

310 AIR

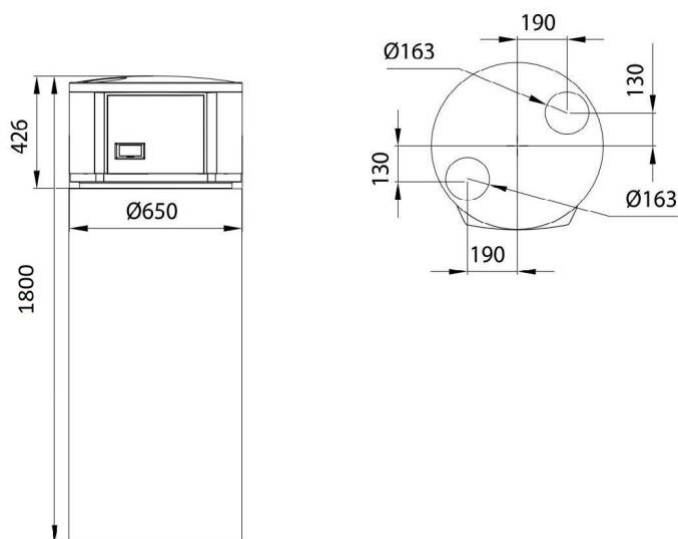
MULTIFUNCTIONAL APPLIANCE

AIR SOURCE HEAT PUMP - SPACE HEATING & HOT WATER

APPLICATION: NEW BUILD APARTMENTS & SMALL HOMES

SERIES: 310 AIR

TF MAX. 60°C



APPLIANCE DATA

Dimensions (diameter x height)	[mm]	650 x 1800
Type		Internal heat exchanger
Weight	[kg]	45+32
Electronic controller		Tiptronic Plus (touchscreen)
Casing colour		Tiger white 29/11289/grey RAL 7016

SPECIFICATION

Phases/nominal voltage/frequency	[~]/[V]/[Hz]	1/220-240/50
Fuse protection (tripping curve "C")	[A]	16
Max. operating current	[A]	4.00
Starting current	[A]	16.50
Sound pressure level (at 1 m distance)	[dBA]	49.00

PERFORMANCE FIGURES (EN 16147) Austrian Institute of Technology GmbH

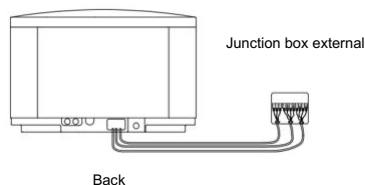
Load profile		XL
Coefficient of performance (COP)		3.16
Reference DHW temperature	[°C]	54.40
Average heating output	[kW]	2
Average power consumption	[kW]	0.51
SCOPw (VDI 4650-1:2016)		4.34

DHW TANK

Duplex Stainless steel	[l]	250
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TITANIUM EROD BACKUP

1.5kW heating, 1kW hot water	Built in automatic as standard
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Tiptronic Plus controller with touchscreen for easy operation:

- Selectable hygiene/comfort mode
- Real time clock
- Speed control and time program for ventilation function
- Defrost function for use at temperatures down to -10°C
- Incl. flow and return heating connection
- Smart grid function

CONDENSER

Type		Plate heat exchanger
Material		Stainless steel 1.4301
Max. refrigerant operating pressure	[bar]	25
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]	0.40
Internal pressure differential	[mbar]	20
Circulation pump heat sink WNA	[internal]	ZRS 12/2-3
Residual head I WNA external, incl. FM	[mbar]	130

REFRIGERANT CIRCUIT

Refrigerant		R134a
Refrigerant charge	[kg]	0.53

COMPRESSOR

Type		Rotary piston
Output levels		1
Start type		Direct
Voltage/frequency	[V]/[Hz]	220-240 / 50

FAN

Type		Radial fan
Number	[pce]	1
Voltage/frequency	[V]/[Hz]	220-240 / 50
Power consumption	[W]	68
Max. operating current	[A]	1.40
Unrestricted air flow	[m³/h]	360-510
Infinitely variable		built-in
External pressure	[Pa]	80

EVAPORATOR

Type		Finned tube heat exchanger
Material		Copper/aluminium
Number	[pce]	1
Defrost technology / frost protection shutdown		Hot gas
Max. refrigerant operating pressure	[bar]	25
Operating temperature min.	[°C]	-10
Operating temperature max.	[°C]	+40

PRODUCT DATA

<div> <div>A+</div> <div>XL</div> </div>			
LOAD PROFILE			
	COLDER	MEAN	HOTTER
Temperature setting in delivered condition	[°C]	52	
Sound pressure level indoor unit 1m	[dB]	49	
Smart grid ready (operation only in off-peak periods is possible)		Yes	