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Summary of	AEROTOP M 024 027 032	Reg. No.	ICIM-PDC-000096-00
Certificate Holder			
Name	ELCO GmbH		
Address	Hohenzollernstrasse 31	Zip	72379
City	Hechingen	Country	Germany
Certification Body	ICIM S.p.A.		
Subtype title	AEROTOP M 024 027 032		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	7.9 kg		
Certification Date	30.03.2021		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: AEROTOP M 024

Configure model	
Model name	AEROTOP M 024
Application	Heating (low temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	25.30 kW	4.80 kW
El input	6.07 kW	1.90 kW
COP	4.17	2.53

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	129 %
Prated	21.00 kW	7.00 kW
SCOP	4.30	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	18.30 kW	5.90 kW
COP Tj = -7°C	2.95	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	11.20 kW	3.70 kW
COP Tj = +2°C	4.10	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	7.20 kW	2.50 kW
COP Tj = +7°C	5.60	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.10 kW	1.10 kW

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COP Tj = 12°C	6.82	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	20.70 kW	5.90 kW
COP Tj = Tbiv	2.73	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.70 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	9946 kWh	4202 kWh

Model: AEROTOP M 027

Configure model	
Model name	AEROTOP M 027
Application	Heating (low temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	28.20 kW	6.20 kW
El input	6.64 kW	2.38 kW
COP	4.25	2.61

Average Climate

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	Low temperature	Medium temperature
η_s	167 %	129 %
Prated	22.00 kW	7.00 kW
SCOP	4.25	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.10 kW	5.90 kW
COP Tj = -7°C	2.92	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	11.60 kW	3.70 kW
COP Tj = +2°C	4.00	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	7.50 kW	2.50 kW
COP Tj = +7°C	5.65	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.10 kW	1.10 kW
COP Tj = 12°C	6.82	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	21.60 kW	5.90 kW
COP Tj = Tbiv	2.70	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.60 kW	6.60 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10500 kWh	4202 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	64 dB(A)

Model: AEROTOP M 032

Configure model	
Model name	AEROTOP M 032
Application	Heating (low temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	32.00 kW	9.40 kW
El input	7.69 kW	3.30 kW
COP	4.16	2.85

Average Climate

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	Low temperature	Medium temperature
η_s	167 %	127 %
Prated	24.00 kW	9.00 kW
SCOP	4.24	3.26
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	20.90 kW	7.70 kW
COP Tj = -7°C	2.86	1.98
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	12.70 kW	4.90 kW
COP Tj = +2°C	3.98	3.02
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	8.20 kW	3.20 kW
COP Tj = +7°C	5.75	4.67
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.10 kW	1.40 kW
COP Tj = 12°C	6.82	6.16
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	23.60 kW	7.70 kW
COP Tj = Tbiv	2.57	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.60 kW	7.00 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	19 W	16 W
PTO	200 W	16 W
PSB	19 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	11514 kWh	5558 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	67 dB(A)