

Subtype DVI BW-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 BW-407-12
Registration number	037-0181-24
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.8 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI BW-407-12

Model name	DVI BW-407-12
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	13.98 kW	12.46 kW
El input	3.26 kW	4.25 kW
COP	4.28	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	172 %	134 %
Prated	15.92 kW	14.24 kW
SCOP	4.51	3.54
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.08 kW	12.60 kW
COP Tj = -7°C	4.31	3.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	14.17 kW	13.21 kW
COP Tj = +2°C	4.52	3.53
Cdh Tj = +2 °C	0.999	0.998
Pdh Tj = +7°C	14.34 kW	13.53 kW
COP Tj = +7°C	4.73	3.89
Cdh Tj = +7 °C	0.999	0.998

Pdh Tj = 12°C	14.51 kW	13.90 kW
COP Tj = 12°C	4.94	4.29
Cdh Tj = +12 °C	0.999	0.998
Pdh Tj = Tbiv	14.08 kW	12.60 kW
COP Tj = Tbiv	4.31	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.98 kW	12.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	16 W	16 W
PTO	17 W	31 W
PSB	16 W	16 W
PCK	W	W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.79 kW	1.65 kW
Annual energy consumption Qhe	7298 kWh	8315 kWh