

Subtype Air Source Heat Pump-R32-18

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-R32-18
Registration number	041-K110-04
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-18-R32

Model name	ENHP-18-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	18.62 kW	18.66 kW
El input	4.05 kW	5.99 kW
COP	4.60	3.12

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	128 %
Prated	13.75 kW	13.73 kW
SCOP	4.53	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.17 kW	12.15 kW
COP Tj = -7°C	3.41	2.52
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.39 kW	7.36 kW
COP Tj = +2°C	4.39	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.46 kW	5.86 kW

COP Tj = +7°C	5.62	3.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.28 kW	6.83 kW
COP Tj = 12°C	7.99	5.12
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	12.15 kW
COP Tj = Tbiv	3.41	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.39 kW	11.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	11 W	11 W
PTO	37 W	37 W
PSB	11 W	11 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.37 kW	2.70 kW
Annual energy consumption Qhe	6271 kWh	8646 kWh