Subtype AEROTOP S.12.2 / S12.2_2-part

Certificate Holder	ELCO GmbH
Address	Hohenzollernstrasse 31
ZIP	72379
City	Hechingen
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	AEROTOP S.12.2 / S12.2_2-part
Registration number	011-1W0194
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.4 kg
Certification Date	17.12.2019

Model AEROTOP S12.2

Model name	AEROTOP S12.2
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
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	7.95 kW	7.37 kW
El input	1.64 kW	2.45 kW
COP	4.86	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	133 %
Prated	13.31 kW	12.62 kW
SCOP	4.76	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.77 kW	11.16 kW
COP Tj = -7°C	3.24	2.29
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.31 kW	6.97 kW
COP Tj = +2°C	4.52	3.27
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	4.69 kW	4.42 kW

COP Tj = +7°C	6.39	4.46
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	4.72 kW	4.77 kW
COP Tj = 12°C	7.55	6.28
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	11.77 kW	11.16 kW
COP Tj = Tbiv	3.24	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.25 kW	12.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.13
WTOL	65 °C	65 °C
Poff	28 W	28 W
PTO	28 W	28 W
PSB	28 W	28 W
PCK	28 W	28 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.06 kW	0.03 kW
Annual energy consumption Qhe	5889 kWh	7658 kWh

Model AEROTOP S12.2_2-part

Model name	AEROTOP S12.2_2-part
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
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	7.95 kW	7.37 kW
El input	1.64 kW	2.45 kW
COP	4.86	3.00

EN 12102-1 | Average Climate

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