

Subtype DC Inverter Air to Water Heat Pump Unit 12

Certificate Holder	ES Heat Pumps AB
Address	Nitgatan 2
ZIP	441 38
City	Alingsås
Country	SE
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit 12
Registration number	041-K057-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	13.06.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW12-R32-M

Model name	Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW12-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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	132 %
Prated	8.79 kW	7.07 kW
SCOP	4.60	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.78 kW	6.26 kW
COP Tj = -7°C	3.25	1.79
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.91 kW	3.84 kW
COP Tj = +2°C	4.46	3.46
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.06 kW
COP Tj = +7°C	6.16	4.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.87 kW
COP Tj = 12°C	8.24	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	6.26 kW
COP Tj = Tbiv	3.25	1.79

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.36 kW	5.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW12-R32-M

Model name	Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW12-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

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COP Tj = +7°C	6.16	4.84
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Pdh Tj = Tbiv	7.78 kW	6.26 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW12-R32-M

Model name	Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW12-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

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COP Tj = +2°C	4.46	3.46
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.06 kW
COP Tj = +7°C	6.16	4.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.87 kW
COP Tj = 12°C	8.24	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	6.26 kW
COP Tj = Tbiv	3.25	1.79

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.36 kW	5.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW12-R32-M-V8

Model name	Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW12-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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	132 %
Prated	8.79 kW	7.07 kW
SCOP	4.60	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.78 kW	6.26 kW
COP Tj = -7°C	3.25	1.79
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.91 kW	3.84 kW
COP Tj = +2°C	4.46	3.46
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.06 kW
COP Tj = +7°C	6.16	4.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.87 kW
COP Tj = 12°C	8.24	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	6.26 kW

COP $T_j = T_{biv}$	3.25	1.79
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.36 kW	5.86 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.78	1.78
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.900	0.900
WTOL	56 °C	56 °C
P _{off}	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Q _{he}	3944 kWh	4345 kWh

Model Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW12-R32-M-V8

Model name	Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW12-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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	132 %
Prated	8.79 kW	7.07 kW
SCOP	4.60	3.36
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	7.78 kW	6.26 kW
COP Tj = -7°C	3.25	1.79
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.91 kW	3.84 kW
COP Tj = +2°C	4.46	3.46
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.19 kW	4.06 kW
COP Tj = +7°C	6.16	4.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.02 kW	4.87 kW
COP Tj = 12°C	8.24	6.74
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	6.26 kW

COP Tj = Tbiv	3.25	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.36 kW	5.86 kW
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WTOL	56 °C	56 °C
Poff	17 W	9 W
PTO	25 W	25 W
PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW12-R32-S-V8

Model name	Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW12-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 12102-1 | Average Climate

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PSB	17 W	9 W
PCK	33 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.21 kW
Annual energy consumption Qhe	3944 kWh	4345 kWh

Model Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW12-R32-S-V8

Model name	Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW12-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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