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

#### Login

Summary of	EDGE EVO 61 71 81 3Ph	Reg. No.	ICIM-PDC-000046-00		
Certificate Holder	Certificate Holder				
Name	Clivet s.p.a.	Clivet s.p.a.			
Address	Via camp lonc 25 c.ap.	Via camp lonc 25 c.ap. Zip I-32032			
City	z.i. Villapaiera - Feltre (BL)	Country	Italy		
Certification Body	ICIM S.p.A.	ICIM S.p.A.			
Subtype title	EDGE EVO 61 71 81 3Ph	EDGE EVO 61 71 81 3Ph			
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water			
Refrigerant	R32				
Mass of Refrigerant	2.8 kg	2.8 kg			
Certification Date	07.11.2019	07.11.2019			
Testing basis	HP KEYMARK certification scheme rules rev. no. 7				



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

Configure model		
Model name ELFOEnergy Edge EVO 61 (400V/3Ph/50Hz)		
Application Heating (medium temp)		
Units Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

### Heating

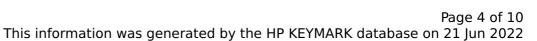
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.30 kW	11.90 kW
El input	2.54 kW	4.23 kW
СОР	4.84	2.81

### Average Climate

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)

EN 14825		
	Low temperature	Medium temperature
$\eta_s$	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	6.50 kW	7.31 kW
COP Tj = +2°C	4.15	3.14
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7$ °C	4.12 kW	4.96 kW
$COP Tj = +7^{\circ}C$	5.74	4.25





-	
0.90	0.90
2.23 kW	2.37 kW
5.40	4.94
0.90	0.90
10.52 kW	11.29 kW
2.88	2.05
12.01 kW	11.88 kW
2.60	1.79
0.90	0.90
60 °C	60 °C
9 W	9 W
15 W	15 W
9 W	9 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.90 kW
5726 kWh	8164 kWh
	2.23 kW 5.40 0.90 10.52 kW 2.88 12.01 kW 2.60 0.90 60 °C 9 W 15 W 9 W 0 W Electricity 0.00 kW



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

Configure model		
Model name ELFOEnergy Edge EVO 71 (400V/3Ph/50Hz)		
Application Heating (medium temp)		
Units Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply 3x400V 50Hz		

### Heating

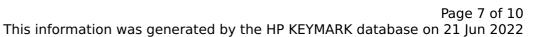
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.10 kW	14.20 kW
El input	3.05 kW	5.09 kW
СОР	4.63	2.79

### Average Climate

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)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 = $-7^{\circ}$ C	2.84	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = $+2$ °C	7.48 kW	7.84 kW
COP Tj = +2°C	4.19	3.18
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.04 kW	5.21 kW
COP Tj = +7°C	5.99	4.29





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Cdh Tj = +7 °C	0.90	0.90	
Pdh Tj = 12°C	2.23 kW	2.57 kW	
COP Tj = 12°C	5.30	5.14	
Cdh Tj = +12 °C	0.90	0.90	
Pdh Tj = Tbiv	12.47 kW	12.18 kW	
COP Tj = Tbiv	2.84	2.05	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.72 kW	11.68 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.74	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	9 W	9 W	
РТО	26 W	26 W	
PSB	9 W	9 W	
РСК	o w	o w	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	1.40 kW	2.10 kW	
Annual energy consumption Qhe	6819 kWh	8724 kWh	



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

Configure model		
Model name ELFOEnergy Edge EVO 81 (400V/3Ph/50Hz)		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	No	
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	16.30 kW	16.10 kW	
El input	3.63 kW	5.83 kW	
СОР	4.49	2.76	



### 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 indoor	dB(A)	dB(A)	
Sound power level outdoor	71 dB(A)	71 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	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 = $-7^{\circ}$ C	14.15 kW	12.90 kW
COP Tj = $-7$ °C	2.72	2.04
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = $+2$ °C	8.92 kW	8.25 kW
$COP Tj = +2^{\circ}C$	4.17	3.21
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	5.64 kW	5.45 kW
$COP Tj = +7^{\circ}C$	5.86	4.32



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Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.47 kW	2.57 kW
COP Tj = 12°C	6.28	5.12
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	14.15 kW	12.90 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.93 kW	11.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	9 W	9 W
РТО	41 W	41 W
PSB	9 W	9 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	3.40 kW
Annual energy consumption Qhe	7687 kWh	9216 kWh