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Summary of	ELFOEnergy Storm EVO R-32 SH 25.2, 30.2, 35.2	Reg. No.	ICIM-PDC-000093-00
Certificate Holder			
Name	Clivet s.p.a.		
Address	Via camp lonc 25 c.ap.	Zip	I-32032
City	z.i. Villapaiera - Feltre (BL)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	ELFOEnergy Storm EVO R-32 SH 25.2, 30.2, 35.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	21 kg		
Certification Date	23.12.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 8		

Model: ELFOEnergy Storm EVO WSAN-YES 25.2 R32

Configure model	
Model name	ELFOEnergy Storm EVO WSAN-YES 25.2 R32
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 14511-2	
	Low temperature
Heat output	65.00 kW
El input	40.10 kW
COP	4.29

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

Average Climate

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EN 12102-1

	Low temperature
Sound power level outdoor	84 dB(A)

EN 14825

	Low temperature
η_s	160 %
Prated	53.00 kW
SCOP	4.08
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	44.70 kW
COP Tj = -7°C	2.84
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	27.50 kW
COP Tj = +2°C	4.19
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	29.40 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	35.10 kW

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COP Tj = 12°C	6.69
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	44.70 kW
COP Tj = Tbiv	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	40.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	0 kWh

Model: ELFOEnergy Storm EVO WSAN-YES 30.2 R32

Configure model	
Model name	ELFOEnergy Storm EVO WSAN-YES 30.2 R32
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 14511-2	
	Low temperature
Heat output	79.10 kW
El input	40.10 kW
COP	4.17

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

Average Climate

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EN 12102-1

	Low temperature
Sound power level outdoor	85 dB(A)

EN 14825

	Low temperature
η_s	160 %
Prated	57.00 kW
SCOP	4.07
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	50.00 kW
COP Tj = -7°C	2.78
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	29.20 kW
COP Tj = +2°C	4.11
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	30.40 kW
COP Tj = +7°C	5.29
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	35.50 kW

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COP Tj = 12°C	6.70
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	50.00 kW
COP Tj = Tbiv	2.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	45.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	0 kWh

Model: ELFOEnergy Storm EVO WSAN-YES 35.2 R32

Configure model	
Model name	ELFOEnergy Storm EVO WSAN-YES 35.2 R32
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 14511-2	
	Low temperature
Heat output	88.00 kW
El input	40.10 kW
COP	4.15

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

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

	Low temperature
Sound power level outdoor	85 dB(A)

EN 14825

	Low temperature
η_s	159 %
Prated	80.00 kW
SCOP	4.06
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	71.00 kW
COP Tj = -7°C	2.54
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	45.00 kW
COP Tj = +2°C	4.23
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	30.80 kW
COP Tj = +7°C	4.85
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	35.90 kW

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COP Tj = 12°C	6.84
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	71.00 kW
COP Tj = Tbiv	2.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	69.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	0 kWh