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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

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 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
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

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	33.70 kW	6.60 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	2.35	1.80
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	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 Q_{he}	17826 kWh	4202 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	85 dB(A)	64 dB(A)

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

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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
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

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	35.40 kW	7.00 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	2.28	1.78
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	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 Q_{he}	19512 kWh	5558 kWh

EN 12102-1

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