Subtype DVI BW-407-7

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 BW-407-7
Registration number	037-0179-24
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.3 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI BW-407-7

Model name	DVI BW-407-7
Application	Heating (medium temp)
Units	Indoor
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

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.05 kW	7.34 kW
El input	1.68 kW	2.36 kW
COP	4.79	3.11

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	195 %	149 %
Prated	9.16 kW	8.39 kW
SCOP	5.09	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.10 kW	7.42 kW
COP Tj = -7°C	4.85	3.27
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.13 kW	7.71 kW
COP Tj = +2°C	5.08	3.90
Cdh Tj = +2 °C	0.999	0.999
Pdh Tj = +7°C	8.21 kW	7.87 kW
COP Tj = +7°C	5.31	4.33
Cdh Tj = +7 °C	0.999	0.999

Pdh Tj = 12°C	8.31 kW	8.03 kW
COP Tj = 12°C	5.55	4.79
Cdh Tj = +12 °C	0.999	0.999
Pdh Tj = Tbiv	8.10 kW	7.42 kW
COP Tj = Tbiv	4.85	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.05 kW	7.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.79	3.11
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	10 W	10 W
PSB	9 W	9 W
PCK	W	W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.03 kW	0.98 kW
Annual energy consumption Qhe	3721 kWh	4419 kWh