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Summary of	EDGE EVO 61 71 81 3Ph	Reg. No.	ICIM-PDC-000046-00
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.		
Name of testing laboratory	ReLab Politecnico Milano		
Subtype title	EDGE EVO 61 71 81 3Ph		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	2.8 kg		
Certification Date	07.11.2019		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: ELFOEnergy Edge EVO 61 (400V/3Ph/50Hz)

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	12.30 kW	11.90 kW
El input	2.54 kW	4.23 kW
COP	4.84	2.81
Indoor water flow rate	2.12 m³/h	1.28 m³/h

Average Climate

EN 14825

	Low temperature	**Medium temperature**
η_s	169 %	126 %
Prated	12.00 kW	13.00 kW
SCOP	4.29	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.52 kW	11.29 kW
COP Tj = -7°C	2.88	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	6.50 kW	7.31 kW
COP Tj = +2°C	4.15	3.14
Cdh	0.90	0.90
Pdh Tj = +7°C	4.12 kW	4.96 kW
COP Tj = +7°C	5.74	4.25
Cdh	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.37 kW
COP Tj = 12°C	5.40	4.94
Cdh	0.90	0.90
Pdh Tj = Tbiv	10.52 kW	11.29 kW
COP Tj = Tbiv	2.88	2.05
Pdh Tj = TOL	12.01 kW	11.88 kW

COP Tj = TOL	2.60	1.79
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	15 W	15 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	5726 kWh	8164 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

Model: ELFOEnergy Edge EVO 71 (400V/3Ph/50Hz)

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	14.10 kW	14.20 kW
El input	3.05 kW	5.09 kW
COP	4.63	2.79
Indoor water flow rate	2.43 m³/h	1.53 m³/h

Average Climate

EN 14825

	Low temperature	**Medium temperature**
η_s	168 %	128 %
Prated	14.00 kW	14.00 kW
SCOP	4.27	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.47 kW	12.18 kW
COP Tj = -7°C	2.84	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	7.48 kW	7.84 kW
COP Tj = +2°C	4.19	3.18
Cdh	0.90	0.90
Pdh Tj = +7°C	5.04 kW	5.21 kW
COP Tj = +7°C	5.99	4.29
Cdh	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.57 kW
COP Tj = 12°C	5.30	5.14
Cdh	0.90	0.90
Pdh Tj = Tbiv	12.47 kW	12.18 kW
COP Tj = Tbiv	2.84	2.05
Pdh Tj = TOL	12.72 kW	11.68 kW

COP Tj = TOL	2.51	1.74
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	26 W	26 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.40 kW	2.10 kW
Annual energy consumption Qhe	6819 kWh	8724 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)

Model: ELFOEnergy Edge EVO 81 (400V/3Ph/50Hz)

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	16.30 kW	16.10 kW
El input	3.63 kW	5.83 kW
COP	4.49	2.76
Indoor water flow rate	2.80 m³/h	1.73 m³/h

Average Climate

EN 14825

	Low temperature	**Medium temperature**
η_s	169 %	128 %
Prated	16.00 kW	15.00 kW
SCOP	4.30	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.15 kW	12.90 kW
COP Tj = -7°C	2.72	2.04
Cdh	0.90	0.90
Pdh Tj = +2°C	8.92 kW	8.25 kW
COP Tj = +2°C	4.17	3.21
Cdh	0.90	0.90
Pdh Tj = +7°C	5.64 kW	5.45 kW
COP Tj = +7°C	5.86	4.32
Cdh	0.90	0.90
Pdh Tj = 12°C	2.47 kW	2.57 kW
COP Tj = 12°C	6.28	5.12
Cdh	0.90	0.90
Pdh Tj = Tbiv	14.15 kW	12.90 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL	12.93 kW	11.16 kW

COP Tj = TOL	2.41	1.65
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	41 W	41 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	3.10 kW	3.40 kW
Annual energy consumption Qhe	7687 kWh	9216 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	71 dB(A)	71 dB(A)