

Aquami Split heat pump AQS120X30^[R14] / AQS160X13i^[R14]



Device features

tl¹

Efficient

heating

Smart Grid

functionality

⊛ Г____ 30m

Maximum

installation length

up to 30m

Integrated

temperature



Environmentally friendly refrigerant R32



Energy meter





split unit housing



Multilanguage menu



Prepared to create

a cascade system

sensor MODBU



Protocol



 Δ_{c}^{tr}

class at 35°C

A+++

Twin rotary

compressor

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Silent

mode

Weather operating

modes (climate curve)

Energy efficiency class at 55°C A++

 Δ_{a}^{μ}



Integrated electric heater

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COP

4,95

Maximum

COP 4,95

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Built-in Wi-Fi module



2 heating control zones

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application





WIE

-25°C

Operating range down to -25°C

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Compressor

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Configurable

weekly schedules

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DHW circulation pump operation schedules



Integrated USB port for updates

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Easy installation and maintenance





Maximum leaving water temperature of 60°C (in DHW mode)

crankcase heater

MON

Daily operation schedule



Disinfection





Vacation

mode

▲ 65°C

M

Supply water

temperature

of 65°C

Indoor unit

drip tray

** Aľ



Menu in English



ZOTENSO[®]

Specification indoor unit

| Model | | | | AQ\$160X13i R14 |
|----------------------------------|---|-------------------------------------|-------------|----------------------------------|
| EAN Code | | | | 5905567602139 |
| Operation modes | | | | Heating and cooling |
| Leaving water temperature | Surface cooling | | °C | 5~25 |
| | Surface heating | | °C | 25~65 |
| | DHW (tank) | | °C | 30~60 |
| Power supply | | | V-Hz, Ø | 220-240-50, 1f / 380-420-50, 3f |
| Rated input / Operating current | | | W/A | 9095 / 13,5 |
| Sound power level | | dB(A) | 43 | |
| Electric heater | Power supply | | V-Hz, Ø | 220-240-50, 1f / 380-420-50, 3f |
| | Number of heating stages / Power | | pcs. / kW | 3 / 9 (3 + 3 + 3) |
| | Maximum running current | | A | 13,3 |
| Net dimensions (W×D×H) | | mm | 420×270×790 | |
| Gross dimensions | | | mm | 525 × 360 × 1050 |
| Net weight / Gross v | Net weight / Gross weight | | kg | 39/45 |
| | Water connections | | inch | R1" external |
| | Pressure relief valve | | MPa | 0,3 |
| | Condensate drain | | mm | Φ25 |
| | Expansion tank | Total volume / Actual volume | I. | 8 / 4,8 |
| Water circuit | | Maximum pressure / Initial pressure | MPa | 0,3 / 0,1 |
| | PHE / plate heat Type | | | PHE / plate heat exchanger |
| | exchanger | Minimum flow | l/min | 10 |
| | Water pump head | | m | 9 |
| | Water pump type | | | DC. |
| Refrigerant circuit Liquid / Gas | | | mm | Φ9,52 (3/8") / Φ15,9 (5/8") |
| Minimal wire pcs an | Minimal wire pcs and dimension of cords* pcs × mm ² | | | 5×2,5 |
| Control cables: indo | Control cables: indoor unit to outdoor unit pcs × mm ² | | | $2 \times 0,75$ (shielded cable) |

Specification outdoor unit

| Model | | | AQ5120X3o R14 | | |
|---|---|---------------------|------------------------------------|--|--|
| EAN Code | | | 5905567602085 | | |
| Power supply | | | 380-420~50, 3f | | |
| | Capacity | kW | 12,10 | | |
| Heating (A7/W35) | Rated input | kW | 2,44 | | |
| | COP | | 4,95 | | |
| | Capacity | kW | 12,30 | | |
| Heating | Rated input | kW | 3,24 | | |
| (A7/W45) | COP | | 3.80 | | |
| | Capacity | kW | 12,00 | | |
| Heating | Rated input | kW | 3.87 | | |
| (A7/W55) | COP | KVV | | | |
| | | | 3,10 | | |
| Cooling | Capacity | kW | 12,00 | | |
| (A35/W18) | Rated input | kW | 3,00 | | |
| | EER | | 4,00 | | |
| Cooling | Capacity | kW | 11,60 | | |
| (A35/W7) | Rated input | kW | 4,22 | | |
| (, | EER | | 2,75 | | |
| | SCOP ⁽¹⁾ | | 4,81 | | |
| Seasonal energy | Rated heat output | kW | 12 | | |
| efficiency | Seasonal energy efficiency ratio (ŋS) | 96 | 189,4 | | |
| LWT 35°C | Annual energy consumption | kWh | 5152 | | |
| | Seasonal space heating energy efficiency class ⁽¹⁾ | | A+++ | | |
| | SCOP ⁽¹⁾ | | 3,45 | | |
| Seasonal energy | Rated heat output | kW | 11,6 | | |
| efficiency | Seasonal energy efficiency ratio (ηS) | % | 135,1 | | |
| LWT 55°C | Annual energy consumption | kWh | 6927 | | |
| | Seasonal space heating energy efficiency class (1) | | | | |
| | LWT at 7°C | | 486 | | |
| SEER | LWT at 8°C | | 7,04 | | |
| Minimum anteral array | | A | B16 | | |
| | rent of the overcurrent circuit breaker with breaker type | A | | | |
| Compressor | Type | | Twin rotary inverter compressor DC | | |
| Fan | Туре | | Brushless DC motor / BLDC | | |
| | Quantity | | 1 | | |
| | Type/ GWP | | R32 / 675 | | |
| Refrigerant | Charged (<15m) | kg | 1,84 | | |
| | | TCO ₂ eq | 1,24 | | |
| | Liquid / Gas | mm | Φ9,52 (3/8°) / Φ15,9 (5/8°) | | |
| Pipe connections | Minimum installation length | m | 2 | | |
| ripe connections | Maximum installation length | m | 30 | | |
| | Additional amount of refrigerant for over 15 linear meters | g/m | 38 | | |
| Maximum height | Outdoor unit above the indoor unit | m | 20 | | |
| difference | Outdoor unit below the indoor unit | m | 20 | | |
| Minimal wire pcs and dimension of cords* | | pcs × mm² | 5×2,5 | | |
| Control cables: indoor unit to outdoor unit | | pcs × mm² | 2 × 0,75 (shielded cable) | | |
| Bracket spacing | | (W×D) | 656×456 | | |
| Sound pressure level | | dB(A) | 50 | | |
| Sound power level | | dB(A) | 64 | | |
| Net dimensions (W×D×H) | | mm | 1118×523×865 | | |
| Gross dimensions (W×D×H) | | mm | 1180×560×890 | | |
| Net weight/Gross weight | | kg | 112/125,5 | | |
| THE WEIGHT OF USS W | Cooling | °C | -5~43 | | |
| Operating outdoor | Heating | •c | -25~35 | | |
| temperature | | | | | |
| | DHW | ٥C | -25-43 | | |

1. Seasonal energy efficiency class measured under average climate conditions.

Notes: DHW – Domestic hot water LWT – Leaving water temperature The sound pressure levels measured in in front of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 20702: 2014. In the intervent drovit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than IΔn: 30mA

Aquami All in Split heat pump

AQS120X30^[R14] / AQS160T240X13i^[R14]



Device features

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Efficient

heating

Smart Grid

functionality

* ↓ 30m

Maximum



Environmentally friendly refrigerant R32



Energy meter



Compact indoor split unit housing



Multilanguage menu



Integrated DHW tank

installation length up to 30m



Weather operating Integrated temperature modes (climate curve) sensor



Tank of stainless steel



 Δ_{c}^{s}

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

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Silent

mode

Built-in switching

valve

Energy efficiency class at 55°C A++



Integrated electric heater

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COP

4,95

Maximum

COP 4,95

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Built-in Wi-Fi module



2 heating control zones

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Dedicated application





Disinfection







water temperature of 60°C (in DHW mode)

pump operation

Maximum leaving

Ő Easy installation

and maintenance











Supply water temperature of 65°C

▲ 65°C

M





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Integrated USB

port for updates



ZOTENS $\sigma^{\mathbb{R}}$











Notes: DHW – Domestic hot water, LWT – Leaving water temperature The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55, ΔT=8; relative humidit 8%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np, 811/2013; (EU) No, 813/2013; Journal of Laws 2014 / C 207/02: 2014.





mode



60°C 0 0





drip tray







Daily operation schedule

Configurable weekly schedules

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WIE

-25°C

Operating range

down to -25°C

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Compressor

crankcase heater





schedules

COTENSσ[®]

Specification indoor unit

| Model | | | | AQ\$160T240X13i R14 |
|--|------------------------|---|-----------------------|----------------------------------|
| EAN code | | | | 5905567602160 |
| Operation modes | | | | Heating and cooling |
| Leaving water temperature | Surface cooling | | °C | 5-25 |
| | Surface heating | | °C | 25-65 |
| | DHW (tank) | | °C | 30-60 |
| Power supply | | | V-Hz, Ø | 220-240-50, 1f / 380-420-50, 3f |
| Rated input / Operati | ng current | | W/A | 9095 / 13,5 |
| Sound power level | | | dB(A) | 42 |
| | Power supply | | V-Hz, Ø | 220-240-50, 1f / 380-420-50, 3f |
| Electric heater | Number of heating sta | Number of heating stages / Power | | 3 / 9 (3+3+3) |
| | Maximum operating cu | urrent | A | 13,3 |
| Net dimensions | | (W×D×H) | mm | 600×600×1943 |
| Gross dimensions | | (W×D×H) | mm | 653×653×2160 |
| Net weight / Gross w | eight | | kg | 158/173 |
| | Water connections | | inch | R1* external |
| | Pressure relief valve | Pressure relief valve | | 0,3 |
| | Condensate drain | | mm | Φ25 |
| | Expansion tank | Total volume / Actual volume | I | 8 / 4,8 |
| | Expansion tank | Maximum pressure / Initial pressure | MPa | 0,3 / 0,1 |
| | PHE / plate heat | Туре | | PHE / plate heat exchanger |
| | exchanger | Minimum flow | l/min | 10 |
| Water circuit | Water pump head | | m | 9 |
| | Water pump head | | | DC |
| | | Tank material | | Stainless steel 316L |
| | | Housing material/colour | | Polyurethane foam, steel / white |
| | | Tank capacity | I | 240 |
| | DHW tank | Maximum water temperature (disinfection mode) | °C | 70 |
| | | Insulation thickness | mm | 45 |
| | | Maximum pressure | bar | 10 |
| Refrigerant circuit Liquid / Gas | | | mm | Φ9,52 (3/8°) / Φ15,9 (5/8°) |
| Minimal wire pcs and dimension of cords* | | | pcs × mm ² | 5×2,5 |
| Control cables: indoo | r unit to outdoor unit | | pcs × mm ² | 2×0.75 (shielded cable) |

Specification outdoor unit

| Model EAN Code | | | AQS120X30 R14 |
|---|--|-----------------------|--|
| | | | 5905567602085 |
| Power supply | | | |
| | Capacity | kW | 12.10 |
| Heating | Rated input | kW | 2,44 |
| (A//W35) | COP | | 4,95 |
| | Capacity | kW | 12,30 |
| Heating | Rated input | kW | 3,24 |
| (A//W45) | COP | NVV | 3,24 |
| | | 1447 | 3,00 |
| | Capacity Rated input | kW kW | 3,87 |
| (A7/W55) | | KVV | |
| | COP | | 3,10 |
| Cooling | Capacity | kW | 12,00 |
| (A35/W18) | Rated input | kW | 3,00 |
| | EER | | 4,00 |
| Cooling | Capacity | kW | 11,60 |
| (A35/W7) | Rated input | kW | 4,22 |
| | EER | | 2,75 |
| _ | SCOP® | | 4,81 |
| Seasonal energy | Rated heat output | kW | 12 |
| | Seasonal energy efficiency ratio (ηS) | % | 189,4 |
| LWT 35°C | Annual energy consumption | kWh | 5152 |
| | Seasonal space heating energy efficiency class ⁽¹⁾ | | A+++ |
| | SCOP® | | 3,45 |
| Seasonal energy | Rated heat output | kW | 11,6 |
| | Seasonal energy efficiency ratio (ηS) | 96 | 135,1 |
| | Annual energy consumption | kWh | 6927 |
| | Seasonal space heating energy efficiency class (1) | | A++ |
| | LWT at 7°C | | 4,86 |
| SEER | LWT at 8°C | | 7,04 |
| Minimum rated curre | ent of the overcurrent circuit breaker with breaker type | A | 816 |
| | Туре | | Twin rotary inverter compressor DC |
| | Туре | | Brushless DC mator / BLDC |
| Fan F | Quantity | | 1 |
| | Type/ GWP | | R32/675 |
| Refrigerant | iyo om | kg | 1.84 |
| Reingerand | Charged (<15m) | TCO2eq | 1,24 |
| | Liquid / Gas | mm | φ9,52 (3/8") / Φ15,9 (5/8") |
| - | Minimum installation length | m | <i>عرب د</i> ر از مان کرد در از مان کرد در م |
| Pipe connections – | - | | 30 |
| | Maximum installation length Additional amount of refrigerant for over 15 linear meters | m | 30 |
| | Additional amount of refrigerant for over 15 linear meters Outdoor unit above the indoor unit | g/m m | 38 20 |
| | | | |
| | Outdoor unit below the indoor unit | m | 20 |
| Minimal wire pcs and dimension of cords* | | pcs × mm ² | 5×2,5 |
| Control cables: indoor unit to outdoor unit | | pcs × mm ² | 2 × 0,75 (shielded cable) |
| Bracket spacing | | (W×D) | 656×456 |
| Sound pressure level | | dB(A) | 50 |
| Sound power level | | | 64 |
| | (W×D×H) | mm mm | 1118×523×865 |
| | | | 1180×560×890 |
| | Net weight/Gross weight | | 112/125,5 |
| | -0· ·· | | |
| Net weight/Gross weig | Cooling | ٥C | -5~43 |
| Net weight/Gross weig | | °C ℃ | -5-43 -25-35 |

1. Seasonal energy efficiency class measured under average climate conditions

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than Idn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.