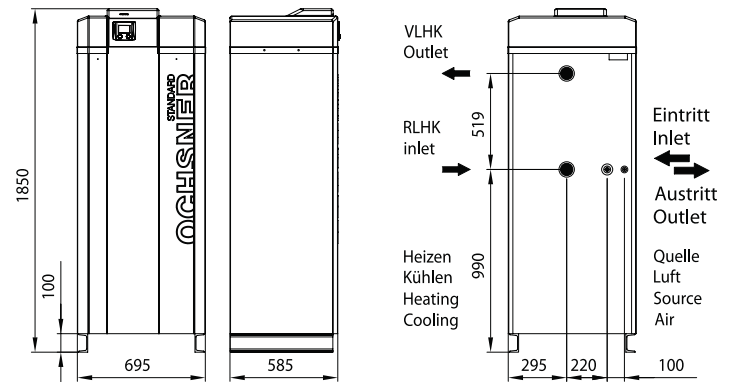


OLWP 65 PLUS

**High efficiency air/water heat pump
incl. horizontal split evaporator**

- » Series: Standard
- » Split
- » tv max. 65°C
- » Order number: 288219



Appliance data:

Dimensions HxWxD	[mm]	1850x695x585
Hydraulic connection	[inch]	2"
Weight	[kg]	305
Housing colour		tiger white 29/11289 / grey RAL 7016

Technical data:

Phases/Nominal voltage/Frequency	[~]/[V]/[Hz]	3/400/50
cos φ		0,81
Fuse (trip characteristic °C°)	[A]	80
Max. operating current	[A]	64
Max. start-up current/max. with soft-start	[A]	248/124
Sound power level/sound pressure level (in 1m)	[dBA]	75,9/67,9

Performance data heating operation:

Standard Point A10/W35		
Heating capacity	[kW]	83
Total power consumption/operating current	[kW]/[A]	18,9/34,1
COP EN14511/EN255		4,4/4,7
Operating point A7/W35		
Heating capacity	[kW]	75,6
Total power consumption/operating current	[kW]/[A]	18,9/33,3
COP EN14511/EN255		4,0/4,2
Standard Point A2/W35		
Heating capacity	[kW]	65,1
Total power consumption/operating current	[kW]/[A]	18,1/32,0
COP EN14511/EN255		3,6/4,0
Standard Point A-7/W35		
Heating capacity	[kW]	47,3
Total power consumption/operating current	[kW]/[A]	16,3/30,1
COP EN14511/EN255		2,9/3,1
Operating point A-10/W35		
Heating capacity	[kW]	41,4
Total power consumption/operating current	[kW]/[A]	15,9/29,0
COP EN14511/EN255		2,6/2,8
Operating point A2/W50		
Heating capacity	[kW]	57,3
Total power consumption/operating current	[kW]/[A]	20,9/38,2
COP EN14511/EN255		2,7/2,9
Operating point A2/W60		
Heating capacity	[kW]	54,2
Total power consumption/operating current	[kW]/[A]	23,6/43,8
COP EN14511/EN255		2,3/2,3

Performance data cooling operation:

Operating point A30/W18		
Cooling capacity	[kW]	66,8
Total power consumption/operating current	[kW]/[A]	20,9/33,6
EER		3,2
Operating point A30/W7		
Cooling capacity	[kW]	61,7
Total power consumption/operating current	[kW]/[A]	20,6/33,5
EER		3

Condenser:

Type		plate heat exchanger
Material		Stainless steel 1.4301
Quantity	[Pc.]	1
Max. operating pressure refrigerant	[bar]	51
Max. operating pressure working fluid	[bar]	41
Working fluid temperature difference	[K]	5
Operating range	[°C]	65
Working fluid water		Water
Testing pressure	[bar]	59
Working fluid flow rate	[m³/h]	13
Internal pressure difference	[mbar]	100
Flow meter VMT	extern	VMT 50 x 2" IG kvs 40
Circulation pump WNA	extern	Stratos 65/1-12
Residual head I WNA external incl. VMT	[mbar]	590

Refrigerant circuit:

Number of circuits	[Pc.]	1
Refrigerant		R 410 A
De-icing technology		Hot gas/ reversible system
Refrigerant quantity (from - to)	[kg]	28,5

Compressor:

Type		fully hermetic / scroll
Quantity	[Pc.]	1
Power stages		1
Rotation speed	[UpM]	2900
Voltage/Frequency	[V]/[Hz]	400/50

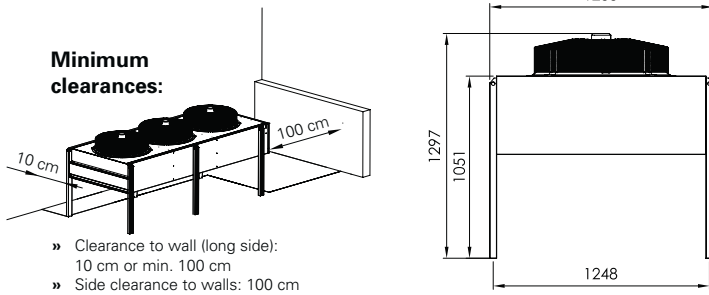
Fan:

Type		Axial EC
Quantity	[Pc.]	3
Voltage/Frequency	[V]/[Hz]	230/50
Power consumption	[W]	1440
Max. operating current	[A]	64

Evaporator:

Appliance type		VHS 65
Dimensions HxWxD	[mm]	1149 x 2965 x 1288
Type		finned tube
Quantity	[Pc.]	3
Weight	[kg]	348
Material fin package		copper/aluminium
Material housing		Stainless steel / powder coated grey RAL 7016
Max. operating pressure refrigerant	[bar]	30
Relative humidity	[%]	80
Working fluid temperature difference	[K]	5
Air flow rate	[m³/h]	26000
Operating range min./max.	[°C]	-22/40
Sound power level/sound pressure level	[dBA]	50/78

Split-Evaporator VHS 65



Recommended accessories:

Heat pump separation tank	min. PU 1500	30/kW at L2/W35
Heat pump hot water storage tank	min. SP 1000	30/kW at L2/W50
3-way valve	DN 50-2"	kvs 40 pressure loss 105 mbar
External PHE for hot water heating	Typ 9610	Primary 2" / 50 mbar Secondary 2" / 48 mbar
E-heating element	Art.Nr.: 922509 / 922508	3 x 9 kW + 1 x 6 kW for heat pumps separator tank

Operating limits:

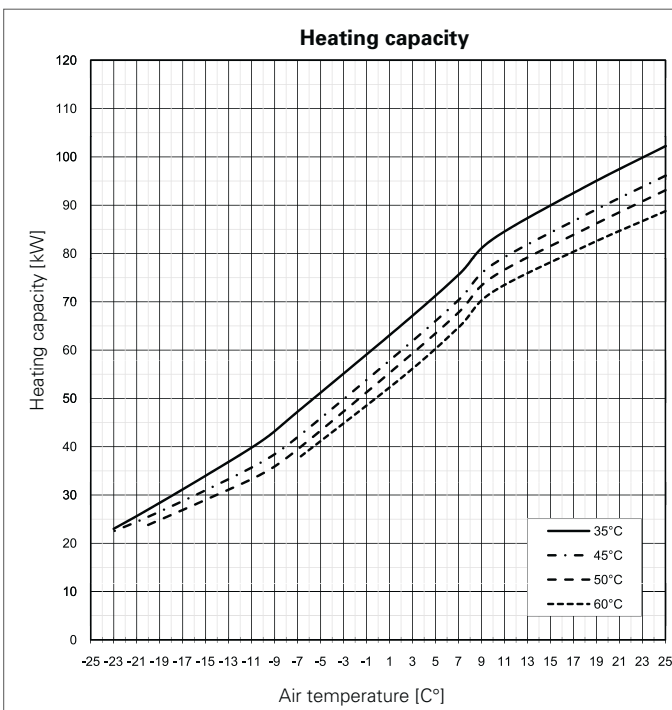
max. flow temperature heat pump / outside air temperature	A -10 / W 65°C A -15 / W 60°C A -20 / W 55°C
Underfloor heating (-15°C / 35°C)	YES
Radiators (-15°C / 55°C)	YES
Radiators (-15°C / 65°C)	YES auxiliary heater is to be sized for 100% heat load
Hot water	YES

Application	Capacity Auxiliary Heater
Bivalent parallel	sizing to calculated value (offer program) but min. 50 % building heat load
Bivalent partly parallel	sizing 100 % building heat load
Bivalent alternative	sizing 100 % building heat load

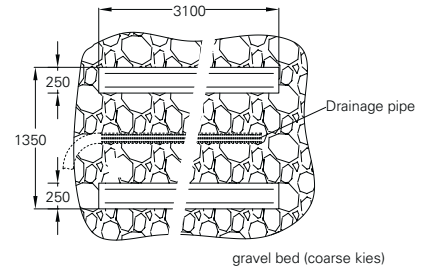
Maximum connecting pipework and height difference:

OLWP 65 plus	L ≤ 16 m	H max. ≤ 5 m
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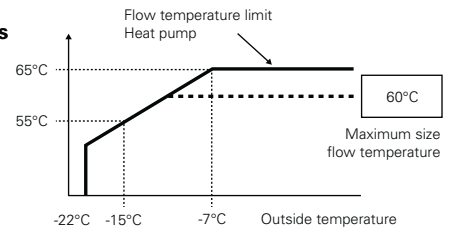
Load curves OLWP 65 plus:



Foundation VHS 65



Operating limits OLWP 65 plus



Ordered annual load curve (= number of days on which a certain outside temperature is not reached).

