Subtype DVI BW-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 BW-407-16
Registration number	037-0182-24
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	2 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI BW-407-16

Model name	DVI BW-407-16
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	16.40 kW	14.94 kW
El input	3.99 kW	3.99 kW
COP	4.12	2.78

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	170 %	136 %
Prated	19.22 kW	17.70 kW
SCOP	4.45	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.00 kW	15.66 kW
COP Tj = -7°C	4.29	3.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	17.04 kW	16.17 kW
COP Tj = +2°C	4.46	3.60
Cdh Tj = +2 °C	0.999	0.999
Pdh Tj = +7°C	17.16 kW	16.58 kW
COP Tj = +7°C	4.65	3.91
Cdh Tj = +7 °C	0.999	0.999

Pdh Tj = 12°C	17.27 kW	16.93 kW
COP Tj = 12°C	4.85	4.28
Cdh Tj = +12 °C	0.999	0.999
Pdh Tj = Tbiv	17.00 kW	15.66 kW
COP Tj = Tbiv	4.29	3.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.40 kW	14.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	W	W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.60 kW	2.55 kW
Annual energy consumption Qhe	8924 kWh	10145 kWh