

## Subtype S-Serie 210

Certificate Holder	Andercore GmbH
Address	Münzstraße 19
ZIP	10178
City	Berlin
Country	DE
Certification Body	BRE Global Limited
Subtype title	S-Serie 210
Registration number	041-K034-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.85 kg
Certification Date	08.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

## Model Tilbakehr S-Serie 210

Model name	Tilbakehr S-Serie 210
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.00 kW	10.32 kW
El input	2.01 kW	3.13 kW
COP	4.99	3.30

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	58 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	194 %	148 %
Prated	9.29 kW	9.24 kW
SCOP	4.92	3.78
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.22 kW	8.17 kW
COP Tj = -7°C	3.17	2.58
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.04 kW	4.98 kW
COP Tj = +2°C	4.85	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.72 kW	5.56 kW

COP Tj = +7°C	6.11	4.67
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.23 kW	6.08 kW
COP Tj = 12°C	7.59	6.16
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.22 kW	8.17 kW
COP Tj = Tbiv	3.17	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	8.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	64 W	64 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.29 kW
Annual energy consumption Qhe	3903 kWh	5052 kWh