



HELIOTHERM HEAT PUMPS

TECHNICAL DATA SHEETS

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



TECHNICAL DATA SHEET HP10L-WEB

Air Source Heat Pump - Split Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	7,72 kW	9,69 kW	12,77 kW	8,63 kW
Cooling capacity	5,52 kW	7,45 kW	10,50 kW	5,71 kW
Input	2,20 kW	2,24 kW	2,23 kW	2,91 kW
COP	3,51	4,32	5,73	2,96

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	7,98 kW	10,00 kW	13,14 kW	8,95 kW
Cooling capacity	5,63 kW	7,60 kW	10,76 kW	5,83 kW
Input	2,35 kW	2,40 kW	2,39 kW	3,12 kW
COP	3,39	4,17	5,51	2,87

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

Outdoor Evaporator (optional) / Energy Source
See data sheet HPLV10-W; HPLV10-F

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount ²⁾	2,1 m ³ /h
Pressure loss	1,0 mWs
Temperature difference	4 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ³⁾	
A30/W18	12,45 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount with 10 m split line	7,9 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
Pressure line / Suction line	12/22 mm
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	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!

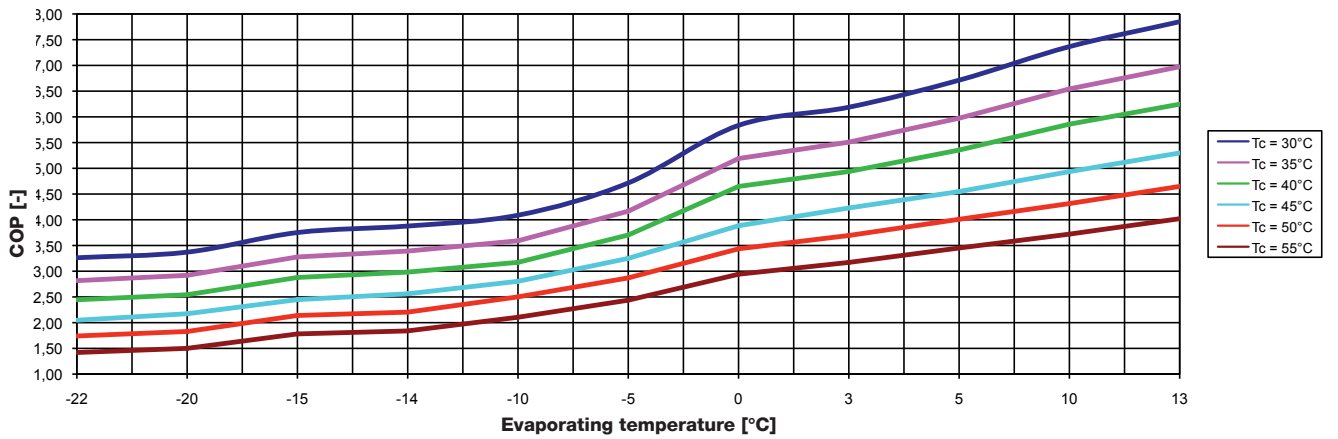
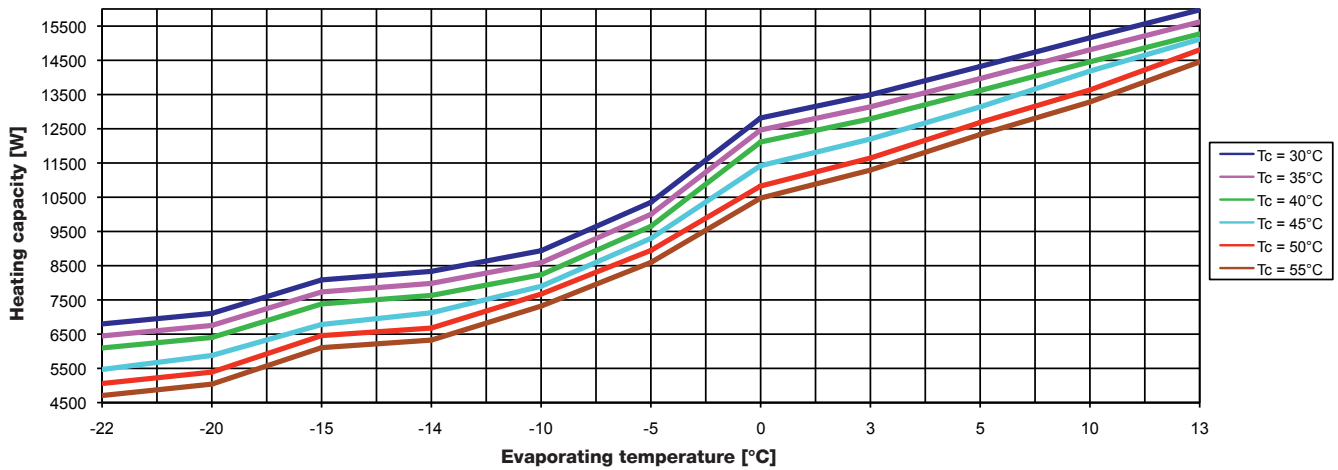
³⁾ Values given in counter-current flow in cooling mode.
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

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 HP10L-WEB

Air Source Heat Pump - Split 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 HP12L-WEB

Air Source Heat Pump - Split Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	9,60 kW	12,04 kW	16,01 kW	10,83 kW
Cooling capacity	6,83 kW	9,22 kW	13,21 kW	7,09 kW
Input	2,77 kW	2,82 kW	2,80 kW	3,74 kW
COP	3,47	4,27	5,72	2,90

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	9,93 kW	12,42 kW	16,47 kW	11,24 kW
Cooling capacity	6,97 kW	9,41 kW	13,48 kW	7,24 kW
Input	2,96 kW	3,02 kW	2,99 kW	4,00 kW
COP	3,35	4,12	5,50	2,81

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

Outdoor Evaporator (optional) / Energy Source
See data sheet HPLV12-W; HPLV12-F

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount ²⁾	2,6 m ³ /h
Pressure loss	1,5 mWs
Temperature difference	4 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ³⁾	
A30/W18	15,96 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount with 10 m split line	8,4 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
Pressure line / Suction line	12/22 mm
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	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!

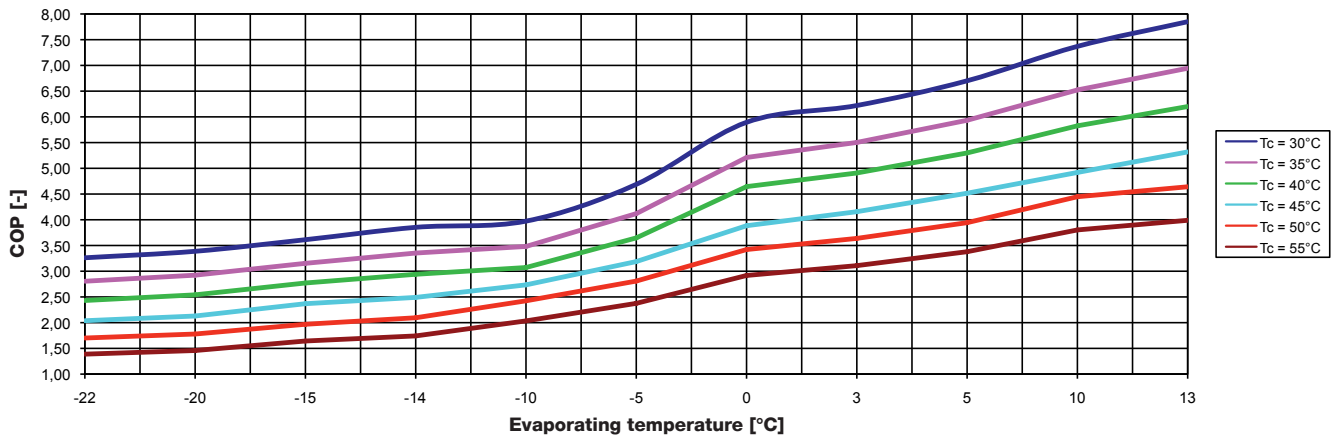
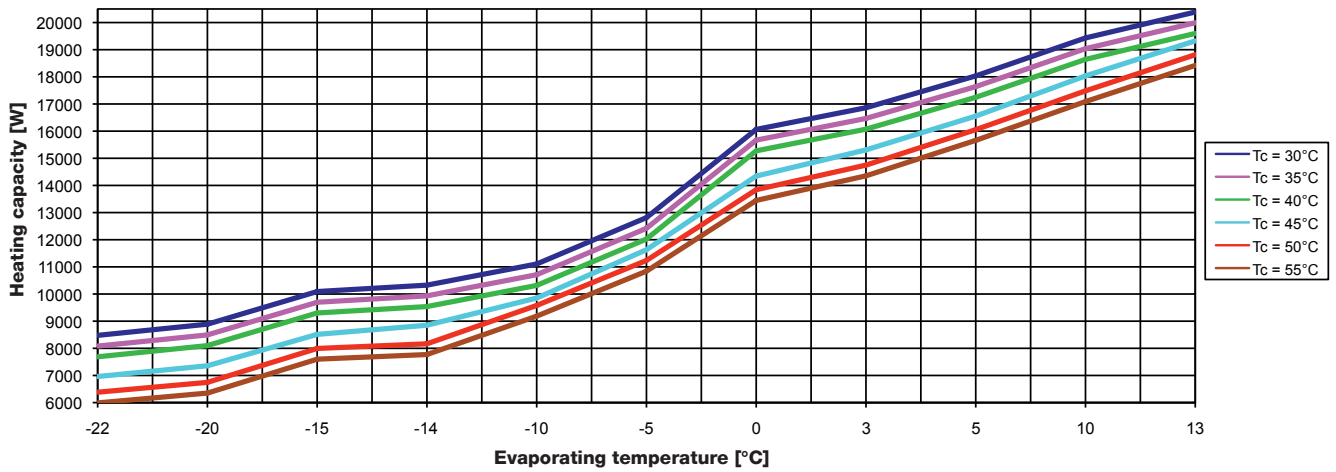
³⁾ Values given in counter-current flow in cooling mode.
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

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 HP12L-WEB

Air Source Heat Pump - Split 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 HP16L-WEB

Air Source Heat Pump - Split Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	11,78 kW	15,10 kW	20,26 kW	13,27 kW
Cooling capacity	8,33 kW	11,57 kW	16,71 kW	8,68 kW
Input	3,45 kW	3,53 kW	3,55 kW	4,60 kW
COP	3,41	4,27	5,71	2,89

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	12,19 kW	15,58 kW	20,84 kW	13,77 kW
Cooling capacity	8,50 kW	11,80 kW	17,05 kW	8,85 kW
Input	3,69 kW	3,78 kW	3,79 kW	4,92 kW
COP	3,30	4,12	5,49	2,80

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

Outdoor Evaporator (optional) / Energy Source
See data sheet HPLV16-W; HPLV16-F

Condenser & Subcooler / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount ²⁾	3,2 m ³ /h
Pressure loss	1,6 mWs
Temperature difference	4 K
Content	2,5 l
Tested pressure	45 bar

Cooling Capacity (optional) ³⁾	
A30/W18	20,69 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount with 10 m split line	9,8 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	50 dB(A)

Connections, Dimensions	
Heating outlet and inlet	5/4" ET
Pressure line / Suction line	12/22 mm
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	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!

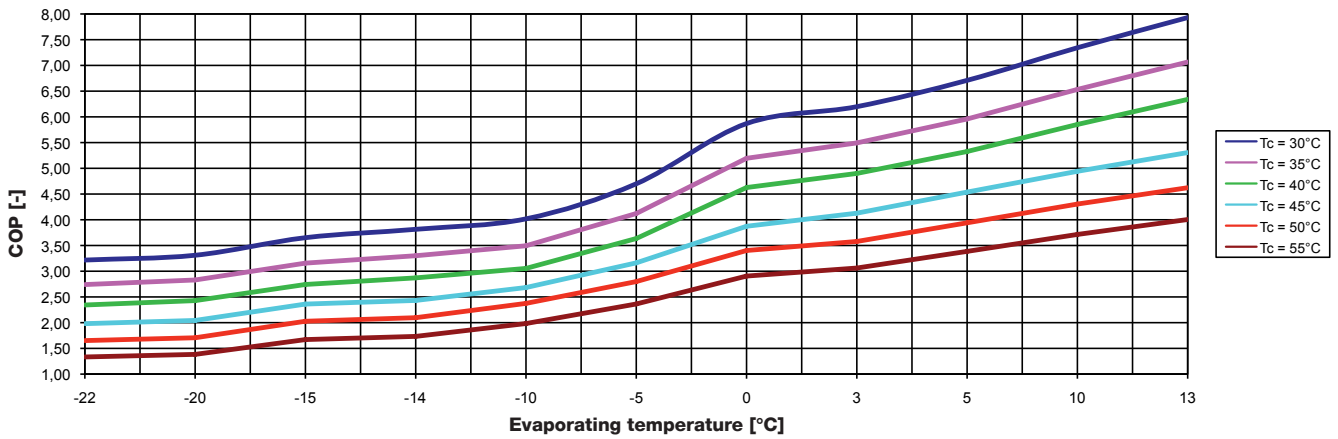
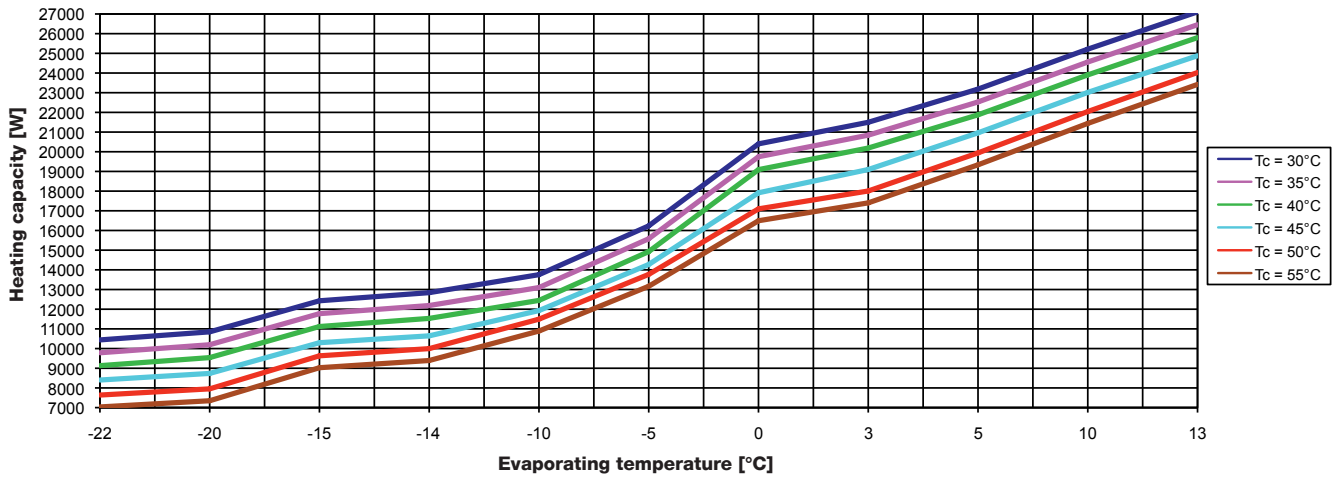
³⁾ Values given in counter-current flow in cooling mode.
Values in (DC) direct current flow minimizes cooling capacity by about 50 %.

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 HP16L-WEB

Air Source Heat Pump - Split 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 HP20L-WEB

Air Source Heat Pump - Split Design | WEB CONTROL Series

Performance Data ¹⁾ EN255 Δ 10 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	15,32 kW	19,19 kW	24,98 kW	17,66 kW
Cooling capacity	10,83 kW	14,69 kW	20,49 kW	11,50 kW
Input	4,49 kW	4,50 kW	4,53 kW	6,16 kW
COP	3,41	4,26	5,51	2,87

Performance Data ¹⁾ EN14511 Δ 5 K				
	A-7W35	A2W35	A10W35	A2W50
Heating capacity	15,86 kW	19,80 kW	25,71 kW	18,32 kW
Cooling capacity	11,05 kW	14,98 kW	20,86 kW	11,73 kW
Input	4,81 kW	4,82 kW	4,85 kW	6,59 kW
COP	3,30	4,11	5,30	2,78

Compressor	
Type	Scroll
Speed RPM	2900 min ⁻¹
Max. input power	8,5 kW
Stall current	95 A
Oil amount	2,5 l

Outdoor Evaporator (optional) / Energy Source
See data sheet HPLV20-W; HPLV20-F

Condenser / Heating	
Type	Plate heat exchanger
Material	Stainless steel / Cu soldered
Flow amount ²⁾	4,4 m ³ /h
Pressure loss	2,1 mWs
Temperature difference	4 K
Content	3 l
Tested pressure	45 bar

Cooling Capacity (optional) ³⁾	
A30/W18	24,89 kW

Refrigerant Cycle	
Working fluid	R410a
Fill amount with 10 m split line	10,8 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	16/28 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	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.

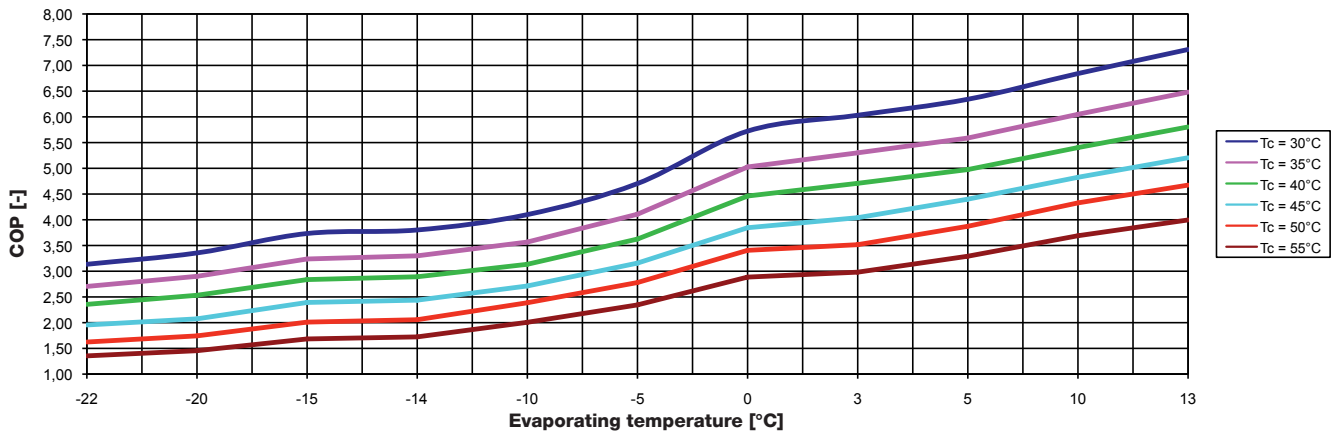
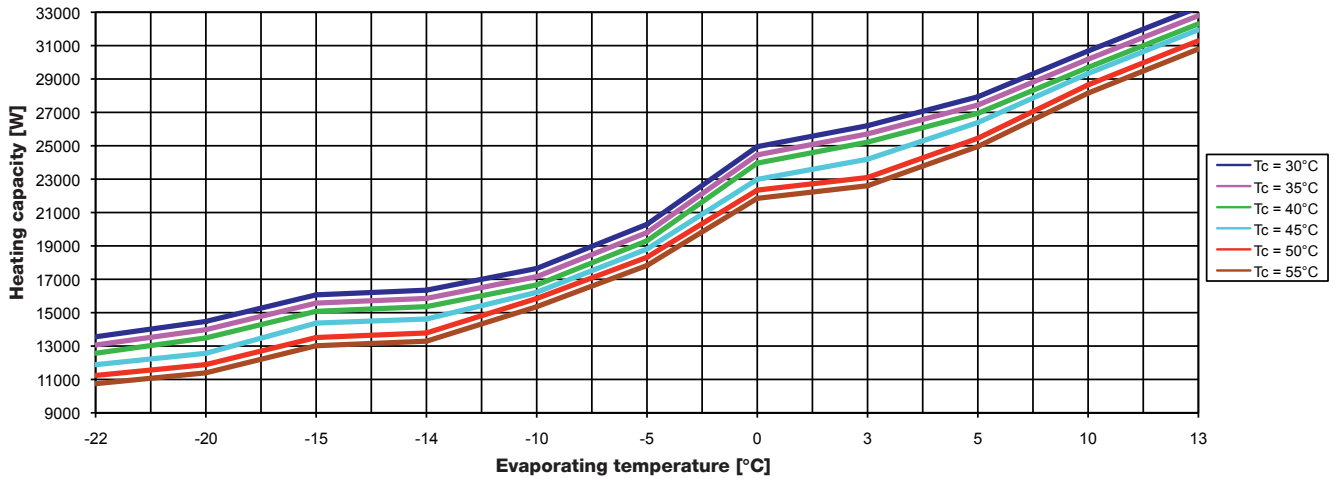
²⁾ Minimum flow must be observed!

³⁾ 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 HP20L-WEB

Air Source Heat Pump - Split 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 HPLV10/12-W

Outdoor Evaporator Wall Mounted Unit, Air Source Heat Pump - Split Design | WEB CONTROL Series

General	
Type	Finned evaporator
Material	Copper/aluminium
Amount	1
Area	80 m ²
Air quantity	5500 m ³ /h
Max. ext. static pressure loss	15 Pa
Ventilator	Axial
Range of use	-15 °C/+30 °C
Tested pressure	30 bar
Speed RPM	530 U/min
Nitrogen pressure	10 bar

Weight	
HPLV10/12-W	92 kg

Refrigerant Cycle	
Working fluid	R410a
Max. operating refrigerant pressure	27 bar

Electric	
Voltage	400 V
Frequency	50 Hz
Power consumption	0,38 A
Ventilator input	190 W
Fuse	Thermal relays

Acoustic Pressure Level	
1 m distance	50 dB(A)
5 m distance	43 dB(A)
10 m distance	35 dB(A)

Connections, Dimensions	
Pressure line / Suction line	12/28 mm

Dimensions (in mm)
 1 Pressure gas line
 2 Suction line
 3 Electrical connections



TECHNICAL DATA SHEET HPLV16/20-W

Outdoor Evaporator Wall Mounted Unit, Air Source Heat Pump - Split Design | WEB CONTROL Series

General	
Type	Finned evaporator
Material	Copper/aluminium
Amount	1
Area	100 m ²
Air quantity	5500 m ³ /h
Max. ext. static pressure loss	15 Pa
Ventilator	Axial
Range of use	-15 °C/+30 °C
Tested pressure	30 bar
Speed RPM	530 U/min
Nitrogen pressure	10 bar

Weight	
HPLV16/20-W	100 kg

Refrigerant Cycle	
Working fluid	R410a
Max. operating refrigerant pressure	27 bar

Electric	
Voltage	400 V
Frequency	50 Hz
Power consumption	0,38 A
Ventilator input	190 W
Fuse	Thermal relays

Acoustic Pressure Level	
1 m distance	50 dB(A)
5 m distance	43 dB(A)
10 m distance	35 dB(A)

Connections, Dimensions	
Pressure line / Suction line	12/28 mm

Dimensions (in mm)
 1 Pressure gas line
 2 Suction line
 3 Electrical connections



TECHNICAL DATA SHEET HPLV10/12-F

Outdoor Evaporator Standing Unit, Air Source Heat Pump - Split Design | WEB CONTROL Series

General	
Type	Finned evaporator
Material	Copper/aluminium
Amount	1
Area	80 m ²
Air quantity	5500 m ³ /h
Max. ext. static pressure loss	15 Pa
Ventilator	Axial
Range of use	-15 °C/+30 °C
Tested pressure	30 bar
Speed RPM	530 U/min
Nitrogen pressure	10 bar

Weight	
HPLV10/12-F	150 kg

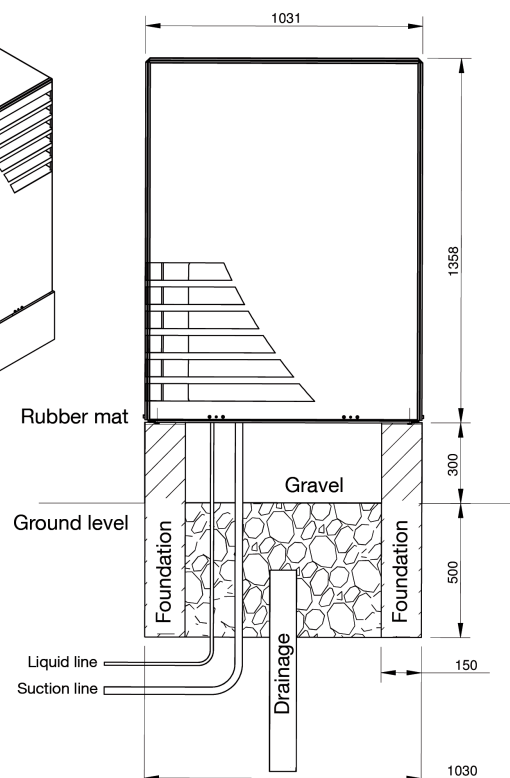
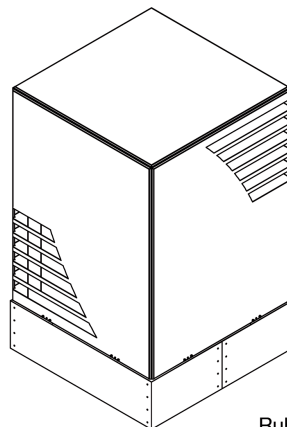
Refrigerant Cycle	
Working fluid	R410a
Max. operating refrigerant pressure	27 bar

Electric	
Voltage	400 V
Frequency	50 Hz
Power consumption	0,38 A
Ventilator input	190 W
Fuse	Thermal relays

Acoustic Pressure Level	
1 m distance	50 dB(A)
5 m distance	43 dB(A)
10 m distance	35 dB(A)

Connections, Dimensions	
Pressure line / Suction line	12/28 mm

Dimensions (in mm)
 L / W / H = 1031 / 1031 / 1358
 Hole spacing = 940 / 940



TECHNICAL DATA SHEET HPLV16/20-F

Outdoor Evaporator Standing Unit, Air Source Heat Pump - Split Design | WEB CONTROL Series

General	
Type	Finned evaporator
Material	Copper/aluminium
Amount	1
Area	100 m ²
Air quantity	5500 m ³ /h
Max. ext. static pressure loss	15 Pa
Ventilator	Axial
Range of use	-15 °C/+30 °C
Tested pressure	30 bar
Speed RPM	530 U/min
Nitrogen pressure	10 bar

Electric	
Voltage	400 V
Frequency	50 Hz
Power consumption	0,38 A
Ventilator input	190 W
Fuse	Thermal relays

Acoustic Pressure Level	
1 m distance	50 dB(A)
5 m distance	43 dB(A)
10 m distance	35 dB(A)

Weight	
HPLV16/20-F	160 kg

Connections, Dimensions	
Pressure line / Suction line	12/28 mm

Refrigerant Cycle	
Working fluid	R410a
Max. operating refrigerant pressure	27 bar

Dimensions (in mm)
 L / W / H = 1031 / 1031 / 1358
 Hole spacing = 940 / 940

