

AIR BASIC 109 C11B T200

AIR/WATER HEAT PUMP INCL. VERTICAL SPLIT EVAPORATOR

ORDER NUMBER: 285920

SERIES: T200

TF MAX. 55 °C

SPLIT

APPLIANCE DATA

Dimensions of outdoor unit HxWxD	[mm]	610x869x290
Dimensions of indoor unit HxWxD	[mm]	1908x680x871
Hydraulic connection	[inch]	1" union nut
Weight of outdoor unit	[kg]	38
Weight of indoor unit	[kg]	203 / 471
Casing colour		Tiger white 29/11289/grey RAL 7016

HEATING MODE PERFORMANCE FIGURES (to EN 14511)

Standard point A10/W35

Heating output range	[kW]	3.25 - 6.78
Total heating output/power consumption	[kW]	4.88 / 1.01
COP		4,83

Operating point A7/W35

Heating output range	[kW]	3.08 - 6.24
Total heating output/power consumption	[kW]	4.37 / 0.94
COP		4,63

Standard point A2/W35

Heating output range	[kW]	1.25 - 3.30
Total heating output/power consumption	[kW]	3.09 / 0.92
COP		3,35

Standard point L-7/W35

Heating output range	[kW]	1.30 - 2.95
Total heating output/power consumption	[kW]	2.59 / 0.98
COP		2,64

Operating point L-10/W35

Heating output range	[kW]	1.27 - 2.73
Total heating output/power consumption	[kW]	2.51 / 1.05
COP		2,39

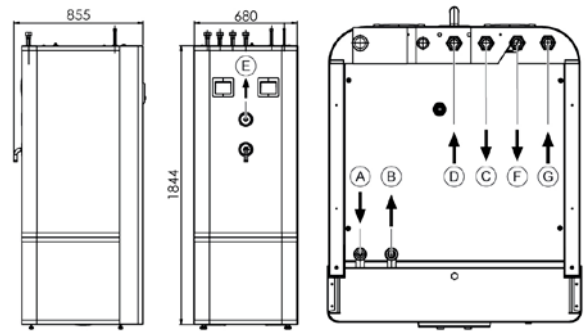
Operating point A2/W50

Heating output range	[kW]	2.09 - 3.33
Total heating output/power consumption	[kW]	3.04 / 1.27
COP		2,40

COOLING MODE PERFORMANCE FIGURES

Operating point A35/W18

Cooling capacity range	[kW]	2.22 - 6.46
Nominal cooling capacity	[kW]	4,91
Total nominal power consumption	[kW]	1,02
Energy efficiency ratio EER at nominal output		4,81



Indoor unit

- (A) Refrigerant line LL (liquid line)
- (B) Refrigerant line HG (hot gas line)
- (C) FL heating/cooling 1"
- (D) RTN heating/cooling 1"
- (E) DHW circulation 1/2"
- (F) DHW 1"
- (G) Cold water 1"

SPECIFICATION

Phases/nominal voltage/frequency	[~]/[V]/[Hz]	1/230/50
Outdoor unit, controller		
Phases/nominal voltage/frequency	[~]/[V]/[Hz]	3/400/50 or 1/230/50
Electric immersion heater		
Electric immersion heater internal	[kW]	5,9 (2,95 / 2,95)
Output factor cos φ		0,97
Fuse protection (tripping curve "C")	[A]	16
Max. operating current	[A]	13,50
Max. starting current, compressor	[A]	10.50 / 20.00*
Sound power/sound pressure level (at 1 m distance), indoor level	[dBA]**	- / -
Sound power/sound pressure level (at 10 m distance), outdoor unit	[dBA]	60.0 / 35.0

CONDENSER

Type		Plate heat exchanger
Material		Stainless steel 1.4301
Max. refrigerant operating pressure	[bar]	43
Max. heat transfer medium operating pressure	[bar]	3
Heat transfer medium temperature differential	[K]	5
Application range	[°C]	55
Heat transfer medium		Water
Test pressure	[bar]	59
Heat transfer medium flow rate	[m³/h]	0,80
Internal pressure differential	[mbar]	25
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]	700

REFRIGERANT CIRCUIT

Refrigerant		R410A
Defrost technology		Hot gas
Refrigerant charge	[kg]	1,2

COMPRESSOR

Type		Rotary piston
Output levels		Infinitely variable
Speed	[rpm]	2400-5040
Voltage/frequency	[V]/[Hz]	230/50

FAN

Type		axial
Number	[pce]	1
Voltage/frequency	[V]/[Hz]	230/50
Power consumption	[W]	35

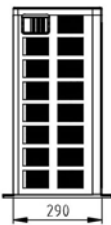
EVAPORATOR

Unit type		built-in
Type		Finned tube
Number	[pce]	1
Air flow rate	[m³/h]	2500
Application range min./max	[°C]	-20 / 35

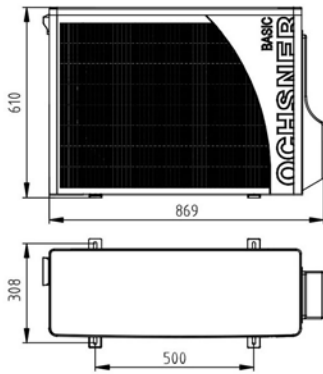
¹⁾only possible with buffer tank

*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 BASIC 109 C11B T200**

	COLDER	MEAN	HOTTER
LOW TEMPERATURE	A++		35°C
η_s	120	162	203
Energy consumption [kWh]	3991	1721	788
P rated [kW]	5	3	3
SCOP	3,08	4,13	5,14
MEDIUM TEMPERATURE	A+		55°C
η_s	101	110	144
Energy consumption [kWh]	4561	2307	953
P rated [kW]	5	3	3
SCOP	2,61	2,84	3,69
DHW	A		T200
η_{WH}	73	80	92
Energy consumption [kWh]	1148	1050	911
Draw-off profile	L		
Tank losses [W]	79		
	indoor	outdoor	
Sound power level [dBA]	-	60	
Controller class with room remote control	VI	Controller contribution [%]	4,0
Controller class without room remote control	II	Controller contribution [%]	2,0

MULTI TOWER ALL IN ONE
Fully equipped

- DHW tank, 168 l
- Buffer tank 100 l, heating / cooling
- 3-way switching valve for DHW heating and/or defrosting
- Safety valve
- Electric auxiliary heater 8.8 kW
- Flow meter for safety monitoring and heat quantity measurement for heating / cooling / DHW heating
- Air vent valve
- High efficiency energy saving circulation pump
- Plate heat exchanger / condenser
- Drain and fill valve
- Pressure maintaining device (DEV), on site

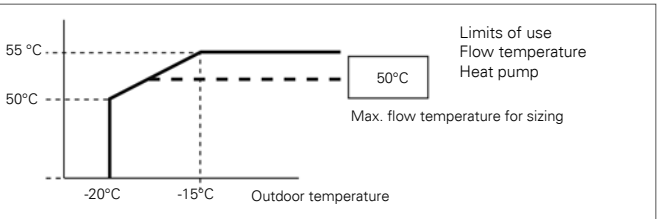
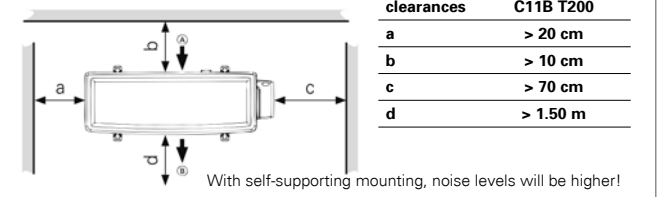


	Max. connection length	Max. height differential
AIR BASIC 109 C11B T200	$L \leq 20$	$H_{max} \leq 10$

LIMITS OF USE AIR BASIC 109 C11B T200

Outdoor temperature/max. heat pump flow temperature	A-10/W55°C A-15/W55°C A-20/W50°C
Underfloor heating (-15°C / 35°C)	YES
Radiators (-15°C / 50°C)	YES
Radiators (-15°C / 60°C)	NO
Domestic hot water	YES

Observe minimum clearances



PERFORMANCE CURVES AIR BASIC 109 C11B T200

