Subtype DVI AW-407-12

Certificate Holder	DVI Energi A/S
Address	
ZIP	
City	
Country	DK
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	DVI AW-407-12
Registration number	037-0169-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	5 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI AW-407-12

Model name	DVI AW-407-12
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
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	12.53 kW	12.00 kW
El input	3.16 kW	4.34 kW
COP	3.93	2.76

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	154 %	129 %
Prated	10.50 kW	9.91 kW
SCOP	3.92	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.29 kW	8.77 kW
COP Tj = -7°C	2.97	2.21
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	11.04 kW	10.85 kW
COP Tj = +2°C	3.72	3.07
Cdh Tj = +2 °C	0.999	0.999
Pdh Tj = +7°C	14.24 kW	15.00 kW
COP Tj = +7°C	4.76	4.43

Cdh Tj = +7 °C	1.000	0.999
Pdh Tj = 12°C	19.50 kW	18.71 kW
COP Tj = 12°C	6.07	5.78
Cdh Tj = +12 °C	1.000	0.999
Pdh Tj = Tbiv	9.29 kW	8.77 kW
COP Tj = Tbiv	2.97	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.63 kW	8.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	6 W	12 W
PSB	6 W	7 W
PCK	W	W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	1.59 kW
Annual energy consumption Qhe	5528 kWh	6200 kWh