



HELIO THERM HEAT PUMPS

TECHNICAL DATA SHEETS

**Brine Heat Pumps, Modulating &
Ground Water Heat Pumps, Modulating
WEB CONTROL Series**



TECHNICAL DATA SHEET HP08S10W-M-WEB

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

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	8,59 kW	7,20 kW
Cooling capacity	6,86 kW	4,92 kW
Input	1,73 kW	2,28 kW
COP	4,97	3,16

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	8,37 kW	7,07 kW
Cooling capacity	6,58 kW	4,73 kW
Input	1,78 kW	2,35 kW
COP	4,70	3,01

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	4,5 kW
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow rate	3,9 m ³ /h
Pressure loss	2,6 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	1,0 - 2,0 m ³ /h
Pressure loss	1,8 mWs
Temperature difference	5 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ²⁾	
B25/W18	10,80 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	13 A
Starting current	14 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Brine outlet and inlet	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.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

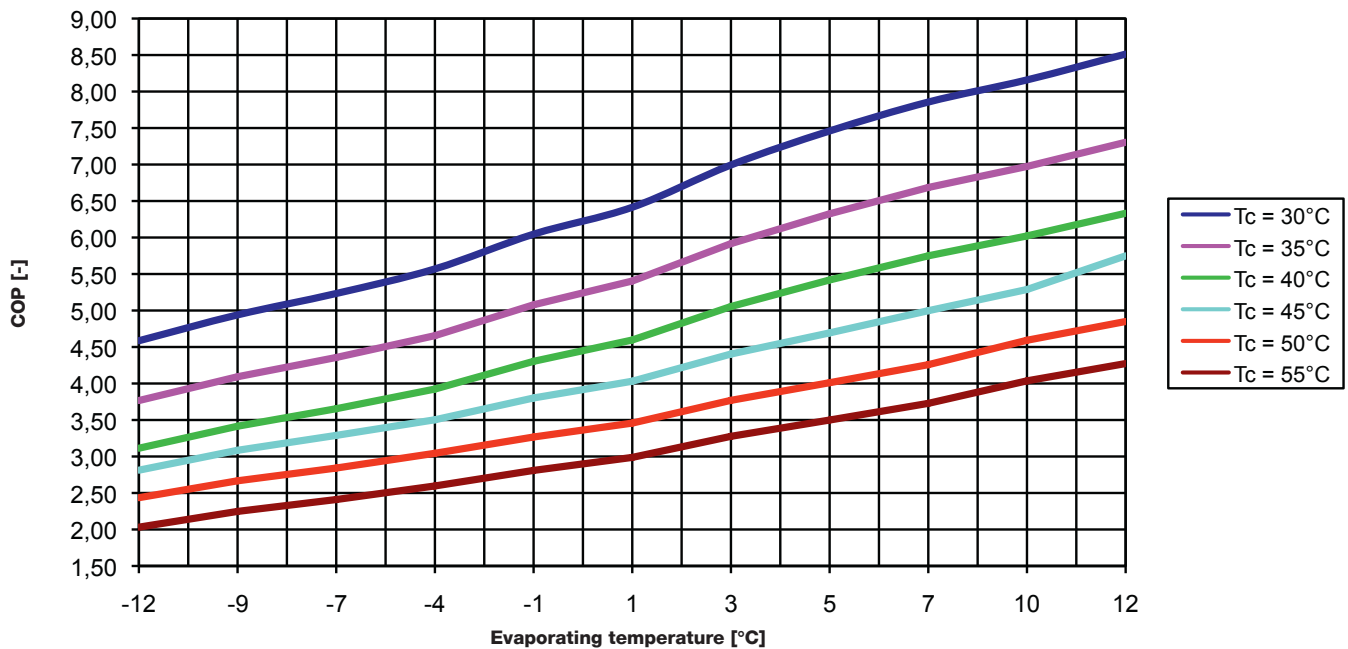
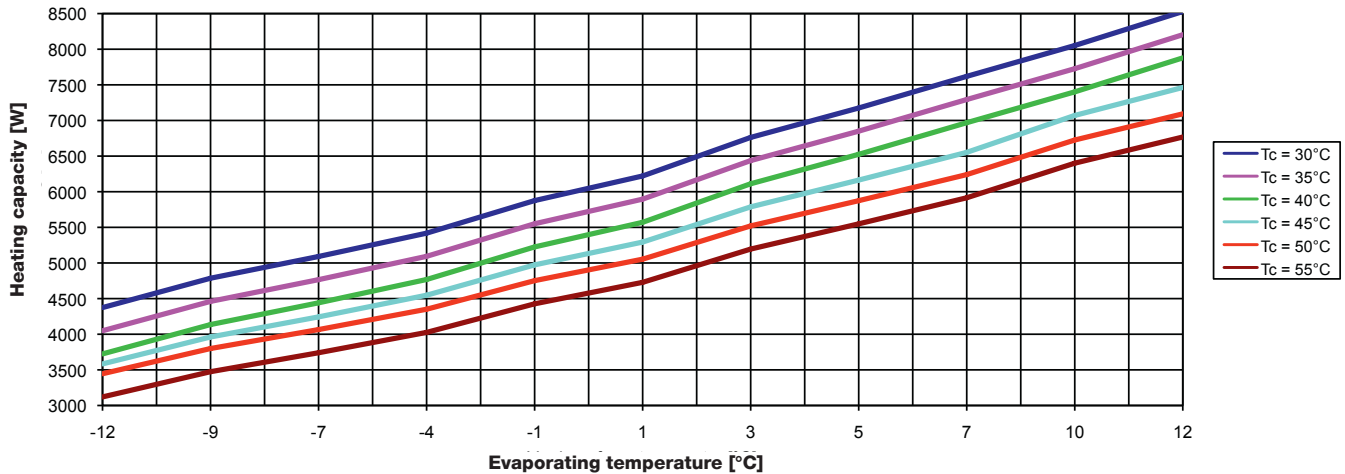
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP08S10W-M-WEB

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

Performance Curve at 10 % Compressor Capacity

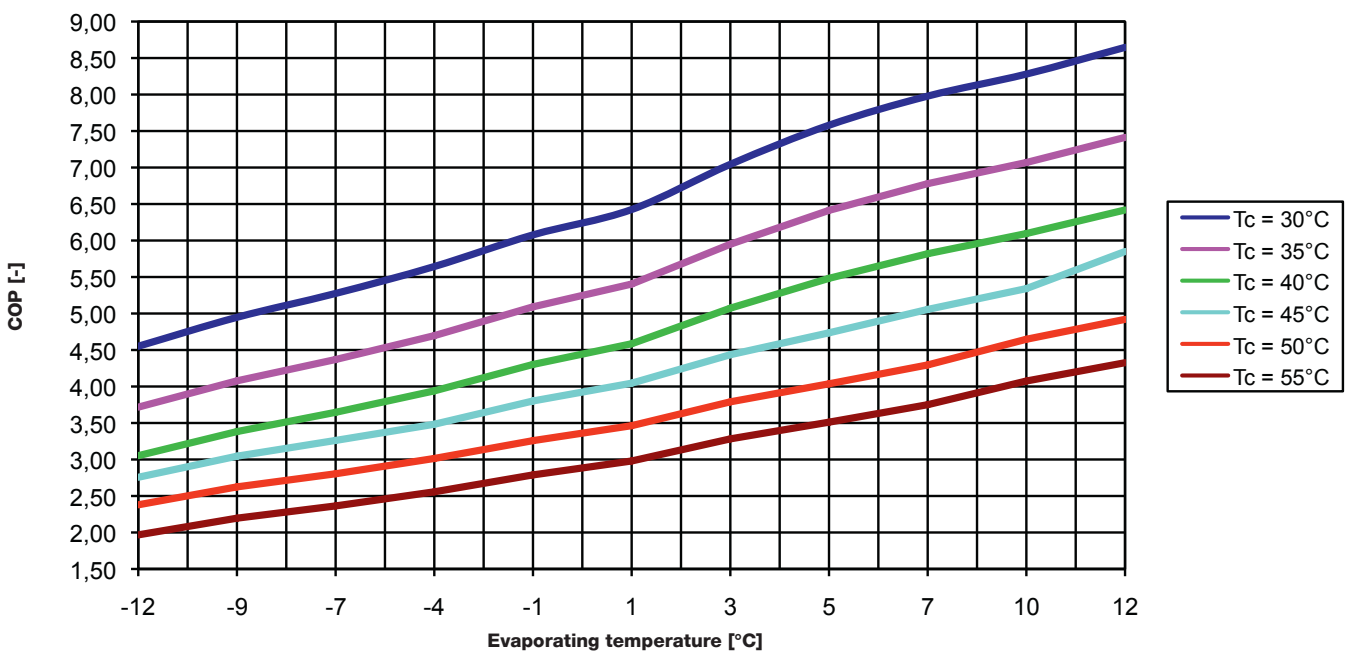
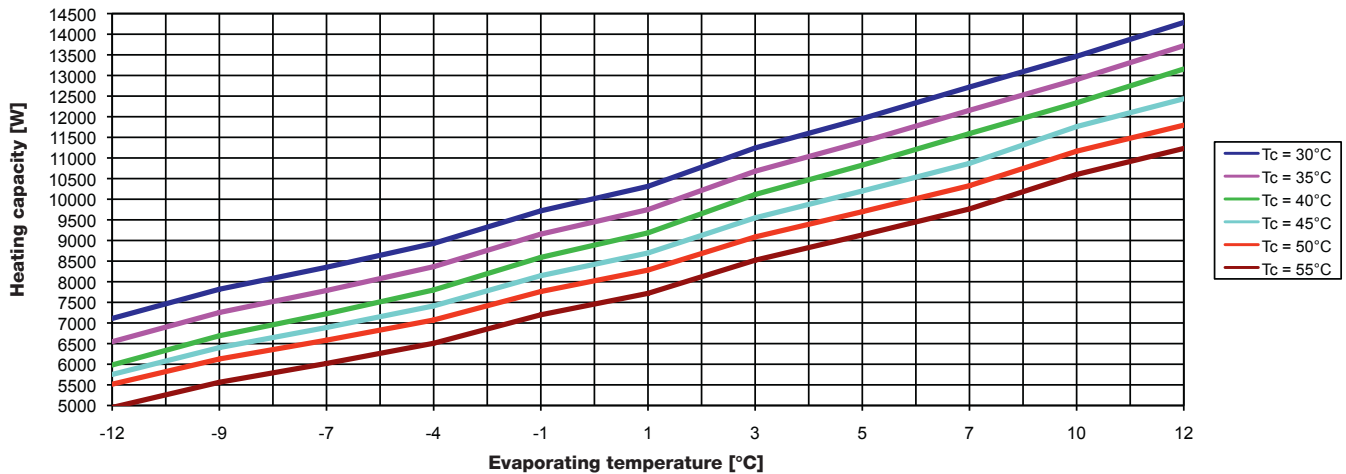


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP08S10W-M-WEB

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

Performance Curve at 30 % Compressor Capacity

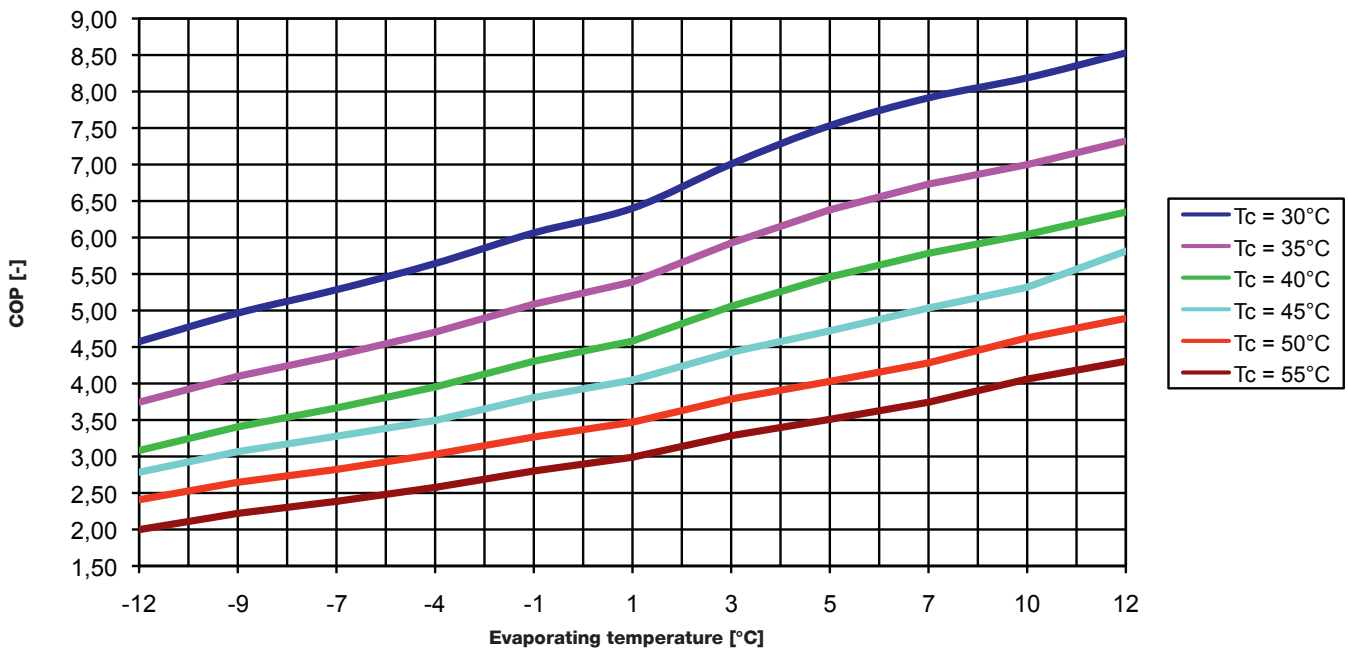
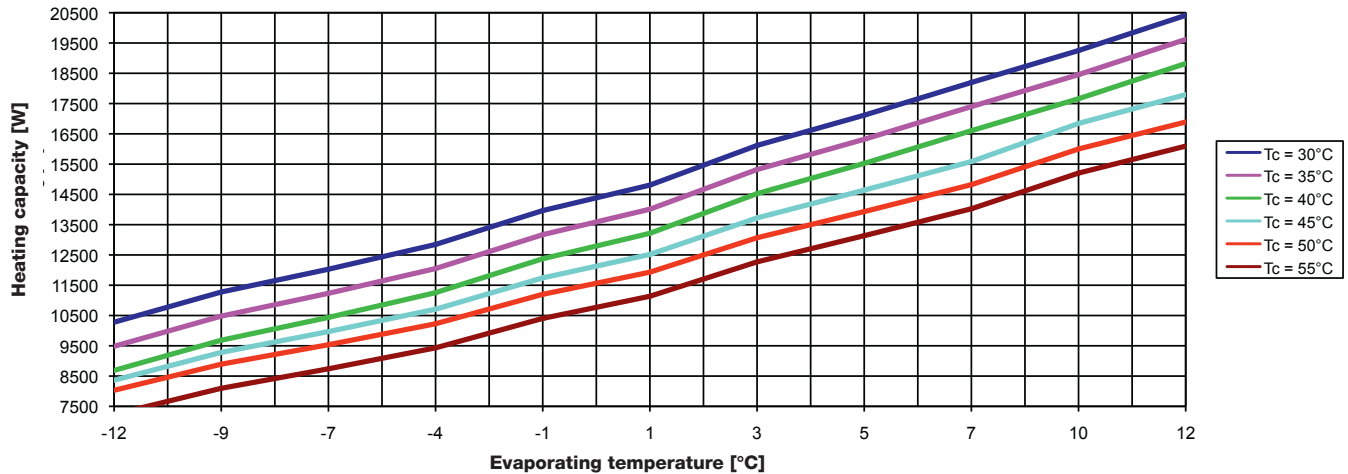


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP08S10W-M-WEB

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

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB

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

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	10,91 kW	9,15 kW
Cooling capacity	8,72 kW	6,29 kW
Input	2,19 kW	2,87 kW
COP	4,99	3,19

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	10,63 kW	8,99 kW
Cooling capacity	8,38 kW	6,04 kW
Input	2,25 kW	2,95 kW
COP	4,72	3,04

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	6,5 kW
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
Water flow rate	1,0 - 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	13,90 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	15 A
Starting current	19 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Brine outlet and inlet	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.

Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

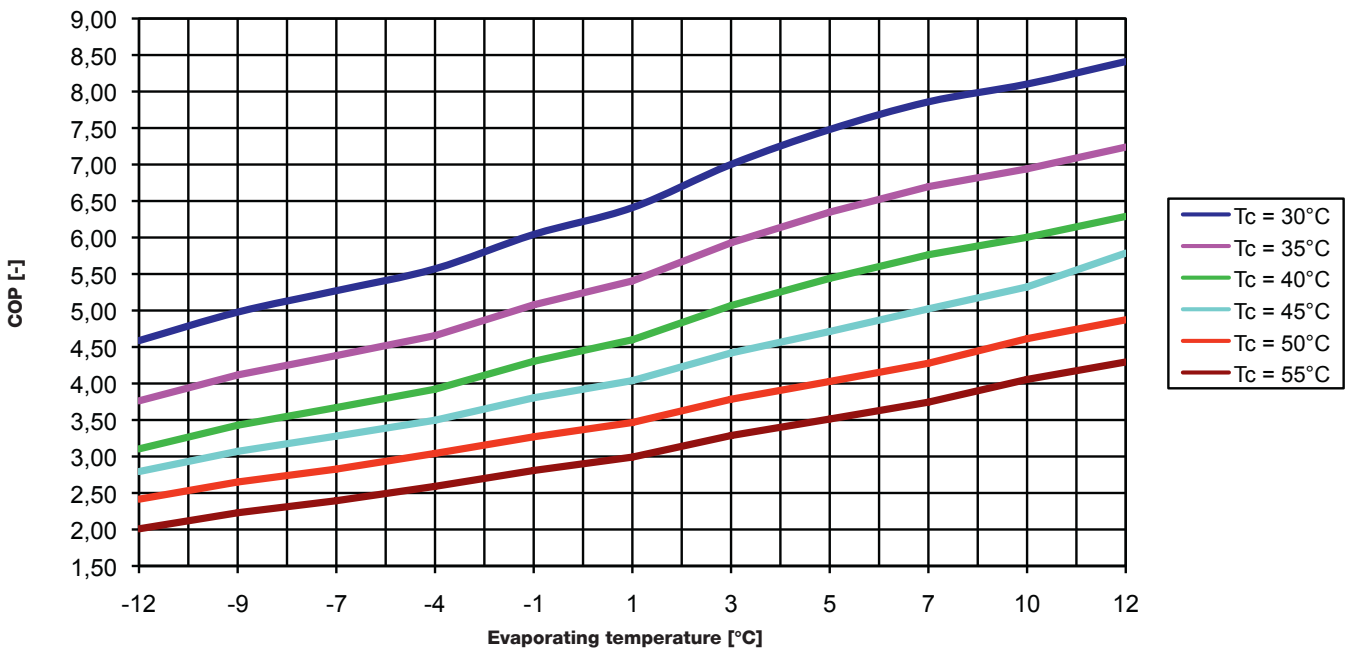
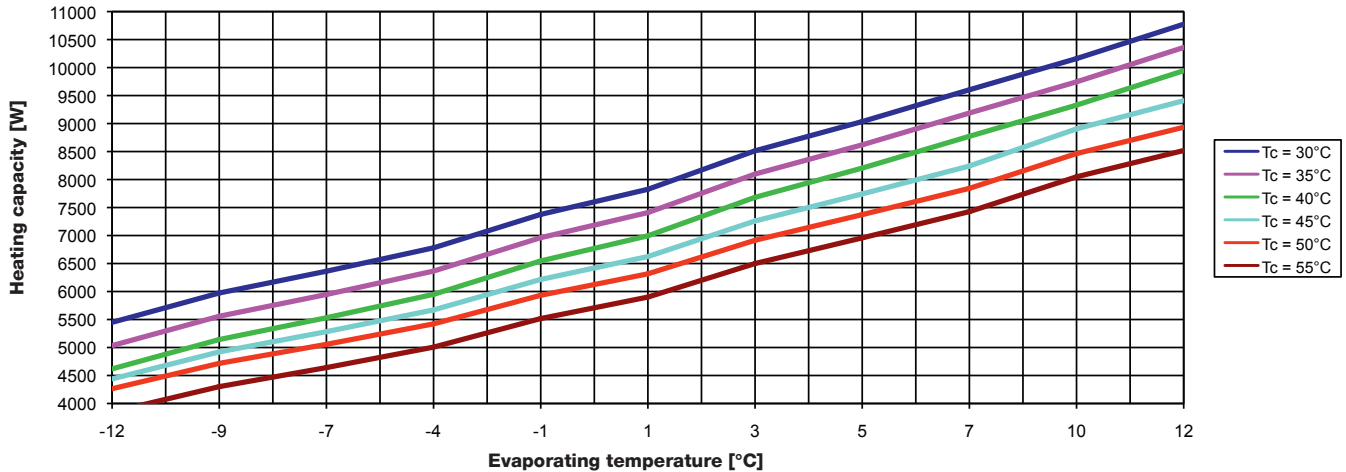
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP12S16W-M-WEB

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

Performance Curve at 10 % Compressor Capacity

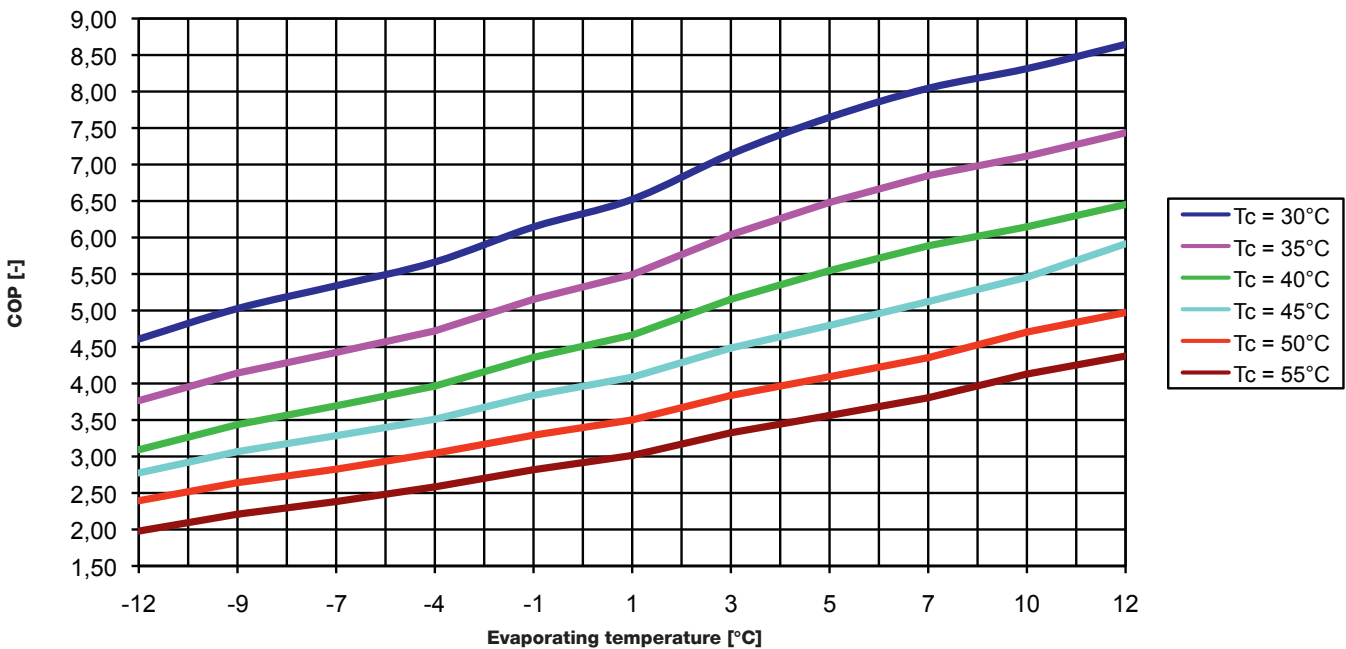
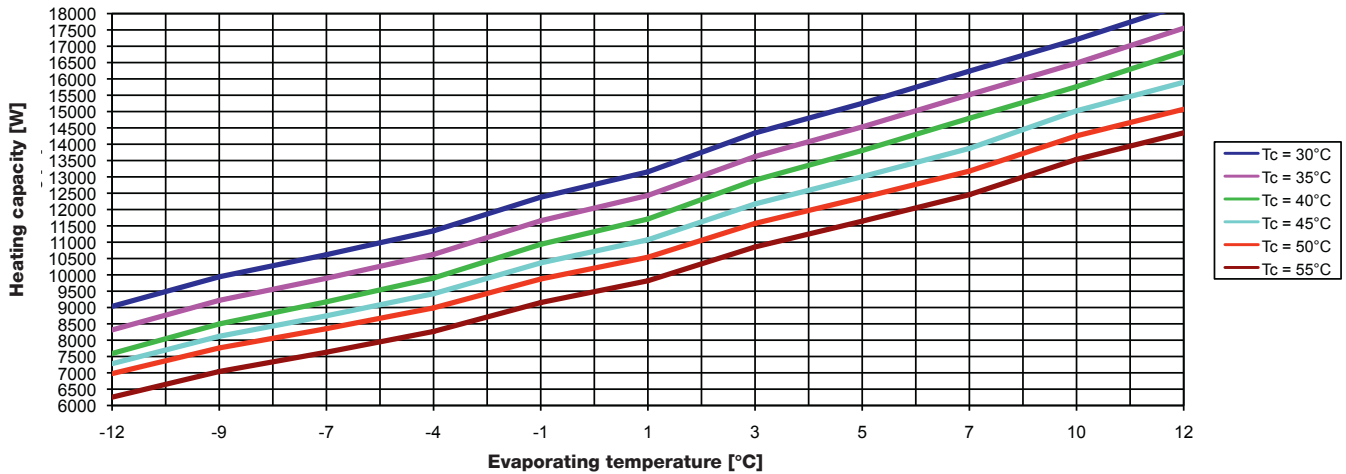


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB

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

Performance Curve at 30 % Compressor Capacity

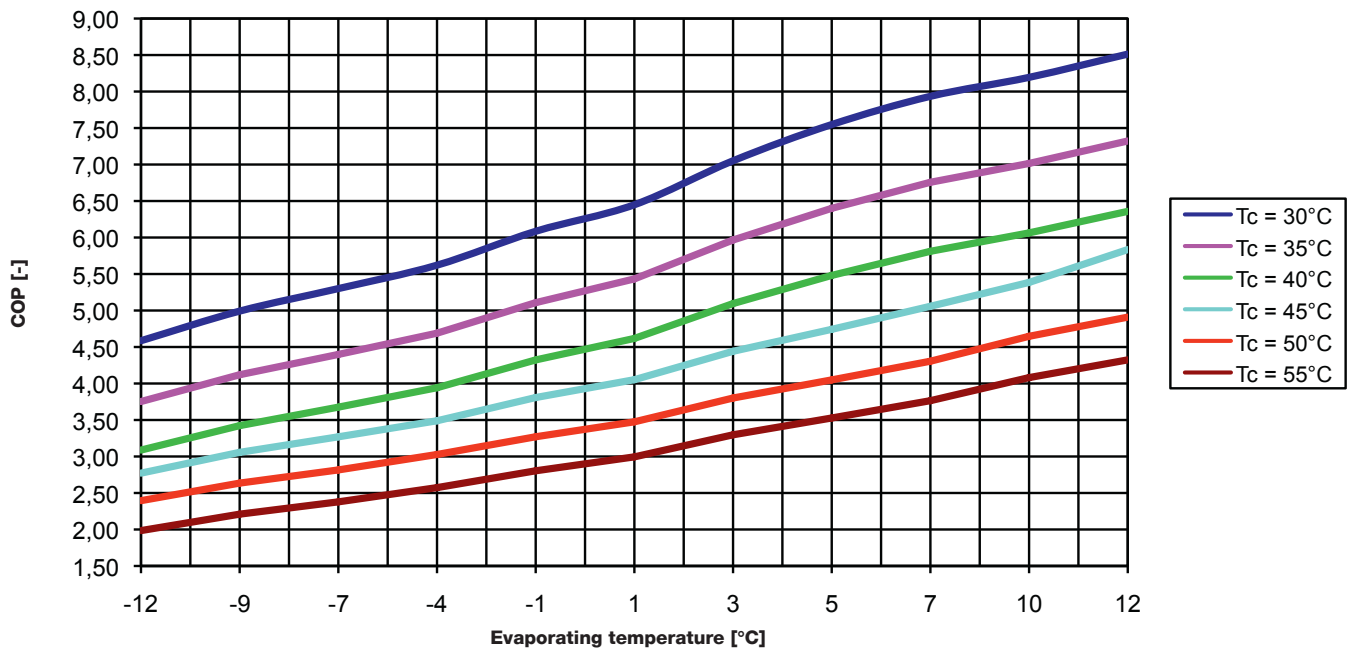
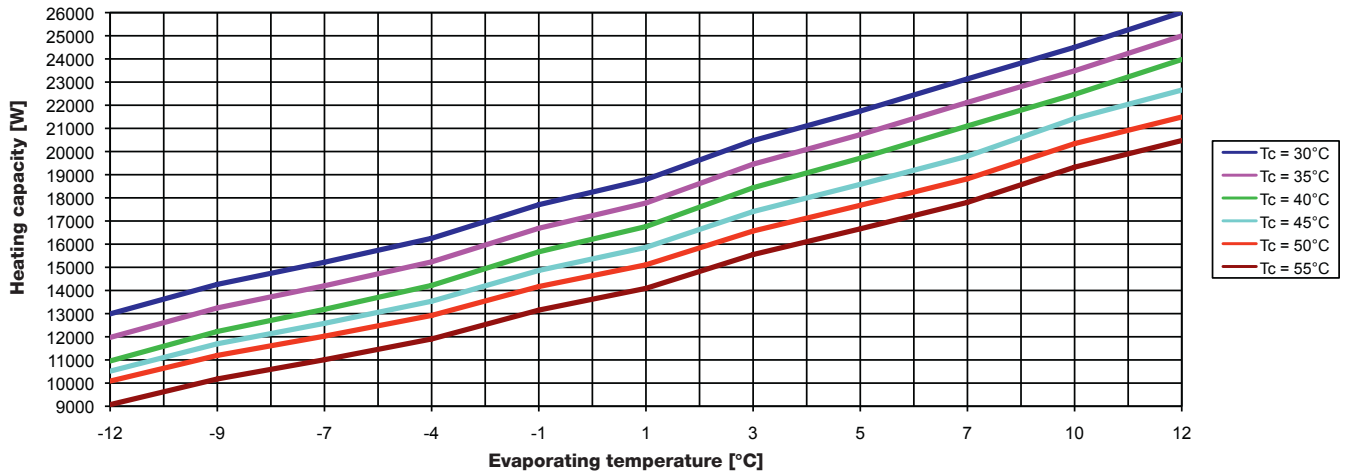


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP12S16W-M-WEB

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

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB

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

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	20,13 kW	16,76 kW
Cooling capacity	16,04 kW	11,36 kW
Input	4,09 kW	5,41 kW
COP	4,92	3,10

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	19,61 kW	16,47 kW
Cooling capacity	15,40 kW	10,90 kW
Input	4,21 kW	5,57 kW
COP	4,66	2,96

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	8,5 kW
Oil amount	2,3 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
Water flow rate	1,8 - 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	24,50 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 20 A
Max. compressor operating current	21 A
Starting current	21 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	AG
Brine outlet and inlet	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

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

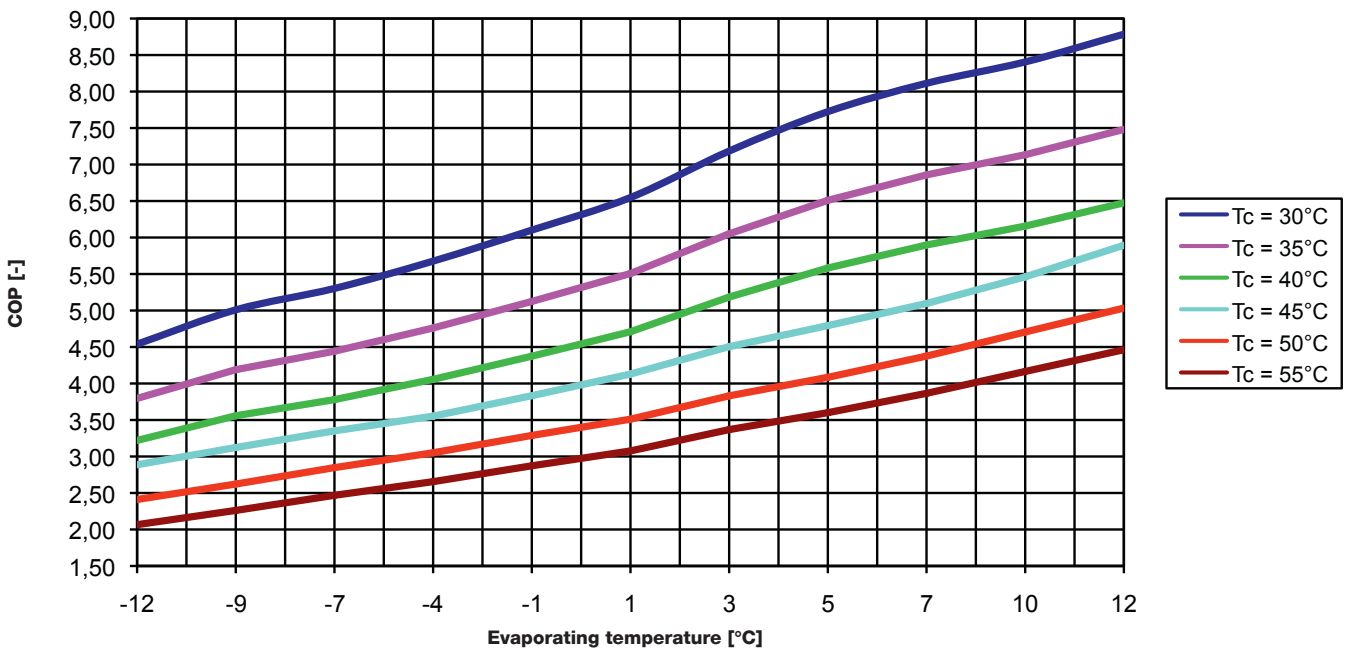
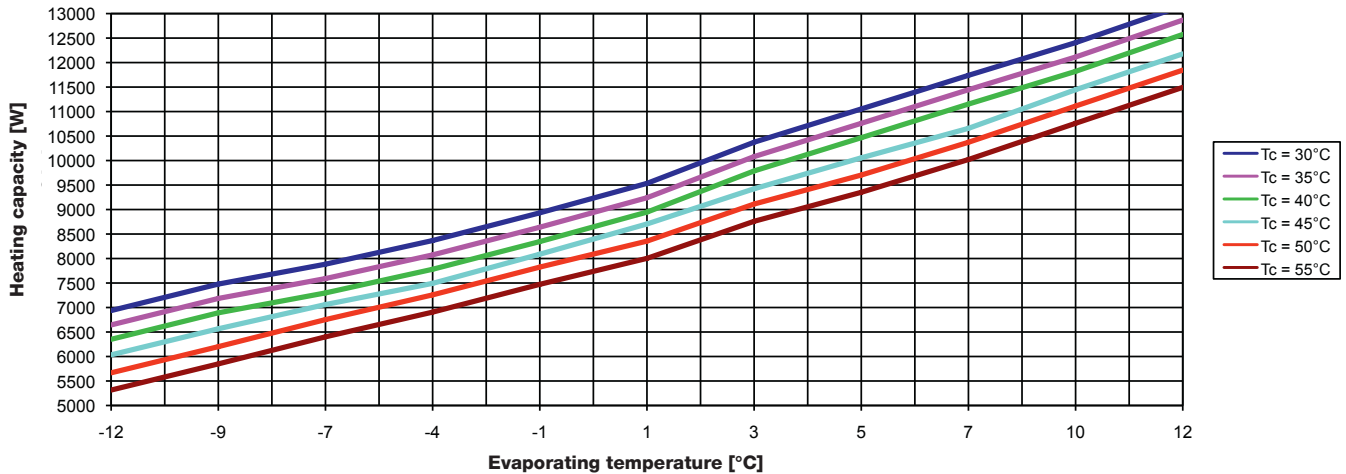
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

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

TECHNICAL DATA SHEET HP20S25W-M-WEB

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

Performance Curve at 10 % Compressor Capacity

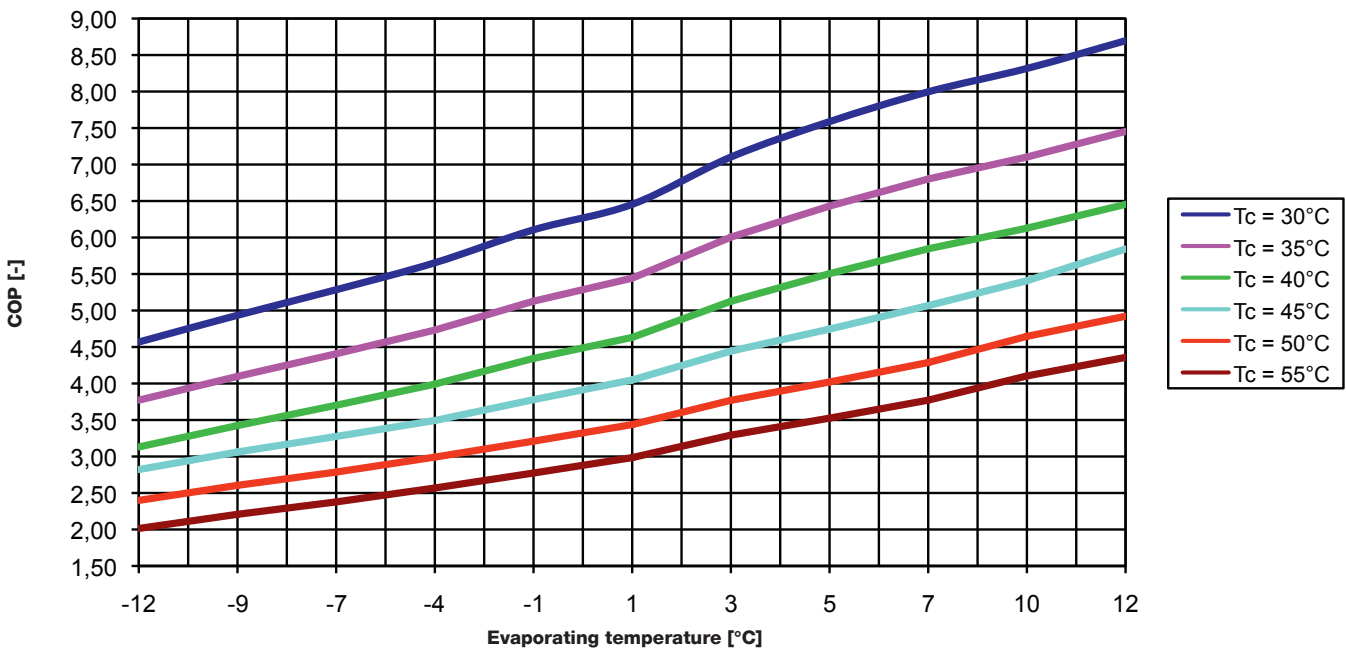
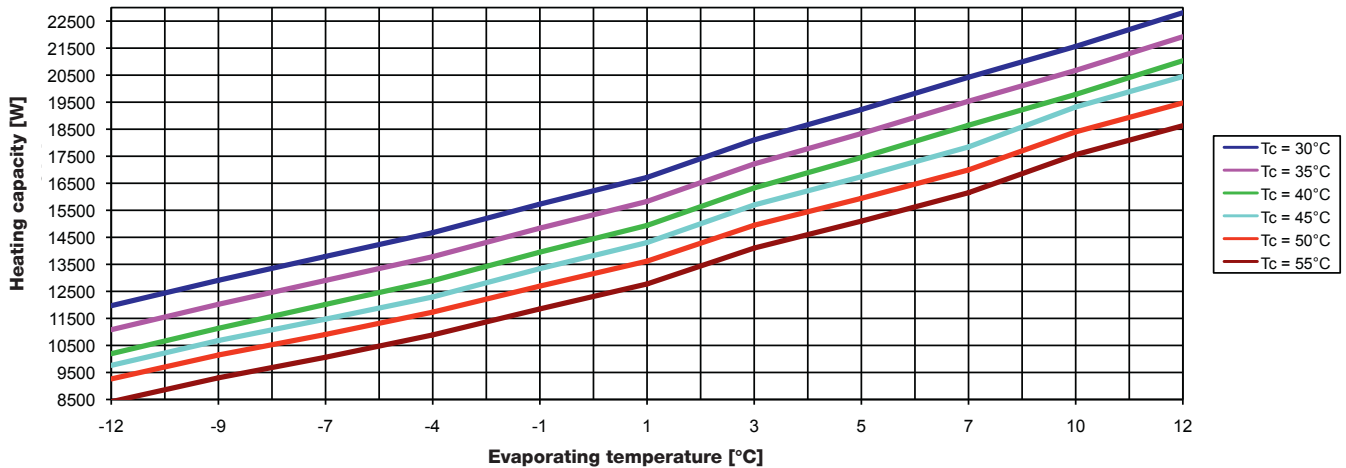


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB

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

Performance Curve at 30 % Compressor Capacity

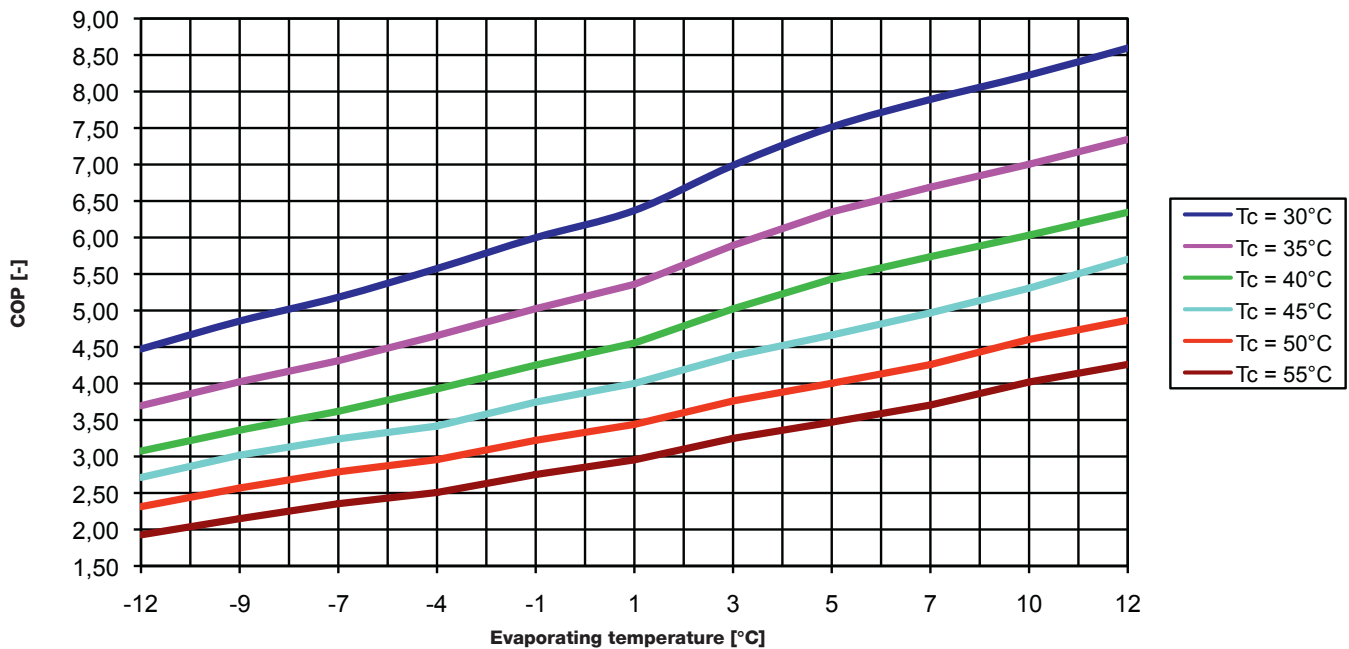
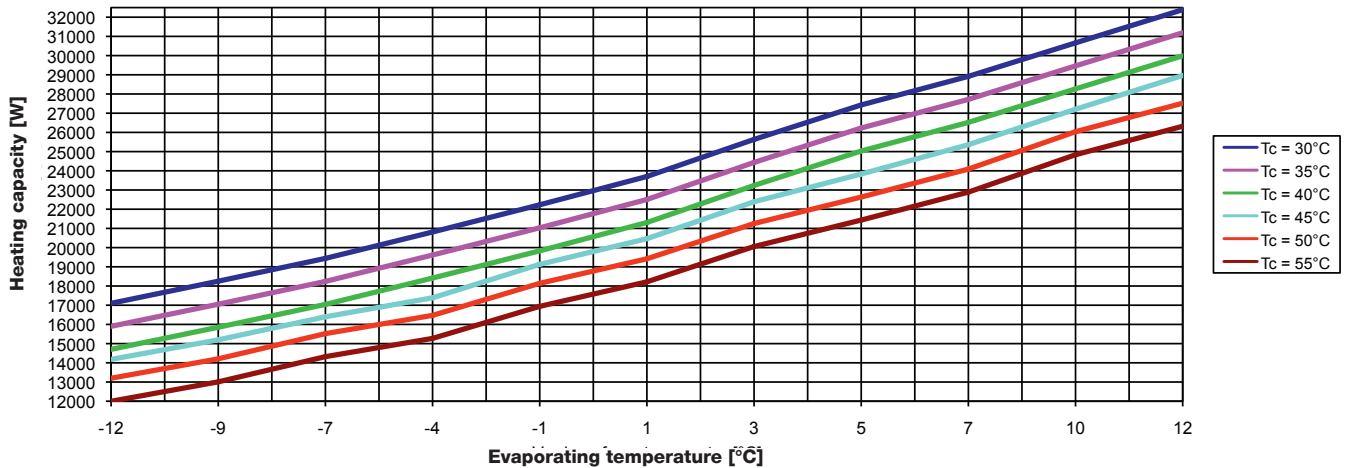


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP20S25W-M-WEB

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

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP28S40W-M-WEB

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

Performance Data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	31,53 kW	26,57 kW
Cooling capacity	25,03 kW	17,91 kW
Input	6,50 kW	8,66 kW
COP	4,85	3,07

Performance Data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	30,72 kW	26,11 kW
Cooling capacity	24,03 kW	17,19 kW
Input	6,69 kW	8,92 kW
COP	4,59	2,93

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	12,0 kW
Oil amount	2,8 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
Water flow rate	2,0 - 4,5 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	5,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 32 A
Max. compressor operating current	27 A
Starting current	29 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	6/4"	AG
Brine outlet and inlet	6/4"	mm
Height x Width x Depth	1.625x604x674	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

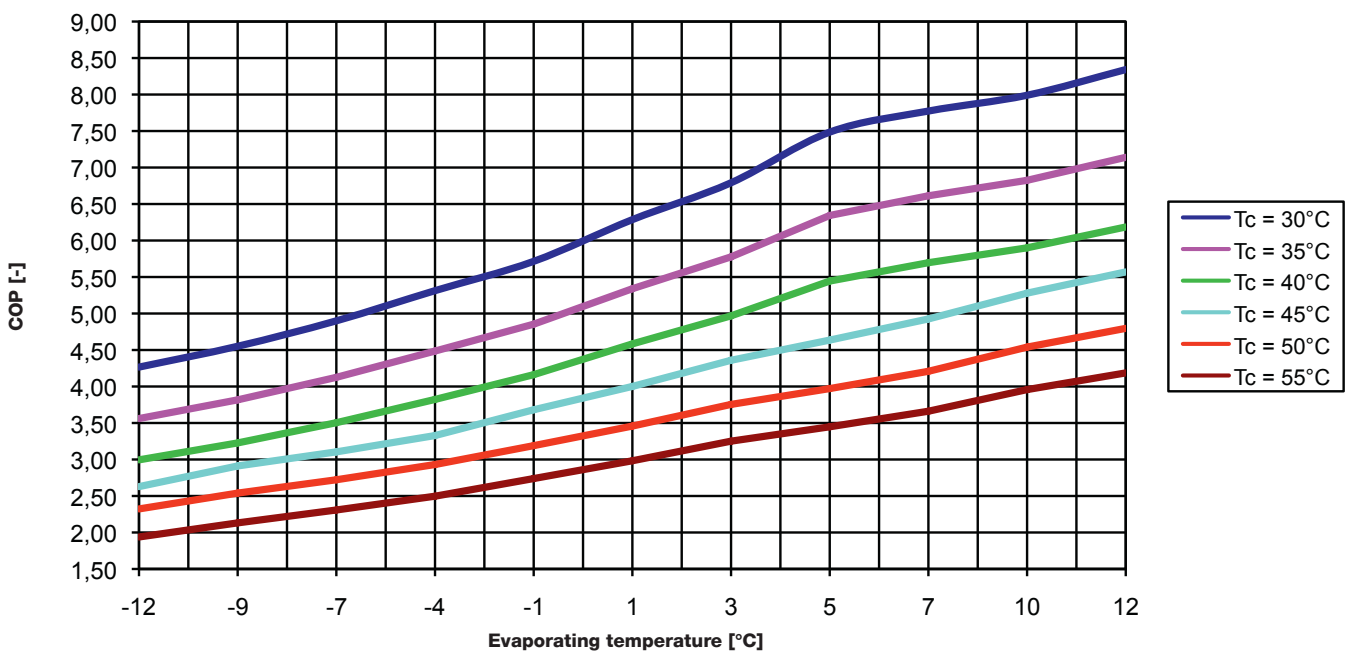
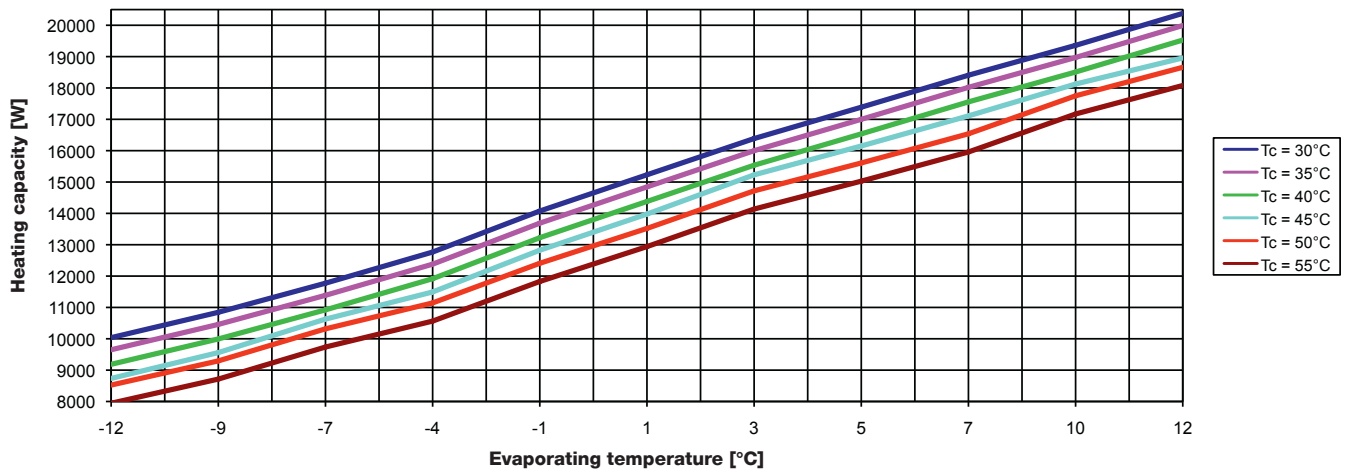
B = Energy source temperature (B = Brine) in °C
W = Heating water temperature (W = Water) in °C

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

TECHNICAL DATA SHEET HP28S40W-M-WEB

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

Performance Curve at 10 % Compressor Capacity

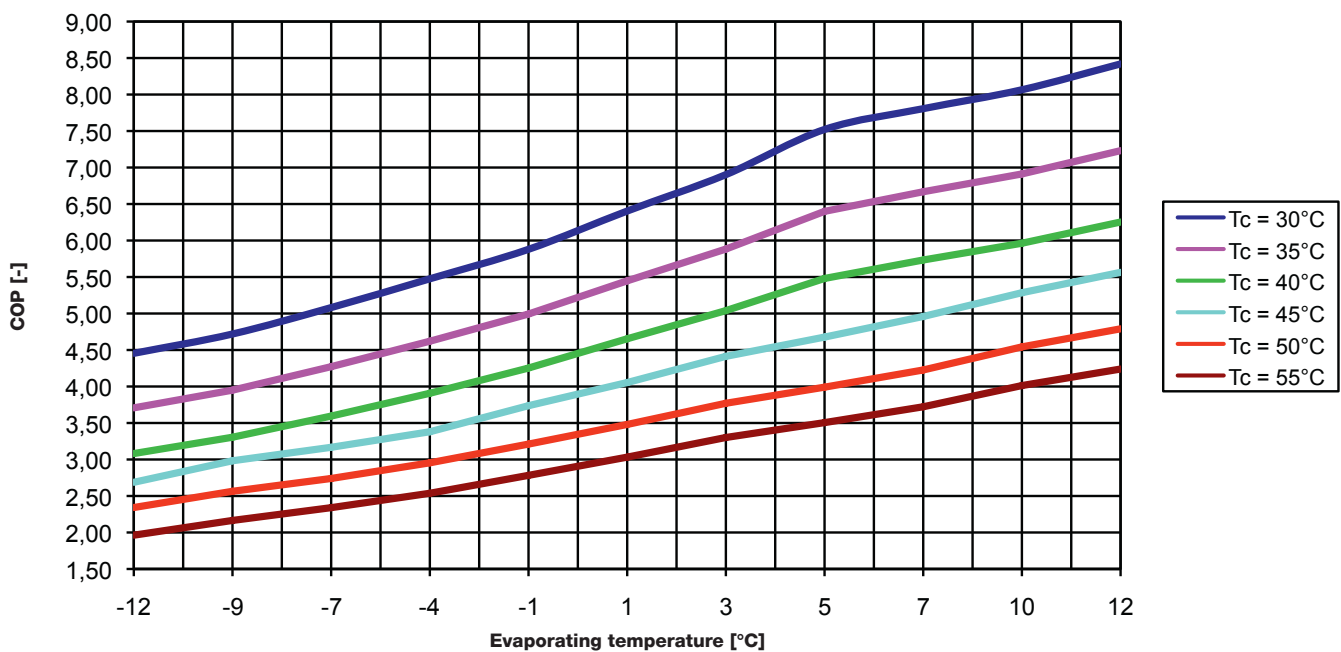
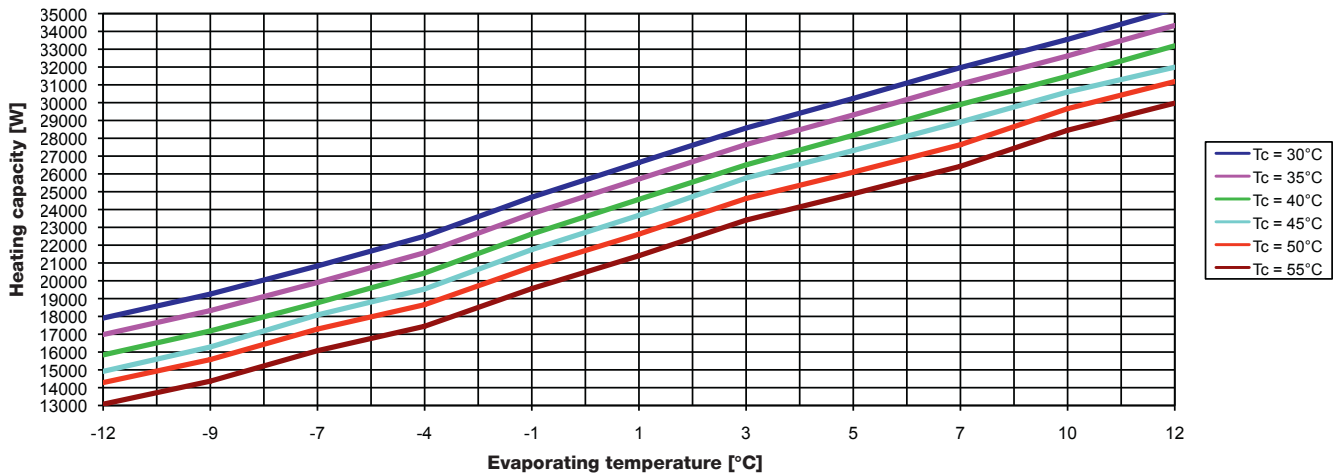


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP28S40W-M-WEB

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

Performance Curve at 30 % Compressor Capacity

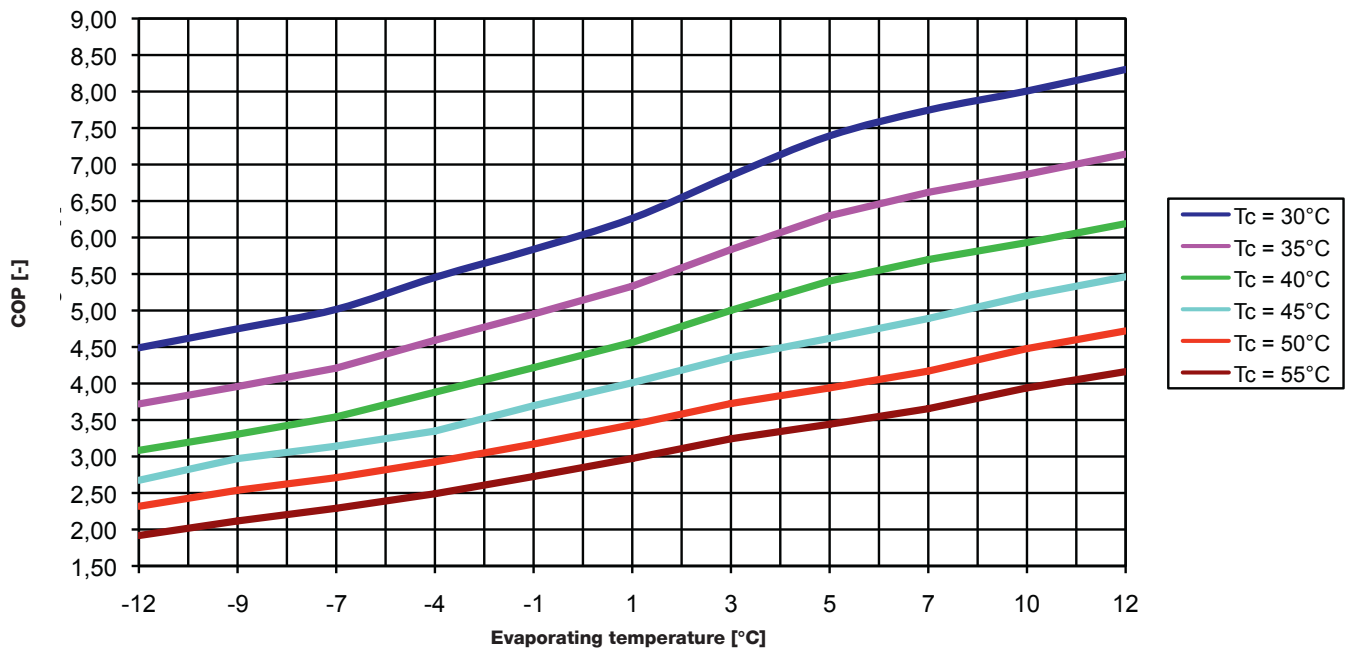
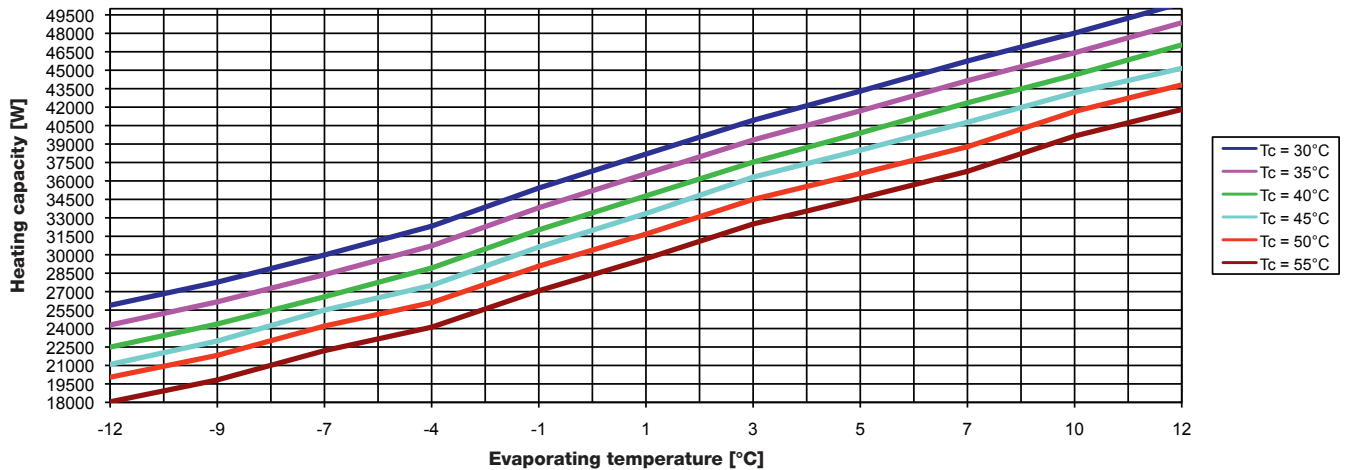


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP28S40W-M-WEB

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

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP08S10W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	11,81 kW	9,97 kW
Cooling capacity	10,12 kW	7,68 kW
Input	1,69 kW	2,29 kW
COP	6,98	4,36

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	11,39 kW	9,70 kW
Cooling capacity	9,61 kW	7,30 kW
Input	1,78 kW	2,40 kW
COP	6,41	4,04

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	4,5 kW
Oil amount	1,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	3,9 m ³ /h
Pressure loss	2,6 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	1,0 - 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	12,00 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	13 A
Starting current	14 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Ground water outlet and inlet	5/4"	AG
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 %.

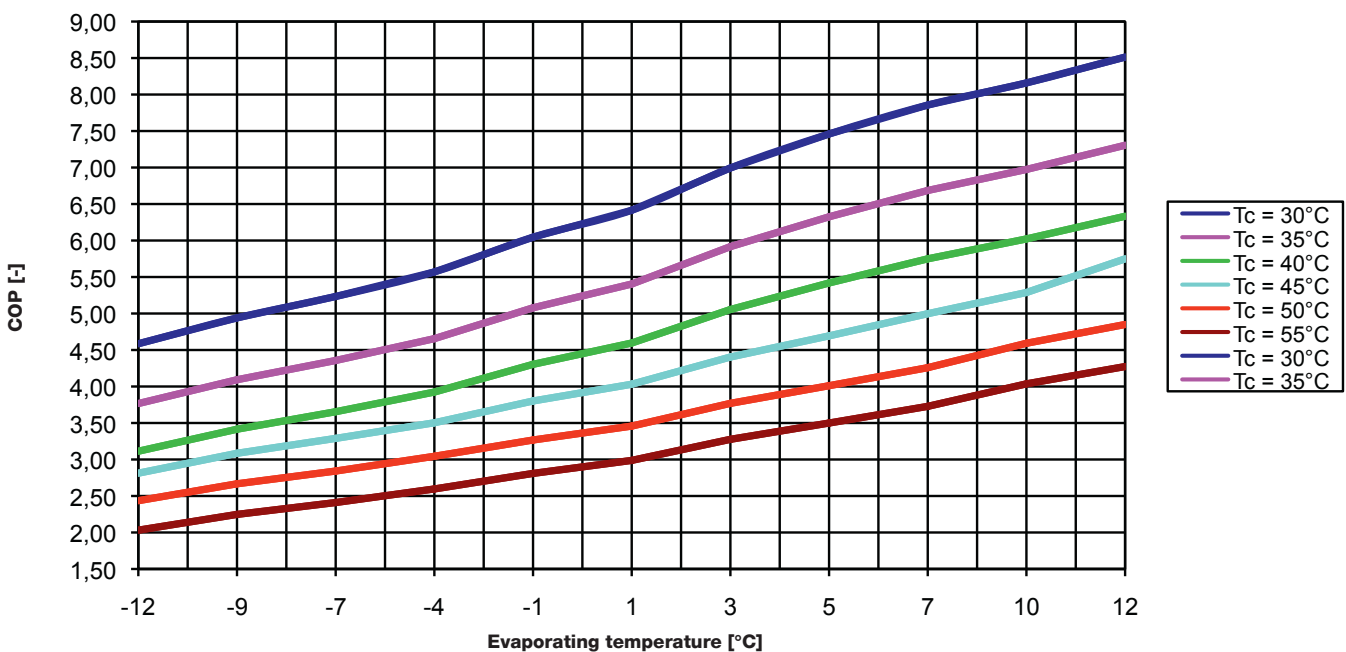
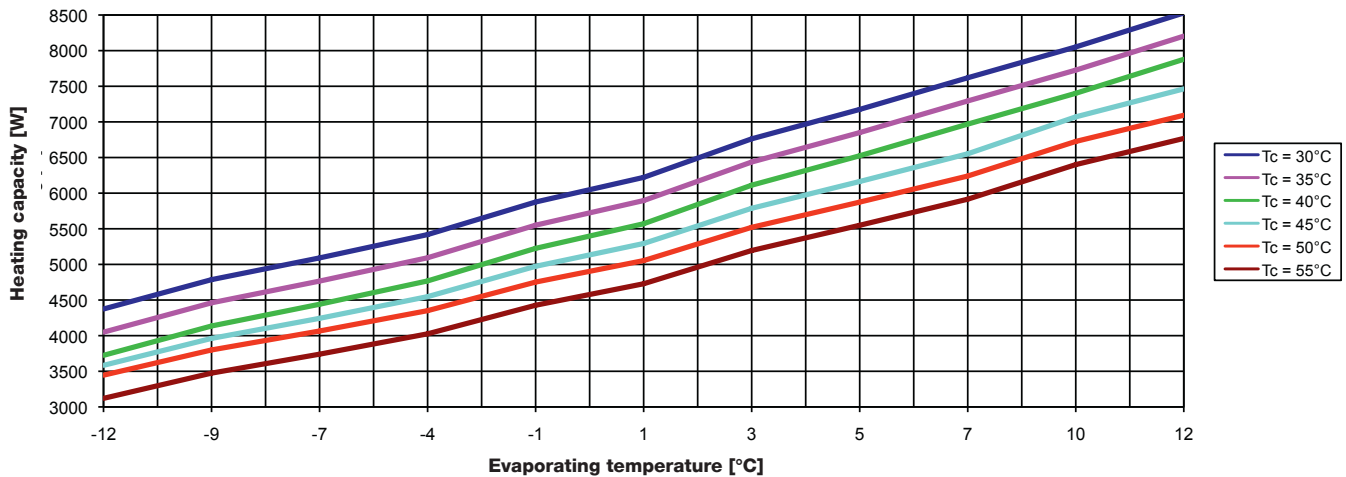
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP08S10W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

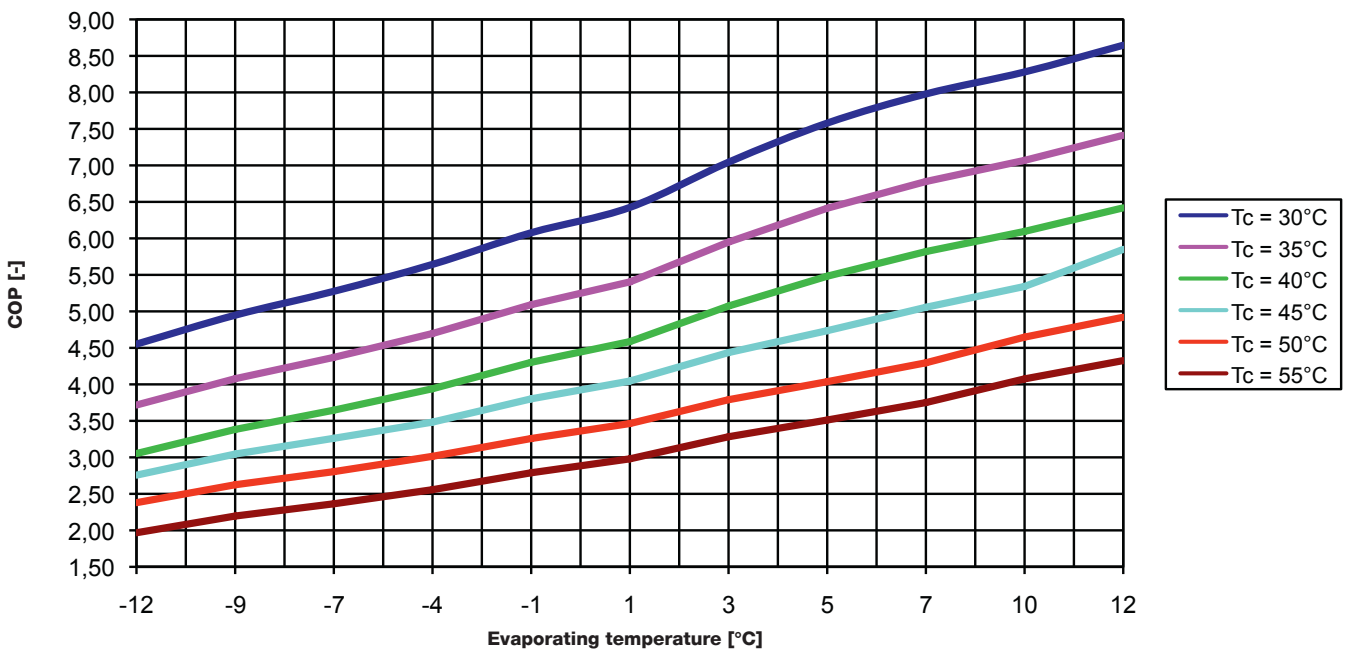
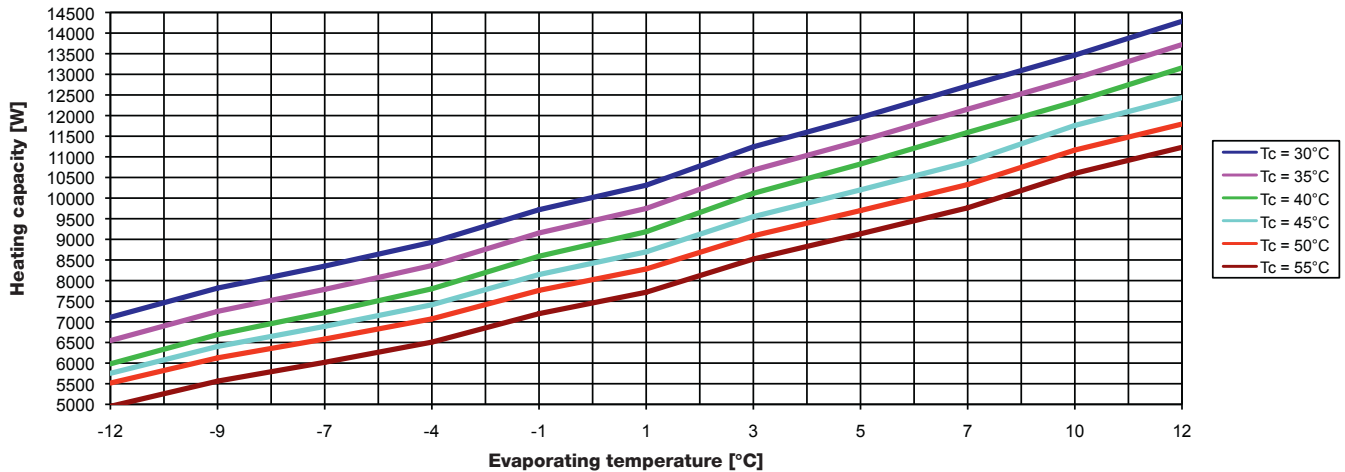


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP08S10W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

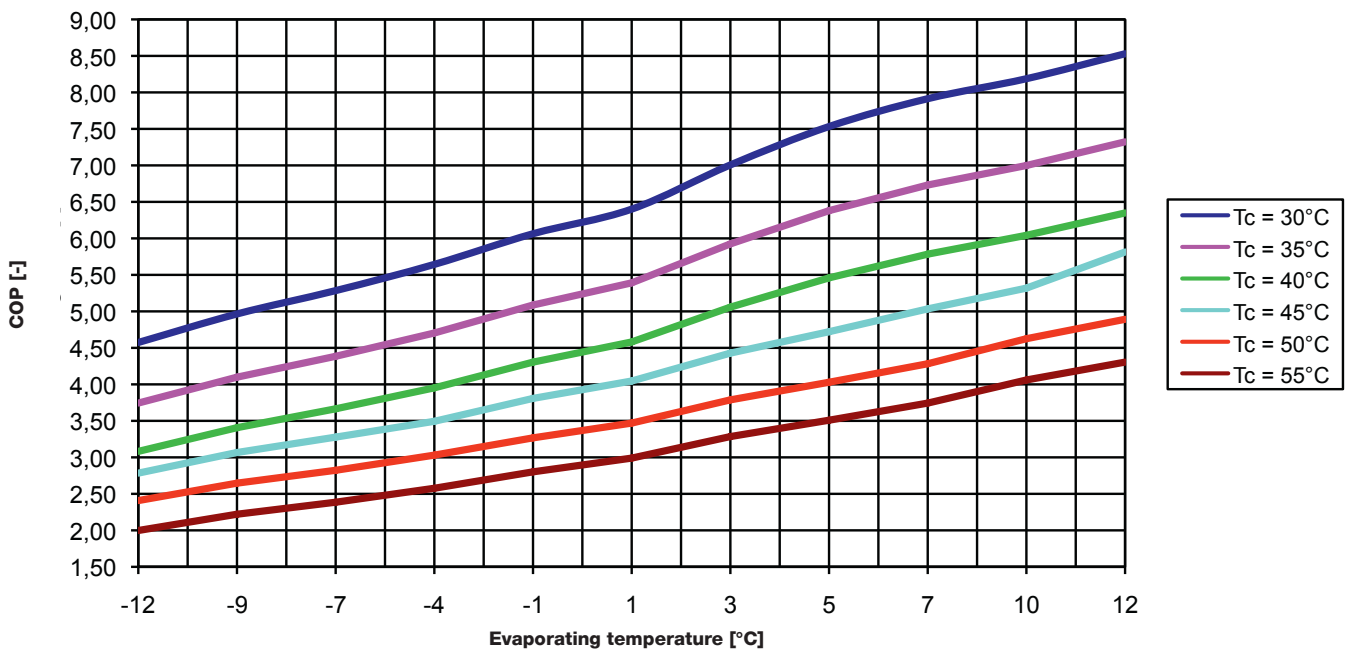
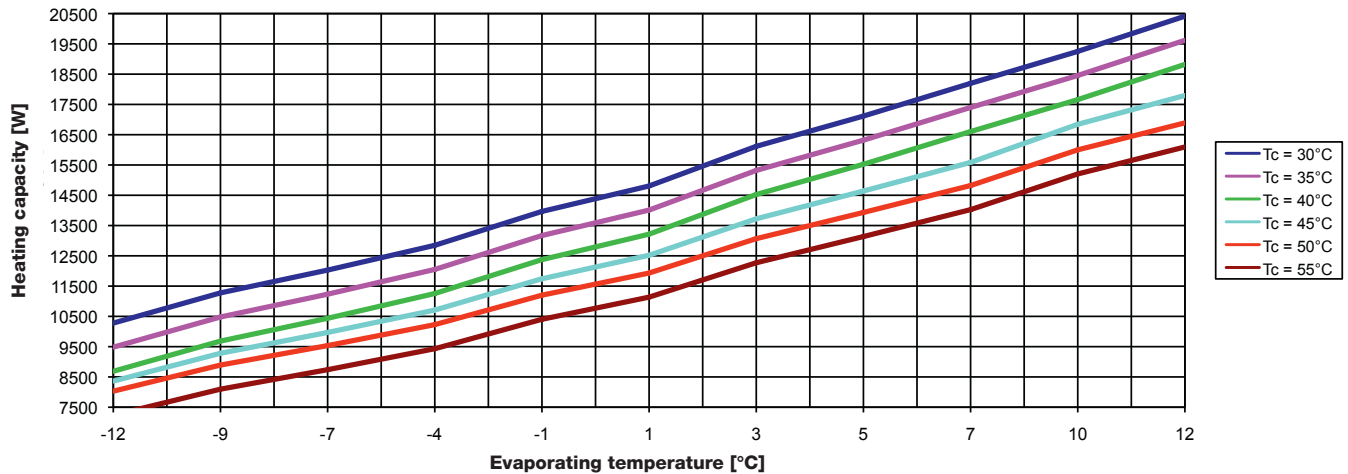


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP08S10W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	15,07 kW	12,71 kW
Cooling capacity	12,93 kW	9,84 kW
Input	2,14 kW	2,88 kW
COP	7,06	4,42

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	14,53 kW	12,37 kW
Cooling capacity	12,29 kW	9,34 kW
Input	2,24 kW	3,02 kW
COP	6,48	4,09

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	6,5 kW
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	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	1,0 - 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	15,40 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	15 A
Starting current	19 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Ground water outlet and inlet	5/4"	AG
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 %.

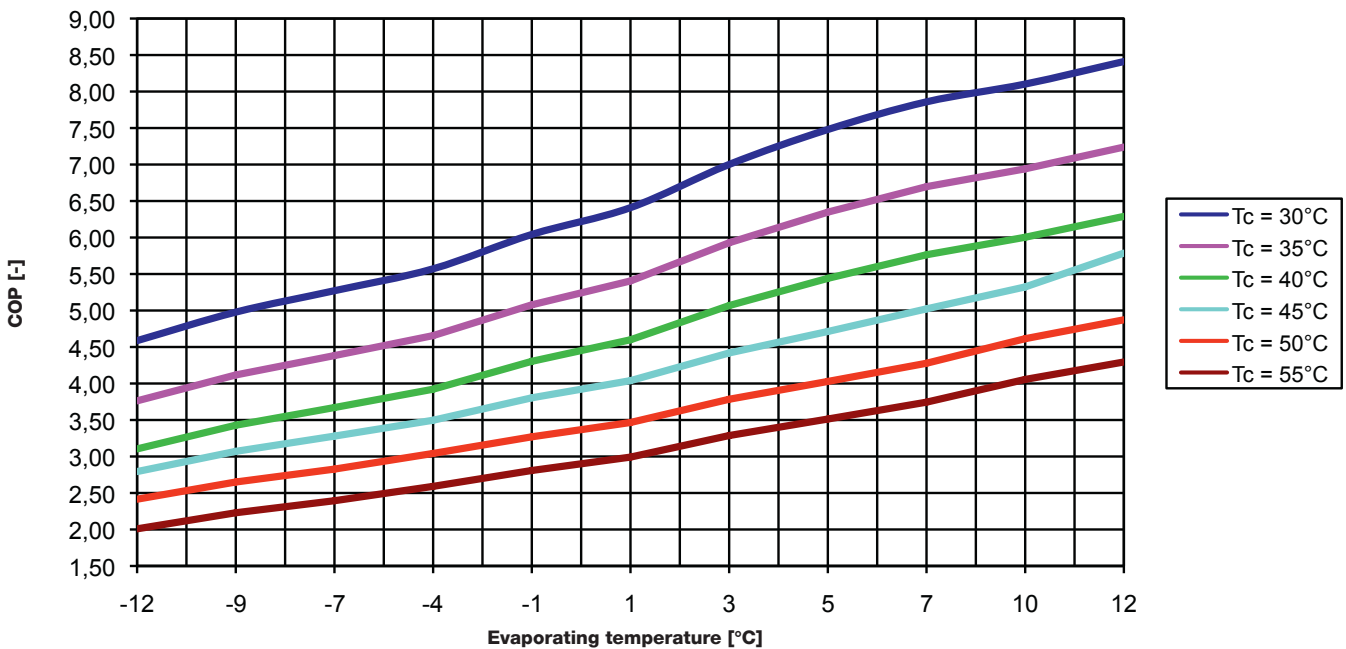
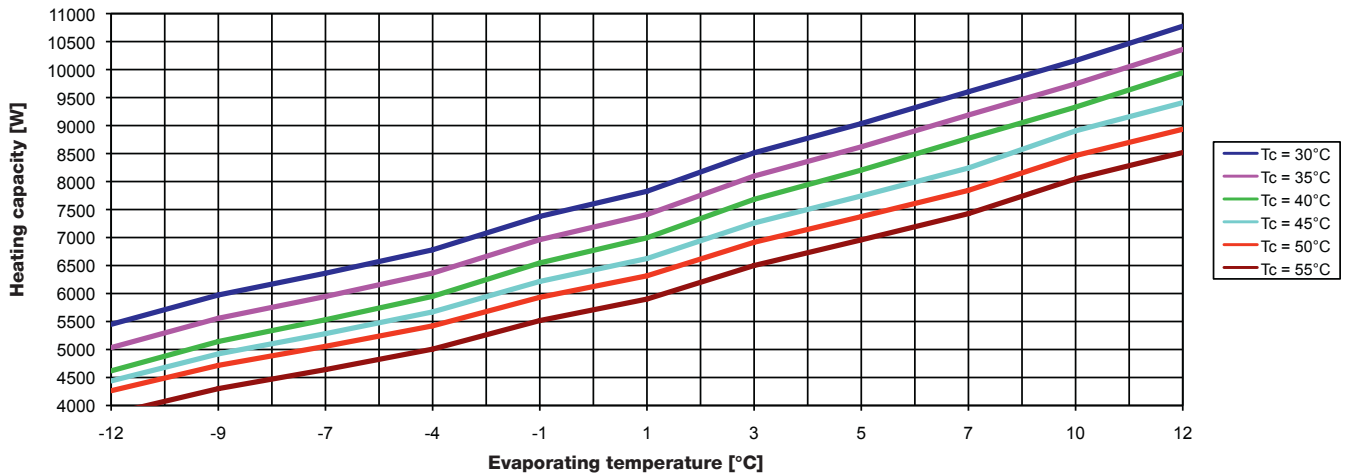
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP12S16W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

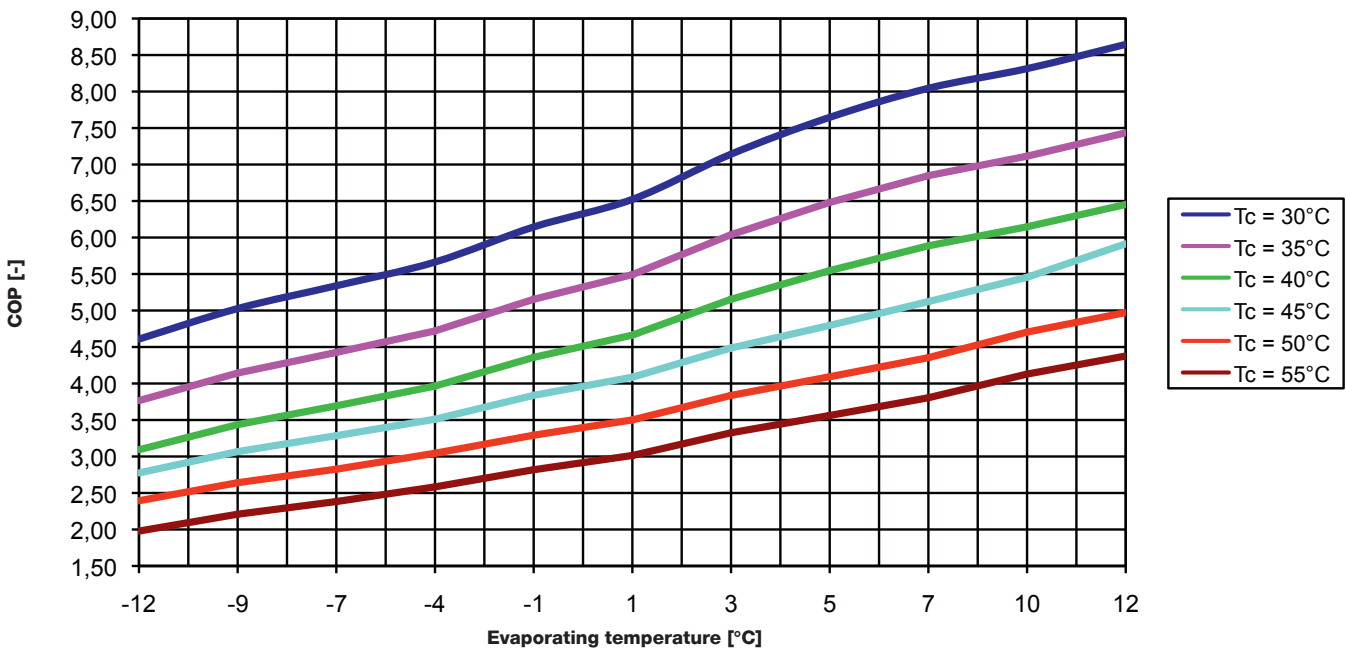
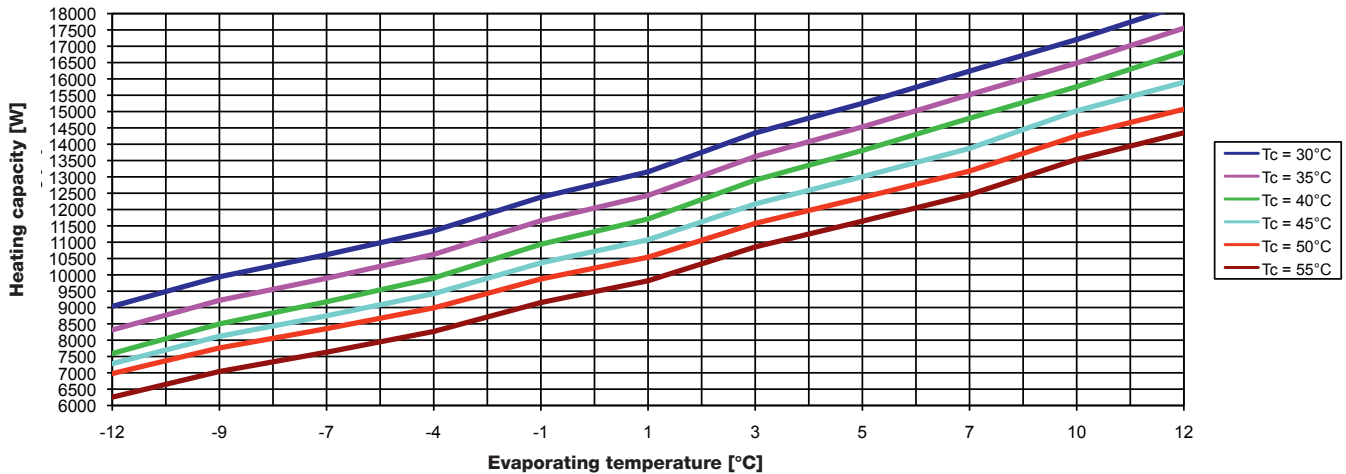


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

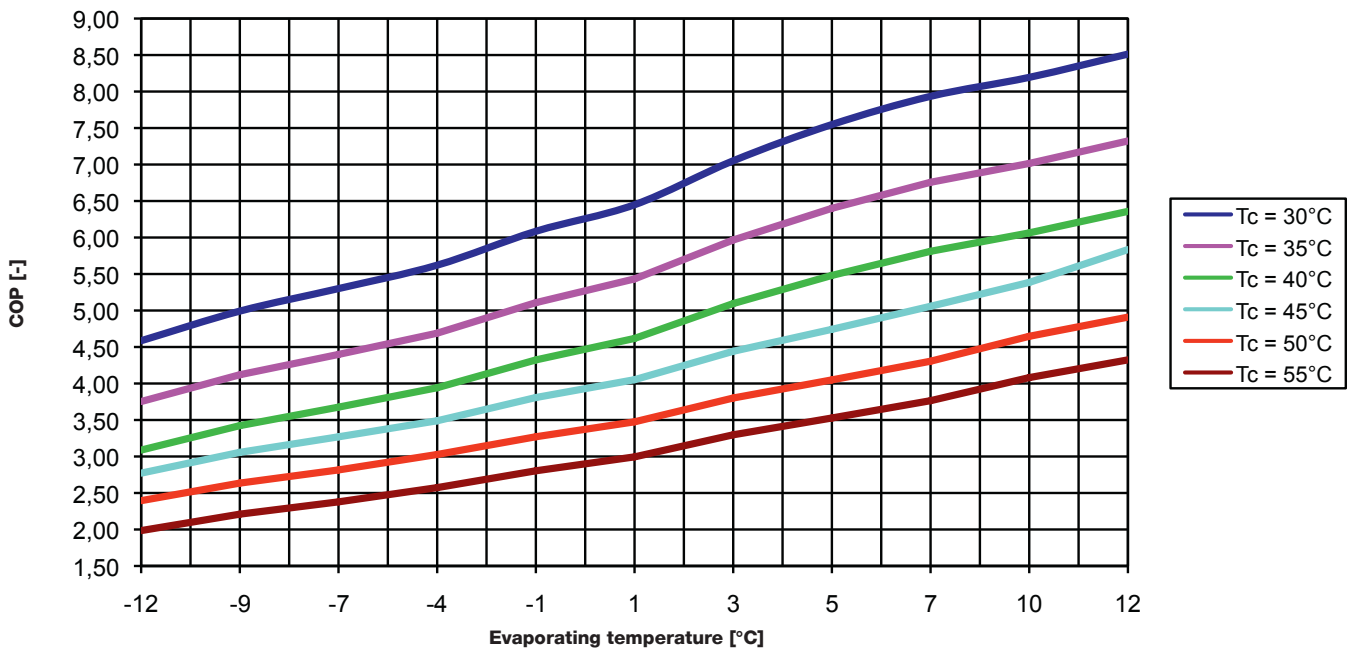
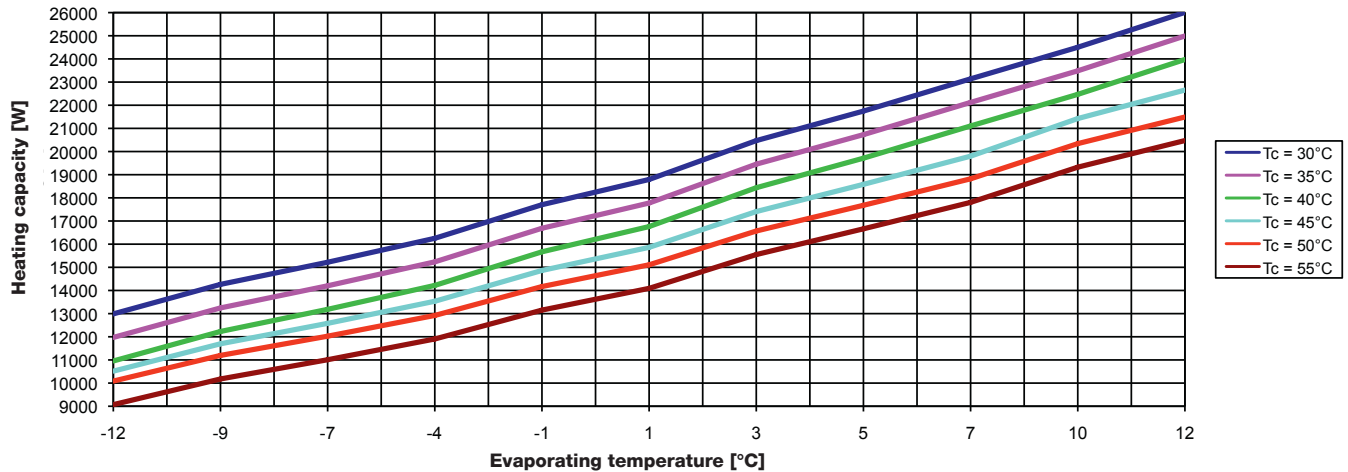


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP12S16W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	27,20 kW	23,26 kW
Cooling capacity	23,26 kW	17,87 kW
Input	3,93 kW	5,38 kW
COP	6,91	4,32

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	26,23 kW	22,63 kW
Cooling capacity	22,10 kW	16,98 kW
Input	4,13 kW	5,65 kW
COP	6,35	4,00

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	8,5 kW
Oil amount	2,3 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	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	1,8 - 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⁾	
W25/W18	27,20 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 20 A
Max. compressor operating current	21 A
Starting current	21 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	AG
Ground water outlet and inlet	2"	AG
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 %.

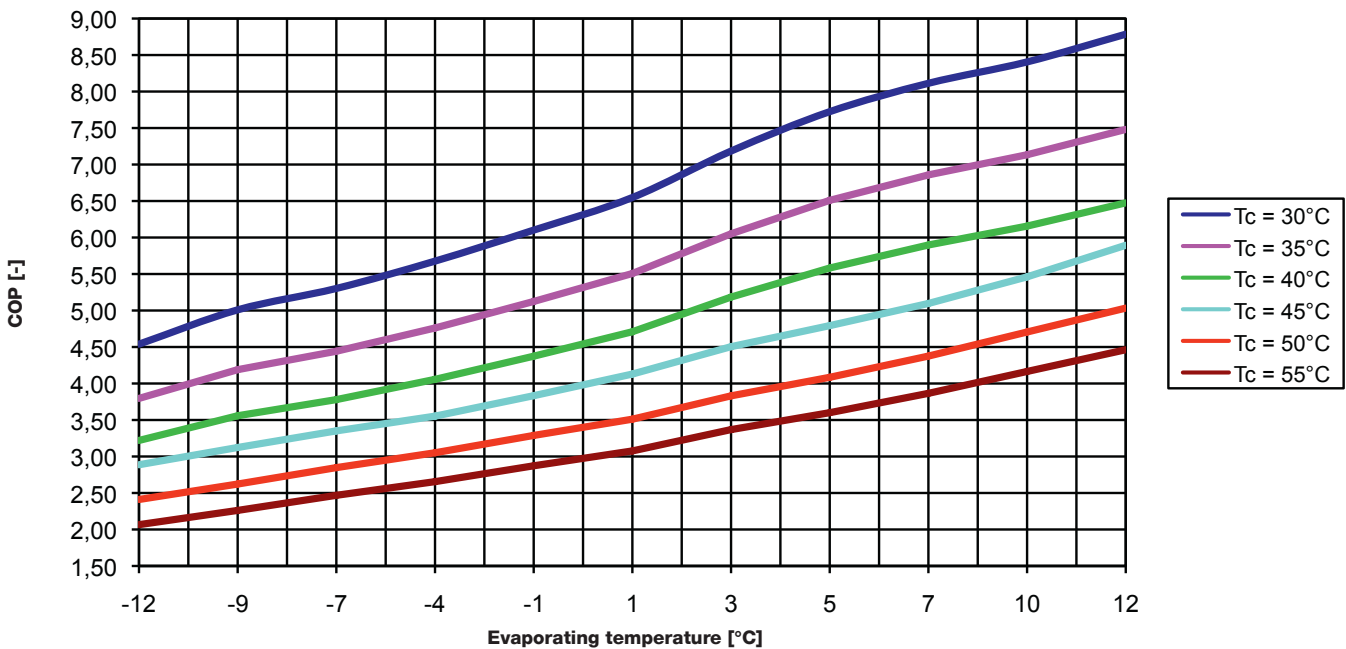
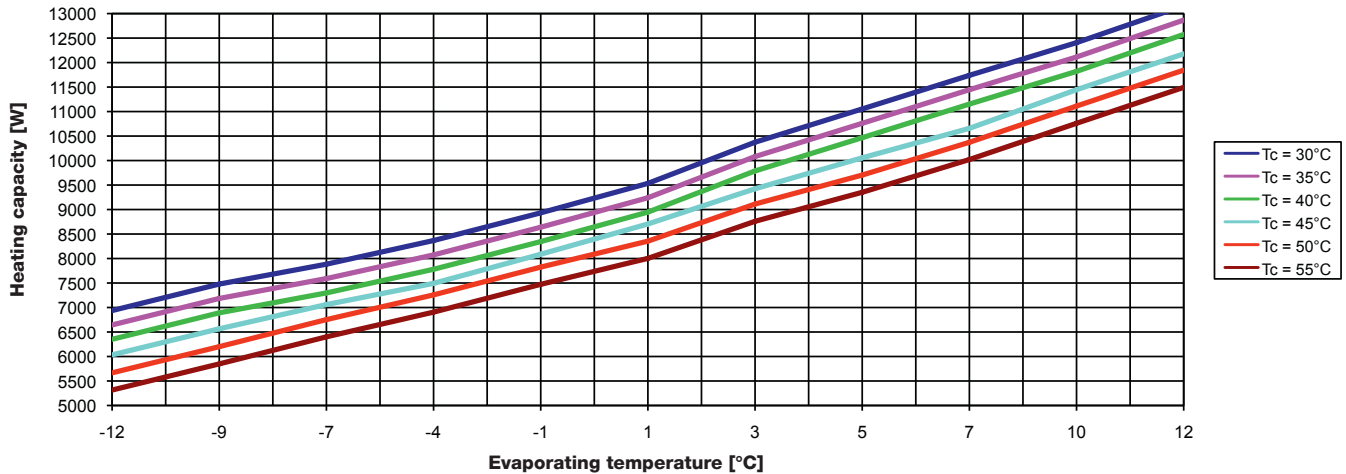
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP20S25W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

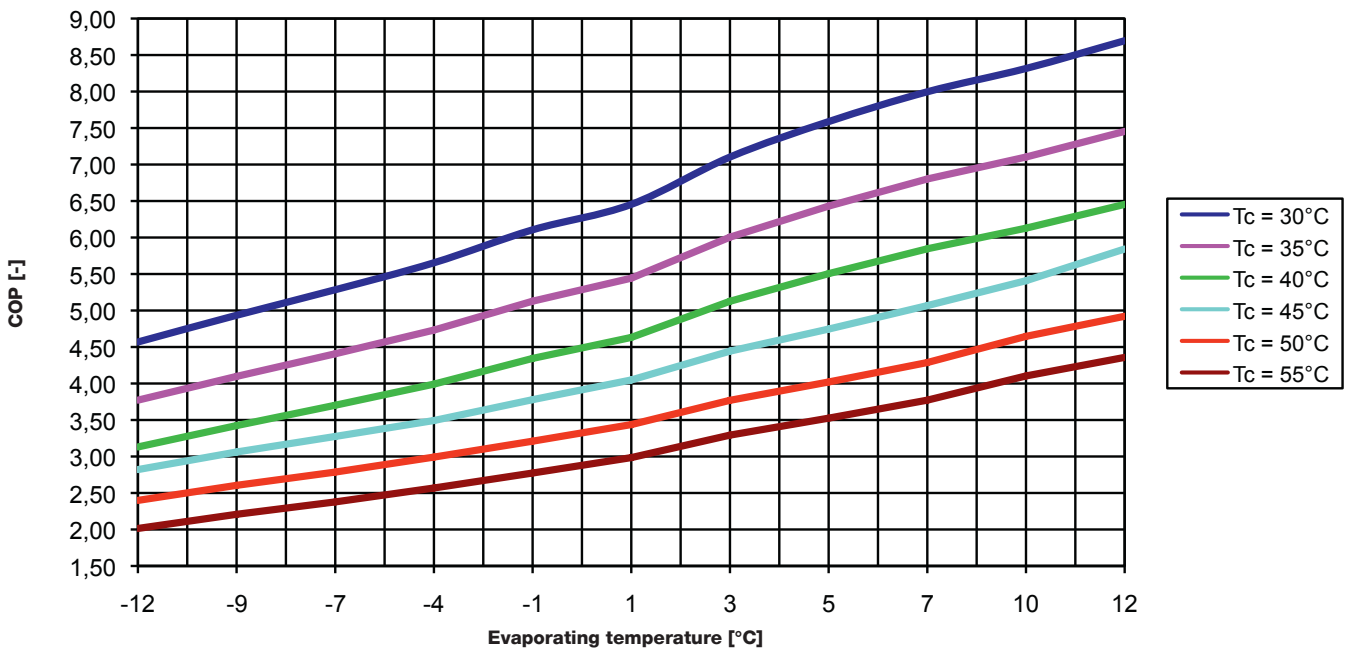
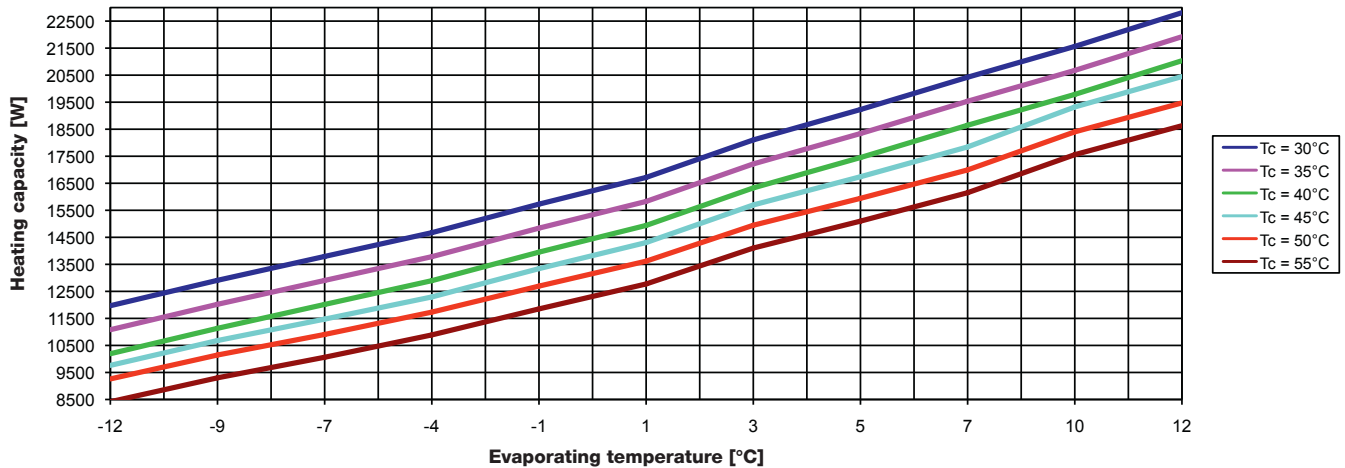


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

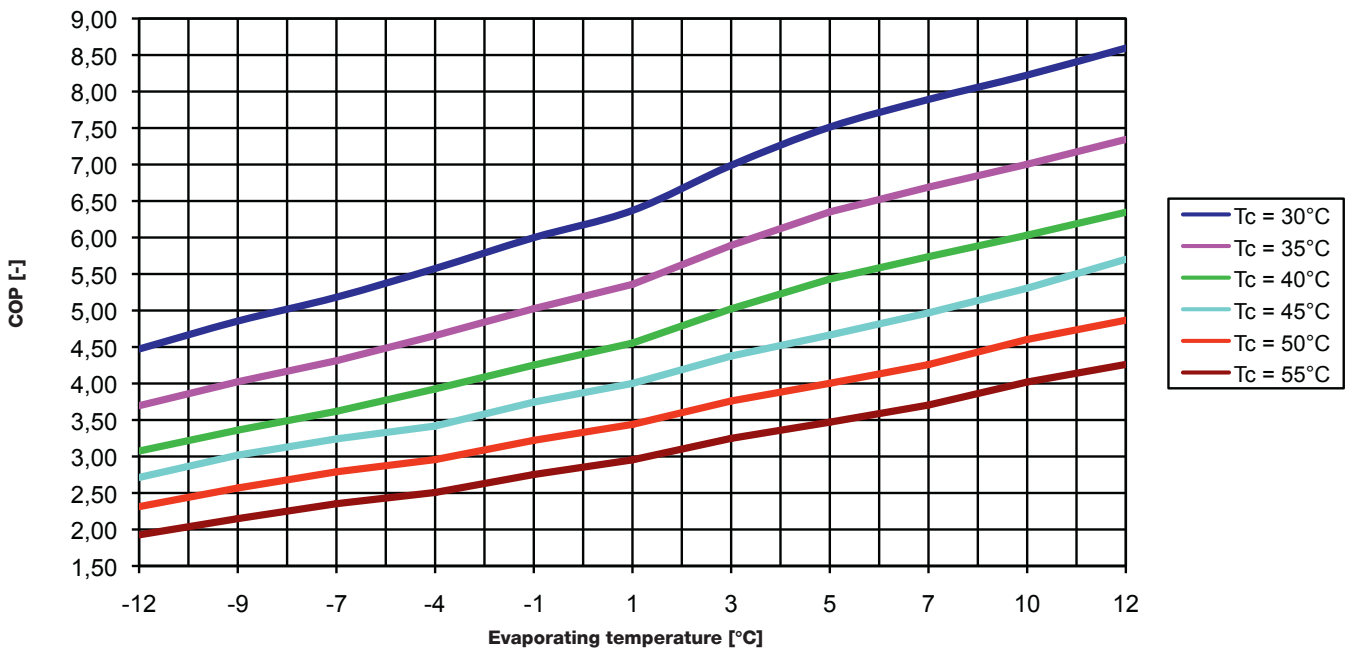
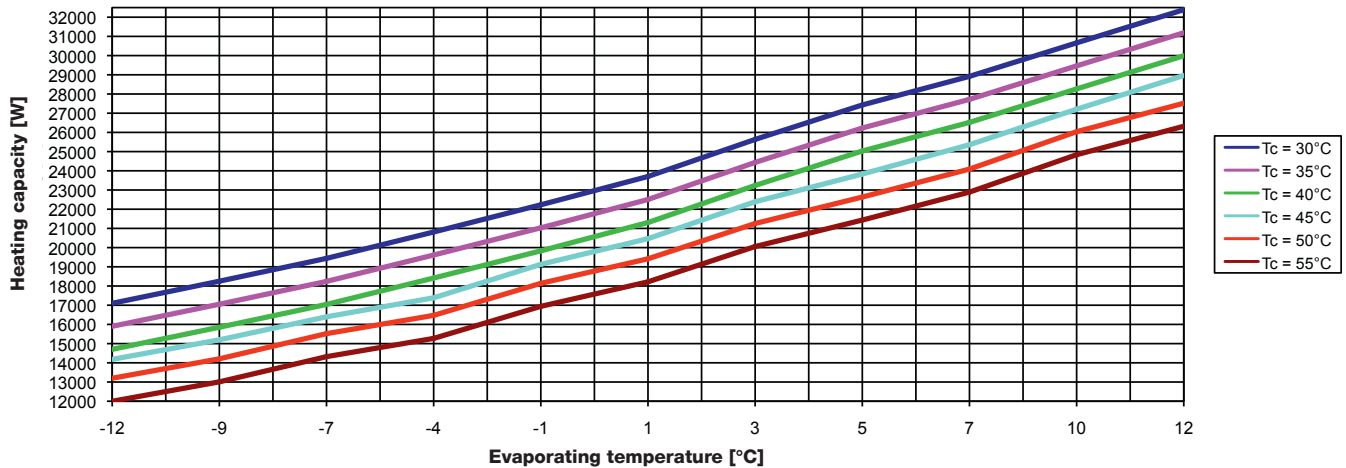


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP20S25W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP28S40W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	43,23 kW	37,59 kW
Cooling capacity	36,93 kW	28,75 kW
Input	6,30 kW	8,85 kW
COP	6,86	4,25

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	41,70 kW	36,60 kW
Cooling capacity	35,08 kW	27,31 kW
Input	6,62 kW	9,29 kW
COP	6,30	3,94

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	12,0 kW
Oil amount	2,8 l

Evaporator / Energy Source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	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	2,0 - 4,5 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	5,0 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 32 A
Max. compressor operating current	27 A
Starting current	29 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	6/4"	AG
Ground water outlet and inlet	6/4"	AG
Height x Width x Depth	1.625x604x674	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

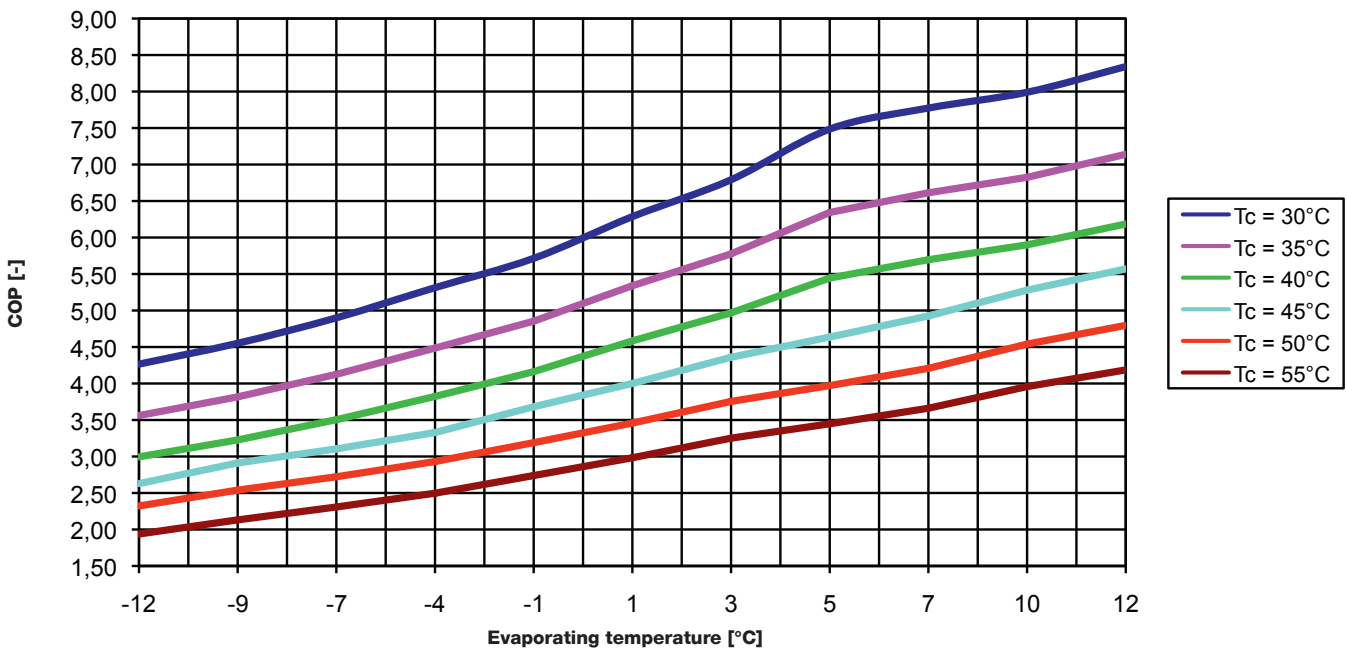
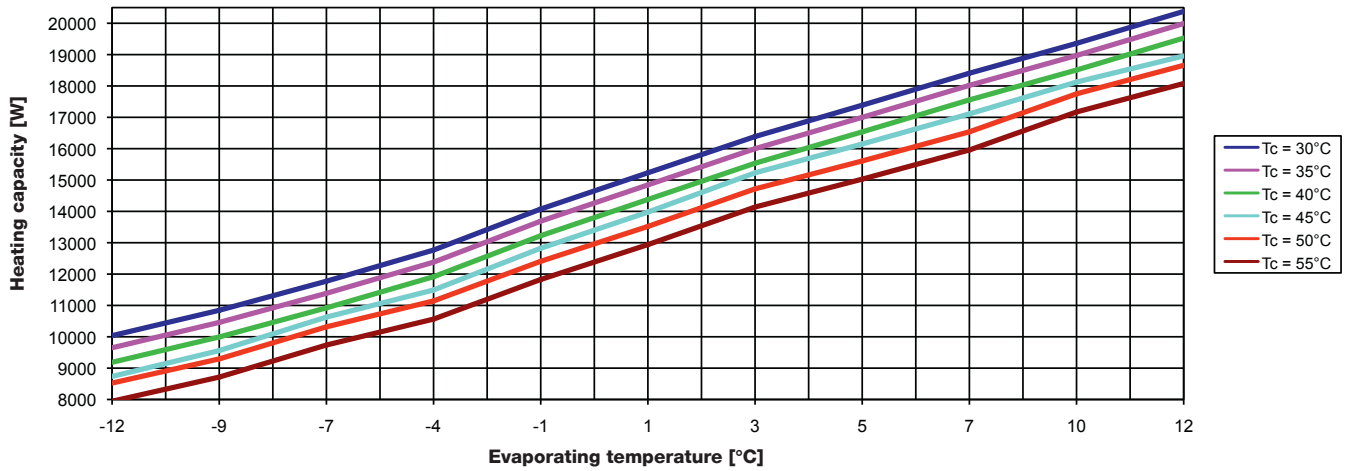
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP28S40W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

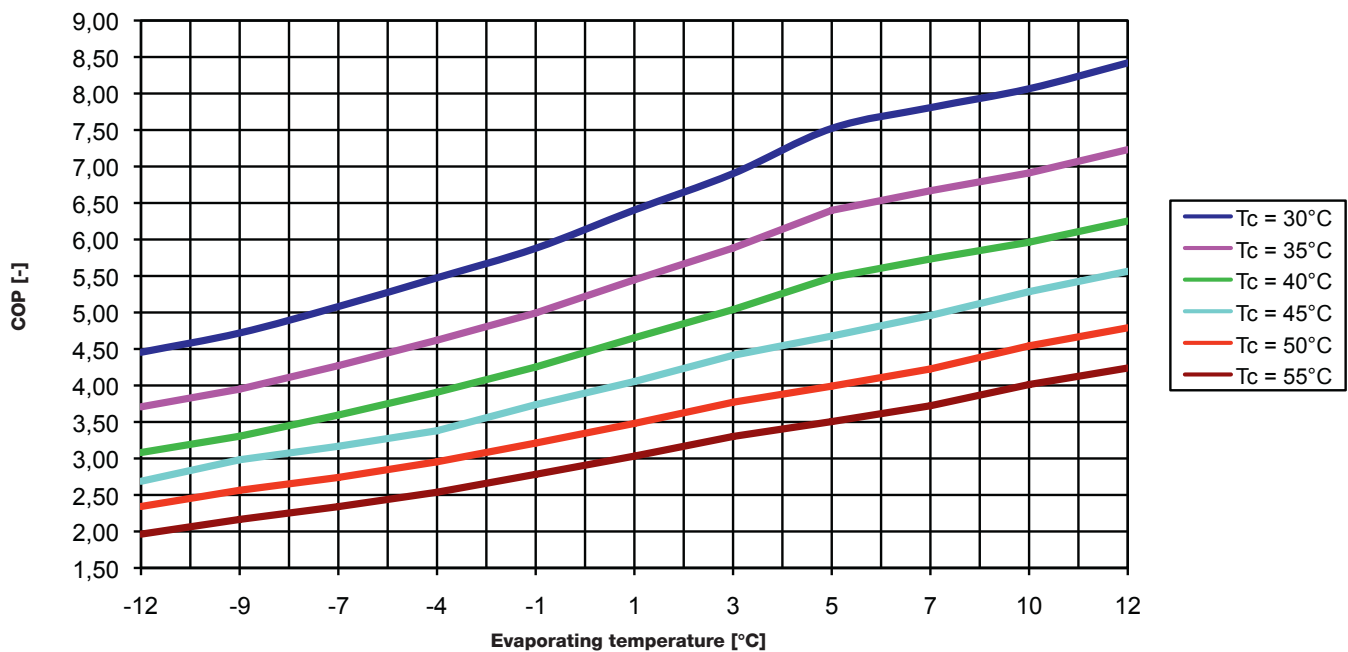
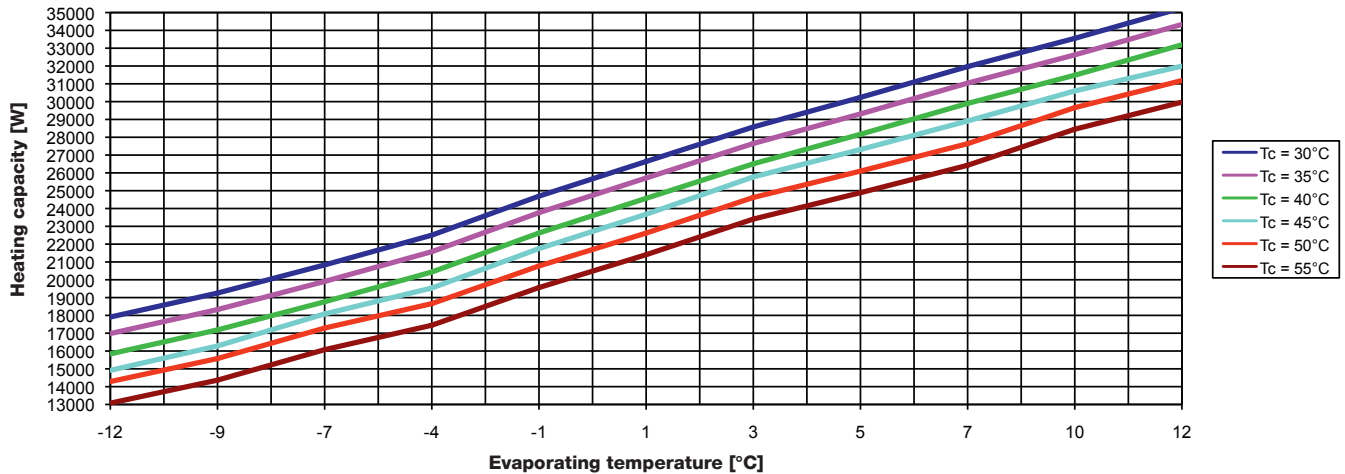


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP28S40W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

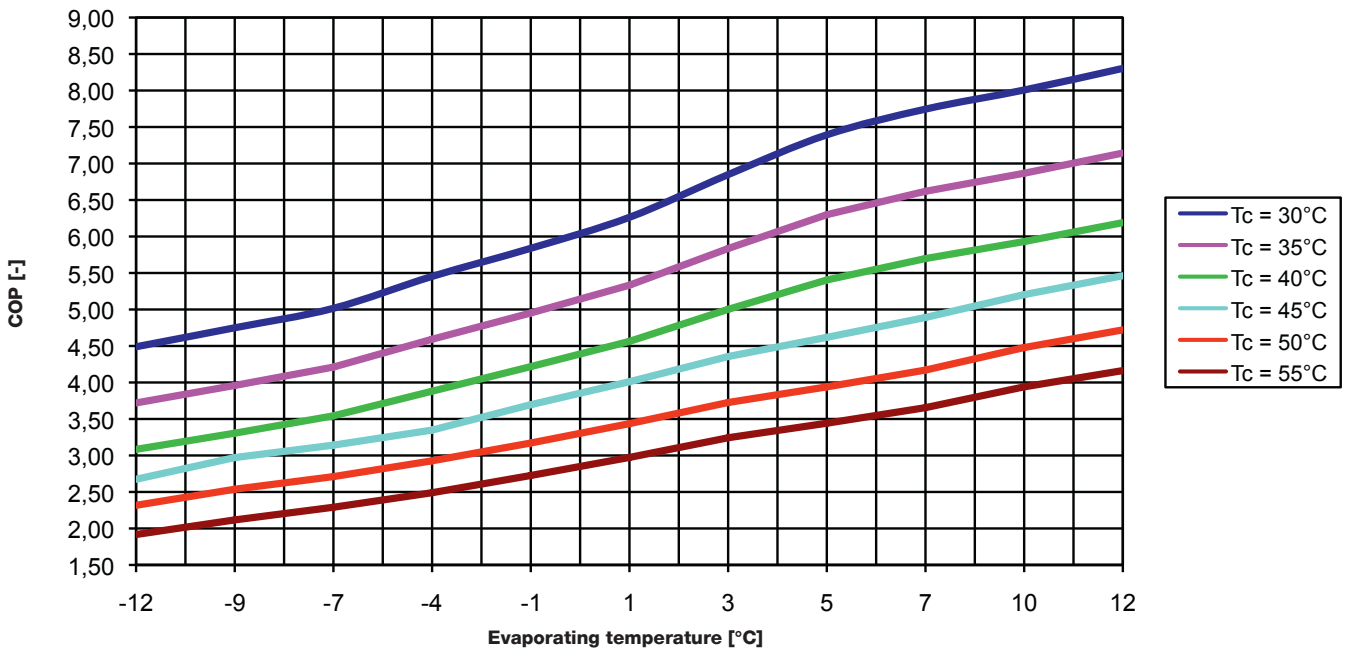
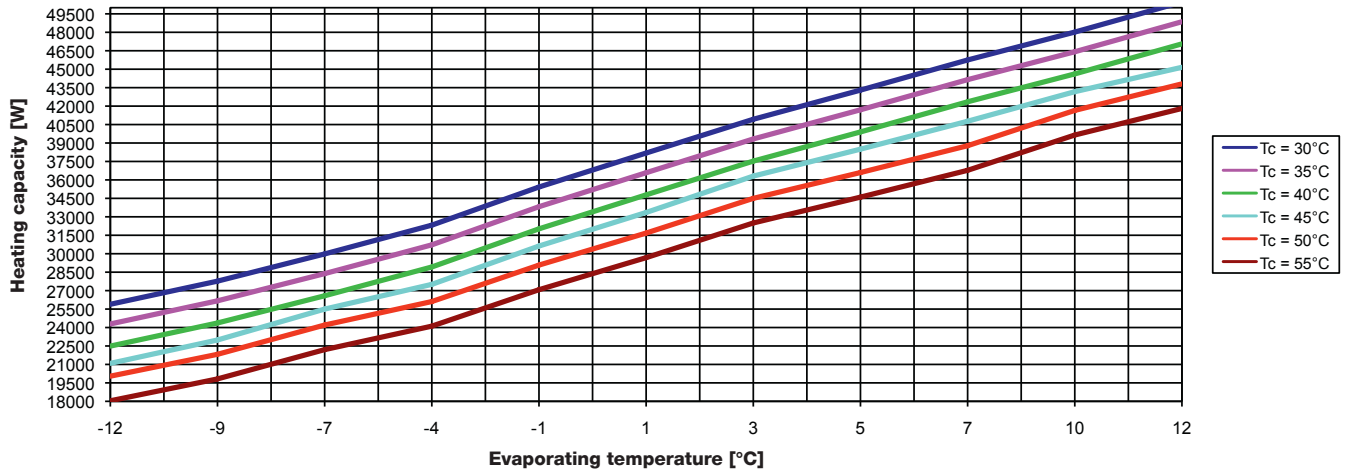


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP28S40W-M-WEB

Ground Water Heat Pump, Modulating | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP08S10W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	11,15 kW	9,30 kW
Cooling capacity	9,46 kW	7,02 kW
Input	1,69 kW	2,29 kW
COP	6,59	4,07

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	10,76 kW	9,07 kW
Cooling capacity	8,98 kW	6,67 kW
Input	1,78 kW	2,40 kW
COP	6,06	3,77

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	4,5 kW
Oil amount	1,3 l

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

Condenser Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	1,0 - 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	11,40 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	13 A
Starting current	14 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	46 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Ground water outlet and inlet	5/4"	AG
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

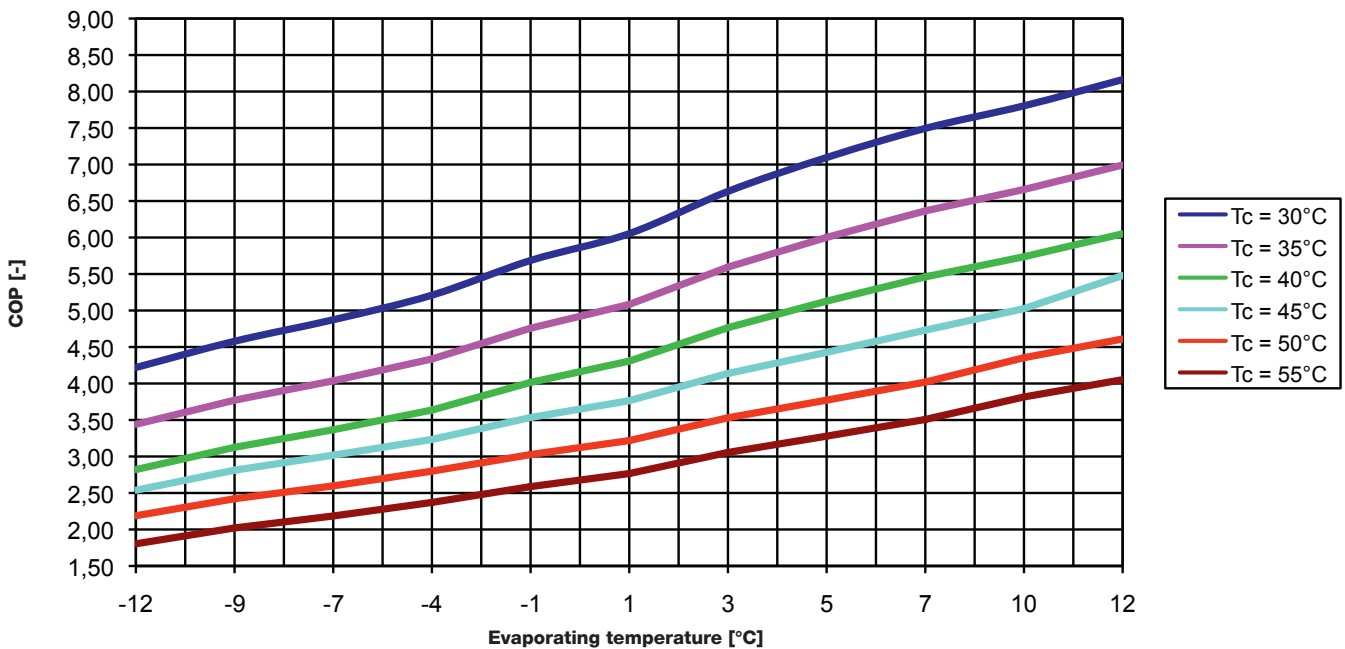
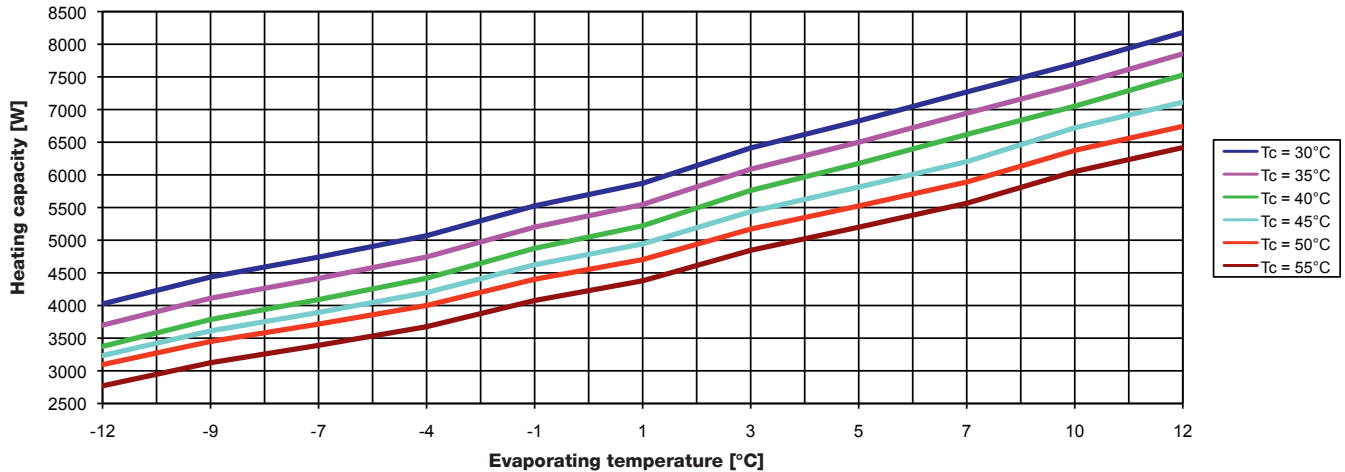
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP08S10W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

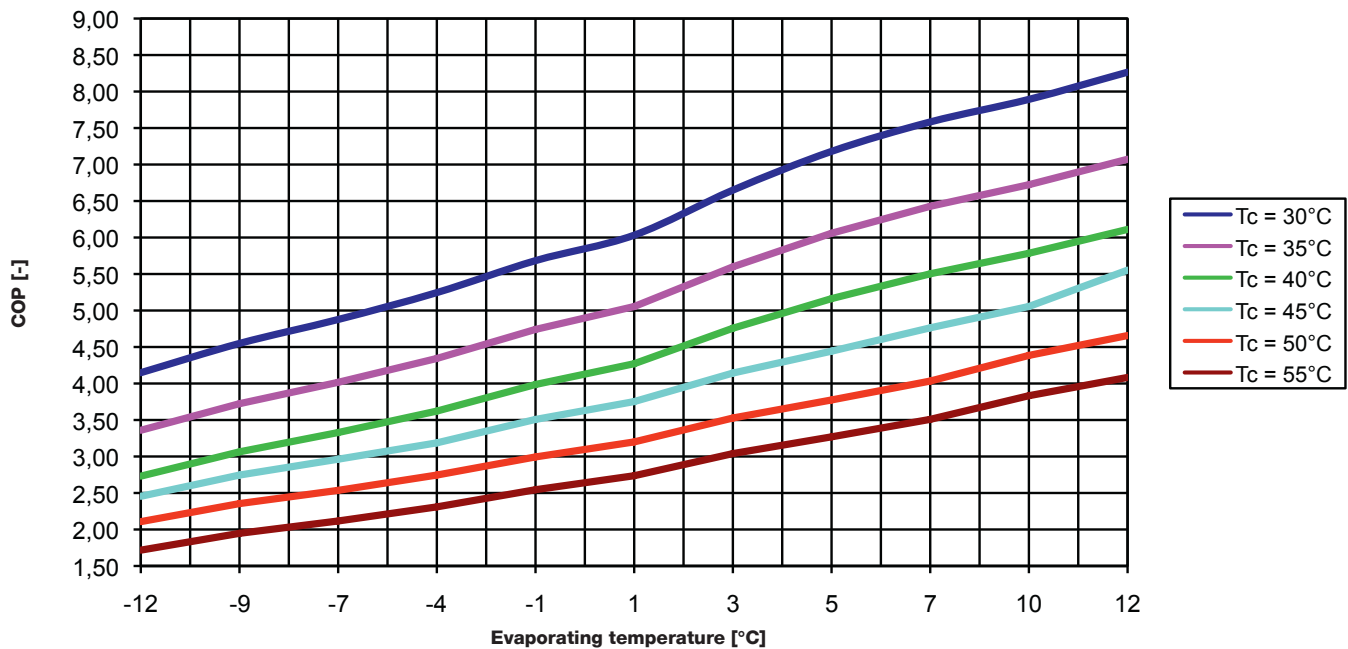
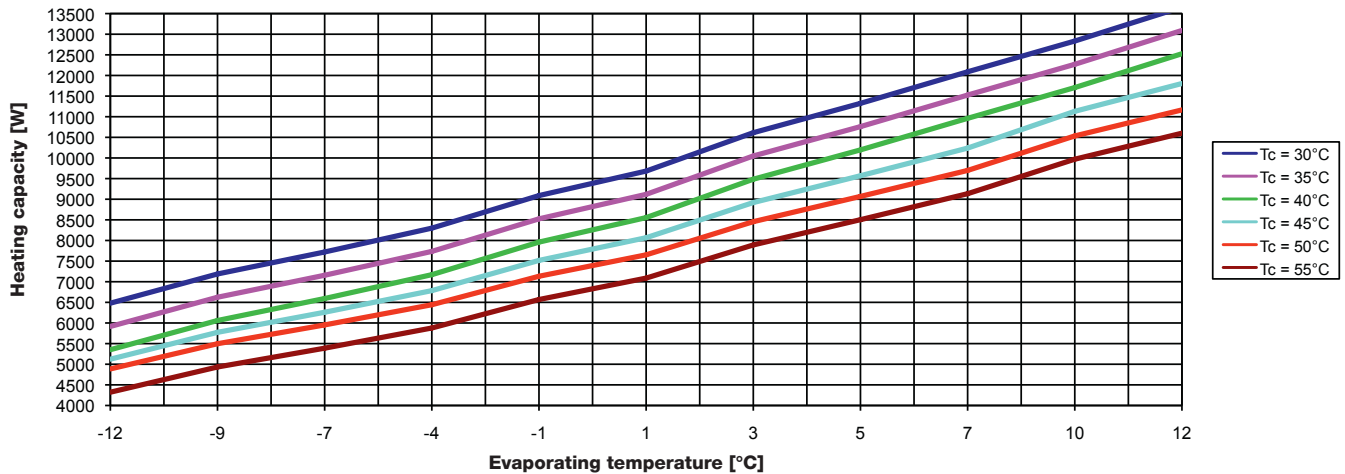


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP08S10W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

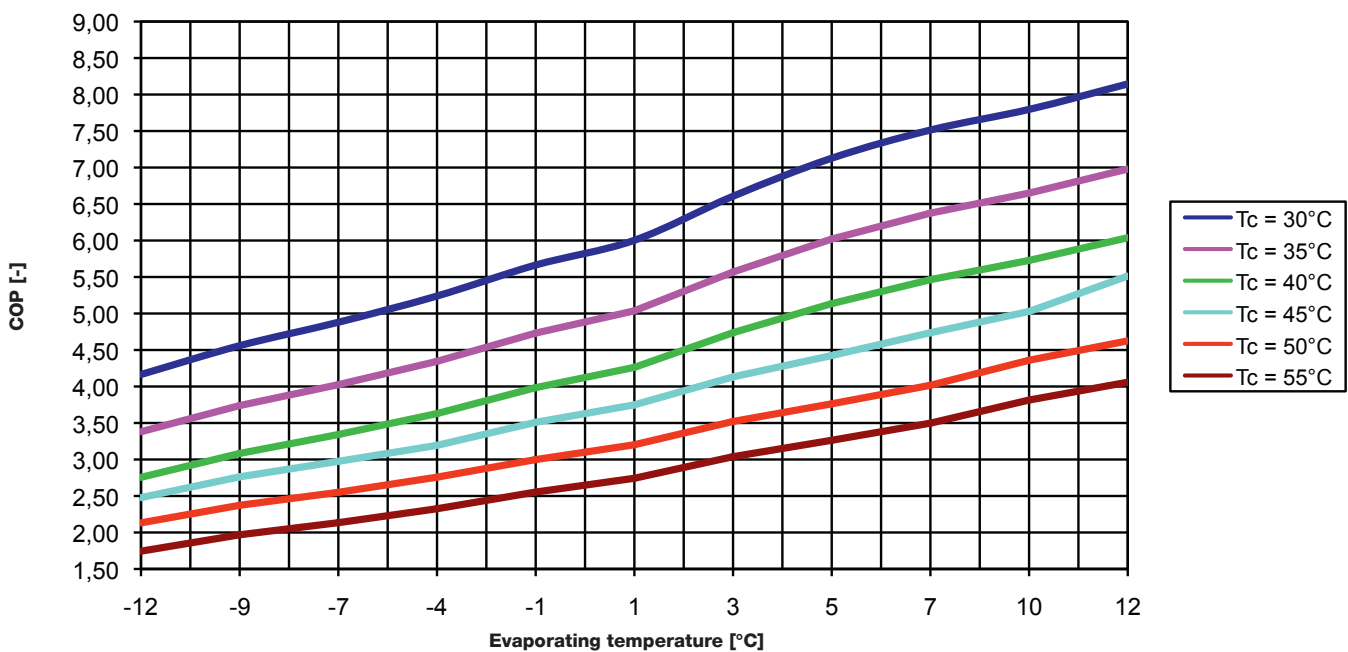
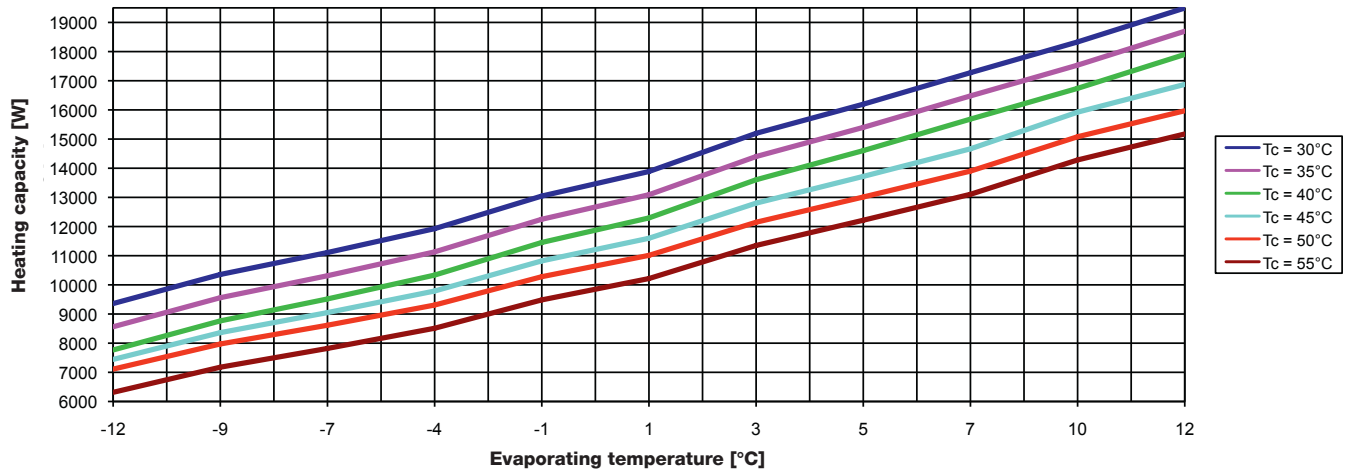


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP08S10W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	14,24 kW	11,88 kW
Cooling capacity	12,10 kW	9,00 kW
Input	2,14 kW	2,88 kW
COP	6,67	4,13

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	13,74 kW	11,58 kW
Cooling capacity	11,50 kW	8,55 kW
Input	2,24 kW	3,02 kW
COP	6,13	3,83

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	6,5 kW
Oil amount	1,7 l

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

Condenser Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	1,0 - 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	14,60 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,7 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 16 A
Max. compressor operating current	15 A
Starting current	19 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	5/4"	AG
Ground water outlet and inlet	6/4"	AG
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

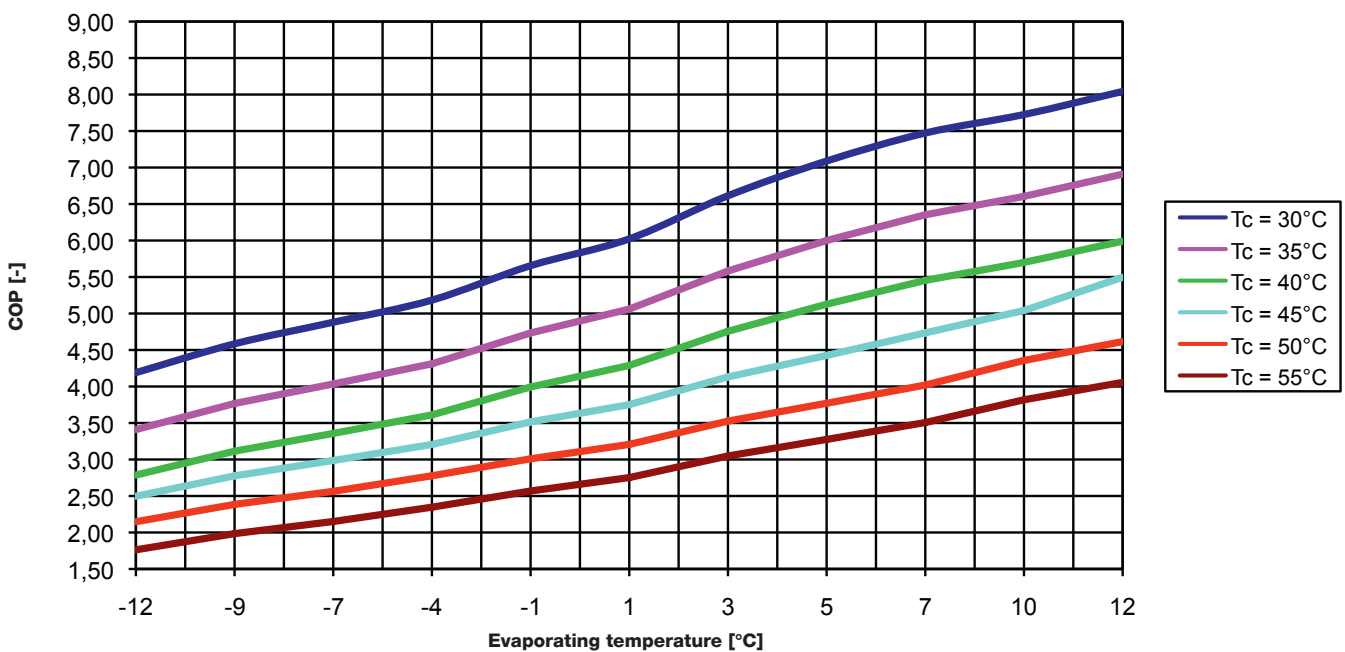
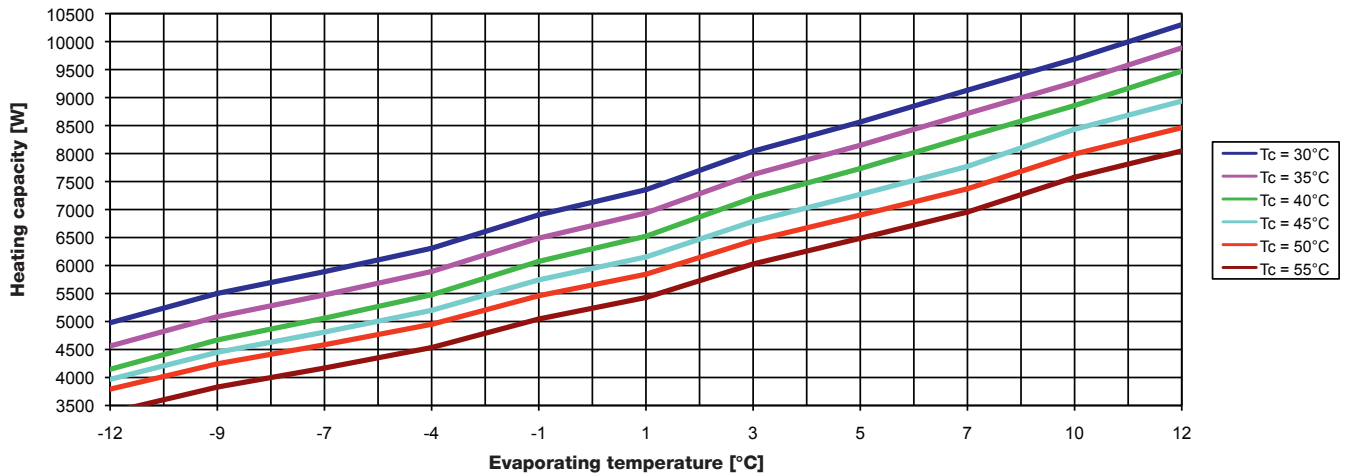
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP12S16W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

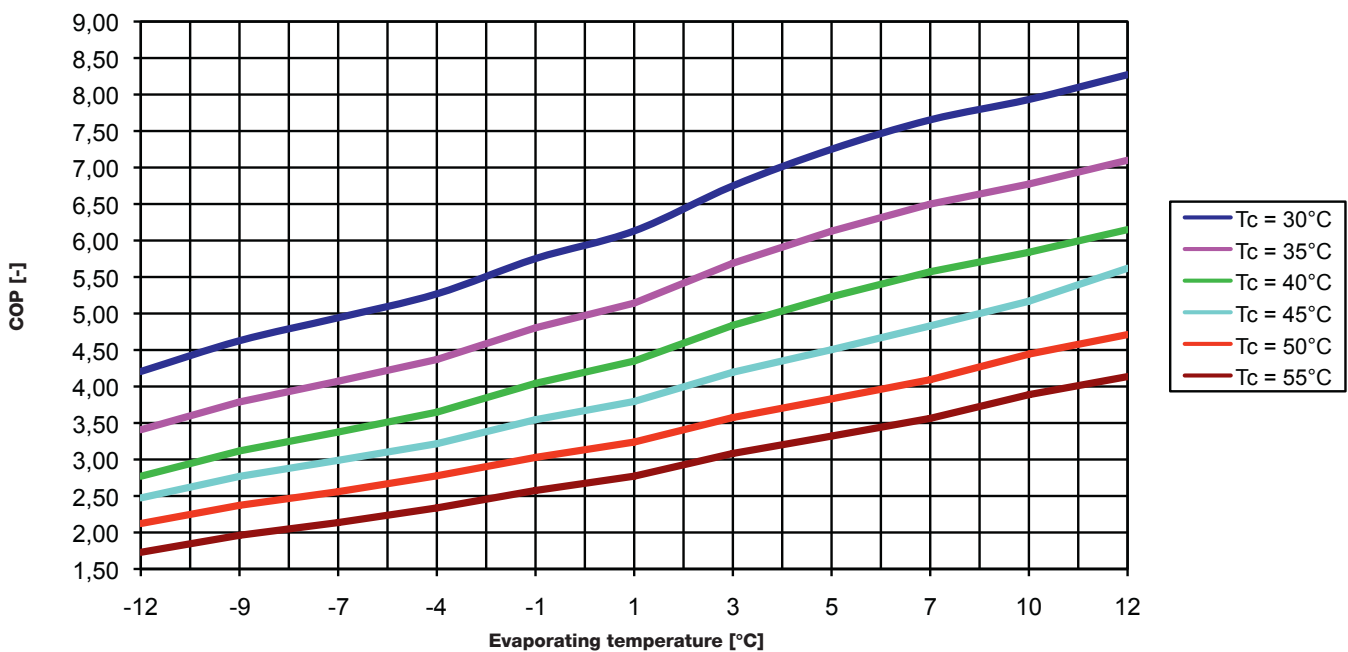
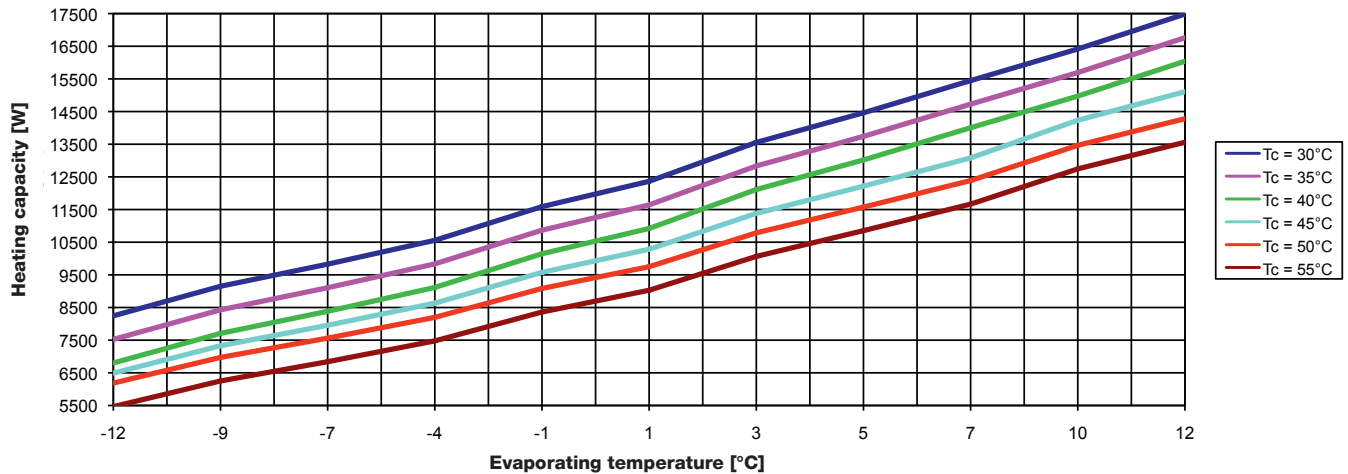


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP12S16W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

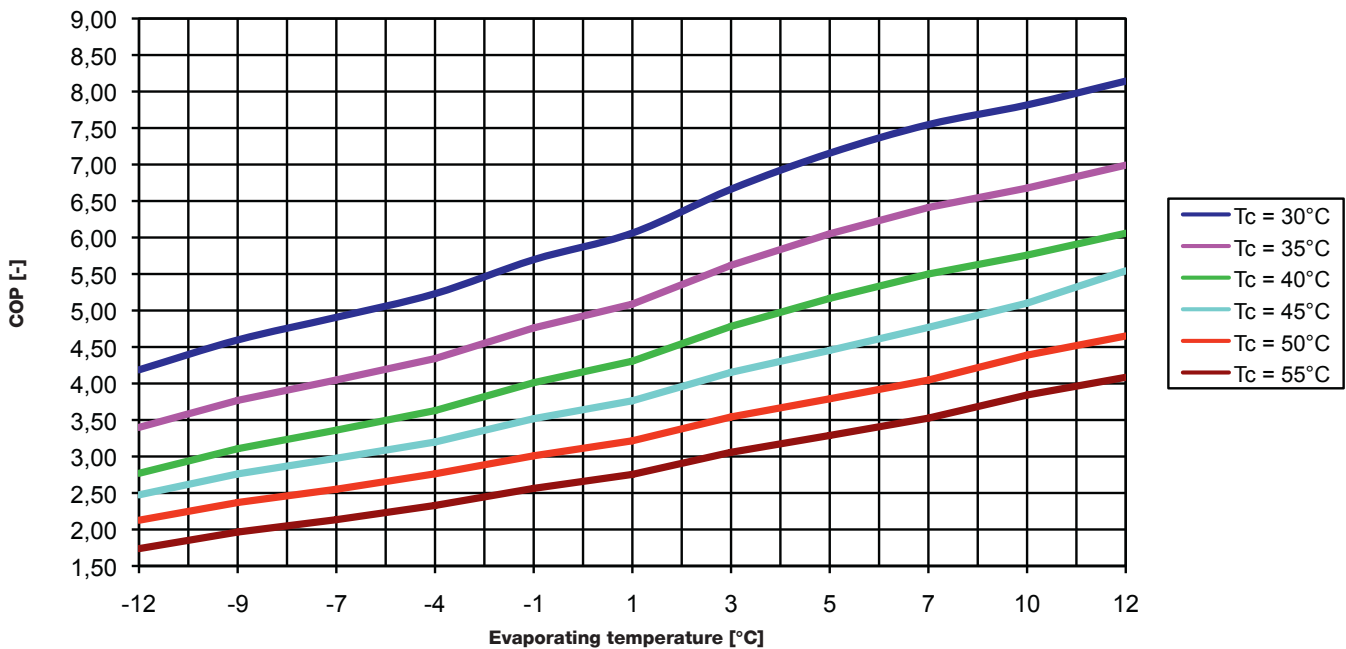
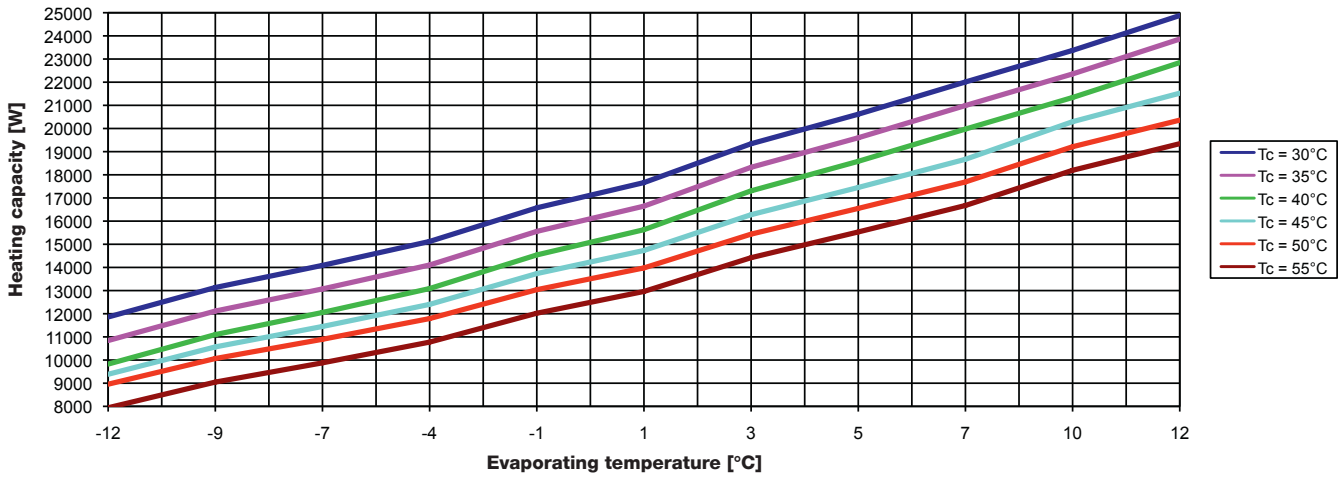


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP12S16W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K		
	W10W35	W10W50
Heating capacity	25,67 kW	21,73 kW
Cooling capacity	21,74 kW	16,35 kW
Input	3,93 kW	5,38 kW
COP	6,53	4,04

Performance Data ¹⁾ EN14511 Δ 5 K		
	W10W35	W10W50
Heating capacity	24,78 kW	21,18 kW
Cooling capacity	20,65 kW	15,53 kW
Input	4,13 kW	5,65 kW
COP	6,00	3,75

Compressor	
Type	Scroll
Speed RPM	1200-5400 min ⁻¹
Max. input power	8,5 kW
Oil amount	2,3 l

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

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount	1,8 - 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⁾	
W25/W18	25,80 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount	3,7 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	3 x 20 A
Max. compressor operating current	21 A
Starting current	21 A
Starting current with soft starter	FU

Acoustic Pressure Level	
1 m distance	48 dB(A)

Connections, Dimensions		
Heating outlet and inlet	2"	AG
Ground water outlet and inlet	6/4"	AG
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

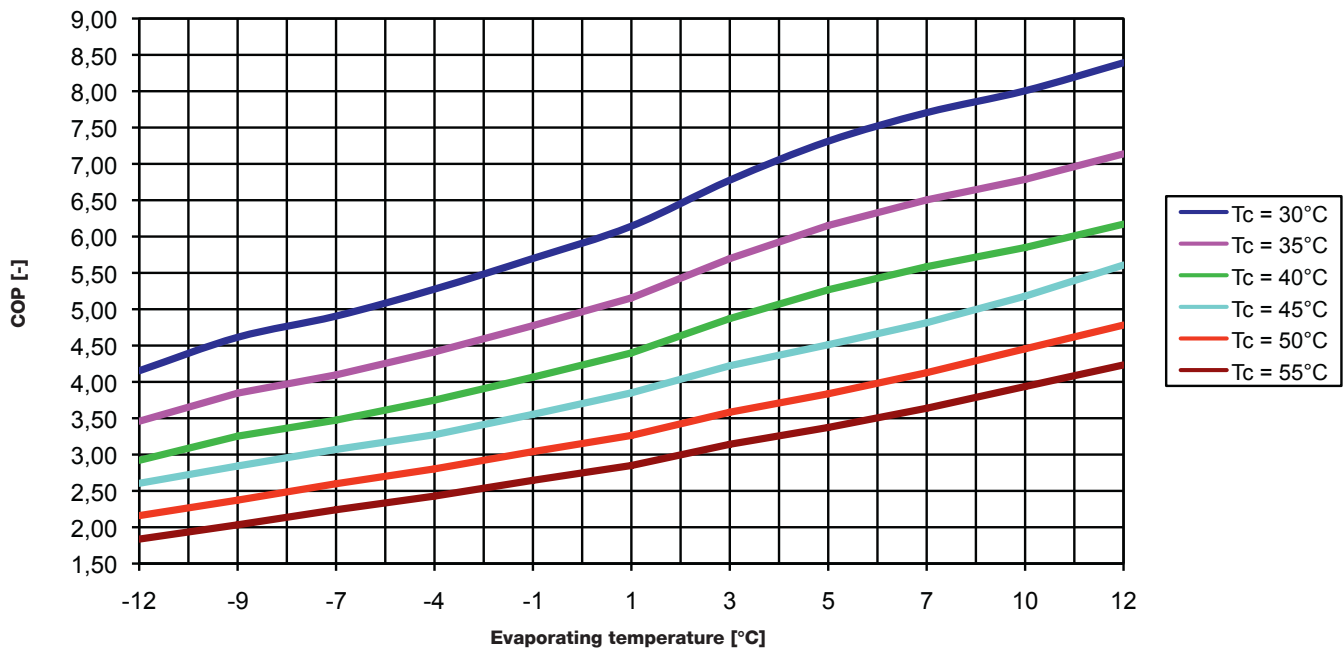
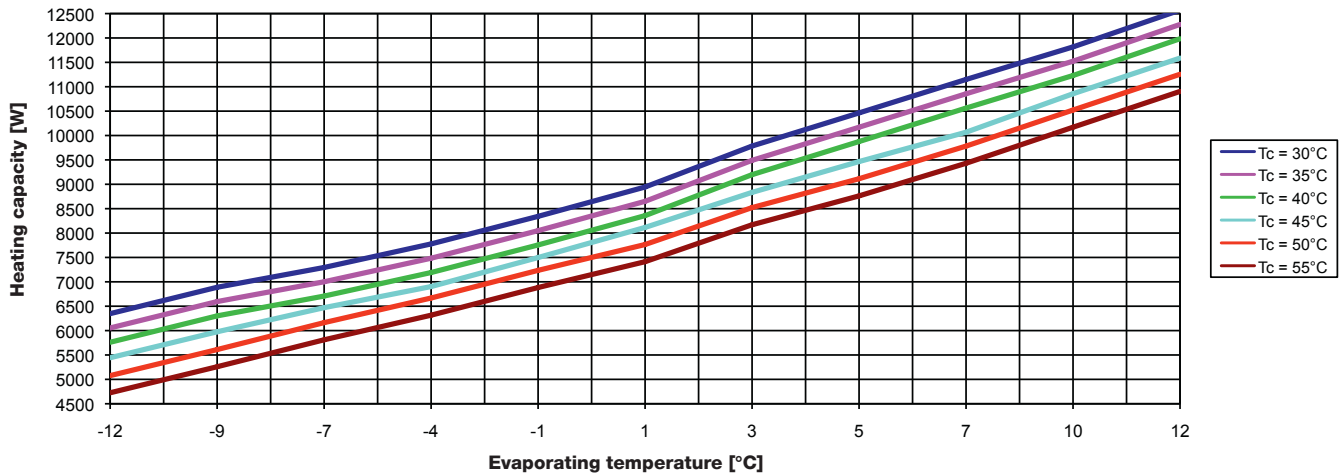
0,25 kW/person are to be calculated to the heating load for DHW preparation.

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

TECHNICAL DATA SHEET HP20S25W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 10 % Compressor Capacity

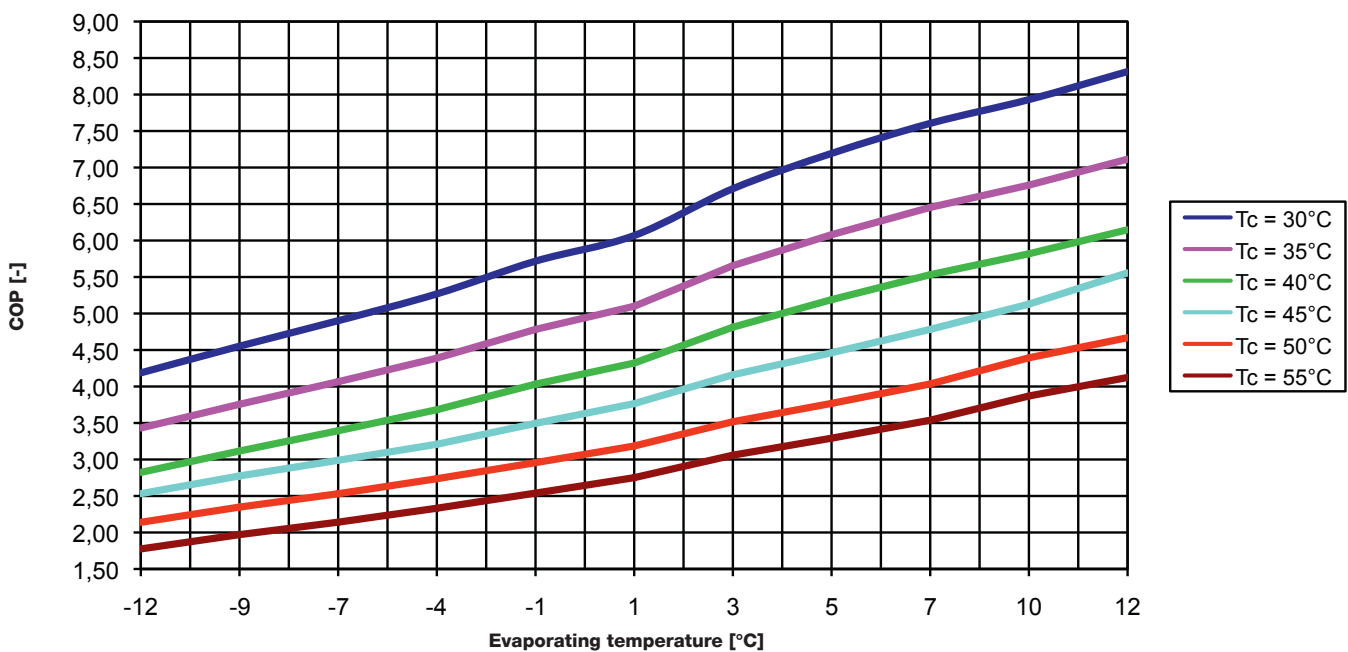
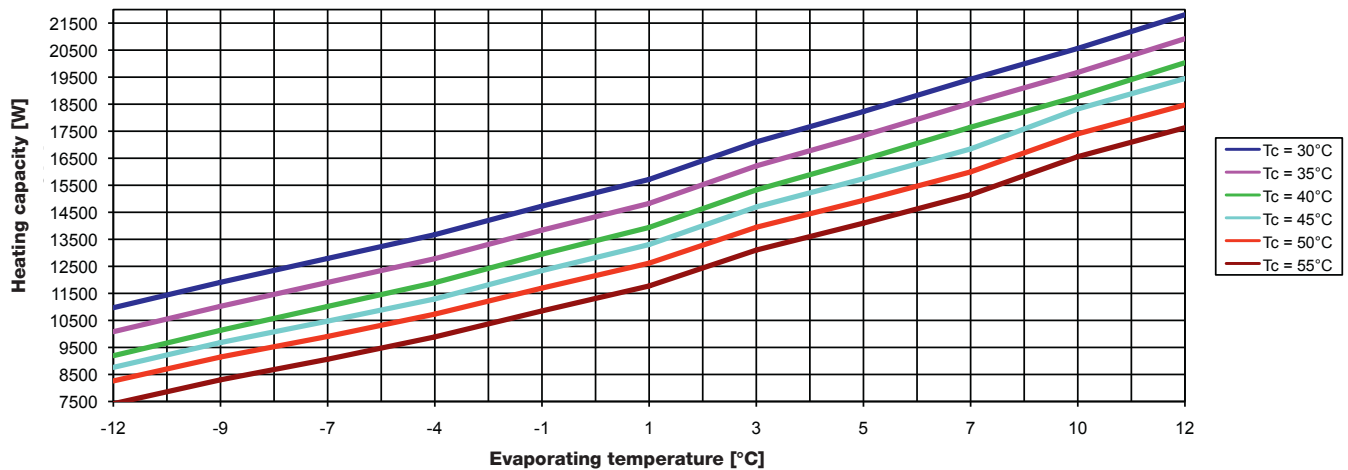


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.

TECHNICAL DATA SHEET HP20S25W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 30 % Compressor Capacity

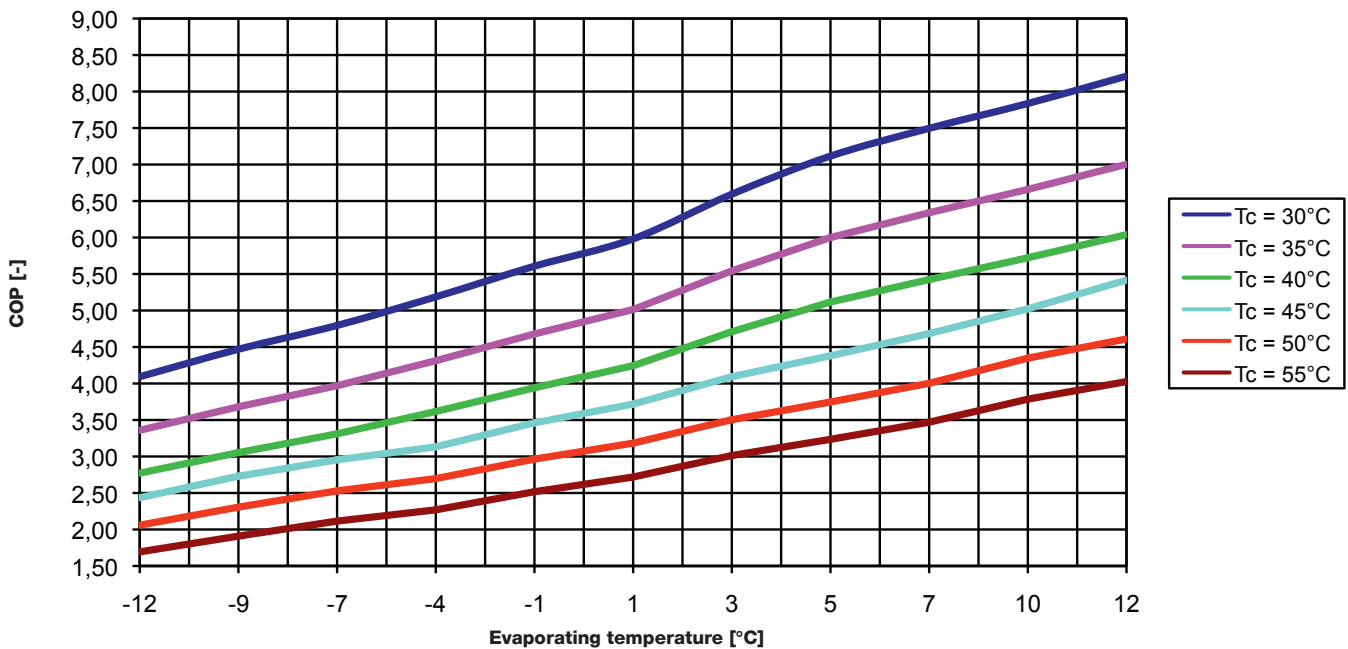
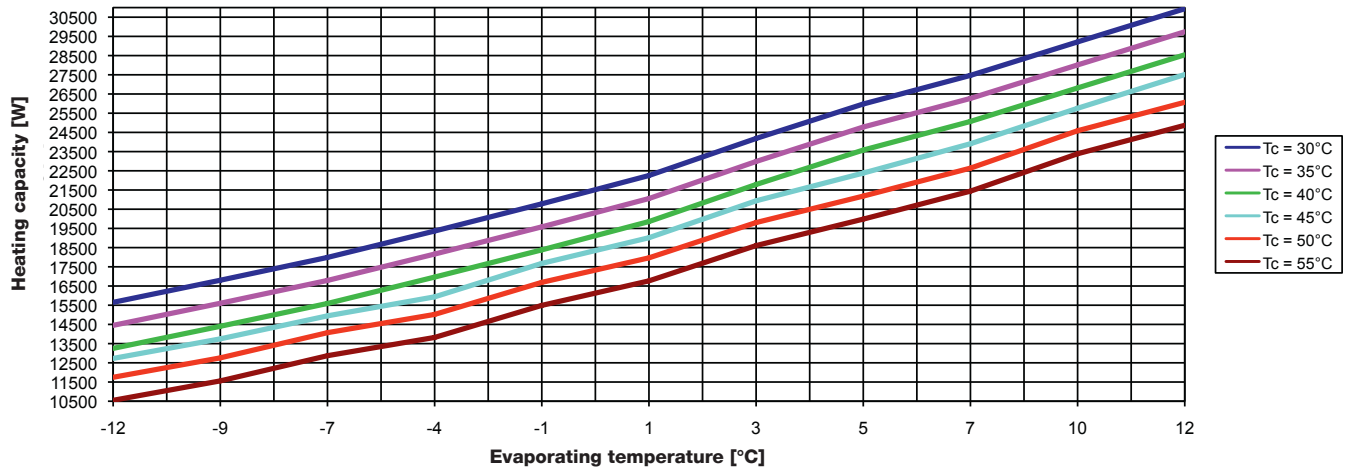


EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 14511.

TECHNICAL DATA SHEET HP20S25W-M-WEB, S VERSION

Ground Water Heat Pump, Modulating with Spiral Evaporator | WEB CONTROL Series

Performance Curve at 50 % Compressor Capacity



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN 15879-1.