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Summary of	ELFOEnergy Storm EVO R-32 SH 18.2 , 20.2	Reg. No.	ICIM-PDC-000092-00
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 18.2 , 20.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	15 kg		
Certification Date	23.12.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 8		

Model: ELFOEnergy Storm EVO WSAN-YES 18.2 R32

Configure model	
Model name	ELFOEnergy Storm EVO WSAN-YES 18.2 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	54.00 kW
El input	25.60 kW
COP	4.07

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	83 dB(A)

EN 14825

	Low temperature
η_s	154 %
Prated	41.00 kW
SCOP	3.93
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	36.00 kW
COP Tj = -7°C	2.76
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	22.90 kW
COP Tj = +2°C	3.96
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	19.90 kW
COP Tj = +7°C	4.83
Cdh Tj = +7 °C	0.89
Pdh Tj = 12°C	24.40 kW

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COP Tj = 12°C	7.05
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	36.00 kW
COP Tj = Tbiv	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	32.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55
WTOL	55 °C
Poff	97 W
PTO	103 W
PSB	97 W
PCK	97 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 20.2 R32

Configure model	
Model name	ELFOEnergy Storm EVO WSAN-YES 20.2 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	61.00 kW
El input	25.60 kW
COP	4.00

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	83 dB(A)

EN 14825

	Low temperature
η_s	153 %
Prated	49.00 kW
SCOP	3.91
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	44.50 kW
COP Tj = -7°C	2.79
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	29.60 kW
COP Tj = +2°C	4.05
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	20.60 kW
COP Tj = +7°C	4.25
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	26.60 kW

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COP Tj = 12°C	7.02
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	44.50 kW
COP Tj = Tbiv	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	41.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56
WTOL	55 °C
Poff	97 W
PTO	103 W
PSB	97 W
PCK	97 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	0 kWh