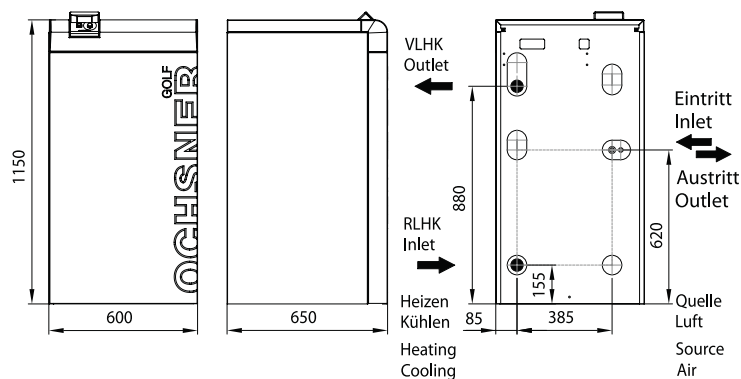


GMLW 19 PLUS

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

- » Series: Golf Maxi Plus
- » Split
- » tv max. 65°C
- » Order number: 284649



Appliance data:

Dimensions HxWxD	[mm]	1150x600x650
Hydraulic connection	[Zoll]	1 1/2"
Weight	[kg]	148
Housing colour		tiger white 29/11289 / Grey RAL 7016

Technical data:

Phases/Nominal voltage/Frequency	[~]/[V]/[Hz]	3/400/50
cos φ		0,74
Fuse (trip characteristic °C°)	[A]	20
Max. operating current	[A]	14
Max. start-up current / max. with soft-start	[A]	101/50,5
Sound power level/sound pressure level (in 1m)	[dBA]	49,5/41,5

Performance data heating operation:

Standard Point A10/W35		
Heating capacity	[kW]	23,4
Total power consumpt./operating current	[kW]/[A]	4,6/9
COP EN14511/EN255		5,1/5,4
Operating point A7/W35		
Heating capacity	[kW]	20,7
Total power consumpt./operating current	[kW]/[A]	4,5/8,8
COP EN14511/EN255		4,6/4,9
Standard Point A2/W35		
Heating capacity	[kW]	17,2
Total power consumpt./operating current	[kW]/[A]	4,1/8
COP EN14511/EN255		4,2/4,4
Standard Point A-7/W35		
Heating capacity	[kW]	13,7
Total power consumpt./operating current	[kW]/[A]	3,9/7,6
COP EN14511/EN255		3,5/3,8
Operating point A-10/W35		
Heating capacity	[kW]	12,8
Total power consumpt./operating current	[kW]/[A]	3,9/7,6
COP EN14511/EN255		3,3/3,6
Operating point A2/W50		
Heating capacity	[kW]	16,8
Total power consumpt./operating current	[kW]/[A]	5,3/10,3
COP EN14511/EN255		3,2/3,4
Operating point A2/W60		
Heating capacity	[kW]	16,4
Total power consumpt./operating current	[kW]/[A]	5,8/11,3
COP EN14511/EN255		2,8/3,0

Performance data cooling operation:

Operating point A30/W18		
Cooling capacity	[kW]	15,6
Total power consumpt./operating current	[kW]/[A]	5,1/9,9
EER		3,1
Operating point A30/W7		
Cooling capacity	[kW]	15,2
Total power consumpt./operating current	[kW]/[A]	5/9,8
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]	3,4
Internal pressure difference	[mbar]	160
Flow meter VMT Standard	extern	VMT 25 x 1 1/2" AG kvs 20
Circulation pump WNA	intern	Stratos Para 25/1-8
Residual head I WNA external incl. VMT	[mbar]	441

Refrigerant circuit:

Number of circuits	[Pc.]	1
Refrigerant		R 407 C
De-icing technology		hot gas
Refrigerant quantity (from - to)	[kg]	10

Compressor:

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

Fan:

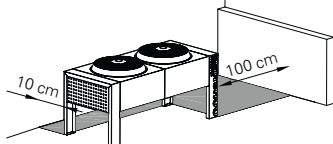
Type		Axial
Quantity	[Pc.]	2
Voltage/Frequency	[V]/[Hz]	230/50
Power consumption	[W]	111
Max. operating current	[A]	2,8

Evaporator:

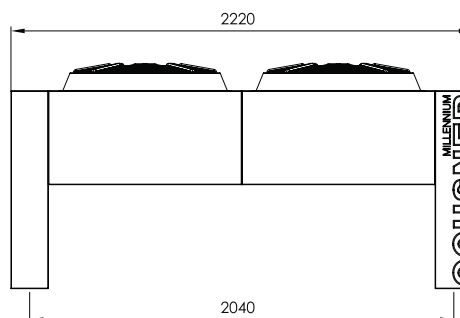
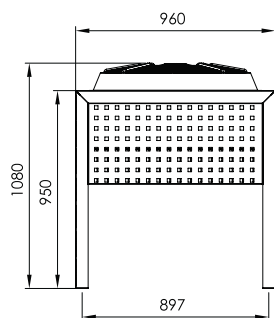
Appliance type		VHS-M 19
Dimensions HxWxD	[mm]	1080 x 2220 x 960
Type		finned tube
Quantity	[Pc.]	2
Weight	[kg]	136
Material fin package		copper/aluminium
Material housing		Stainless steel / powder coated grey RAL 7016
Max. operating pressure refrigerant	[bar]	30
Relative humidity	[%]	80
Working fluid temperature difference	[K]	4
Air flow rate	[m³/h]	8000
Operating range min./max.	[°C]	-24/40
Sound power level/sound pressure level	[dBA]	26/54

Split-Evaporator VHS-M 19

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 500	30/kW at L2/W35
Heat pump hot water storage tank	min. SP 500	30/kW at L2/W50
3-way valve	DN 40-1 1/2"	kvs 25 pressure loss 19 mbar
External PHE for hot water heating	Typ 5007	Primary 1 1/4" / 35 mbar Secondary 1" / 46 mbar
E-heating element	Art.Nr.: 922509	9 kW for heat pumps separator tank

Operating limits:

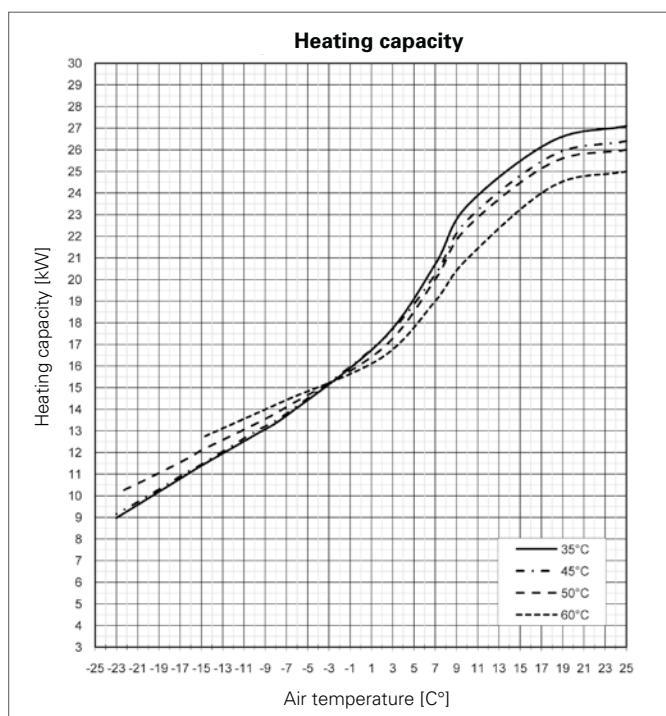
max. flow temperature heat pump / outside air temperature	A -10 / W 65°C A -15 / W 60°C A -20 / W 55°C
Underfloor heating (-15°C / 35°C)	YES
Radiators (-15°C / 55°C)	YES
Radiators (-15°C / 65°C)	YES auxiliary heater is to be sized for 100% heat load
Hot water	YES

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

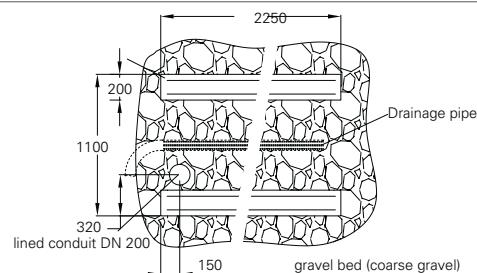
Maximum connecting pipework and height difference

GMLW 5 – GMLW 25	L ≤ 20 m	H max. ≤ 10 m
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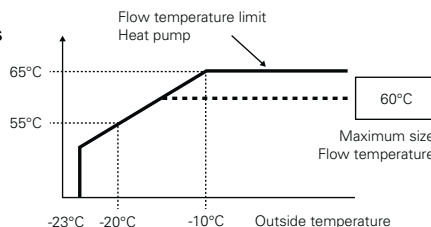
Load curves GMLW 19 plus:



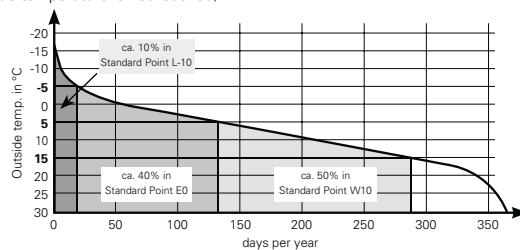
Foundation VHS-M 19



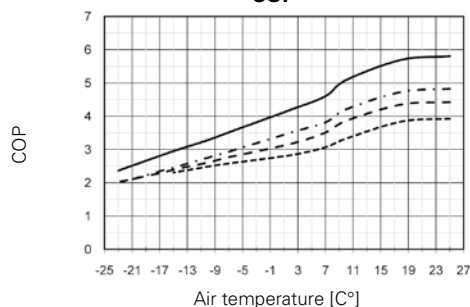
Operating limits GMLW 19 plus



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



COP



Power consumption

