

OLWI 18

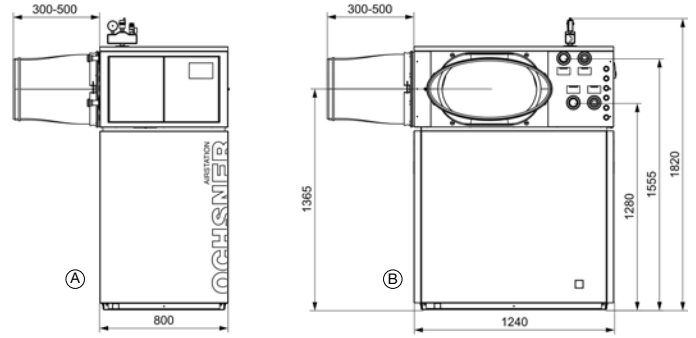
COMPACT AIR/WATER HEAT PUMP WITH INTEGRAL EVAPORATOR

ORDER NUMBER: 282630

SERIES: AIR-STATION

TF MAX. 60 °C

COMPACT



(A) Front view (B) Side view

APPLIANCE DATA

Dimensions HxWxD	[mm]	1820x800x1240
Hydraulic connection	[inch]	1 1/4"
Weight	[kg]	310
Casing colour		White RAL 9016

SPECIFICATION

Phases/nominal voltage/frequency	[~]/[V]/[Hz]	3/400/50
Output factor cos φ		0,67
Fuse protection (tripping curve "C")	[A]	16
Max. operating current	[A]	12,00
Max. starting current/max. with soft start	[A]	- / <30.00
Sound power/sound pressure level (at 1 m distance)	[dBA]	58.00 / 48.00

HEATING MODE PERFORMANCE FIGURES (to EN 14511)

Standard point A10/W35

Heating output	[kW]	18,50
Total power consumption / operating current	[kW]/[A]	4.20 / 9.10
COP		4,40

Operating point A7/W35

Heating output	[kW]	16,60
Total power consumption / operating current	[kW]/[A]	4.10 / 9.90
COP		4,00

Standard point A2/W35

Heating output	[kW]	15,70
Total power consumption / operating current	[kW]/[A]	4.30 / 10.00
COP		3,60

Standard point L-7/W35

Heating output	[kW]	13,20
Total power consumption / operating current	[kW]/[A]	4.20 / 9.80
COP		3,10

Standard point A2/W50

Heating output	[kW]	16,20
Total power consumption / operating current	[kW]/[A]	5.90 / 10.60
COP		2,90

Standard point A2/W60

Heating output	[kW]	16,40
Total power consumption / operating current	[kW]/[A]	7.00 / 11.80
COP		2,30

CONDENSER

Type		Plate heat exchanger
Material		Stainless steel 1.4401
Max. refrigerant operating pressure	[bar]	30
Max. heat transfer medium operating pressure	[bar]	6
Heat transfer medium temperature differential	[K]	5
Application range	[°C]	60
Heat transfer medium		Water
Test pressure	[bar]	45
Heat transfer medium flow rate	[m³/h]	2,64
Internal pressure differential	[mbar]	200
Flow meter FM standard	external	FM-DN 20 x 1 1/4" (male) kvs 10
Residual head I WNA external, incl. FM	[mbar]	396

REFRIGERANT CIRCUIT

Refrigerant		R407C
Defrost technology		Hot gas
Refrigerant charge	[kg]	3,4

COMPRESSOR

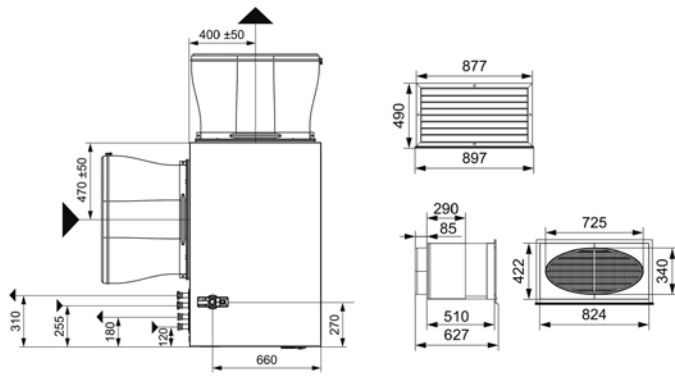
Type		Scroll
Output levels		1
Speed	[rpm]	2900
Voltage/frequency	[V]/[Hz]	400/50

FAN

Type		axial
Number	[pce]	1
Voltage/frequency	[V]/[Hz]	230/50
Power consumption	[W]	40
Max. operating current	[A]	1,40

EVAPORATOR

Unit type		built-in
Type		Finned tube
Number	[pce]	1
Fin pack material		Copper/aluminium
Max. refrigerant operating pressure	[bar]	30
Relative humidity	[%]	80
Heat transfer medium temperature differential	[K]	5,70
Air flow rate	[m³/h]	3500
Application range min./max	[°C]	-20 / 40



PRODUCT DATA ErP: OLWI 18

	COLDER	MEAN	HOTTER
LOW TEMPERATURE	A++	35°C	
η_s	144	154	175
Energy consumption [kWh]	7959	7808	4713
P rated [kW]	12	15	16
SCOP	3,68	3,93	4,45
MEDIUM TEMPERATURE	A+	55°C	
η_s	110	118	134
Energy consumption [kWh]	13340	12116	6351
P rated [kW]	15	18	16
SCOP	2,82	3,03	3,43
DHW	A	SP500	
η_{WH}	81	88	102
Energy consumption [kWh]	1722	1574	1366
Draw-off profile		XL	
Tank losses [W]		117	
		indoor	outdoor
Sound power level [dBA]	58,0		-
Controller class with room remote control	VII	Controller contribution [%]	3,5
Controller class without room remote control	III	Controller contribution [%]	1,5

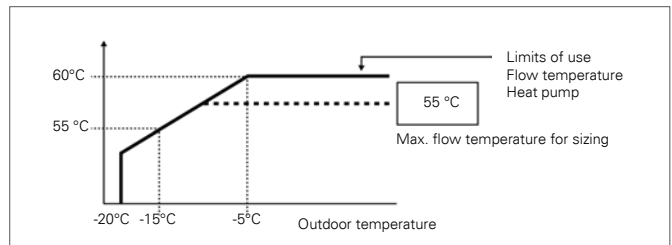
RECOMMENDED ACCESSORIES

Heat pump buffer tank	min. PU500	30 l/kW at L2/W35
DHW tank	min. SP500	30 l/kW at L2/W50
3-way switching module	built-in	
External PHE for DHW heating	PHE 5007	Primary 1 1/4" / 35 mbar Secondary 1" / 46 mbar
Electric immersion heater	built-in	8 kW integrated in heat pump

Application	Booster heater output	
Bivalent parallel	Sizing according to calculated value (offer program), but with minimum 50% of building heat load	
Bivalent partial parallel	Sizing to 100% of building heat load	
Bivalent alternative	Sizing to 100% of building heat load	

LIMITS OF USE OLWI 18

Outdoor temperature/max. heat pump flow temperature	A-5/W60°C A-10/W60°C A-15/W55°C
Underfloor heating (-15°C / 35°C)	YES
Radiators (-15°C / 55°C)	NO
Radiators (-15°C / 65°C)	NO
Domestic hot water	NO



PERFORMANCE CURVES OLWI 18

