

AIR EAGLE 717 C11A G1-1

HIGH EFFICIENCY AIR/WATER HEAT PUMP INCL. HORIZONTAL SPLIT EVAPORATOR

ORDER NUMBER: 285640

SERIES: G1-1

TF MAX. 65 °C

SPLIT

APPLIANCE DATA

Dimensions of outdoor unit HxWxD	[mm]	1260x1480x965
Dimensions of indoor unit HxWxD	[mm]	1150x400x650
Hydraulic connection	[inch]	1" fem.
Weight of outdoor unit	[kg]	200
Weight of indoor unit	[kg]	75
Casing colour		Tiger white 29/11289/grey RAL 7016

SPECIFICATION

Phases/nominal voltage/frequency Outdoor unit, controller	[-]/[V]/[Hz]	3/400/50
Phases/nominal voltage/frequency Electric immersion heater	[-]/[V]/[Hz]	3/400/50 or 1/230/50
Electric immersion heater internal	[kW]	8.8 (2.6/3.0/3.2)
Output factor cos φ		0,93
Fuse protection (tripping curve "C")	[A]	16
Max. operating current	[A]	16,00
Max. starting current, compressor	[A]	< 10,00
Sound power/sound pressure level (at 3 m distance), indoor unit	[dBA]**	< 50,00 / 32,00
Sound power level (A7/W35)/sound pressure level (at 10 m distance), outdoor unit	[dBA]	57,0 / 29,0

HEATING MODE PERFORMANCE FIGURES (to EN 14511)

Standard point A7/W35

Heating output range	[kW]	6.70 - 8.30
Heating output/power consumption	[kW]	7.10 / 1.50
COP		4,80

Operating point A2/W35

Heating output range	[kW]	6.00 - 10.40
Heating output/power consumption	[kW]	7.10 / 1.70
COP		4,20

Standard point A7/W55

Heating output range	[kW]	6.60 - 8.60
Heating output/power consumption	[kW]	8.60 / 2.70
COP		3,30

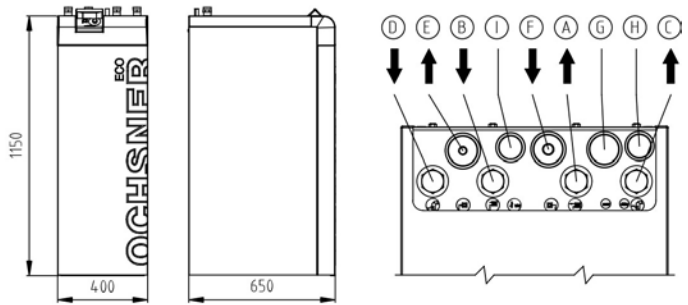
Standard point A-7/W34

Heating output range	[kW]	5.20 - 14.10
Heating output/power consumption	[kW]	12.80 / 4.10
COP		3,10

COOLING MODE PERFORMANCE FIGURES

Operating point A35/W18

Cooling capacity range	[kW]	5.30 - 12.90
Nominal cooling capacity	[kW]	7,50
Total nominal power consumption	[kW]	2,50
Energy efficiency ratio EER at nominal output		3,30



Indoor unit

- Ⓐ FL heating/cooling
- Ⓑ RTN heating/cooling
- Ⓒ FL DHW charging
- Ⓓ RTN DHW charging
- Ⓔ Refrigerant line LL (liquid line)
- Ⓕ Refrigerant line HG (hot gas line)
- Ⓖ Controller 230 V
- Ⓗ booster heater 400 V/230 V
- Ⓘ Sensor < 12 V

CONDENSER

Type	Plate heat exchanger
Material	Stainless steel 1.4301
Max. refrigerant operating pressure	[bar] 45
Max. heat transfer medium operating pressure	[bar] 3
Heat transfer medium temperature differential	[K] 5
Application range	[°C] 65
Heat transfer medium	Water
Test pressure	[bar] 78
Heat transfer medium flow rate	[m³/h] 1,80
Internal pressure differential	[mbar] 220
Flow meter FM standard	Internal built-in
Circulation pump heat sink WNA	Internal Yonos Para HPS15/7.5
Residual head I WNA external, incl. FM	[mbar] 380

REFRIGERANT CIRCUIT

Refrigerant	R410A
Defrost technology	Hot gas
Refrigerant charge (from-to)	[kg] 5,5-9,0

COMPRESSOR

Type	Scroll
Output levels	Infinitely variable
Speed	[rpm] 2100-7000
Voltage/frequency	[V]/[Hz] 400/50

FAN

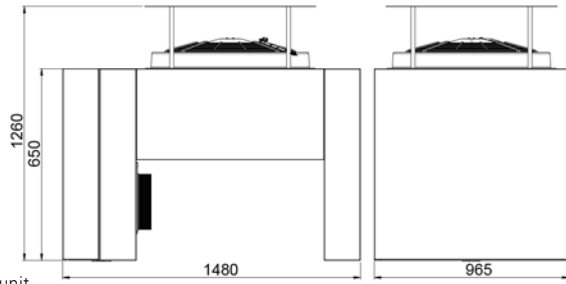
Type	axial
Number	[pce] 1
Voltage/frequency	[V]/[Hz] 230/50
Power consumption	[W] 230

EVAPORATOR

Unit type	built-in
Type	Finned tube
Number	[pce] 1
Fin pack material	Copper/aluminium
Casing material	Stainless steel / powder coated, grey RAL 7016
Max. refrigerant operating pressure	[bar] 40
Relative humidity	[%] 80
Heat transfer medium temperature differential	[K] 5,70
Air flow rate	[m³/h] 4000
Application range min./max	[°C] -25 / 40

*Starting current, compressor with locked rotor

**Sound pressure level measured in a free field; sound power levels measured at max. nominal speed



Outdoor unit



PRODUCT DATA **ErP: AIR EAGLE 717 C11A G1-1**

	COLDER	MEAN	HOTTER
LOW TEMPERATURE	A++	35°C	
η_s	164	174	208
Energy consumption [kWh]	8466	7948	2949
P rated [kW]	14	17	11
SCOP	4,18	4,42	5,28
MEDIUM TEMPERATURE	A++	55°C	
η_s	133	141	177
Energy consumption [kWh]	10081	9757	3622
P rated [kW]	14	17	11
SCOP	3,40	3,60	4,49
DHW	A	SP300	
η_{WH}	91	100	115
Energy consumption [kWh]	1566	1431	1242
Draw-off profile		XL	
Tank losses [W]		94	

RECOMMENDED ACCESSORIES

Heat pump buffer tank	PU200 (optional)	30 l/kW, P min. at A20
DHW tank	SP350	30 l/kW at P min. 10 kW
3-way switching module	built-in	
External PHE for DHW heating	PHE 2007 as of SP300	Primary 1" / 20 mbar Secondary 1" / 16 mbar

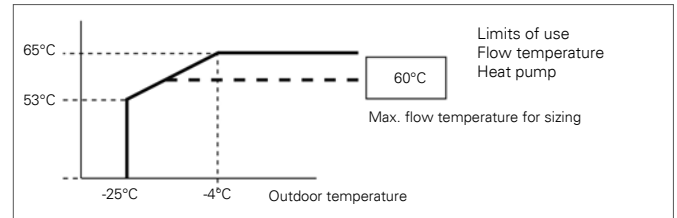
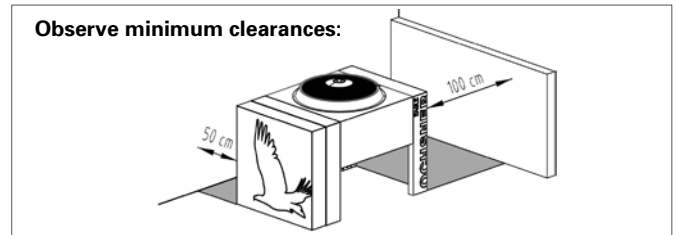
Application	Booster heater output
Bivalent parallel	Sizing according to calculated value (offer program), but with minimum 50% of building heat load
Bivalent partial parallel	Sizing to 100% of building heat load
Bivalent alternative	Sizing to 100% of building heat load

	Max. connection length	Max. height differential
AIR EAGLE 717 C11A G1-1	L ≤ 25	Hmax ≤ 15

	indoor	outdoor
Sound power level [dBA]	-	57
Controller class with room remote control	VI	Controller contribution [%] 4,0
Controller class without room remote control	II	Controller contribution [%] 2,0

LIMITS OF USE AIR EAGLE 717 C11A G1-1

Outdoor temperature/max. heat pump flow temperature	A-10/W60°C A-15/W58°C A-20/W55°C
Underfloor heating (-15°C / 35°C)	YES
Radiators (-15°C / 55°C)	YES
Radiators (-15°C / 60°C)	YES
Domestic hot water	YES



PERFORMANCE CURVES AIR EAGLE 717 C11A G1-1

