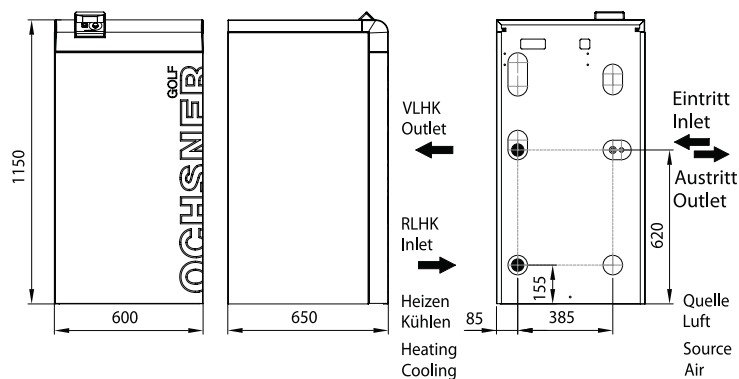


GMLW 35 PLUS

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

- » Series: Golf Maxi Plus
- » Split
- » tv max. 65°C
- » Order number: 284749



Appliance data:

Dimensions HxWxD	[mm]	1150x600x650
Hydraulic connection	[inch]	2"
Weight	[kg]	164
Housing colour		tiger white 29/11289 / grey RAL 7016

Technical data:

Phases/Nominal voltage/Frequency	[~]/[V]/[Hz]	3/400/50
cos φ		0,71
Fuse (trip characteristic °C°)	[A]	25
Max. operating current	[A]	23,2
Max. start-up current/max. with soft-start	[A]	127/63,5
Sound power level/sound pressure level (in 1m)	[dBA]	55,5/47,5

Performance data heating operation:

Standard Point A10/W35		
Heating capacity	[kW]	40
Total power consumption/operating current	[kW]/[A]	8,2/16,7
COP EN14511/EN255		4,9/5,1
Operating point A7/W35		
Heating capacity	[kW]	37,2
Total power consumption/operating current	[kW]/[A]	8,1/16,5
COP EN14511/EN255		4,6/4,8
Standard Point A2/W35		
Heating capacity	[kW]	30,3
Total power consumption/operating current	[kW]/[A]	7,4/15
COP EN14511/EN255		4,1/4,4
Standard Point A-7/W35		
Heating capacity	[kW]	25,1
Total power consumption/operating current	[kW]/[A]	7,4/15
COP EN14511/EN255		3,4/3,6
Operating point A-10/W35		
Heating capacity	[kW]	23,4
Total power consumption/operating current	[kW]/[A]	7,4/15
COP EN14511/EN255		3,2/3,4
Operating point A2/W50		
Heating capacity	[kW]	27,4
Total power consumption/operating current	[kW]/[A]	8,8/17,9
COP EN14511/EN255		3,1/3,3
Operating point A2/W60		
Heating capacity	[kW]	26,4
Total power consumption/operating current	[kW]/[A]	9,3/18,9
COP EN14511/EN255		2,8/3,0

Performance data cooling operation:

Operating point A30/W18		
Cooling capacity	[kW]	27,2
Total power consumption/operating current	[kW]/[A]	8,4/17,1
EER		3,2
Operating point A30/W7		
Cooling capacity	[kW]	25,9
Total power consumption/operating current	[kW]/[A]	8,3/16,9
EER		3,1

Condenser:

Type		plate heat exchanger
Material		Stainless steel 1.4301
Quantity	[Pc.]	1
Max. operating pressure refrigerant	[bar]	30
Max. operating pressure working fluid	[bar]	6
Working fluid temperature difference	[K]	5
Operating range	[°C]	65
Working fluid water		Water
Testing pressure	[bar]	45
Working fluid flow rate	[m³/h]	6
Internal pressure difference	[mbar]	220
Flow meter VMT Standard	extern	VMT 50 x 2" IG kvs 40
Circulation pump WNA	intern	Stratos 30/1-12
Residual head I WNA external incl. VMT	[mbar]	561

Refrigerant circuit:

Number of circuits	[Pc.]	1
Refrigerant		R 407 C
De-icing technology		Hot gas
Refrigerant quantity (from - to)	[kg]	16

Compressor:

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

Fan:

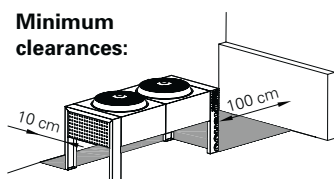
Type		Axial
Quantity	[Pc.]	2
Voltage/Frequency	[V]/[Hz]	230/50
Power consumption	[W]	337
Max. operating current	[A]	2,8

Evaporator:

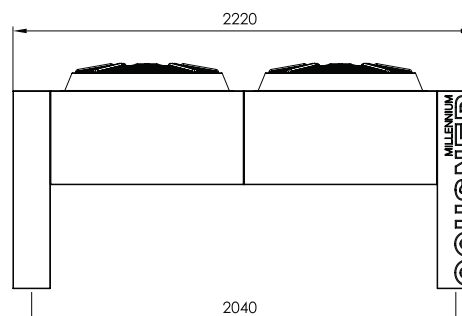
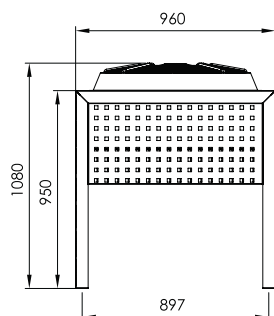
Appliance type		VHS-M 35
Dimensions HxWxD	[mm]	1080 x 2220 x 960
Type		finned tube
Quantity	[Pc.]	2
Weight	[kg]	180
Material fin package		copper/aluminium
Material housing		Stainless steel / powder coated grey RAL 7016
Max. operating pressure refrigerant	[bar]	30
Relative humidity	[%]	80
Working fluid temperature difference	[K]	5,9
Air flow rate	[m³/h]	9800
Operating range min./max.	[°C]	-24/40
Sound power level/sound pressure level	[dBA]	33/61

Split-Evaporator VHS-M 35

Minimum clearances:



- » Clearance to wall (long side): 10 cm or min. 100 cm
- » Side clearance to walls: 100 cm



Recommended accessories:

Heat pump separation tank	min. PU 1000	30l/kW at L2/W35
Heat pump hot water storage tank	min. SP 750	30l/kW at L2/W50
3-way valve	DN 50-2"	kvs 40 pressure loss 23 mbar
External PHE for hot water heating	Typ 9507	Primary 2" / 73 mbar Secondary 2" / 133 mbar
E-heating element	Art.Nr.: 922509	2 x 9 kW for heat pumps separation 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

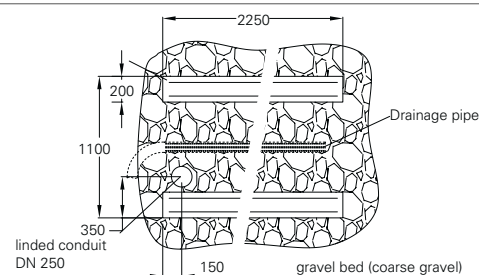
Application	Capacity Auxiliary Heater
Bivalent parallel	sizing to calculated value (offer program) but min. 50 % building heat load
Bivalent partly parallel	sizing 100 % building heat load
Bivalent alternative	sizing 100 % building heat load

Maximum connecting pipework and height difference

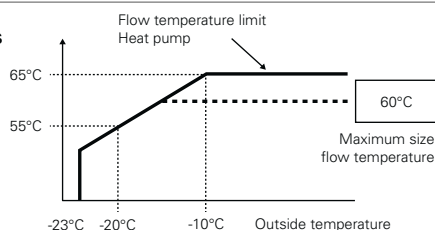
GMLW 35 plus	L ≤ 16 m	H max. ≤ 5 m
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Load curves GMLW 35 plus:

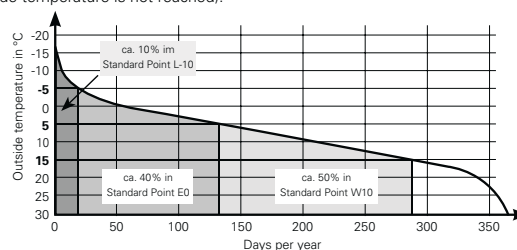
Foundation VHS-M 35



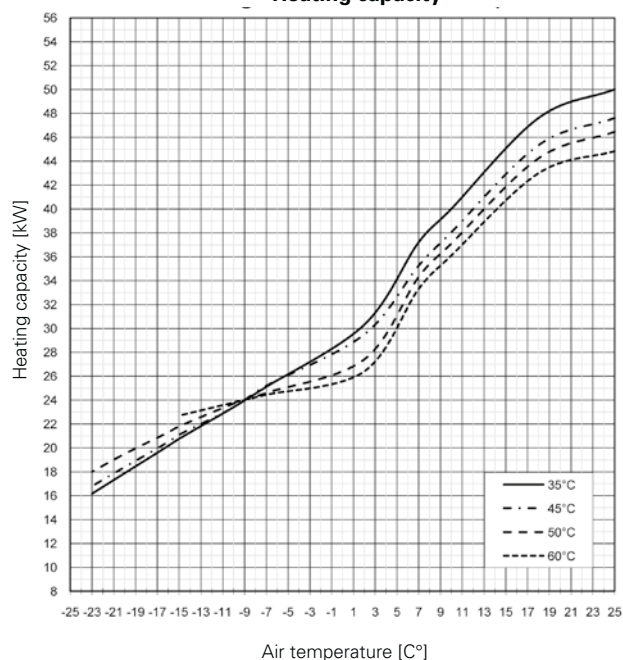
Operating limits GMLW 35 plus



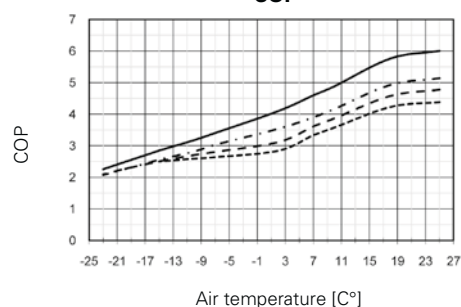
Ordered annual load curve (= number of days on which a certain outside temperature is not reached).



Heating capacity



COP



Power consumption

