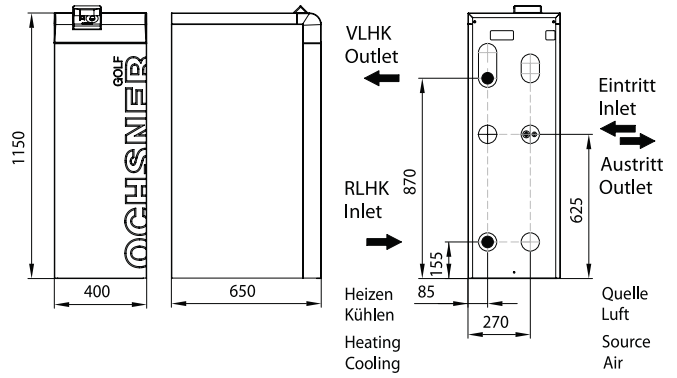


GMLW 5 PLUS

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

- » Series: Golf Midi
- » Split
- » tv max. 65°C
- » Order number: 284499



Appliance data:

Dimensions HxWxD	[mm]	1150x400x650
Hydraulic connection	[Zoll]	1 1/4"
Weight	[kg]	110
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]	4
Max. start-up current / max. with soft-start	[A]	27/13,5
Sound power level/sound pressure level (in 1m)	[dBA]	40,9/32,9

Performance data heating operation:

Standard point A10/W35

Heating capacity	[kW]	6,8
Total power cons. / operating current	[kW]/[A]	1,33/2,65
COP EN14511/EN255		5,1/5,6

Operating point A7/W35

Heating capacity	[kW]	6,4
Total power cons. / operating current	[kW]/[A]	1,33/2,65
COP EN14511/EN255		4,8/5,3

Standard Point A2/W35

Heating capacity	[kW]	5,4
Total power cons.n / operating current	[kW]/[A]	1,32/2,64
COP EN14511/EN255		4,1/4,5

Standard Point A-7/W35

Heating capacity	[kW]	4,1
Total power cons. / operating current	[kW]/[A]	1,28/2,6
COP EN14511/EN255		3,2/3,5

Operating point A-10/W35

Heating capacity	[kW]	3,7
Total power cons. / operating current	[kW]/[A]	1,25/2,55
COP EN14511/EN255		3,0/3,3

Operating point A2/W50

Heating capacity	[kW]	4,7
Total power cons. / operating current	[kW]/[A]	1,75/3,4
COP EN14511/EN255		2,7/2,9

Operating point A2/W60

Heating capacity	[kW]	4,3
Total power cons. / operating current	[kW]/[A]	1,95/3,6
COP EN14511/EN 255		2,2/2,4

Performance data cooling operation:

Operating point A30/W18

Cooling capacity	[kW]	4,4
Total power cons. / operating current	[kW]/[A]	1,34/2,8
EER		3,3

Operating point A30/W7

Cooling capacity	[kW]	3,1
Total power cons. / operating current	[kW]/[A]	1,39/2,9
EER		2,2

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 working fluid		Water
Testing pressure	[bar]	45
Working fluid flow rate	[m³/h]	1,1
Internal pressure difference	[mbar]	26
Flow meter VMT Standard	external	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]	695

Refrigerant circuit:

Number of circuits	[pc.]	1
Refrigerant		R 407 C
De-icing technology		Hot gas
Refrigerant quantity (from - to)	[kg]	5

Compressor:

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

Fan:

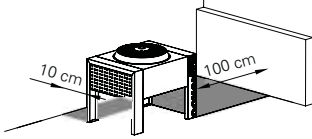
Type		Axial
Quantity	[Pc.]	1
Voltage/Frequency	[V]/[Hz]	230/50
Power consumption	[W]	30
Max. operating current	[A]	1,1

Evaporator:

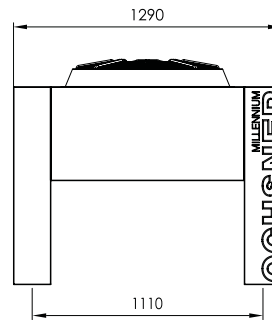
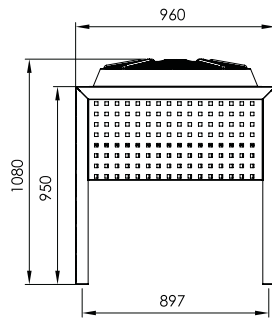
Appliance type		VHS-M 5
Dimensions HxWxD	[mm]	1080 x 1290 x 960
Type		finned tube
Quantity	[Pc.]	1
Weight	[kg]	93
Material fin package		Copper/aluminium
Material housing		Stainless steel / powder coated grey RAL 7016
Max. operating pressure refrigerant	[bar]	30
Relative humidity	[%]	80
Working fluid temperature difference	[K]	3,7
Air flow rate	[m³/h]	2100
Operating Range min./max.	[°C]	-24/+40
Sound power level/sound pressure level	[dBA]	20/48

Split-Evaporator VHS-M 5

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 200	30/kW at L2/W35
Hot water storage tank	min. SP 300 / SP 350	30/kW at L2/W35
3-way valve	DN 32-1 1/4"	kvs 16 pressure loss 11 mbar
External PHE for hot water heating	Type 2007	Primary 1" / 70 mbar Secondary 1" / 78 mbar
E-heating element	Art.Nr.: 922507	3 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 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 5 plus:

