CEN heat pump
KEYMARK

Registration number 007-DQ0203

Subtype Air/water HP R290 Monobloc outdoor unit 230V 8kW + Air/water/tank 6-12 kW Monobloc indoor unit

Certificate Holder	ES Heat Pumps AB
Address	Metallgatan 2
ZIP	441 32
City	Alingsås
Country	SE
Certification Body	Kiwa Nederland B.V.
Subtype title	Air/water HP R290 Monobloc outdoor unit 230V 8kW + Air/water/tank 6-12 kW Monobloc indoor unit
Registration number	007-DQ0203
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	20.06.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v15)
Testing laboratory	KIWA, NL

Model ES M8 R290 + ES M100L ST	
Model name	ES M8 R290 + ES M100L ST
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	M
Efficiency ηDHW	73 %
COP	1.81
Heating up time	1:32 h:min
Standby power input	40.0 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	105 l

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	5.13 kW	5.81 kW
El input	1.01 kW	1.80 kW
COP	5.06	3.23

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	194 %	146 %

Prated	7.22 kW	6.50 kW
SCOP	4.93	3.72
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	5.75 kW
COP Tj = -7°C	3.18	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	3.68 kW
COP Tj = +2°C	4.95	3.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.31 kW	3.06 kW
COP Tj = +7°C	6.48	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.88 kW	3.72 kW
COP Tj = 12°C	8.42	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.39 kW	5.75 kW
COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.21 kW
Annual energy consumption Qhe	3026 kWh	3611 kWh

Model ES M8 R290 + ES M100L ST UK	
Model name	ES M8 R290 + ES M100L ST UK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	M
Efficiency ηDHW	73 %
COP	1.81
Heating up time	1:32 h:min
Standby power input	40.0 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	105 l

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	5.13 kW	5.81 kW
El input	1.01 kW	1.80 kW
COP	5.06	3.23

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	194 %	146 %

Prated	7.22 kW	6.50 kW
SCOP	4.93	3.72
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	5.75 kW
COP Tj = -7°C	3.18	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	3.68 kW
COP Tj = +2°C	4.95	3.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.31 kW	3.06 kW
COP Tj = +7°C	6.48	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.88 kW	3.72 kW
COP Tj = 12°C	8.42	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.39 kW	5.75 kW
COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.21 kW
Annual energy consumption Qhe	3026 kWh	3611 kWh

Model HP 8kW R290 + HP M100L ST	
Model name	HP 8kW R290 + HP M100L ST
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	M
Efficiency ηDHW	73 %
COP	1.81
Heating up time	1:32 h:min
Standby power input	40.0 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	105 l

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	5.13 kW	5.81 kW
El input	1.01 kW	1.80 kW
COP	5.06	3.23

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	194 %	146 %

Prated	7.22 kW	6.50 kW
SCOP	4.93	3.72
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	5.75 kW
COP Tj = -7°C	3.18	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	3.68 kW
COP Tj = +2°C	4.95	3.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.31 kW	3.06 kW
COP Tj = +7°C	6.48	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.88 kW	3.72 kW
COP Tj = 12°C	8.42	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.39 kW	5.75 kW
COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.21 kW
Annual energy consumption Qhe	3026 kWh	3611 kWh

Model HP 8kW R290 + HP M100L ST UK	
Model name	HP 8kW R290 + HP M100L ST UK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	M
Efficiency ηDHW	73 %
COP	1.81
Heating up time	1:32 h:min
Standby power input	40.0 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	105 l

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	5.13 kW	5.81 kW
El input	1.01 kW	1.80 kW
COP	5.06	3.23

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	dB(A)	
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	146 %

Prated	7.22 kW	6.50 kW
SCOP	4.93	3.72
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.39 kW	5.75 kW
COP Tj = -7°C	3.18	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.98 kW	3.68 kW
COP Tj = +2°C	4.95	3.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.31 kW	3.06 kW
COP Tj = +7°C	6.48	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.88 kW	3.72 kW
COP Tj = 12°C	8.42	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.39 kW	5.75 kW
COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.21 kW
Annual energy consumption Qhe	3026 kWh	3611 kWh