Subtype VARMERO VPM 9020

Certificate Holder	OEM ENERGY
Address	ul. Składowa 17
ZIP	41-500
City	Chorzów
Country	PL
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	VARMERO VPM 9020
Registration number	037-0192-25
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 kg
Certification Date	21.01.2025
Testing basis	HP Keymark certification scheme rules rev. no.14
Testing laboratory	SZU Brno, CZ

Model VARMERO VPM 9020	
Model name	VARMERO VPM 9020
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	9.56 kW	9.83 kW
El input	1.82 kW	2.87 kW
COP	5.25	3.42

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	0 dB(A)	45 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	187 %	151 %
Prated	14.00 kW	13.50 kW
SCOP	4.76	3.85
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.58 kW	11.14 kW
COP Tj = -7°C	3.27	2.56
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.00 kW	6.56 kW
COP Tj = +2°C	4.42	3.57
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.65 kW	5.09 kW

COP Tj = +7°C	6.51	5.26
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.17 kW	5.18 kW
COP Tj = 12°C	7.95	7.10
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.26 kW	12.87 kW
COP Tj = Tbiv	2.62	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.26 kW	12.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6077 kWh	7254 kWh