

Subtype AEROTOP SPK20

Certificate Holder	ELCO GmbH
Address	Hohenzollernstrasse 31
ZIP	72379
City	Hechingen
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	AEROTOP SPK20
Registration number	011-1W0991
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.8 kg
Certification Date	03.03.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model AEROTOP SPK20

Model name	AEROTOP SPK20
Application	Heating (medium temp)
Units	Indoor, 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	23.59 kW	23.90 kW
El input	5.51 kW	8.57 kW
COP	4.28	2.79

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	207 %	153 %
Prated	18.00 kW	18.00 kW
SCOP	5.25	3.90
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.22 kW	15.66 kW
COP Tj = -7°C	3.17	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.92 kW	9.53 kW
COP Tj = +2°C	5.16	3.81
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	6.40 kW	5.97 kW
COP Tj = +7°C	7.18	5.33
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.22 kW	6.89 kW
COP Tj = 12°C	8.53	6.71
Cdh Tj = +12 °C	0.970	0.976
Pdh Tj = Tbiv	15.22 kW	17.64 kW
COP Tj = Tbiv	3.17	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.06 kW	17.64 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.94 kW	0.00 kW
Annual energy consumption Qhe	7079 kWh	9543 kWh