

## Subtype Air Source Heat Pump-R32-14

Certificate Holder	ENVIRON Energie- und Umwelttechnik GmbH und Co.KG
Address	Robert-Bosch-Straße 9
ZIP	78048
City	Villingen
Country	DE
Certification Body	BRE Global Limited
Subtype title	Air Source Heat Pump-R32-14
Registration number	041-K110-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.8 kg
Certification Date	19.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15

## Model ENHP-14-R32

Model name	ENHP-14-R32
Application	Heating (medium 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	14.75 kW	14.87 kW
El input	3.17 kW	4.87 kW
COP	4.66	3.05

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	10.71 kW	10.28 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.48 kW	9.10 kW
COP Tj = -7°C	3.28	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.81 kW	5.53 kW
COP Tj = +2°C	4.31	3.13
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.50 kW	5.98 kW

COP Tj = +7°C	5.94	4.38
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.32 kW	6.79 kW
COP Tj = 12°C	8.28	6.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.48 kW	9.10 kW
COP Tj = Tbiv	3.28	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.23 kW	10.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	15 W	15 W
PTO	17 W	17 W
PSB	15 W	15 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.48 kW	0.01 kW
Annual energy consumption Qhe	4919 kWh	6540 kWh