

Subtype DC Inverter Air to Water Heat Pump Unit 09

Certificate Holder	ES Heat Pumps AB
Address	Metallgatan 2
ZIP	441 32
City	Alingsås
Country	SE
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit 09
Registration number	041-K057-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	13.06.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW9-R32-M

Model name	Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW9-R32-M
Application	Heating (medium temp)
Units	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 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	5.72 kW	8.04 kW
El input	1.09 kW	3.16 kW
COP	5.26	2.54

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	130 %
Prated	6.39 kW	5.97 kW
SCOP	4.61	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.65 kW	5.28 kW
COP Tj = -7°C	3.19	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.36 kW	3.15 kW

COP Tj = +7°C	6.36	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.96 kW	3.73 kW
COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW9-R32-M

Model name	Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW9-R32-M
Application	Heating (medium temp)
Units	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

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Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900
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COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW9-R32-M

Model name	Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW9-R32-M
Application	Heating (medium temp)
Units	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 14511-4 | Heating

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Starting and operating test	passed

EN 14511-2 | Heating

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Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.36 kW	3.15 kW

COP Tj = +7°C	6.36	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.96 kW	3.73 kW
COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
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WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW9-R32-M-V8

Model name	Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW9-R32-M-V8
Application	Heating (medium temp)
Units	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 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	5.72 kW	8.04 kW
El input	1.09 kW	3.16 kW
COP	5.26	2.54

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	130 %
Prated	6.39 kW	5.97 kW
SCOP	4.61	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.65 kW	5.28 kW
COP Tj = -7°C	3.19	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	3.36 kW	3.15 kW
COP Tj = +7°C	6.36	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.96 kW	3.73 kW
COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW9-R32-M-V8

Model name	Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW9-R32-M-V8
Application	Heating (medium temp)
Units	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 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	5.72 kW	8.04 kW
El input	1.09 kW	3.16 kW
COP	5.26	2.54

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	54 dB(A)

EN 14825 | Average Climate

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η_s	181 %	130 %
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Pdh Tj = -7°C	5.65 kW	5.28 kW
COP Tj = -7°C	3.19	1.94
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.52 kW	3.41 kW
COP Tj = +2°C	4.43	3.34
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	3.36 kW	3.15 kW
COP Tj = +7°C	6.36	4.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.96 kW	3.73 kW
COP Tj = 12°C	8.37	6.49
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.65 kW	5.28 kW
COP Tj = Tbiv	3.19	1.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	10 W	10 W
PTO	19 W	19 W
PSB	10 W	10 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW9-R32-S-V8

Model name	Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW9-R32-S-V8
Application	Heating (medium temp)
Units	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 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	5.72 kW	8.04 kW
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PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	1.17 kW
Annual energy consumption Qhe	2864 kWh	3720 kWh

Model Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW9-R32-S-V8

Model name	Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW9-R32-S-V8
Application	Heating (medium temp)
Units	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

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