



HELIOTHERM HEAT PUMPS

TECHNICAL DATA SHEETS

**Air Source Heat Pump - Compact Design
WEB CONTROL Series**



TECHNICAL DATA SHEET HP06L-K-WEB

Air Source Heat Pump - Compact Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	5,05 kW	6,34 kW	8,62 kW	5,68 kW
Cooling capacity	3,48 kW	4,74 kW	7,03 kW	3,52 kW
Input	1,56 kW	1,60 kW	1,59 kW	2,16 kW
COP	3,23	3,96	5,41	2,63

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	5,04 kW	6,30 kW	8,53 kW	5,70 kW
Cooling capacity	3,40 kW	4,62 kW	6,85 kW	3,44 kW
Input	1,64 kW	1,68 kW	1,67 kW	2,27 kW
COP	3,07	3,75	5,10	2,52

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	Finned evaporator
Material	Copper/Aluminium
Area	40 m ²
Air quantity	3.940 m ³ /h
Max. external static pressure loss	20 Pa
Fan input power	145 W
Fan	Axial
Application range	-15 °C/+ 30 °C
Tested pressure	30 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu
Water flow rate ²⁾	1,2 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	1,4 l
Tested pressure	45 bar

Refrigerant Cycle	
Working fluid	R410a
Fill amount	4,5 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	49 dB(A)

Connections, Dimensions	
Heating outlet and inlet	5/4" ET
Air duct: air supply / exhaust air	600 x 600 mm
Height x Width x Depth	1.700x790x690 mm
Weight	170 kg

Operating Limit Values	
Max. operating water pressure	10 bar
Max. operating refrigerant pressure	40 bar
Max. heat outlet temperature	60 °C at 0 °C OT

¹⁾ Performance specifications

A = Outdoor (air) temperature in °C
W = Heating water temperature in °C

Defrost loss has been calculated.

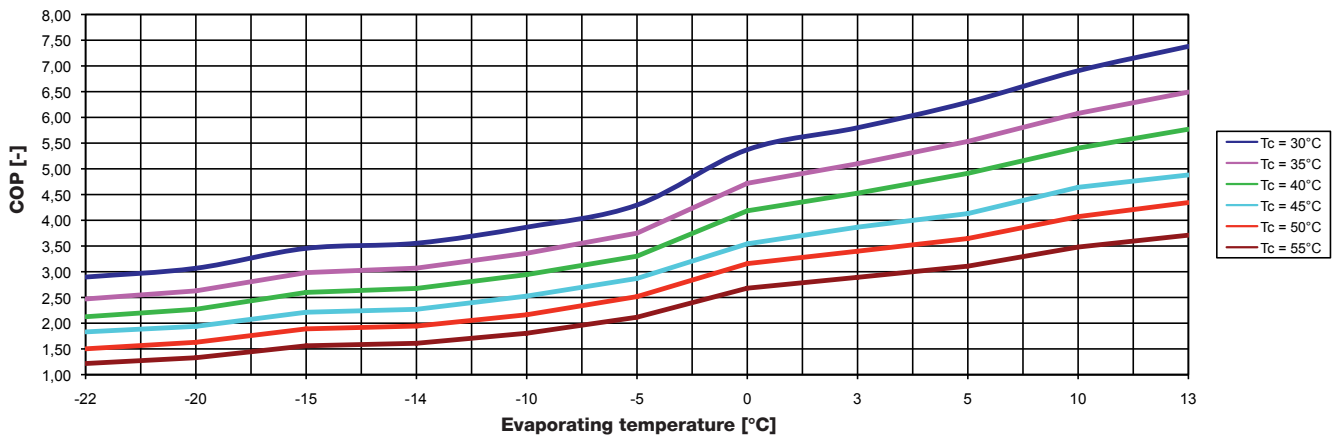
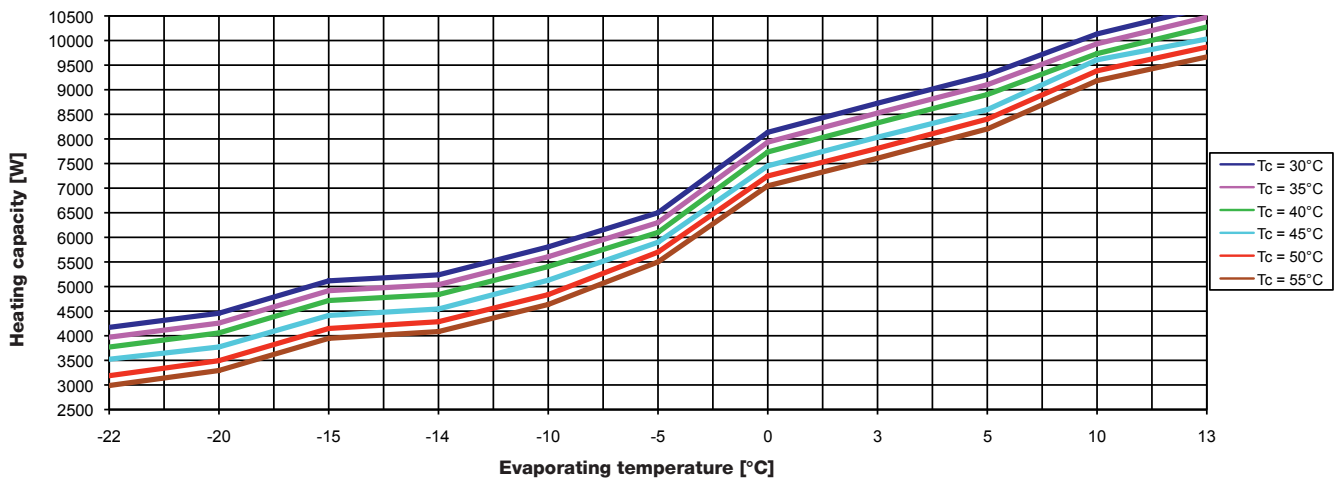
²⁾ Minimum flow must be observed!

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.

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Air Source Heat Pump - Compact Design | 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 HP08L-K-WEB

Air Source Heat Pump - Compact Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	5,63 kW	7,09 kW	9,56 kW	6,31 kW
Cooling capacity	3,87 kW	5,29 kW	7,78 kW	3,92 kW
Input	1,76 kW	1,80 kW	1,77 kW	2,38 kW
COP	3,20	3,94	5,39	2,65

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	5,62 kW	7,05 kW	9,45 kW	6,33 kW
Cooling capacity	3,77 kW	5,16 kW	7,59 kW	3,83 kW
Input	1,85 kW	1,89 kW	1,86 kW	2,50 kW
COP	3,04	3,73	5,08	2,53

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	Finned evaporator
Material	Copper/Aluminium
Area	40 m ²
Air quantity	3.940 m ³ /h
Max. external static pressure loss	20 Pa
Fan input power	145 W
Fan	Axial
Application range	-15 °C/+ 30 °C
Tested pressure	30 bar

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu
Water flow rate ²⁾	1,6 m ³ /h
Pressure loss	0,8 mWs
Temperature difference	5 K
Content	2 l
Tested pressure	45 bar

Refrigerant Cycle	
Working fluid	R410a
Fill amount	4,5 kg

Electric	
Voltage	400 V
Frequency	50 Hz
Time lag fuse	16 A
Max. compressor operating current	6,0 A
Starting current	35 A
Starting current with soft starter	23,3 A

Acoustic Pressure Level	
1 m distance	49 dB(A)

Connections, Dimensions	
Heating outlet and inlet	5/4" ET
Air duct: air supply / exhaust air	600 x 600 mm
Height x Width x Depth	1.700x790x690 mm
Weight	170 kg

Operating Limit Values	
Max. operating water pressure	10 bar
Max. operating refrigerant pressure	40 bar
Max. heat outlet temperature	60 °C at 0 °C OT

¹⁾ Performance specifications

A = Outdoor (air) temperature in °C
W = Heating water temperature in °C

Defrost loss has been calculated.

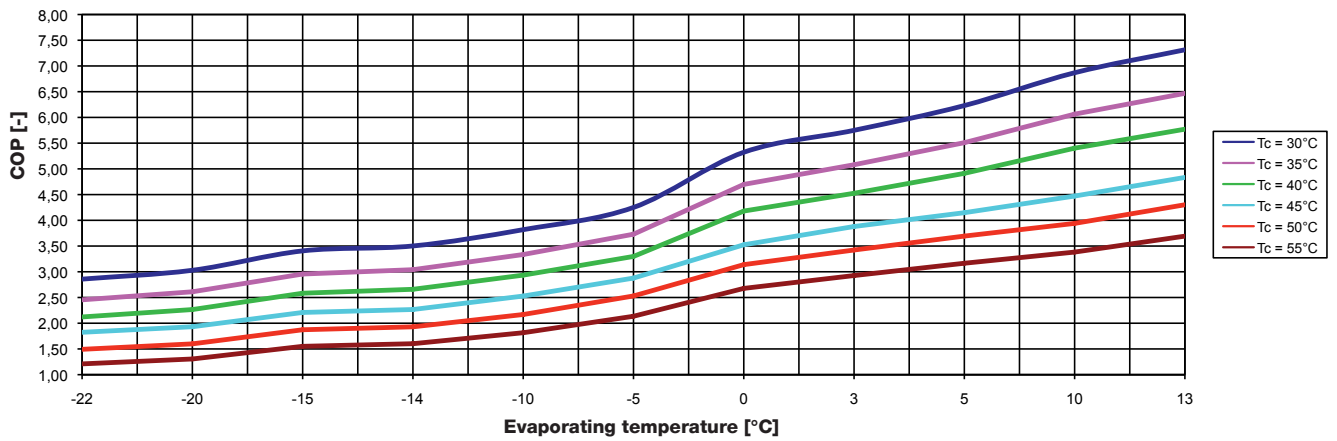
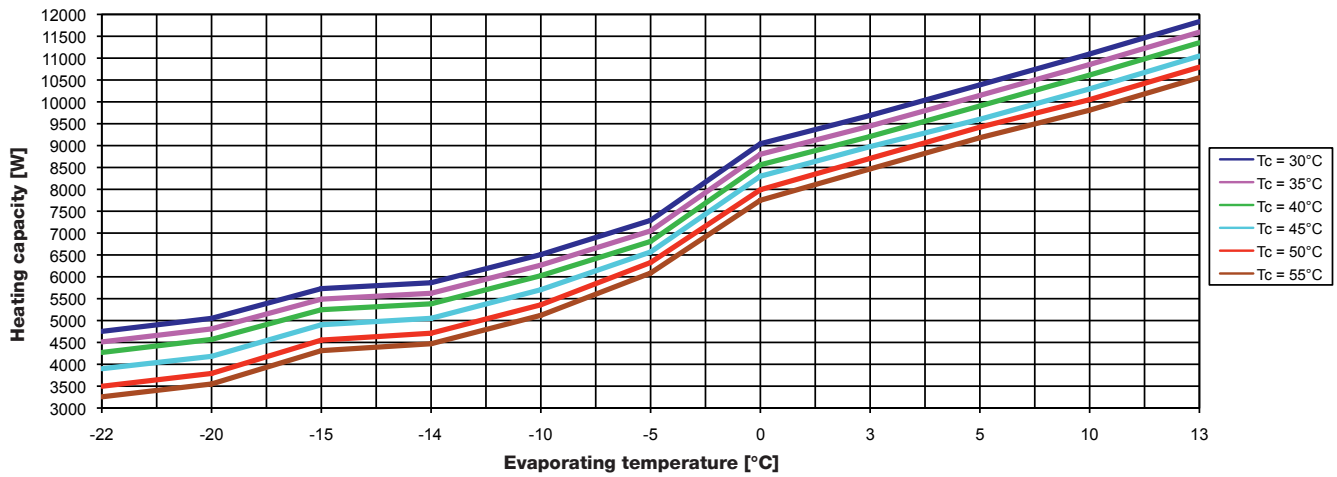
²⁾ Minimum flow must be observed!

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

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TECHNICAL DATA SHEET HP10L-K-WEB

Air Source Heat Pump - Compact Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	6,85 kW	8,60 kW	11,67 kW	7,47 kW
Cooling capacity	4,68 kW	6,40 kW	9,50 kW	4,58 kW
Input	2,17 kW	2,20 kW	2,17 kW	2,88 kW
COP	3,16	3,91	5,37	2,59

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	6,84 kW	8,55 kW	11,54 kW	7,50 kW
Cooling capacity	4,57 kW	6,24 kW	9,26 kW	4,47 kW
Input	2,28 kW	2,31 kW	2,28 kW	3,03 kW
COP	3,01	3,70	5,06	2,48

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	Finned evaporator
Material	Copper/Aluminium
Area	40 m ²
Air quantity	3.940 m ³ /h
Max. external static pressure loss	20 Pa
Fan input power	145 W
Fan	Axial
Application range	-15 °C/+ 30 °C
Tested pressure	30 bar

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

Refrigerant Cycle	
Working fluid	R410a
Fill amount	4,7 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	50 dB(A)

Connections, Dimensions	
Heating outlet and inlet	5/4" ET
Air duct: air supply / exhaust air	600 x 600 mm
Height x Width x Depth	1.700x790x690 mm
Weight	170 kg

Operating Limit Values	
Max. operating water pressure	10 bar
Max. operating refrigerant pressure	40 bar
Max. heat outlet temperature	60 °C at 0 °C OT

¹⁾ Performance specifications

A = Outdoor (air) temperature in °C
W = Heating water temperature in °C

Defrost loss has been calculated.

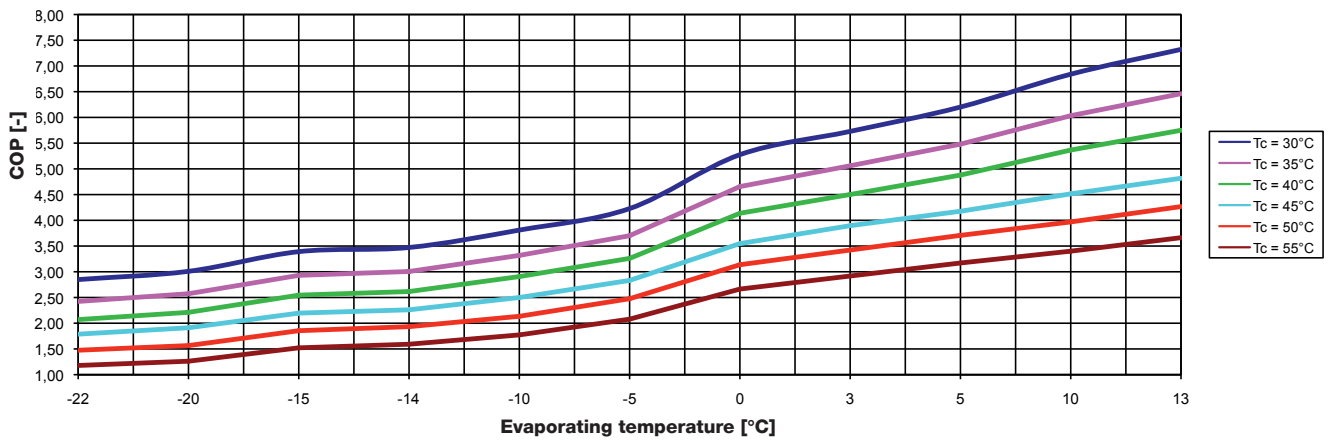
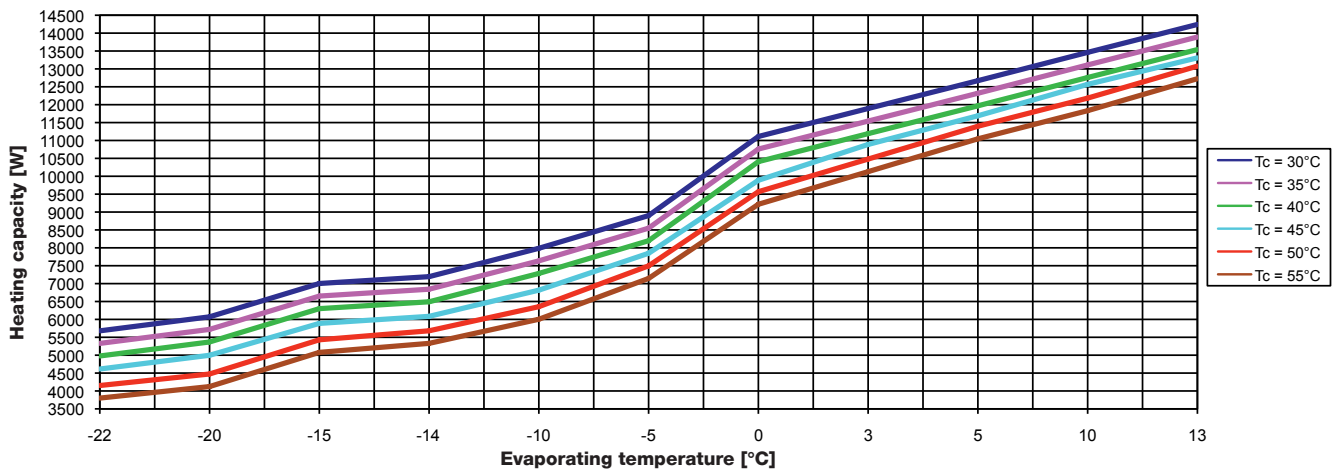
²⁾ Minimum flow must be observed!

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

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TECHNICAL DATA SHEET HP10L-K-WEB

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TECHNICAL DATA SHEET HP12L-K-WEB

Air Source Heat Pump - Compact Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	8,88 kW	11,26 kW	15,58 kW	9,81 kW
Cooling capacity	6,06 kW	8,36 kW	12,67 kW	6,09 kW
Input	2,82 kW	2,90 kW	2,91 kW	3,72 kW
COP	3,15	3,88	5,35	2,64

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	8,87 kW	11,20 kW	15,41 kW	9,84 kW
Cooling capacity	5,91 kW	8,15 kW	12,36 kW	5,94 kW
Input	2,96 kW	3,05 kW	3,06 kW	3,91 kW
COP	3,00	3,67	5,04	2,52

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	4,9 kW
Stall current	64 A
Oil amount	1,7 l

Evaporator / Energy Source	
Type	Finned evaporator
Material	Copper/Aluminium
Area	40 m ²
Air quantity	3.940 m ³ /h
Max. external static pressure loss	20 Pa
Fan input power	145 W
Fan	Axial
Application range	-15 °C/+ 30 °C
Tested pressure	30 bar

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

Refrigerant Cycle	
Working fluid	R410a
Fill amount	4,7 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	50 dB(A)

Connections, Dimensions	
Heating outlet and inlet	5/4" ET
Air duct: air supply / exhaust air	600 x 600 mm
Height x Width x Depth	1.700x790x690 mm
Weight	170 kg

Operating Limit Values	
Max. operating water pressure	10 bar
Max. operating refrigerant pressure	40 bar
Max. heat outlet temperature	60 °C at 0 °C OT

¹⁾ Performance specifications

A = Outdoor (air) temperature in °C
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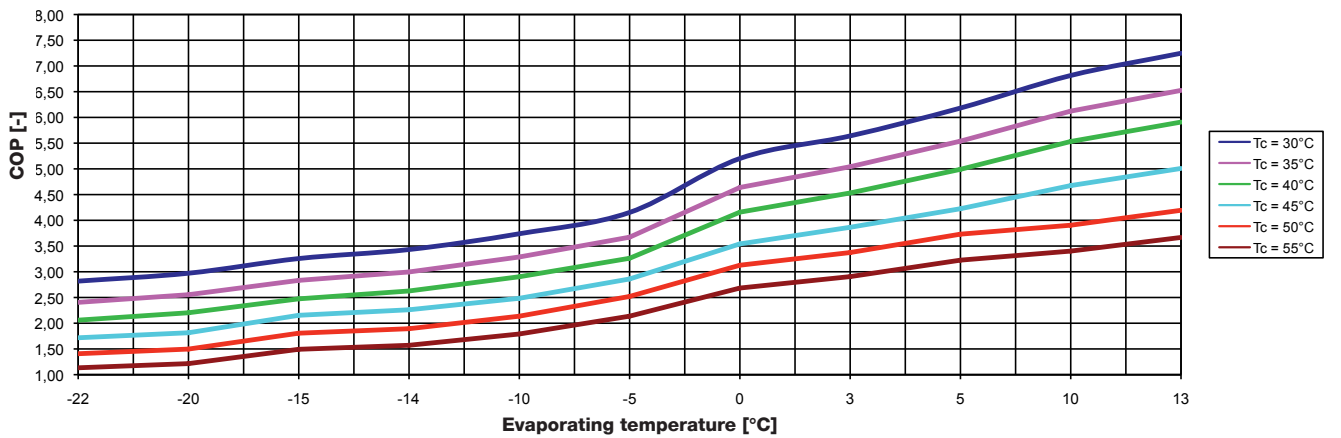
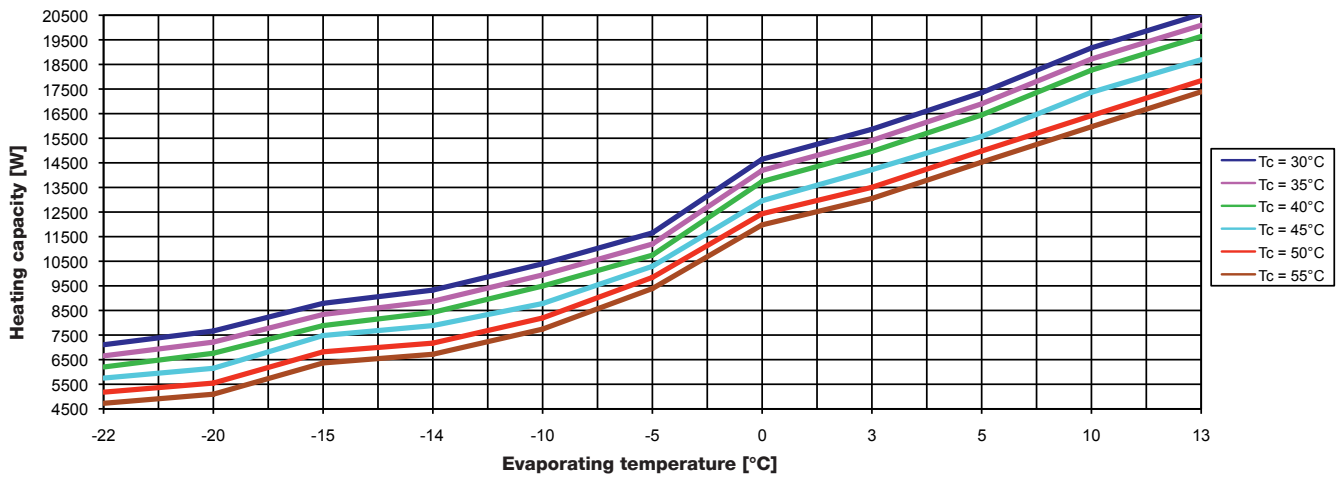
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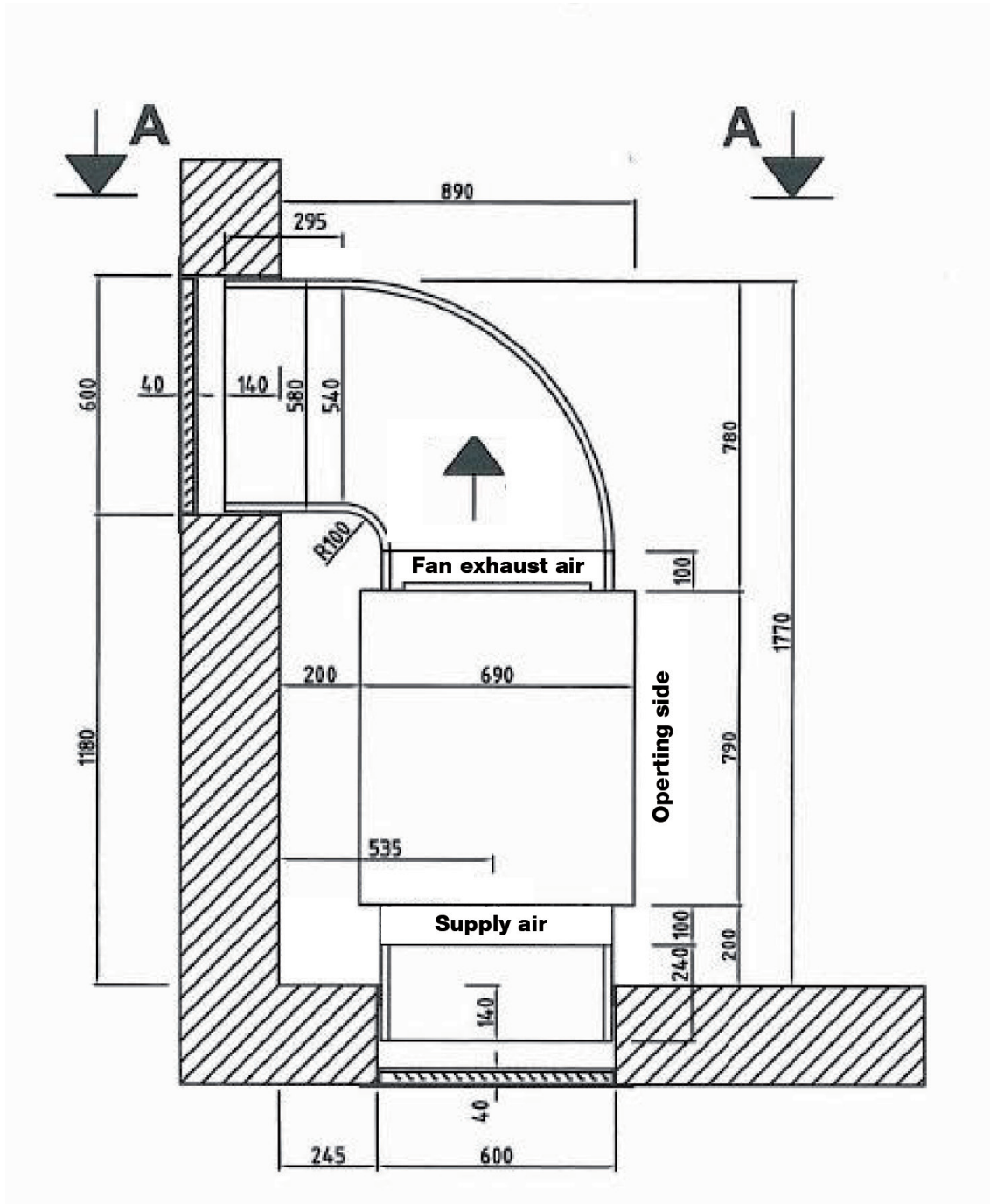
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AIR CANAL DIMENSIONING AND LAYOUT

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A:A FLANGE VIEW

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