,33 kW	4,54 kW
Input	1,65 kW	2,23 kW
COP	4,84	3,04

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	7,77 kW	6,65 kW
Cooling capacity	6,08 kW	4,36 kW
Input	1,70 kW	2,29 kW
COP	4,58	2,90

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
Brine 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
Flow amount	1,6 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
B25/W18	10,00 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
Pressure line / Suction line	5/4"	mm
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

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W = Heating water temperature (W = Water) in °C

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

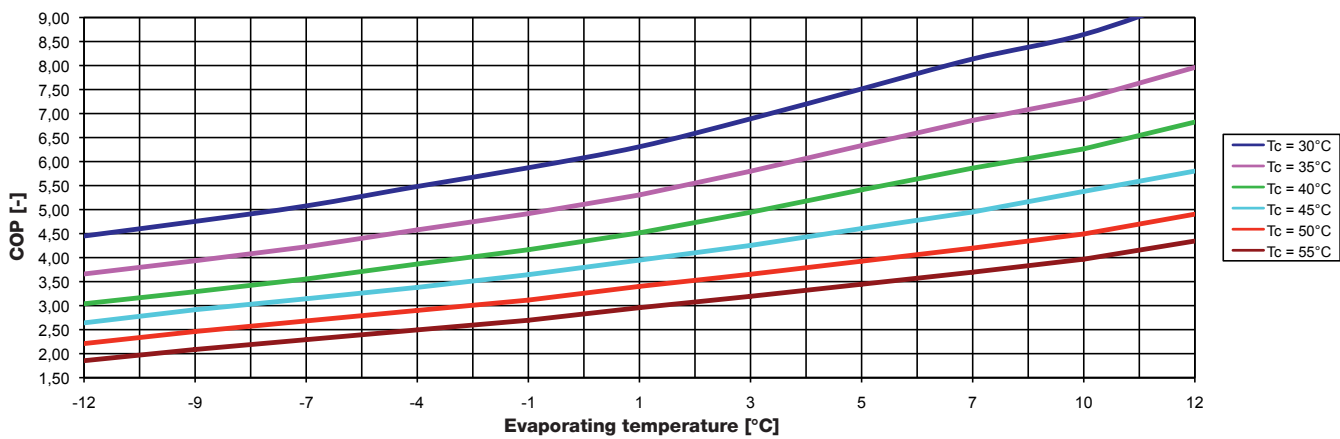
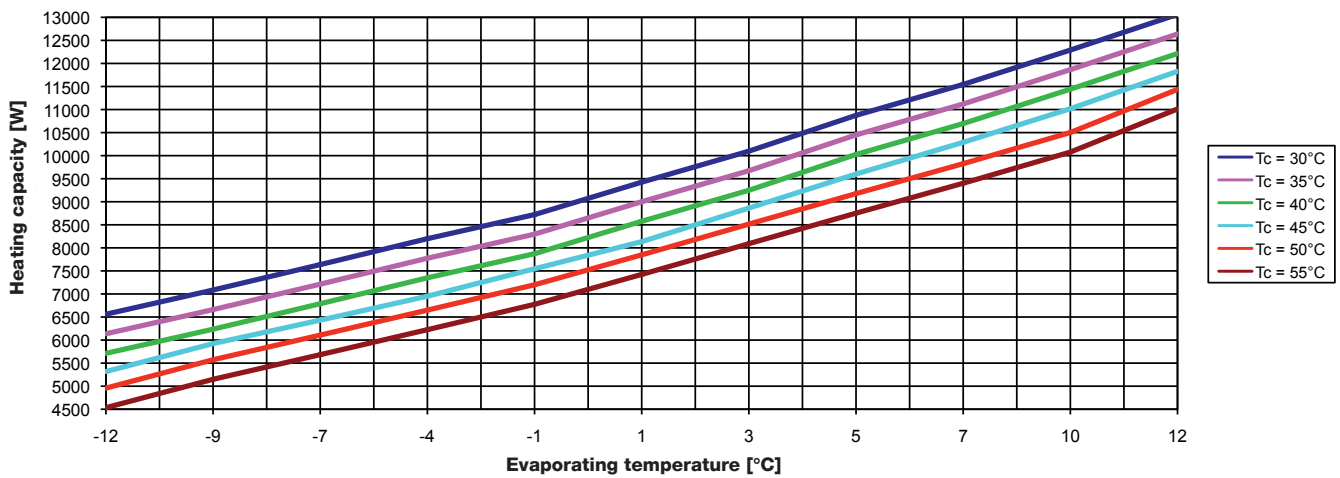
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Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	10,47 kW	9,23 kW
Cooling capacity	8,33 kW	6,18 kW
Input	2,14 kW	3,05 kW
COP	4,89	3,03

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	10,20 kW	9,07 kW
Cooling capacity	8,00 kW	5,93 kW
Input	2,20 kW	3,14 kW
COP	4,63	2,89

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
Brine 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
Flow amount	2,0 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
B25/W18	12,96 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
Pressure line / Suction line	5/4"	mm
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

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W = Heating water temperature (W = Water) in °C

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

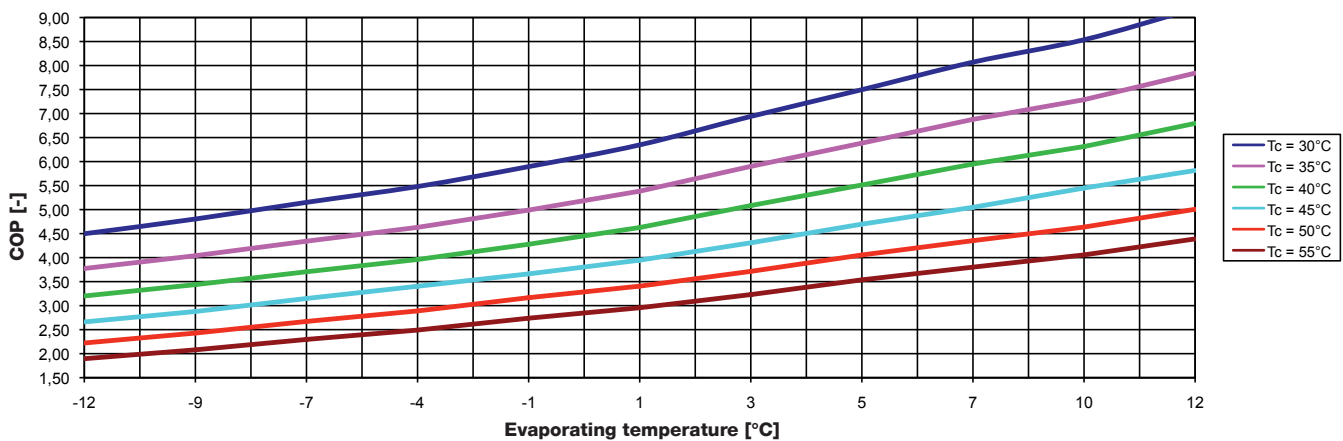
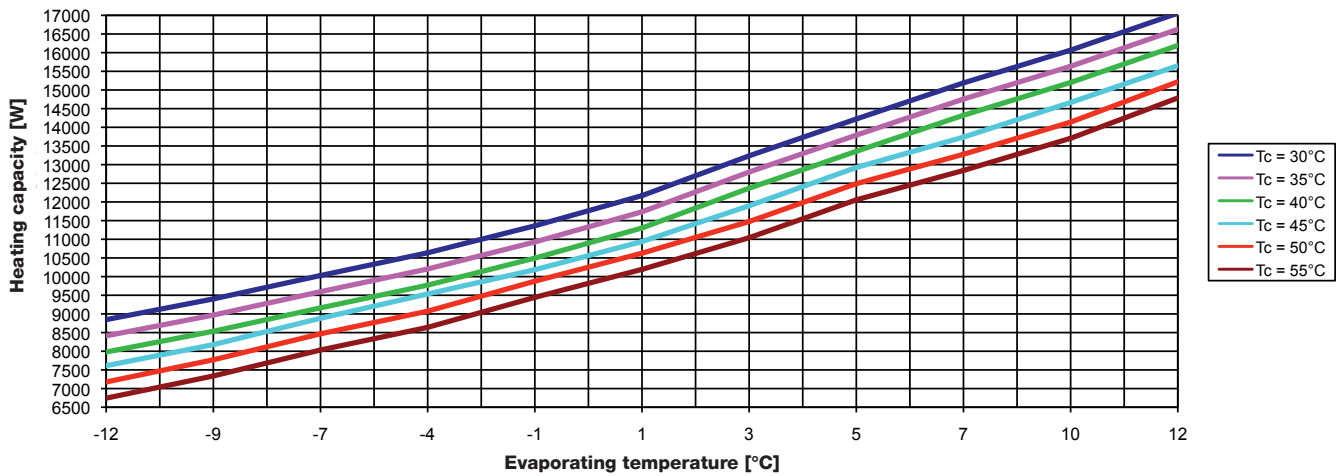
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Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	12,70 kW	11,24 kW
Cooling capacity	10,14 kW	7,57 kW
Input	2,56 kW	3,67 kW
COP	4,96	3,06

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	12,37 kW	11,05 kW
Cooling capacity	9,73 kW	7,27 kW
Input	2,64 kW	3,78 kW
COP	4,69	2,92

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
Brine 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
Flow amount	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⁾	
B25/W18	15,60 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
Pressure line / Suction line	5/4"	mm
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

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

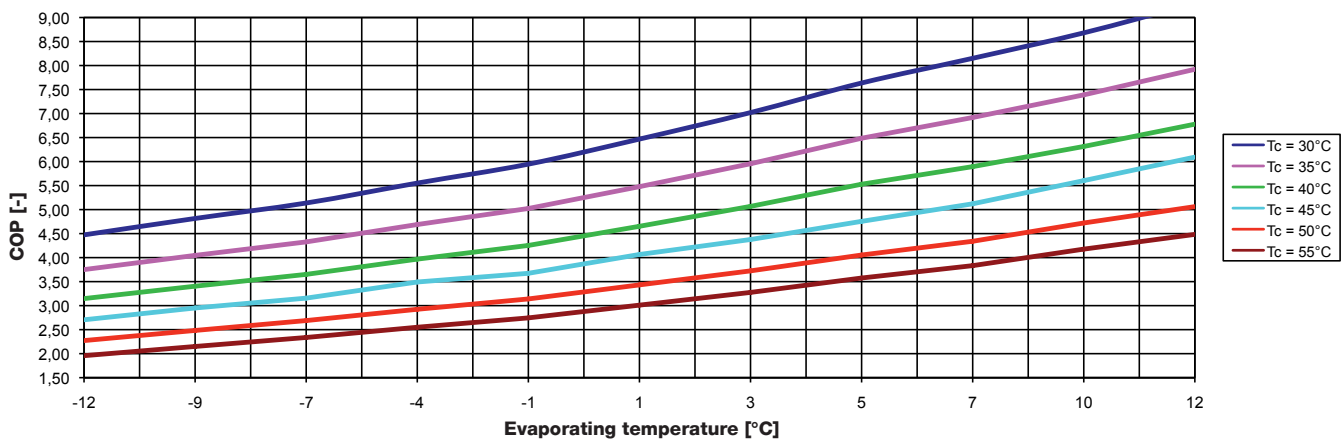
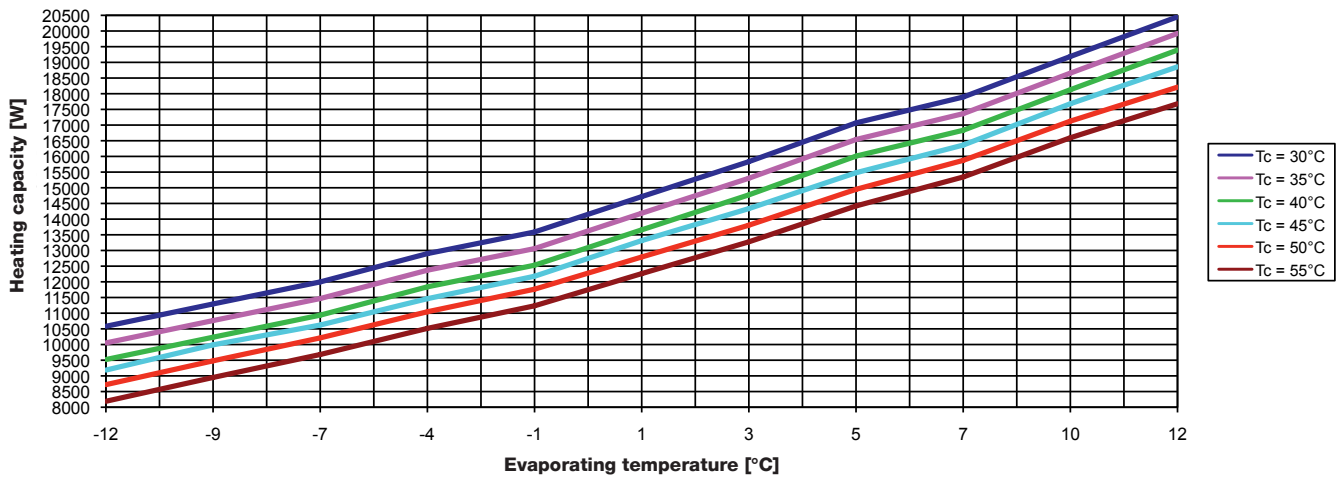
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Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	15,62 kW	13,47 kW
Cooling capacity	12,47 kW	9,01 kW
Input	3,16 kW	4,46 kW
COP	4,95	3,02

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	15,22 kW	13,24 kW
Cooling capacity	11,97 kW	8,65 kW
Input	3,25 kW	4,59 kW
COP	4,68	2,88

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
Brine 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
Flow amount	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⁾	
B25/W18	18,50 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
Pressure line / Suction line	5/4"	mm
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

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

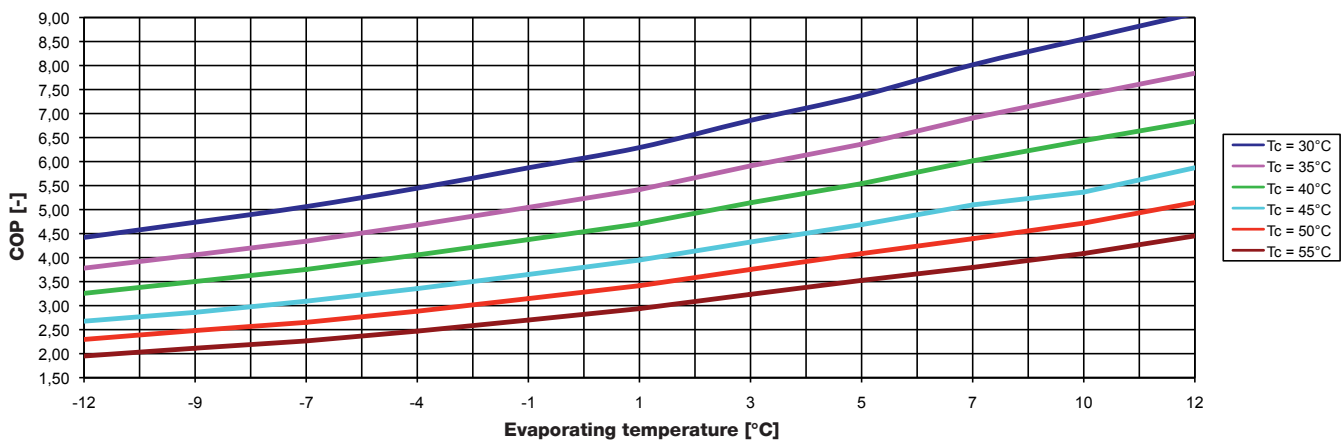
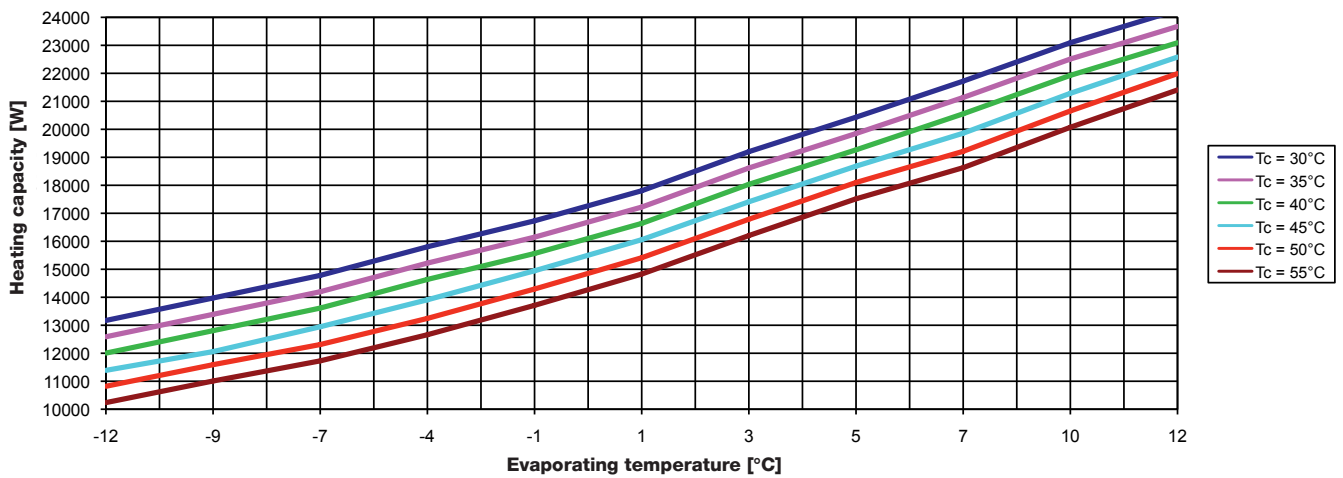
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Energy source flow rate must be throttled when cooling to achieve 25 °C.

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 HP16S18W-WEB

Ground Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	21,06 kW	18,12 kW
Cooling capacity	16,72 kW	11,92 kW
Input	4,34 kW	6,20 kW
COP	4,85	2,92

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	20,52 kW	17,83 kW
Cooling capacity	16,05 kW	11,44 kW
Input	4,47 kW	6,39 kW
COP	4,59	2,79

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
Brine 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
Flow amount	3,9 m ³ /h
Pressure loss	2,1 mWs
Temperature difference	5 K
Content	3,0 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
B25/W18	26,40 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
Pressure line / Suction line	2"	mm
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

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

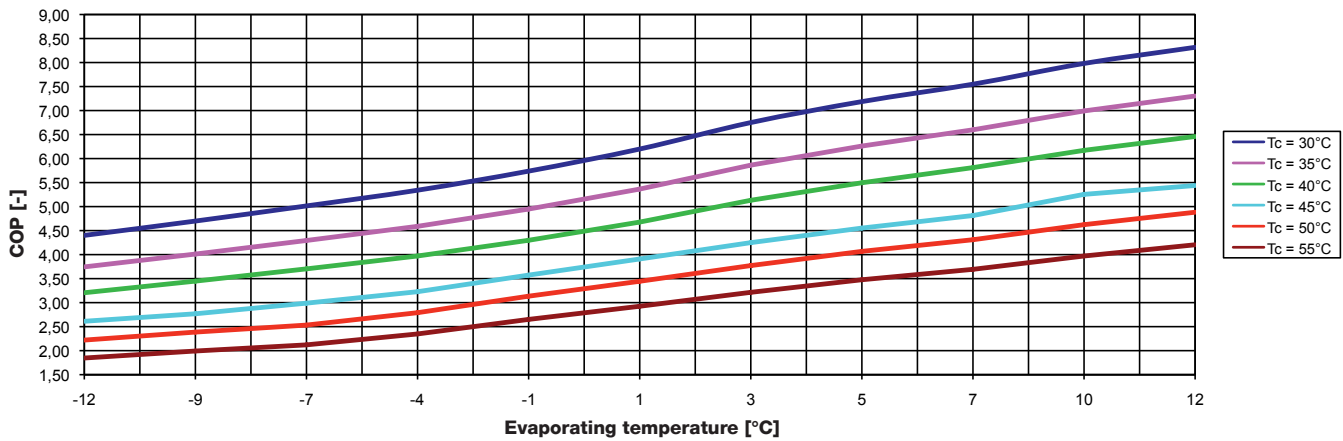
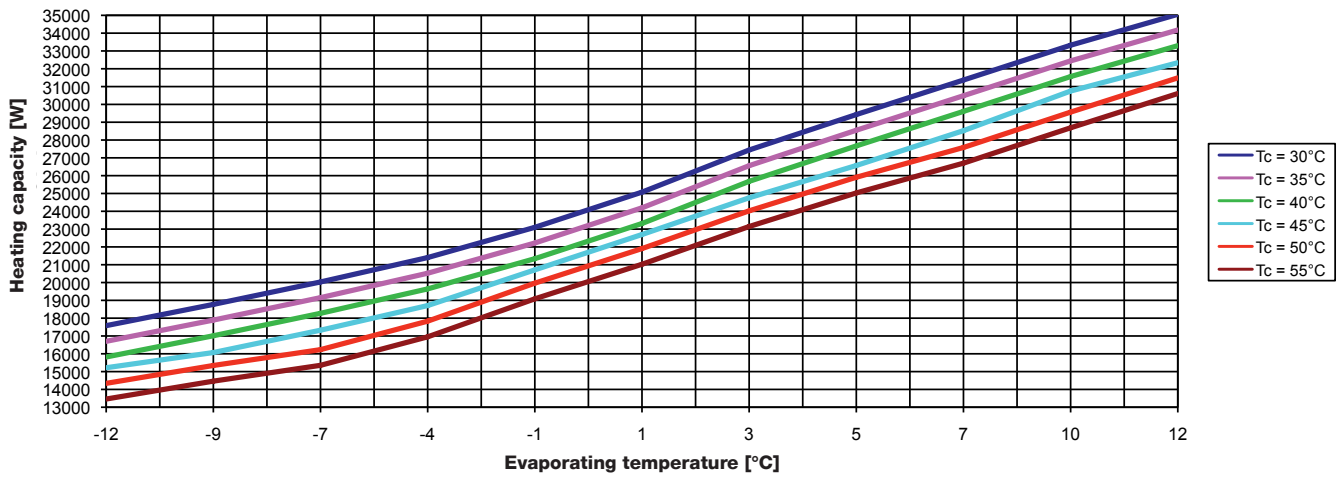
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Energy source flow rate must be throttled when cooling to achieve 25 °C.

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

TECHNICAL DATA SHEET HP20S25W-WEB

Ground Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	28,31 kW	24,76 kW
Cooling capacity	22,45 kW	16,13 kW
Input	5,86 kW	8,63 kW
COP	4,83	2,87

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	27,59 kW	24,38 kW
Cooling capacity	21,55 kW	15,49 kW
Input	6,04 kW	8,89 kW
COP	4,57	2,74

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
Brine 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
Flow amount	5,1 m ³ /h
Pressure loss	1,8 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
Pressure line / Suction line	2"	mm
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

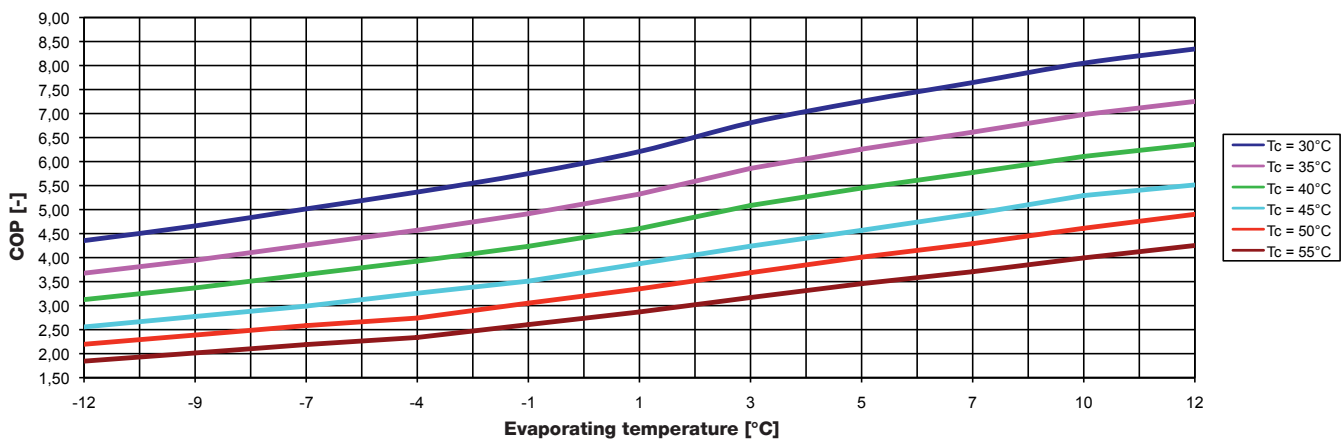
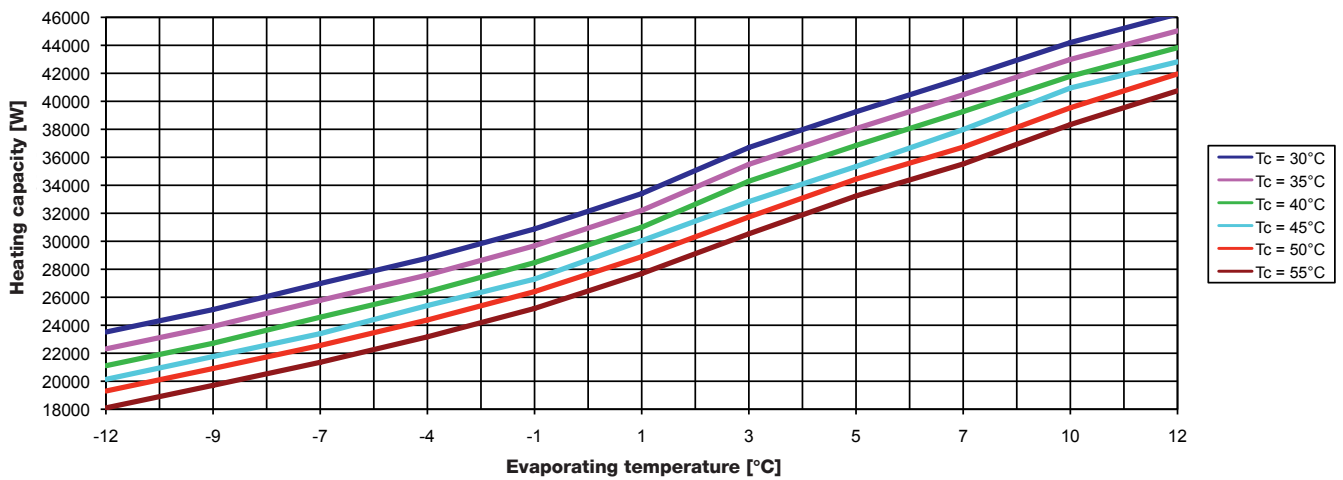
¹⁾ Performance specifications

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W = Heating water temperature (W = Water) in °C

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

TECHNICAL DATA SHEET HP28S40W-WEB

Ground Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	31,54 kW	27,02 kW
Cooling capacity	24,98 kW	17,75 kW
Input	6,56 kW	9,27 kW
COP	4,81	2,91

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	30,74 kW	26,59 kW
Cooling capacity	23,98 kW	17,04 kW
Input	6,76 kW	9,55 kW
COP	4,55	2,78

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
Brine 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
Flow amount	6,4 m ³ /h
Pressure loss	1,2 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
Pressure line / Suction line	2"	mm
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

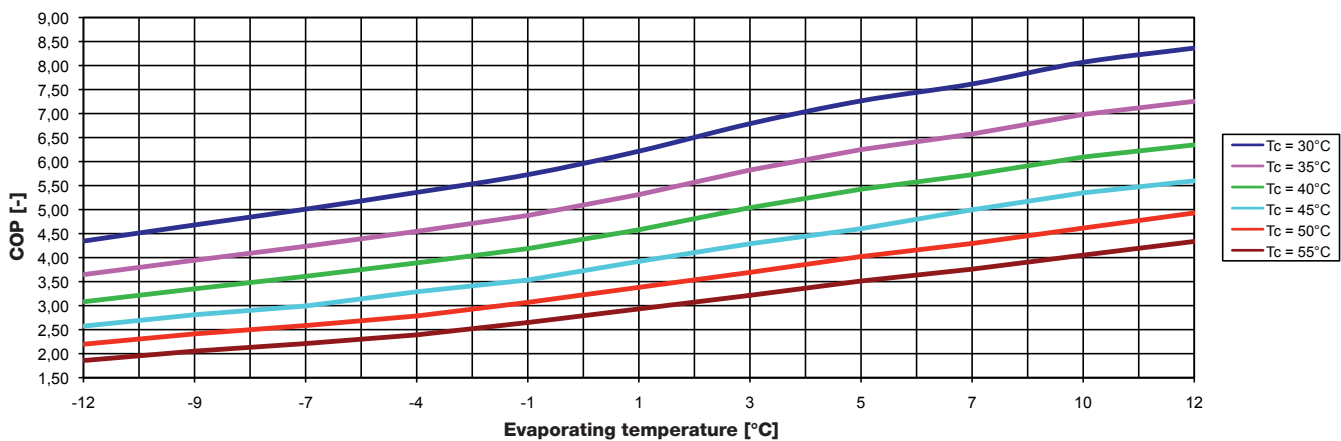
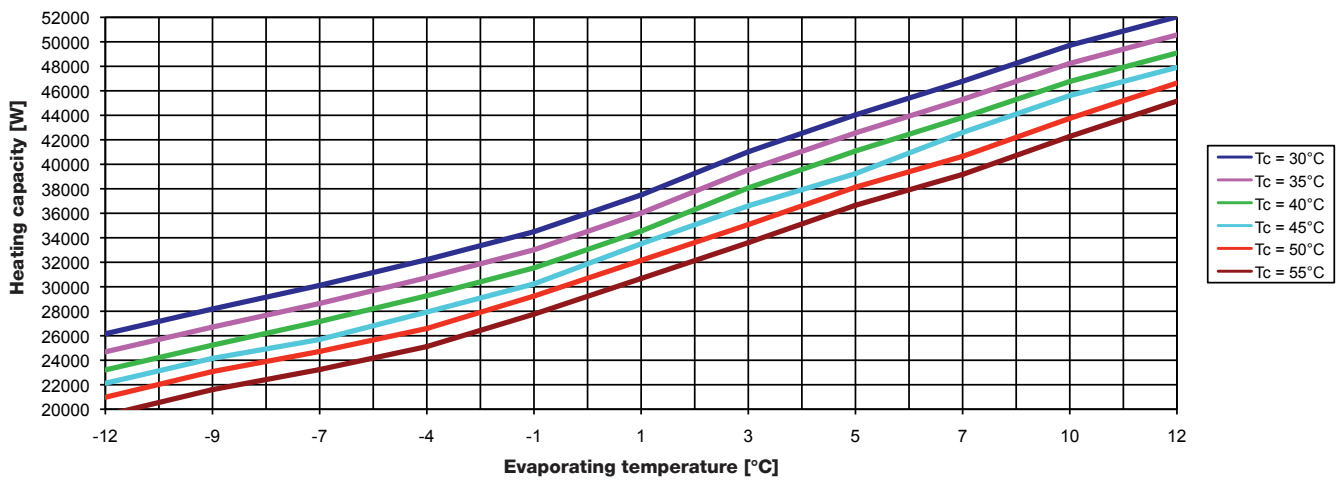
¹⁾ Performance specifications

B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

TECHNICAL DATA SHEET HP32S45W-WEB

Ground Source Heat Pump with Brine Probe | 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 Source Heat Pump with Brine Probe | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	42,23 kW	35,60 kW
Cooling capacity	33,53 kW	23,33 kW
Input	8,70 kW	12,26 kW
COP	4,85	2,90

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	41,15 kW	35,03 kW
Cooling capacity	32,19 kW	22,40 kW
Input	8,96 kW	12,63 kW
COP	4,59	2,77

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
Brine 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
Flow amount	7,2 m ³ /h
Pressure loss	1,4 mWs
Temperature difference	5 K
Content	5,8 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
Pressure line / Suction line	2"	mm
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

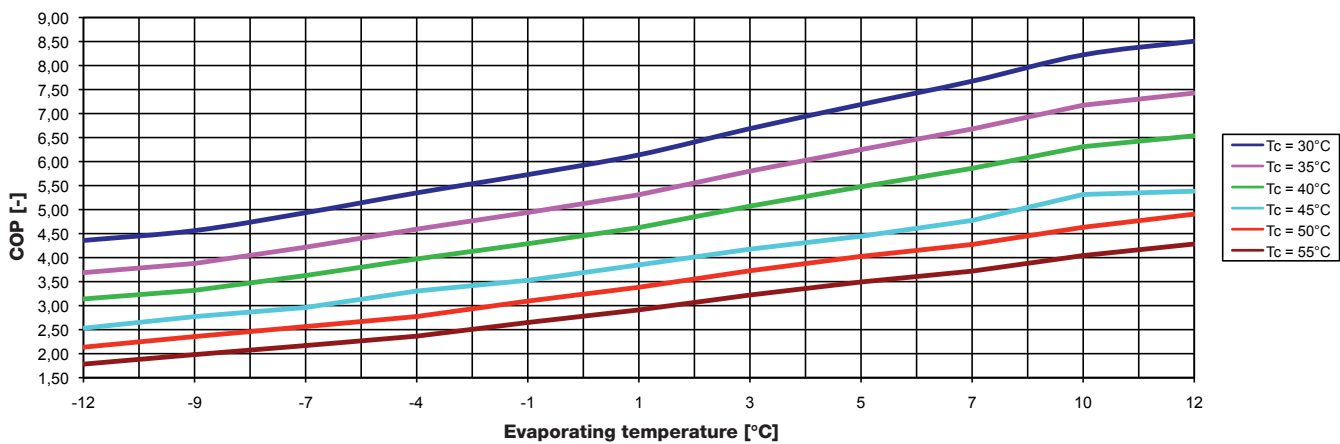
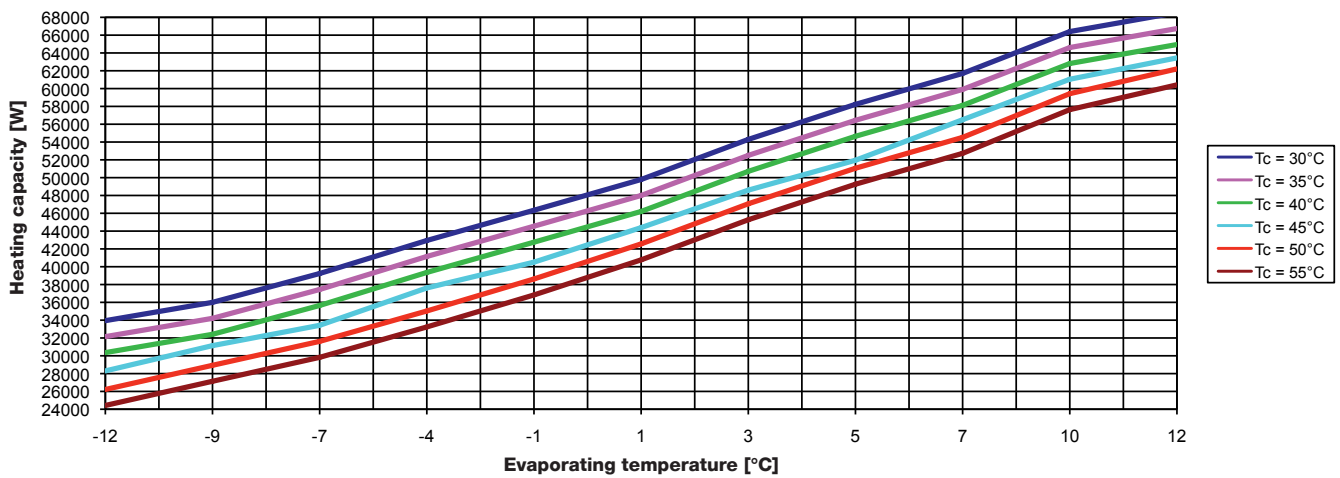
B = Energy source temperature (B = Brine) in °C

W = Heating water temperature (W = Water) in °C

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

TECHNICAL DATA SHEET HP42S55W-WEB

Ground Source Heat Pump with Brine Probe | WEB CONTROL Series



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