Subtype S-Serie 320	
Certificate Holder	Andercore GmbH
Address	Münzstraße 19
ZIP	10178
City	Berlin
Country	DE
Certification Body	BRE Global Limited
Subtype title	S-Serie 320
Registration number	041-K034-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.3 kg
Certification Date	08.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model Tilbakehr S-Serie 320	
Model name	Tilbakehr S-Serie 320
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	15.73 kW	17.03 kW
El input	3.94 kW	4.79 kW
COP	3.99	3.56

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	193 %	145 %
Prated	12.55 kW	12.34 kW
SCOP	4.91	3.70
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.11 kW	10.92 kW
COP Tj = -7°C	3.23	2.34
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.89 kW	6.80 kW
COP Tj = +2°C	4.83	3.58
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	7.30 kW	7.36 kW

COP Tj = +7°C	6.04	4.74
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.78 kW	7.39 kW
COP Tj = 12°C	7.46	6.12
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.11 kW	10.92 kW
COP Tj = Tbiv	3.23	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.61 kW	12.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.89	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	63 °C	63 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.01 kW
Annual energy consumption Qhe	5281 kWh	6895 kWh