

Subtype Air Source Heat Pump-R32-10

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-R32-10
Registration number	041-K110-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	19.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15

**Model ENHP-10-R32**

Model name	ENHP-10-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	1x230V 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	10.31 kW	9.28 kW
El input	2.31 kW	2.97 kW
COP	4.47	3.13

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	176 %	126 %
Prated	7.86 kW	7.26 kW
SCOP	4.47	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.95 kW	6.42 kW
COP Tj = -7°C	3.25	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.19 kW	4.11 kW
COP Tj = +2°C	4.47	3.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.02 kW	3.71 kW

COP Tj = +7°C	5.70	4.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.94 kW	4.12 kW
COP Tj = 12°C	8.34	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.95 kW	6.42 kW
COP Tj = Tbiv	3.25	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.41 kW	6.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	9 W	9 W
PTO	19 W	19 W
PSB	9 W	9 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.45 kW	0.91 kW
Annual energy consumption Qhe	3630 kWh	4634 kWh