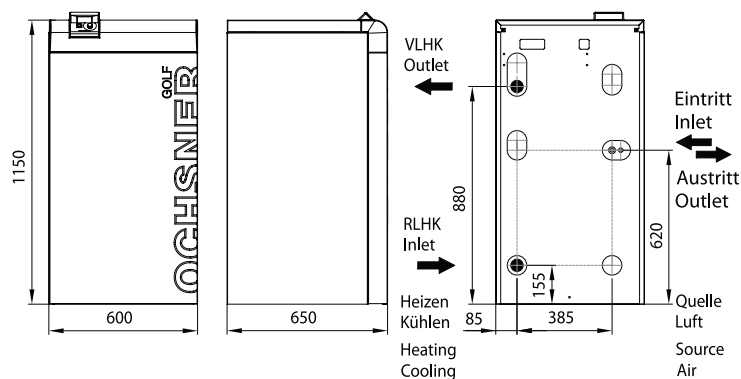


GMLW 9 PLUS

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

- » Series: Golf Maxi Plus
- » Split
- » tv max. 65°C
- » Order number: 284549



Appliance data:

Dimensions HxWxD	[mm]	1150 x 600 x 650
Hydraulic connection	[inch]	1 1/4"
Weight	[kg]	124
Housing colour		tiger white 29/11289 / grey RAL 7016

Technical data:

Phases/Nominal voltage/Frequency	[~]/[V]/[Hz]	3/400/50
cos φ		0,7
Fuse (trip characteristic °C°)	[A]	10
Max. operating current	[A]	6
Max. start-up current / max. with soft-start	[A]	40/20
Sound power level/sound pressure level (in 1m)	[dBA]	44,5/36,5

Performance data heating operation:

Standard Point A10/W35		
Heating capacity	[kW]	11,0
Total power cons. / operating current	[kW]/[A]	2,3/4,7
COP EN14511/EN255		4,9/5,2
Operating point A7/W35		
Heating capacity	[kW]	10,2
Total power cons. / operating current	[kW]/[A]	2,3/4,5
COP EN14511/EN255		4,5/4,7
Standard Point A2/W35		
Heating capacity	[kW]	8,8
Total power cons. / operating current	[kW]/[A]	2,2/4,4
COP EN14511/EN255		4,0/4,3
Standard Point A-7/W35		
Heating capacity	[kW]	6,8
Total power cons. / operating current	[kW]/[A]	2,0/4,2
COP EN14511/EN255		3,3/3,6
Operating point A-10/W35		
Heating capacity	[kW]	6,2
Total power cons. / operating current	[kW]/[A]	2,0/4,1
COP EN14511/EN255		3,1/3,3
Operating point A2/W50		
Heating capacity	[kW]	8,6
Total power cons. / operating current	[kW]/[A]	2,8/5,8
COP EN14511/EN255		3,1/3,3
Operating point A2/W60		
Heating capacity	[kW]	8,5
Total power cons. / operating current	[kW]/[A]	3,2/6,6
COP EN14511/EN 255		2,7/2,8

Performance data cooling operation:

Operating point A30/W18		
Cooling capacity	[kW]	9,6
Total power cons. / operating current	[kW]/[A]	3,0/6,2
EER		3,2
Operating point A30/7		
Cooling capacity	[kW]	8,7
Total power cons. / operating current	[kW]/[A]	2,9/6,0
EER		3

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]	1,7
Internal pressure difference	[mbar]	70
Flow meter VMT standard	extern	VMT-DN20 x 1 1/4" AG kvs 10
Circulation pump WNA	internal	Yonos Para 25/7.5
Residual head I WNA external incl. VMT	[mbar]	529

Refrigerant circuit:

Number of circuits	[Pc.]	1
Refrigerant		R 407 C
De-icing technology		Hot gas
Refrigerant quantity (from - to)	[kg]	9

Compressor:

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

Fan:

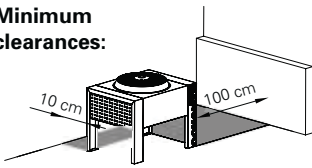
Type		Axial
Quantity	[Pc.]	1
Voltage/Frequency	[V]/[Hz]	230/50
Power consumption	[W]	40
Max. operating current	[A]	1,4

Evaporator:

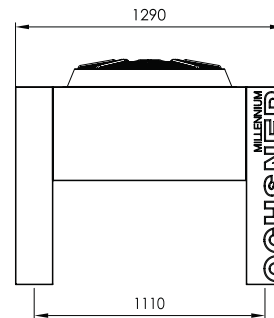
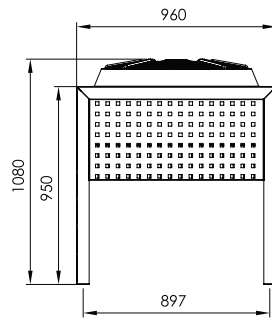
Appliance type		VHS-M 9
Dimensions HxWxD	[mm]	1080x1290x960
Type		finned tube
Quantity	[Pc.]	1
Weight	[kg]	93
Material fin package		Copper/aluminium
Material housing		Stainless steel / powder coated grey RAL 7016
Max. operating pressure refrigerant	[bar]	30
Relative humidity	[%]	80
Working fluid temperature difference	[K]	5,7
Air flow rate	[m³/h]	3000
Operating range min./max.	[°C]	-24 / 40
Sound power level/sound pressure level	[dBA]	24/52

Split-Evaporator VHS-M 9

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 300	30 l/kW at L2/W35
Heat pump hot water storage tank	min. SP 300 / SP 350	30 l/kW at L2/W50
3-way valve	DN 32-1 1/4"	kvs 16 press. loss 14 mbar
External PHE for hot water heating	Typ 2007	Primary 1" / 72 mbar Secondary 1" / 80 mbar
E-heating element	Art.Nr.: 922508	6 kW for heat pumps separator tank

Operating limits:

max. flow temperature heat pump / outside air temperature	A -10 / W 60°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

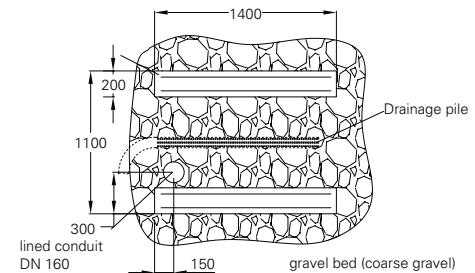
Application	Capacity Auxiliary Heater
Bivalent parallel	sizing to calculated value (offer program) but min. 50 % building heat load
Bivalent partly parallel	auxiliary heater is to be sized for 100% heat load
Bivalent alternative	auxiliary heater is to be sized for 100% heat load

Maximum connecting pipework and height difference

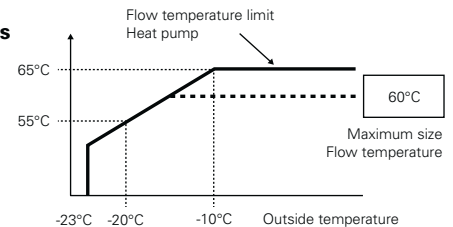
GMLW 5 – GMLW 25	L ≤ 20 m	H max. ≤ 10 m
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Load curves GMLW 9 plus:

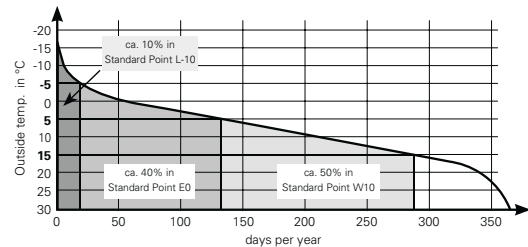
Foundation VHS-M 9



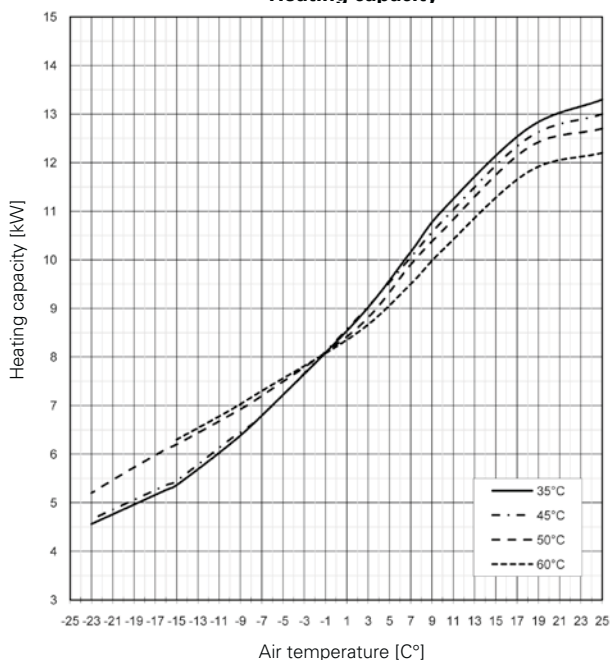
Operating limits GMLW 9 plus



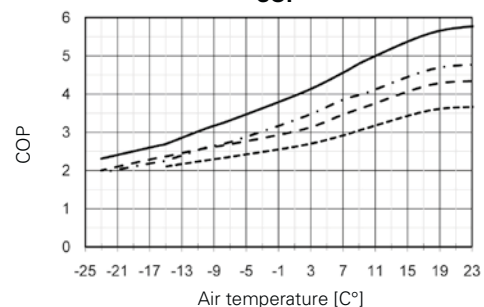
Ordered annual load curve (= number of days on which a certain outside temperature is not reached)



Heating capacity



COP



Power consumption

