Subtype DVI AW-290-40

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-290-40
Registration number	037-0177-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.2 kg
Certification Date	09.05.2024
Testing basis	HP Keymark scheme rules rev. no. 12
Testing laboratory	SZU Brno, CZ

Model DVI AW-290-40	
Model name	DVI AW-290-40
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	44.20 kW	44.00 kW
El input	9.40 kW	9.56 kW
COP	4.70	4.60

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	167 %	142 %
Prated	23.90 kW	23.30 kW
SCOP	4.25	3.62
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	26.50 kW	25.60 kW
COP Tj = -7°C	3.30	2.40
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	35.90 kW	34.80 kW
COP Tj = +2°C	4.20	3.50
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	44.20 kW	44.00 kW
COP Tj = +7°C	4.70	4.60

Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	50.20 kW	49.60 kW
COP Tj = 12°C	5.80	5.60
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	23.90 kW	23.30 kW
COP Tj = Tbiv	2.90	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.90 kW	23.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	4 W	4 W
PTO	4 W	4 W
PSB	10 W	10 W
PCK	W	W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	11649 kWh	13291 kWh