



HELIO THERM HEAT PUMPS

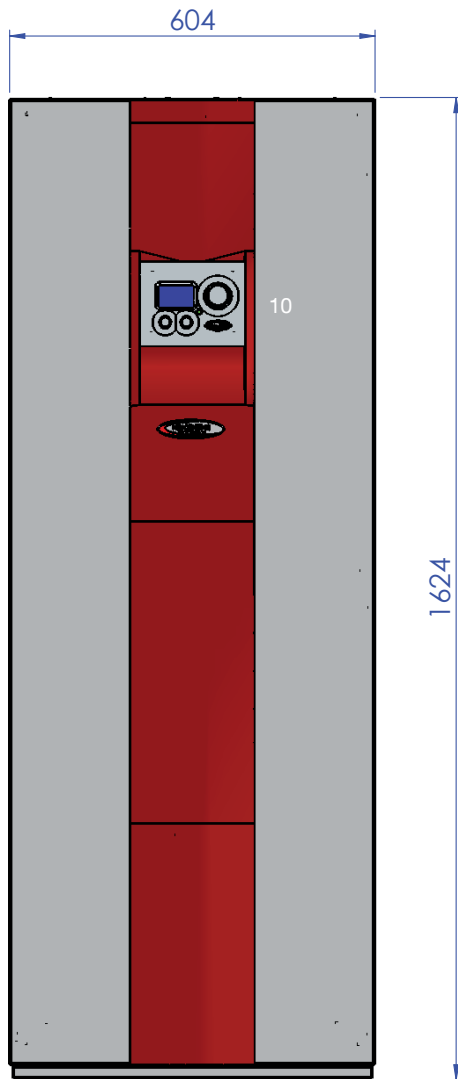
TECHNICAL DATA SHEETS

Brine Heat Pump
Basic Comfort Series

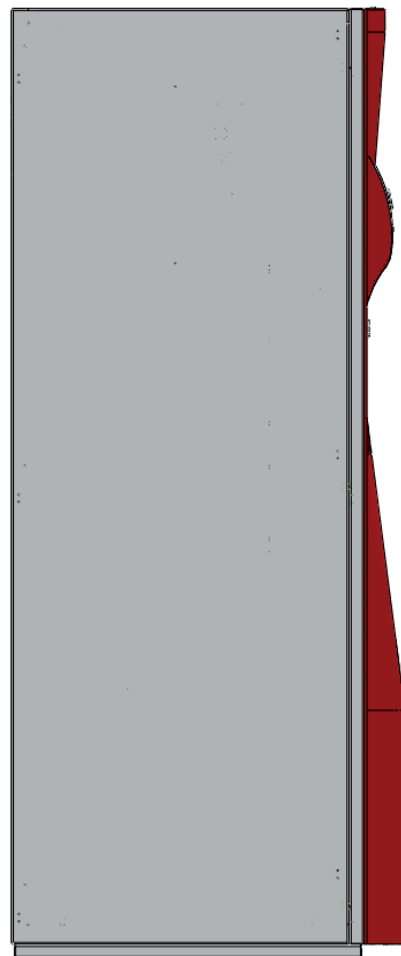


DIMENSIONS

Brine Heat Pump | Basic Comfort Series



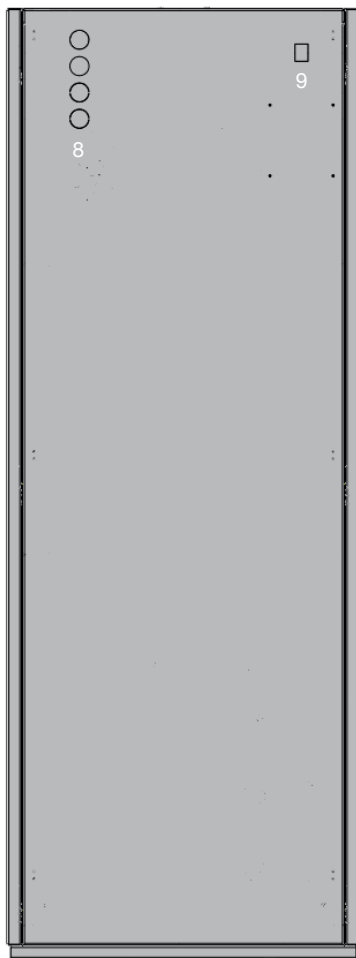
Front view



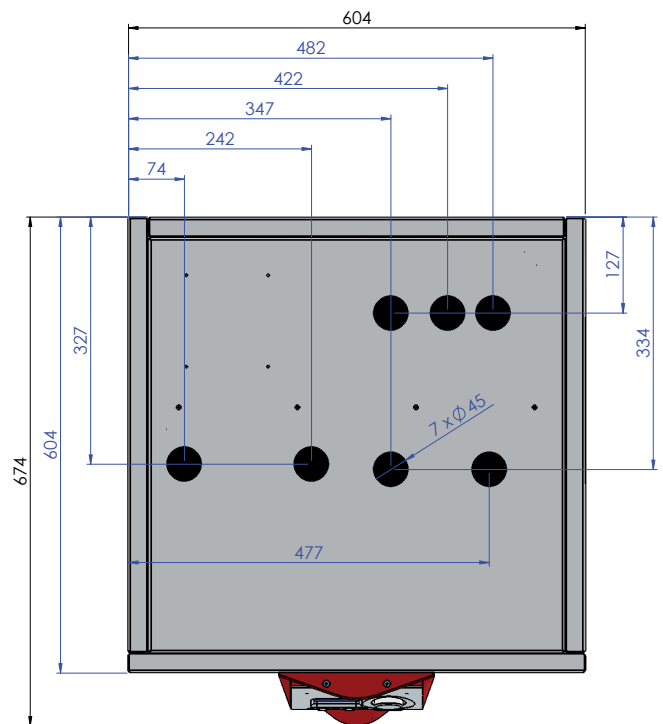
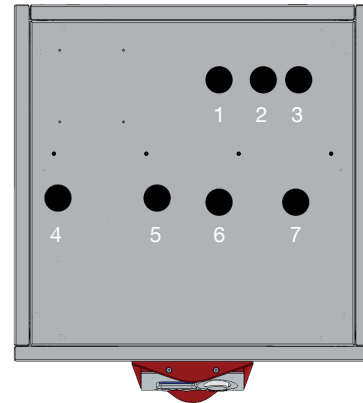
Side view

DIMENSIONS

Brine Heat Pump | Basic Comfort Series



Rear view



Dimensions (mm)

- 1 Inlet DHW - 1" ET
- 2 Brine outlet - 1" ET
- 3 -
- 4 Outlet heating - 1" ET
- 5 Outlet DHW - 1" ET
- 6 Inlet heating - 1" ET
- 7 Brine inlet - 1" ET
- 8 Cable feedthrough
- 9 On/Off switch
- 10 Control unit

TECHNICAL DATA SHEET HP06S08W-K-BC

Brine Heat Pump | Basic Comfort Series

Performance data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	6,81 kW	5,68 kW
Cooling capacity	5,34 kW	3,68 kW
Input	1,47 kW	1,99 kW
COP	4,62	2,85

Performance data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	6,64 kW	5,59 kW
Cooling capacity	5,12 kW	3,54 kW
Input	1,52 kW	2,05 kW
COP	4,38	2,72

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	3,0 kW
Stall current	32 A
Oil amount	1,3 l

Evaporator / Energy source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow amount	2,0 m ³ /h
Pressure loss	1,9 mWs
Temperature difference	4 K
Operating pressure*	0,39 bar
Tested pressure	45 bar

Condenser & subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow amount	1,2 m ³ /h
Pressure loss	0,9 mWs
Temperature difference	5 K
Operating pressure*	0,51 bar
Tested pressure	45 bar

Refrigerant cycle	
Working fluid	R410a
Fill amount	3,6 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	45 dB(A)

Hydraulic block	
Heating pump	WILO Stratos Para 25/1-7
Brine pump	WILO Stratos Para 25/1-7

Connections, dimensions		
Heating inlet and outlet	1"	ET
Energy source in / out	1"	mm
Height x Width x Depth	1.625x604x674	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 = Brine temperature in °C

W = Heating water temperature in °C

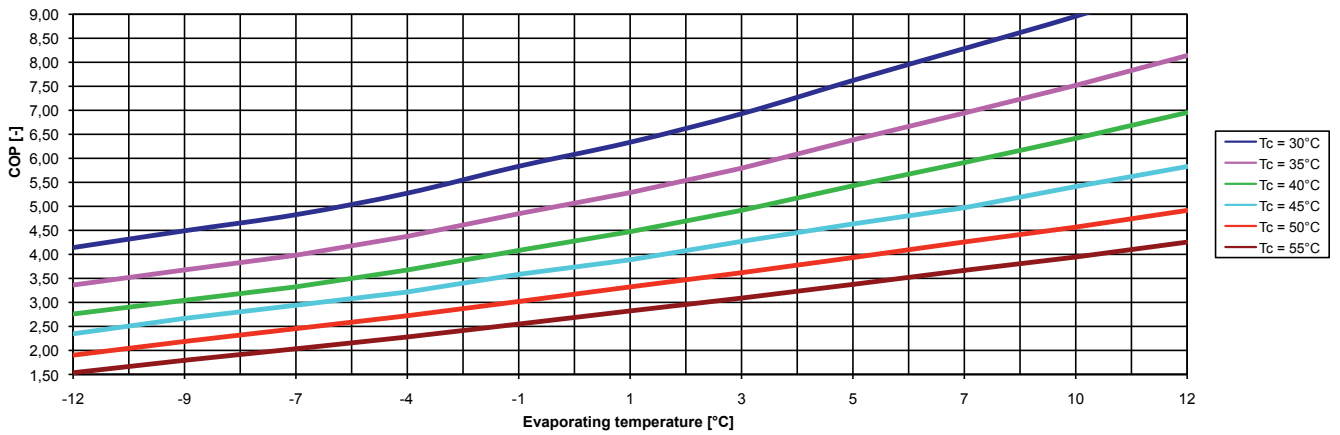
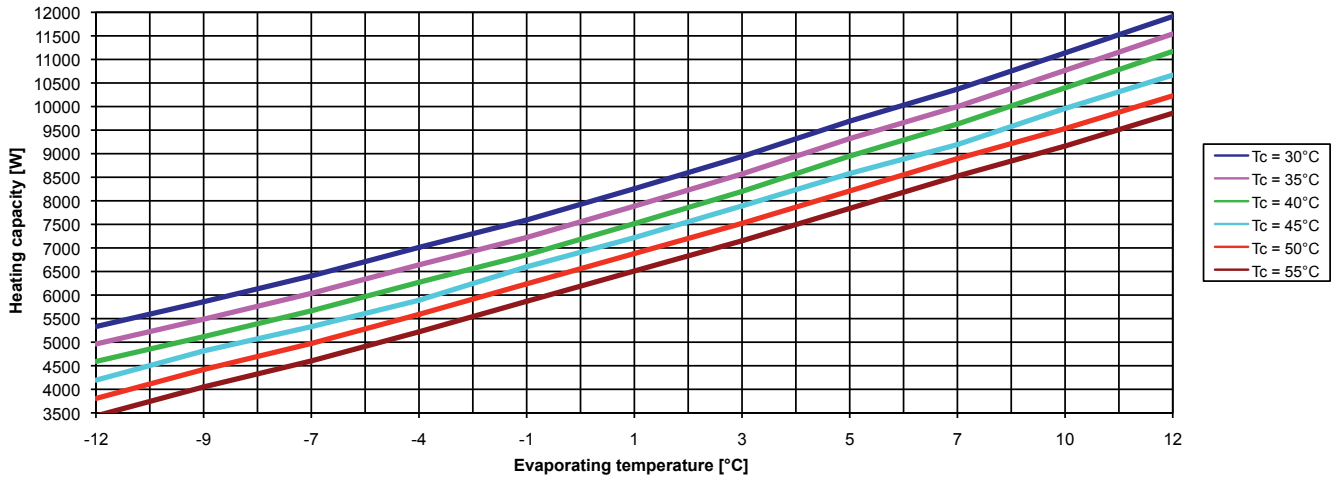
* In conjunction with a Heliotherm hydraulic block.

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

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

TECHNICAL DATA SHEET HP06S08W-K-BC

Brine Heat Pump | Basic Comfort Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN14511.

TECHNICAL DATA SHEET HP08S10W-K-BC

Brine Heat Pump | Basic Comfort Series

Performance data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	8,20 kW	6,75 kW
Cooling capacity	6,46 kW	4,47 kW
Input	1,73 kW	2,28 kW
COP	4,72	2,96

Performance data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	7,99 kW	6,64 kW
Cooling capacity	6,20 kW	4,29 kW
Input	1,79 kW	2,35 kW
COP	4,47	2,83

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	3,7 kW
Stall current	35 A
Oil amount	1,3 l

Evaporator / Energy source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow amount	2,4 m ³ /h
Pressure loss	2,1 mWs
Temperature difference	4 K
Operating pressure*	0,31 bar
Tested pressure	45 bar

Condenser & subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow amount	1,6 m ³ /h
Pressure loss	1,5 mWs
Temperature difference	5 K
Operating pressure*	0,38 bar
Tested pressure	45 bar

Refrigerant cycle	
Working fluid	R410a
Fill amount	3,6 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	45 dB(A)

Hydraulic block	
Heating pump	WILO Stratos Para 25/1-7
Brine pump	WILO Stratos Para 25/1-7

Connections, dimensions		
Heating inlet and outlet	1"	ET
Energy source in / out	1"	mm
Height x Width x Depth	1.625x604x674	mm
Weight	180	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 = Brine temperature in °C

W = Heating water temperature in °C

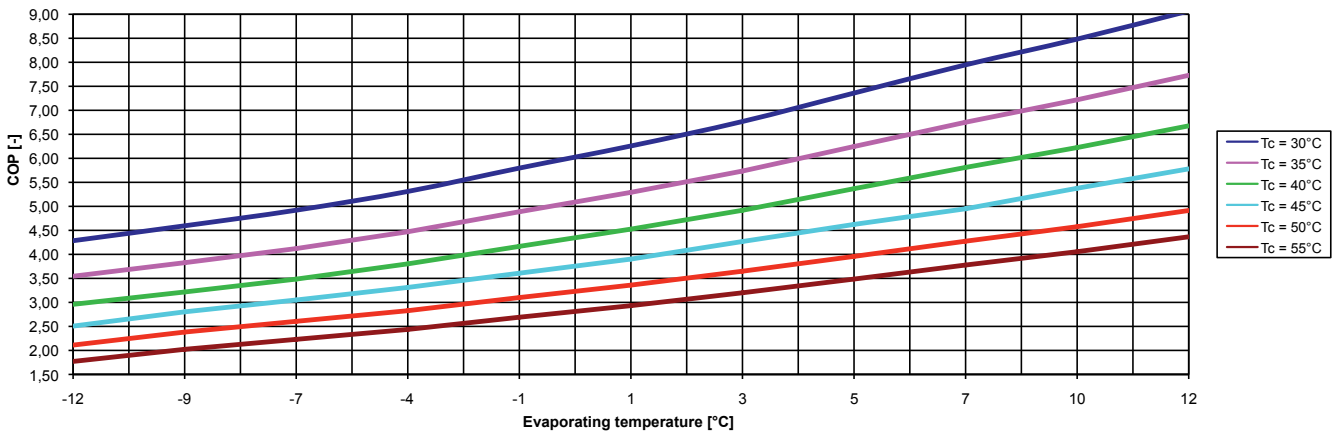
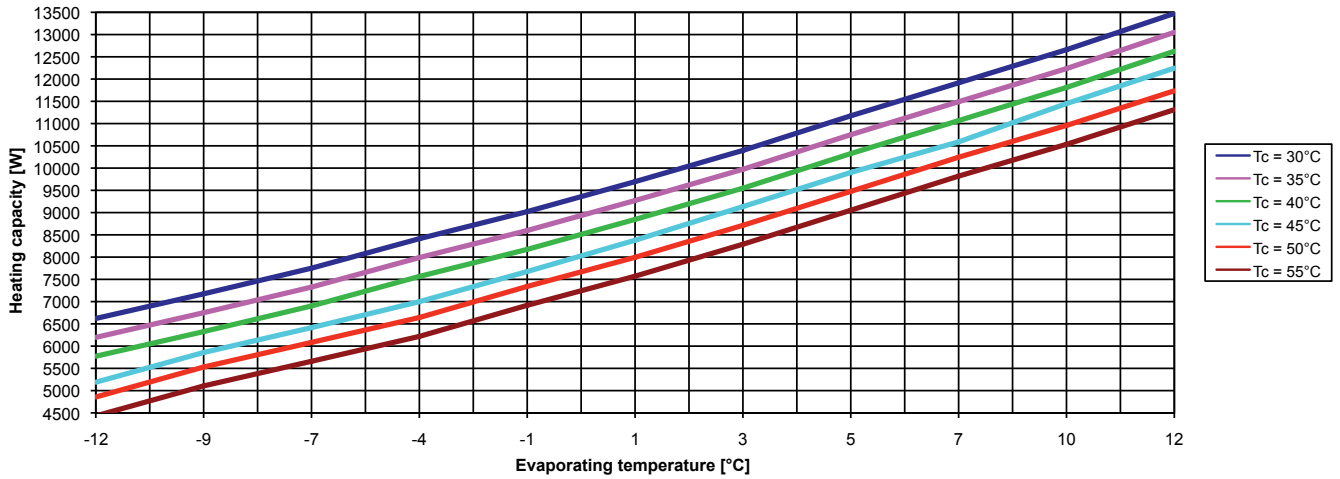
* In conjunction with a Heliotherm hydraulic block.

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

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

TECHNICAL DATA SHEET HP08S10W-K-BC

Brine Heat Pump | Basic Comfort Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN14511.

TECHNICAL DATA SHEET HP10S12W-K-BC

Brine Heat Pump | Basic Comfort Series

Performance data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	10,52 kW	8,68 kW
Cooling capacity	8,30 kW	5,77 kW
Input	2,22 kW	2,92 kW
COP	4,74	2,98

Performance data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	10,25 kW	8,54 kW
Cooling capacity	7,97 kW	5,54 kW
Input	2,29 kW	3,01 kW
COP	4,48	2,84

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	4,1 kW
Stall current	48 A
Oil amount	1,3 l

Evaporator / Energy source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow amount	3,1 m ³ /h
Pressure loss	2,5 mWs
Temperature difference	4 K
Operating pressure*	0,47 bar
Tested pressure	45 bar

Condenser & subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow amount	2,1 m ³ /h
Pressure loss	1,6 mWs
Temperature difference	5 K
Operating pressure*	0,31 bar
Tested pressure	45 bar

Refrigerant cycle	
Working fluid	R410a
Fill amount	3,6 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	45 dB(A)

Hydraulic block	
Heating pump	WILO Stratos Para 25/1-8
Brine pump	WILO Stratos Para 25/1-8

Connections, dimensions		
Heating inlet and outlet	1"	ET
Energy source in / out	1"	mm
Height x Width x Depth	1.625x604x674	mm
Weight	180	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 = Brine temperature in °C

W = Heating water temperature in °C

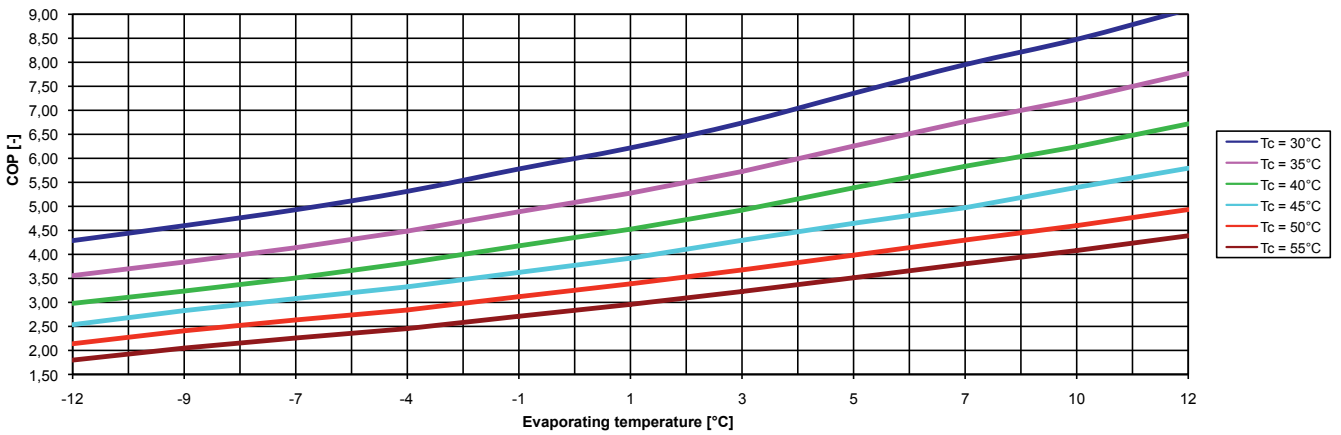
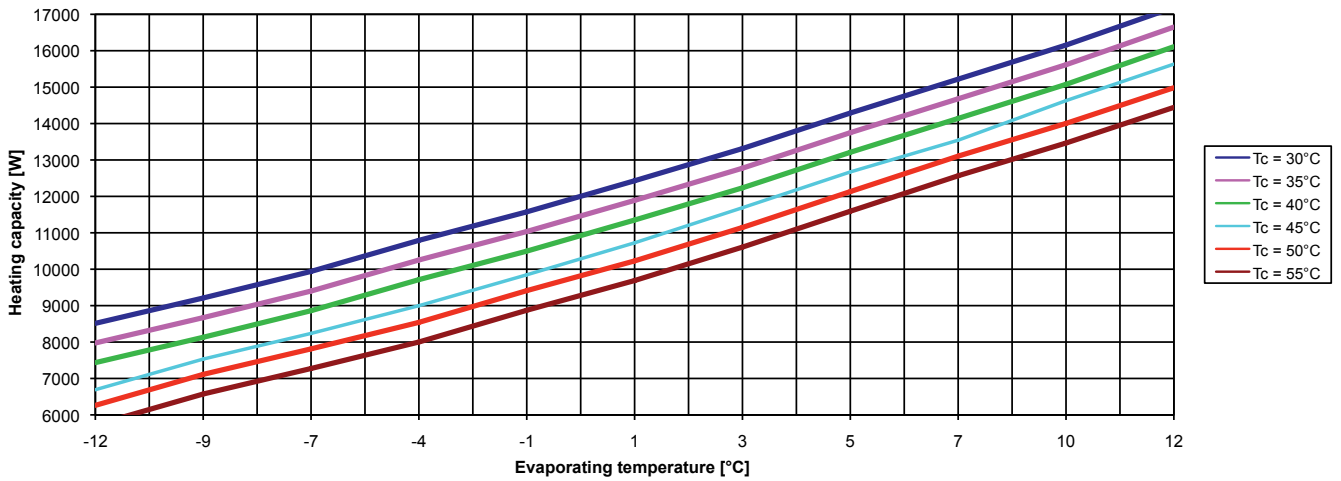
* In conjunction with a Heliotherm hydraulic block.

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

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TECHNICAL DATA SHEET HP10S12W-K-BC

Brine Heat Pump | Basic Comfort Series



EN 12900 tolerance results are valid for the above mentioned performance data.
All performance data is according to EN14511.

TECHNICAL DATA SHEET HP12S14W-K-BC

Brine Heat Pump | Basic Comfort Series

Performance data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	13,29 kW	10,95 kW
Cooling capacity	10,47 kW	7,24 kW
Input	2,83 kW	3,70 kW
COP	4,70	2,96

Performance data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	12,96 kW	10,77 kW
Cooling capacity	10,05 kW	6,95 kW
Input	2,91 kW	3,81 kW
COP	4,45	2,82

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	4,8 kW
Stall current	64 A
Oil amount	1,7 l

Evaporator / Energy source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow amount	3,5 m ³ /h
Pressure loss	3,0 mWs
Temperature difference	4 K
Operating pressure*	0,36 bar
Tested pressure	45 bar

Condenser & subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow amount	2,4 m ³ /h
Pressure loss	2,1 mWs
Temperature difference	5 K
Operating pressure*	0,46 bar
Tested pressure	45 bar

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	10 A
Starting current	64 A
Starting current with soft starter	42,6 A

Acoustic pressure level	
1 m distance	45 dB(A)

Hydraulic block	
Heating pump	WILO Stratos Para 25/1-8
Brine pump	WILO Stratos Para 25/1-8

Connections, dimensions		
Heating inlet and outlet	1"	ET
Energy source in / out	1"	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 = Brine temperature in °C

W = Heating water temperature in °C

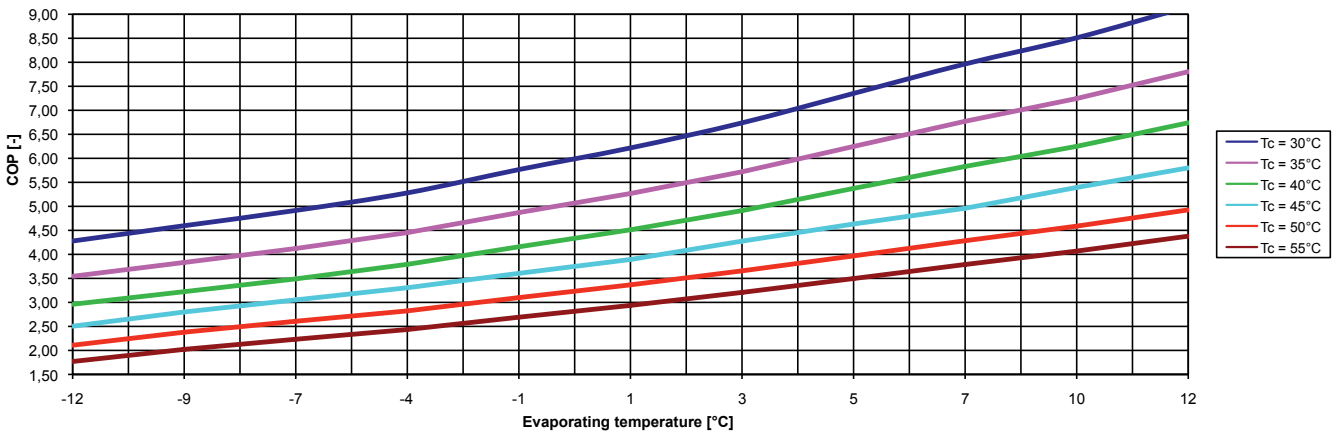
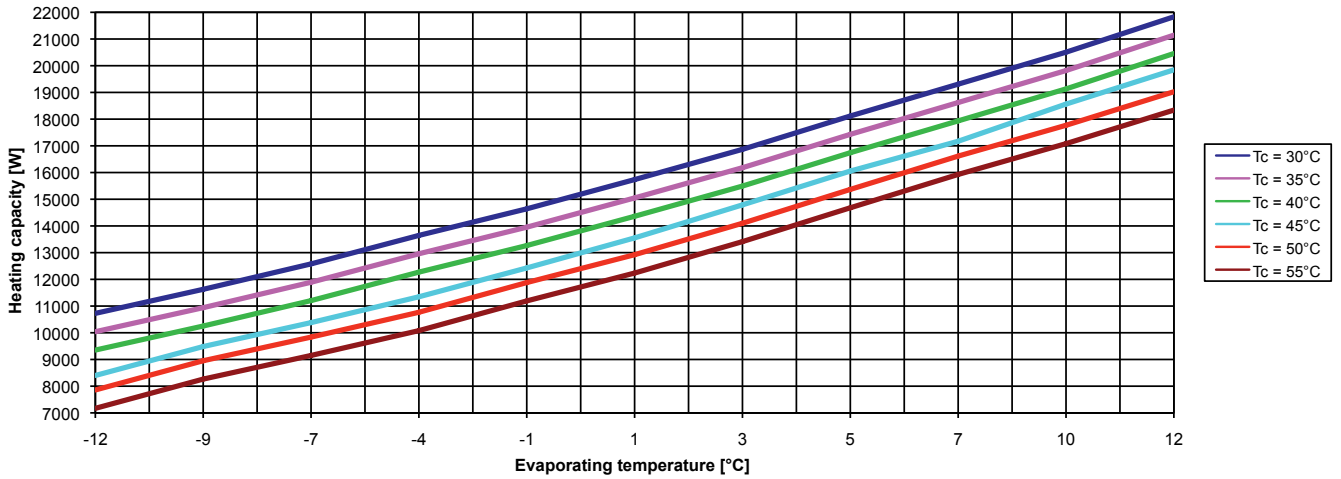
* In conjunction with a Heliotherm hydraulic block.

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

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TECHNICAL DATA SHEET HP12S14W-K-BC

Brine Heat Pump | Basic Comfort Series



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TECHNICAL DATA SHEET HPP14S16W-K-BC

Brine Heat Pump | Basic Comfort Series

Performance data ¹⁾ EN255 Δ 10 K		
	B0W35	B0W50
Heating capacity	16,82 kW	14,28 kW
Cooling capacity	13,29 kW	9,63 kW
Input	3,53 kW	4,66 kW
COP	4,77	3,07

Performance data ¹⁾ EN14511 Δ 5 K		
	B0W35	B0W50
Heating capacity	16,39 kW	14,04 kW
Cooling capacity	12,76 kW	9,24 kW
Input	3,63 kW	4,80 kW
COP	4,51	2,93

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	5,9 kW
Stall current	74 A
Oil amount	1,7 l

Evaporator / Energy source	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Brine flow amount	4,3 m ³ /h
Pressure loss	3,5 mWs
Temperature difference	4 K
Operating pressure*	0,73 bar
Tested pressure	45 bar

Condenser & subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Water flow amount	3,2 m ³ /h
Pressure loss	2,6 mWs
Temperature difference	5 K
Operating pressure*	0,38 bar
Tested pressure	45 bar

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 A
Starting current with soft starter	49,3 A

Acoustic pressure level	
1 m distance	46 dB(A)

Hydraulic block	
Heating pump	WILO Stratos Para 25/1-8
Brine pump	WILO Stratos Para 25/1-12

Connections, dimensions		
Heating inlet and outlet	1"	ET
Energy source in / out	1"	mm
Height x Width x Depth	1.625x604x674	mm
Weight	190	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 = Brine temperature in °C

W = Heating water temperature in °C

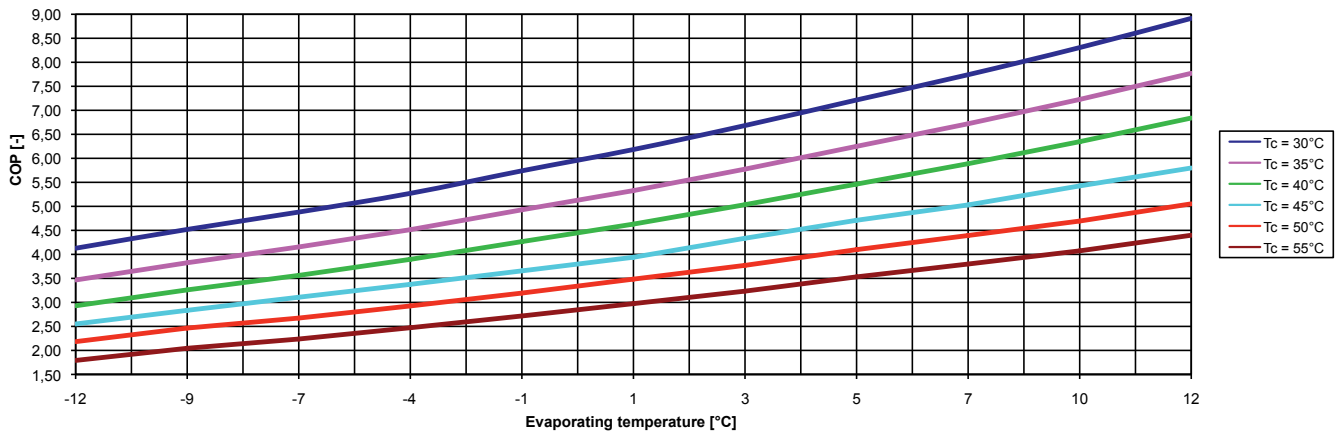
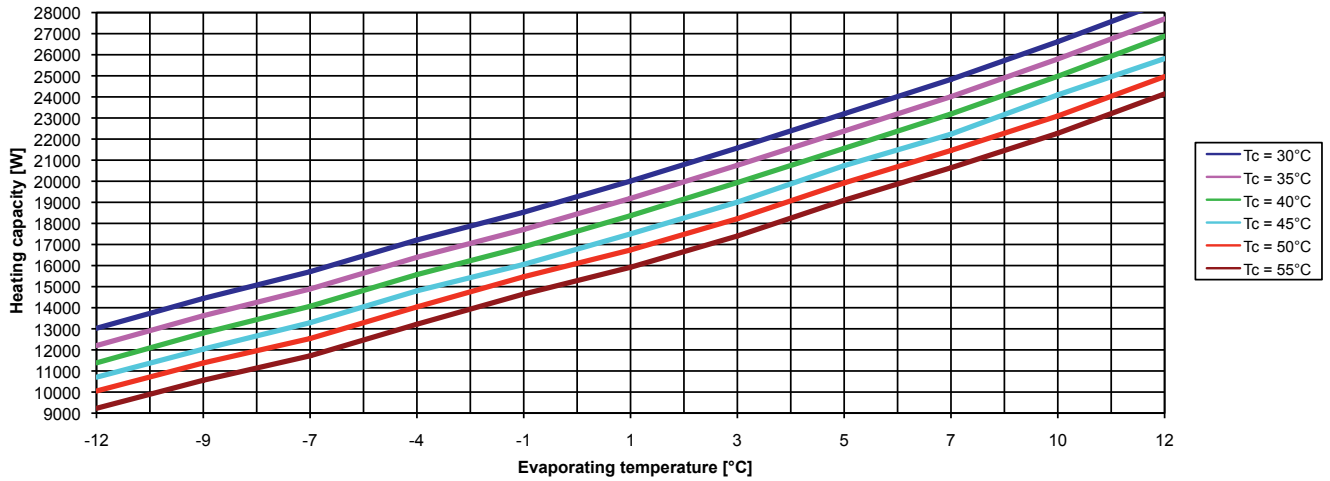
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0,25 kW/person are to be calculated to the heating load for DHW preparation.

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TECHNICAL DATA SHEET HPP14S16W-K-BC

Brine Heat Pump | Basic Comfort Series



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