

## Subtype ELFOEnergy Storm EVO R-32 SH 25.2, 30.2, 35.2

Certificate Holder	Clivet s.p.a.
Address	Via camp lonc 25 c.ap.
ZIP	I-32032
City	z.i. Villapaiera - Feltre (BL)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	ELFOEnergy Storm EVO R-32 SH 25.2, 30.2, 35.2
Registration number	ICIM-PDC-000093-00
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	21 kg
Certification Date	23.12.2020
Testing basis	HP KEYMARK certification scheme rules rev. 8

## Model ELFOEnergy Storm EVO WSAN-YES 25.2 R32

Model name	ELFOEnergy Storm EVO WSAN-YES 25.2 R32
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	160 %	
Prated	53.00 kW	
SCOP	4.08	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	44.70 kW	
COP Tj = -7°C	2.84	
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	27.50 kW	
COP Tj = +2°C	4.19	
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	29.40 kW	
COP Tj = +7°C	5.18	
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	35.10 kW	
COP Tj = 12°C	6.69	
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	44.70 kW	
COP Tj = Tbiv	2.84	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	40.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 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 30.2 R32

Model name	ELFOEnergy Storm EVO WSAN-YES 30.2 R32
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	160 %	
Prated	57.00 kW	
SCOP	4.07	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	50.00 kW	
COP Tj = -7°C	2.78	
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	29.20 kW	
COP Tj = +2°C	4.11	
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	30.40 kW	
COP Tj = +7°C	5.29	
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	35.50 kW	
COP Tj = 12°C	6.70	
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	50.00 kW	
COP Tj = Tbiv	2.78	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	45.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 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 35.2 R32

Model name	ELFOEnergy Storm EVO WSAN-YES 35.2 R32
Application	Heating (low temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	159 %	
Prated	80.00 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	71.00 kW	
COP Tj = -7°C	2.54	
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	45.00 kW	
COP Tj = +2°C	4.23	
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	30.80 kW	
COP Tj = +7°C	4.85	
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	35.90 kW	
COP Tj = 12°C	6.84	
Cdh Tj = +12 °C	0.90	
Pdh Tj = Tbiv	71.00 kW	
COP Tj = Tbiv	2.54	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	69.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30
WTOL	55 °C
Poff	116 W
PTO	280 W
PSB	116 W
PCK	116 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	0 kWh