Subtype DVI AW-407-16

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-407-16
Registration number	037-0170-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	5.2 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI AW-407-16

Model name	DVI AW-407-16
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	20.61 kW	19.79 kW
El input	4.38 kW	4.12 kW
COP	4.70	4.80

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	166 %	140 %
Prated	12.23 kW	13.02 kW
SCOP	4.22	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.82 kW	11.52 kW
COP Tj = -7°C	3.10	2.40
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	14.63 kW	14.27 kW
COP Tj = +2°C	4.20	3.40
Cdh Tj = +2 °C	0.999	0.999
Pdh Tj = +7°C	20.61 kW	19.79 kW
COP Tj = +7°C	4.80	4.70

Cdh Tj = +7 °C	0.999	0.999
Pdh Tj = 12°C	23.20 kW	22.59 kW
COP Tj = 12°C	6.40	5.80
Cdh Tj = +12 °C	0.999	0.999
Pdh Tj = Tbiv	10.82 kW	11.52 kW
COP Tj = Tbiv	3.10	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.90 kW	10.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	2.06
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	12 W	12 W
PSB	7 W	7 W
PCK	W	W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.15 kW	2.18 kW
Annual energy consumption Qhe	5991 kWh	7522 kWh