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Summary of	ELFOEnergy SHEEN EVO 16.2, 18.2, 22.2	Reg. No.	ICIM-PDC-000061-00
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 SHEEN EVO 16.2, 18.2, 22.2		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	14 kg		
Certification Date	20.01.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: ELFOEnergy SHEEN EVO 16.2

Configure model	
Model name	ELFOEnergy SHEEN EVO 16.2
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	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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	48.60 kW	4.80 kW
El input	12.12 kW	1.90 kW
COP	4.01	2.53

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	84 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	154 %	129 %
Prated	31.00 kW	7.00 kW
SCOP	3.91	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	27.80 kW	5.90 kW
COP Tj = -7°C	2.72	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	16.90 kW	3.70 kW
COP Tj = +2°C	3.85	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	10.90 kW	2.50 kW
COP Tj = +7°C	4.90	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	14.20 kW	1.10 kW

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COP Tj = 12°C	6.02	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	31.40 kW	5.90 kW
COP Tj = Tbiv	2.42	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	31.40 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 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	16591 kWh	4202 kWh

Model: ELFOEnergy SHEEN EVO 18.2

Configure model	
Model name	ELFOEnergy SHEEN EVO 18.2
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	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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	54.00 kW	6.20 kW
El input	13.47 kW	2.38 kW
COP	4.01	2.61

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	85 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	153 %	129 %
Prated	34.00 kW	7.00 kW
SCOP	3.90	3.30
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.80 kW	5.90 kW
COP Tj = -7°C	2.67	2.00
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	18.10 kW	3.70 kW
COP Tj = +2°C	3.83	3.18
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	11.70 kW	2.50 kW
COP Tj = +7°C	4.95	4.52
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	14.20 kW	1.10 kW

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COP Tj = 12°C	6.02	5.09
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	33.70 kW	5.90 kW
COP Tj = Tbiv	2.35	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.70 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 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	17826 kWh	4202 kWh

Model: ELFOEnergy SHEEN EVO 22.2

Configure model	
Model name	ELFOEnergy SHEEN EVO 22.2
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	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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	62.00 kW	9.40 kW
El input	15.90 kW	3.30 kW
COP	3.90	2.85

Average Climate

This information was generated by the HP KEYMARK database on 21 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	86 dB(A)	67 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	152 %	127 %
Prated	37.00 kW	9.00 kW
SCOP	3.87	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	32.30 kW	7.70 kW
COP Tj = -7°C	2.59	1.98
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	19.70 kW	4.90 kW
COP Tj = +2°C	3.76	3.02
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	12.70 kW	3.20 kW
COP Tj = +7°C	5.04	4.67
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	14.20 kW	1.40 kW

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COP Tj = 12°C	6.02	6.16
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	32.30 kW	7.70 kW
COP Tj = Tbiv	2.59	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.40 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.28	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	54 °C	49 °C
Poff	30 W	16 W
PTO	404 W	16 W
PSB	30 W	16 W
PCK	0 W	34 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.20 kW	0.00 kW
Annual energy consumption Qhe	19512 kWh	5558 kWh