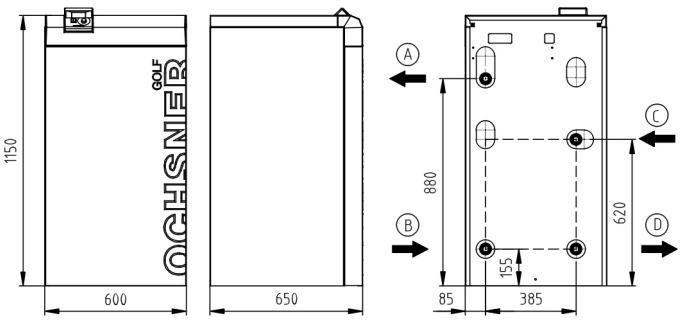
GMWW 17 PLUS

MONOVALENT HEATING SYSTEM WITH WATER AS HEAT SOURCE

ORDER NUMBER: 254830
SERIES: GOLF MAXI PLUS
TF MAX. 65 °C



Ⓐ FLHC (outlet) Ⓑ RTNHC (inlet) Ⓒ WQA (inlet) Ⓓ WQA (outlet)

APPLIANCE DATA

Dimensions HxWxD	[mm]	1150x600x650
Hydraulic connection	[inch]	1 1/4"
Weight	[kg]	132
Casing colour		Tiger white 29/11289/grey RAL 7016

SPECIFICATION

Phases/nominal voltage/frequency	[~]/[V]/[Hz]	3/400/50
Output factor cos φ		0.83
Fuse protection (tripping curve "C")	[A]	13
Max. operating current	[A]	9.70
Max. starting current/max. with soft start	[A]	62.00 / 31.00
Sound power/sound pressure level (at 1 m distance)	[dBA]	50.70 / 42.70

HEATING MODE PERFORMANCE FIGURES (to EN 14511)

Standard point W10/W35

Heating output	[kW]	16.60
Total power consumption / operating current	[kW]/[A]	2.80 / 5.10
COP		5.90

Operating point W10/W50

Heating output	[kW]	14.80
Total power consumption / operating current	[kW]/[A]	3.80 / 6.90
COP		3.90

Operating point W10/W60

Heating output	[kW]	13.80
Total power consumption / operating current	[kW]/[A]	4.80 / 8.90
COP		2.90

CONDENSER

Type		Plate heat exchanger
Material		Stainless steel 1.4301
Max. refrigerant operating pressure	[bar]	45
Max. heat transfer medium operating pressure	[bar]	6
Heat transfer medium temperature differential	[K]	5
Application range	[°C]	65
Heat transfer medium		Water
Test pressure	[bar]	54
Heat transfer medium flow rate	[m³/h]	2.85
Internal pressure differential	[mbar]	100
Flow meter FM standard	external	FM-DN 20 kvs 10
Circulation pump heat sink	Internal	Stratos Para 25/1-8
Residual head I WNA external, incl. FM	[mbar]	485

REFRIGERANT CIRCUIT

Refrigerant		R410A
Refrigerant charge	[kg]	3.2

COMPRESSOR

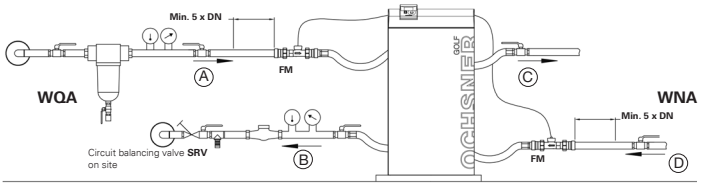
Type		Scroll
Output levels		1
Speed	[rpm]	2900
Voltage/frequency	[V]/[Hz]	400 / 50

EVAPORATOR

Type		Shell and tube heat exchanger
Material		Pipes 1.4404 / outer casing 1.4307
Number	[pce]	1
Max. heat transfer medium operating pressure	[bar]	16
Max. refrigerant operating pressure	[bar]	26
Heat transfer medium temperature differential	[K]	4
Application range	[°C]	+6/+25
Heat transfer medium		Water
Test pressure	[bar]	46
Heat transfer medium flow rate	[m³/h]	3.00
Internal pressure differential	[mbar]	86
Flow meter FM standard	external	FM-DN 20 kvs 10
Flow meter pressure loss	[mbar]	90

OCHSNER heat pumps are domestic appliances in accordance with the Machinery Directive.

Status: 2019-05-21



Heat source: Ⓐ Inlet Ⓑ Outlet Heat pump: Ⓒ Flow Ⓓ Return

RECOMMENDED ACCESSORIES

Heat pump buffer tank	min. PU500	30 l/kW at W10/W35
DHW tank	min. SP500/SP550	30 l/kW at W10/W50
3-way switching module	DN32 (1 1/4")	kvs 16, pressure loss 32 mbar
External plate heat exchanger (DHW heating)	PHE 5007	Prim.: 1 1/4"/ 13 mbar Sec.: 1"/ 16 mbar
Filter heat source WQA	922485	Pressure loss 30 mbar
Submersible pump	I or II speed controlled	Residual head I = 3 - 23 mWC / II = 9 - 34 mWC

LIMITS OF USE OF PLATE HEAT EXCHANGER:

				Plate heat exchanger		Shell and tube heat exchanger
				Copper soldered	Stainless steel soldered	Stainless steel
El. Conductivity	[µS/cm]	1.)		< 500	> 500	50 - 2500
pH value		1.)	< 6	0	0	0
			6 - 8	+	+	+
			> 8	–	0	0
Chloride	[mg/l]	1.)	< 10	+	+	+
			10 – 100	+	+	+
			100 – 200	0	+	+
			> 200	–	– (3)	0
Sulphate	[mg/l]	1.)	< 50	+	+	+
			50 – 100	0	+	–
			> 100	–	0	–
Carbon dioxide (free aggressive)	[mg/l]	1.)	< 5	+	+	+
			5 – 20	0	+	+
			> 20	–	0	–
Oxygen	[mg/l]	1.)	< 1	+	+	+
			1 – 8	0	+	+
			> 8	–	+	0
Ammonium	[mg/l]	1.)	< 2	+	+	+
			2 – 20	0	+	–
			> 20	–	+	–
Iron with manganese	[mg/l]	2.)		< 0.2	< 0.2 (3)	< 0.5
Manganese	[mg/l]	2.)	> 0.05	–	– (3)	0
Sulphide	[mg/l]	1.)	< 5	+	+	+
Chlorine (free)	[mg/l]	1.)	< 0.5	+	+	+

65° ErP READY SG Ready

PRODUCT DATA **ErP: GMWW 17 PLUS**

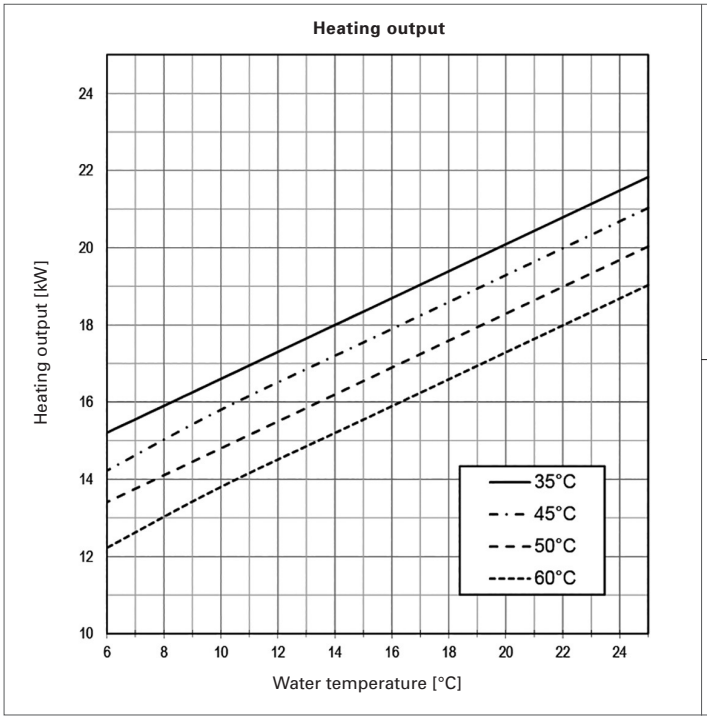
		COLDER	MEAN	HOTTER
LOW TEMPERATURE	A+++		**35°C**	
ηs		263	**253**	253
Energy consumption	[kWh]	6045	**5263**	3399
P rated	[kW]	17	**17**	17
SCOP		6.77	**6.52**	6.53
MEDIUM TEMPERATURE	A+++		**55°C**	
ηs		167	**162**	161
Energy consumption	[kWh]	8055	**6965**	4513
P rated	[kW]	14	**14**	14
SCOP		4.38	**4.24**	4.23
DHW	A		**SP500**	
ηWH		101	**101**	101
Energy consumption	[kWh]	1378	**1378**	1378
Draw-off profile			**XL**	
Tank losses	[W]		**117**	

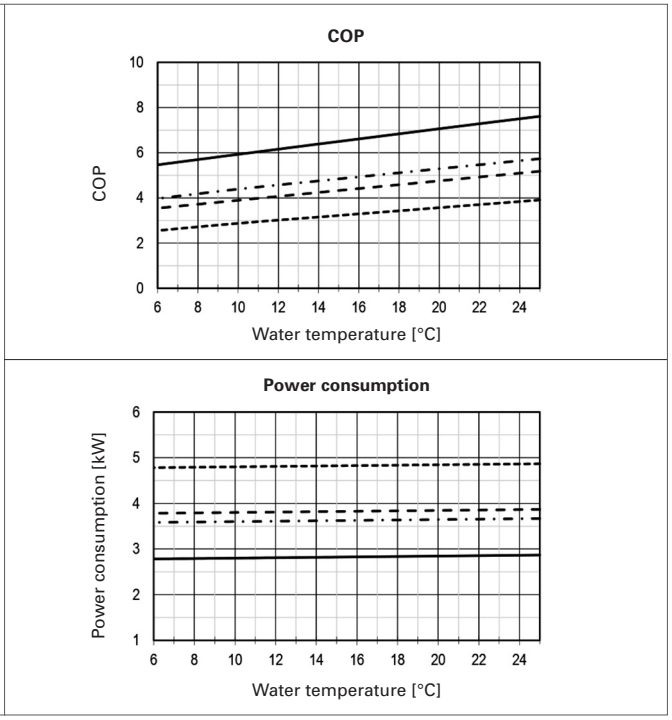
		indoor		outdoor
Sound power level	[dBA]	50.7		-
Controller class with room remote control		VII	Controller contribution [%]	3.5
Controller class without room remote control		**III**	Controller contribution [%]	1.5

\+ = Material has generally good resistance
– = We advise against use
0 = corrosion may occur if several factors are rated 0

1.) If these limits are not observed, a stainless steel soldered stainless steel plate heat exchanger must be installed in the heat pump instead of the copper soldered stainless steel plate heat exchanger (specified with the order).
2.) Due to anticipated ochre formation, we advise against the use of a water/water heat pump.
3.) The limits of use of a stainless steel soldered plate heat exchanger are largely determined by, in addition to iron and manganese, the concentrations of chlorides.

PERFORMANCE CURVES GMWW 17 PLUS





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