

Subtype Air Source Heat Pump-R32-24

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-R32-24
Registration number	041-K110-05
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.5 kg
Certification Date	19.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15

Model ENHP-24-R32

Model name	ENHP-24-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	24.16 kW	24.51 kW
El input	5.59 kW	7.99 kW
COP	4.32	3.07

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	73 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	130 %
Prated	16.04 kW	16.75 kW
SCOP	4.51	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.19 kW	14.82 kW
COP Tj = -7°C	3.10	2.19
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.66 kW	9.35 kW
COP Tj = +2°C	4.52	3.49
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.35 kW	7.70 kW

COP Tj = +7°C	5.63	3.62
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	8.06 kW	8.61 kW
COP Tj = 12°C	7.79	6.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.19 kW	14.82 kW
COP Tj = Tbiv	3.10	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.00 kW	15.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	14 W	14 W
PTO	33 W	33 W
PSB	14 W	14 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.04 kW	0.93 kW
Annual energy consumption Qhe	7354 kWh	10423 kWh