

Subtype DC Inverter Air to Water Heat Pump Unit 06

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 06
Registration number	041-K057-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.9 kg
Certification Date	13.06.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12

Model Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW6-R32-M

Model name	Indoor Unit: AWT6/12-R32-M, Outdoor Unit: AW6-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	180 %	133 %
Prated	4.13 kW	4.56 kW
SCOP	4.58	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.66 kW	4.04 kW
COP Tj = -7°C	3.15	2.03
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.49 kW
COP Tj = +2°C	4.45	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.66 kW	2.49 kW
COP Tj = +7°C	6.43	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.15 kW	3.01 kW
COP Tj = 12°C	8.64	6.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.66 kW	4.04 kW
COP Tj = Tbiv	3.15	2.03

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	13 W	10 W
PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Qhe	1865 kWh	2770 kWh

Model Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW6-R32-M

Model name	Indoor Unit: AWST6/15-R32-M, Outdoor Unit: AW6-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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PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Qhe	1865 kWh	2770 kWh

Model Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW6-R32-M

Model name	Indoor Unit: AWC6/19-R32-M, Outdoor Unit: AW6-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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Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.66 kW	2.49 kW
COP Tj = +7°C	6.43	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.15 kW	3.01 kW
COP Tj = 12°C	8.64	6.83
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Pdh Tj = Tbiv	3.66 kW	4.04 kW
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WTOL	57 °C	57 °C
Poff	13 W	10 W
PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Qhe	1865 kWh	2770 kWh

Model Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW6-R32-M-V8

Model name	Indoor Unit: AWST6/15-R32-M-V8, Outdoor Unit: AW6-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
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TOL	-10 °C	-10 °C
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COP Tj = -7°C	3.15	2.03
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.49 kW
COP Tj = +2°C	4.45	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.66 kW	2.49 kW
COP Tj = +7°C	6.43	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.15 kW	3.01 kW
COP Tj = 12°C	8.64	6.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.66 kW	4.04 kW

COP $T_j = T_{biv}$	3.15	2.03
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.15 kW	3.48 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.80	1.71
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.900	0.900
WTOL	57 °C	57 °C
P _{off}	13 W	10 W
PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Q _{he}	1865 kWh	2770 kWh

Model Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW6-R32-M-V8

Model name	Indoor Unit: AWC6/19-R32-M-V8, Outdoor Unit: AW6-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	180 %	133 %
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SCOP	4.58	3.40
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TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.66 kW	4.04 kW
COP Tj = -7°C	3.15	2.03
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.49 kW
COP Tj = +2°C	4.45	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.66 kW	2.49 kW
COP Tj = +7°C	6.43	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.15 kW	3.01 kW
COP Tj = 12°C	8.64	6.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.66 kW	4.04 kW

COP $T_j = T_{biv}$	3.15	2.03
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.15 kW	3.48 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.80	1.71
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.900	0.900
WTOL	57 °C	57 °C
P _{off}	13 W	10 W
PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Q _{he}	1865 kWh	2770 kWh

Model Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW6-R32-S-V8

Model name	Indoor Unit: AWST6/12-R32-S-V8, Outdoor Unit: AW6-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

	Low temperature	Medium temperature
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PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Qhe	1865 kWh	2770 kWh

Model Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW6-R32-S-V8

Model name	Indoor Unit: AWH6/12-R32-S-V8, Outdoor Unit: AW6-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

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

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