# Air source heat pumps

## WPL-A 13.2 Plus HK 400

ORDER NO: 206127



WPL-A 07.2 Plus HK 230

ORDER NO: 206122

WPL-A 10.2 Plus HK 230

ORDER NO: 206124

WPL-A 10.2 Plus HK 400

ORDER NO: 206125

## Key features

- Air source heat pump installed outdoors for modernisation and new build
- Also suitable for densely built-up areas due to very low operating noise
- Compact mono block version in a timeless design
- Efficient cooling possible thanks to circuit reversal
- Many solutions for different applications possible with flexible installation options and customised accessories
- Multi stage safety concept for the R290 refrigerant circuit






| Type | WPL-A 07.2 Plus HK 230<br>ORDER NO: 206122 | WPL-A 10.2 Plus HK 230<br>ORDER NO: 206124 | WPL-A 10.2 Plus HK 400<br>ORDER NO: 206125 | WPL-A 13.2 Plus HK 400<br>ORDER NO: 206127 |
|---|---|---|---|---|
| Order No | 206122 | 206124 | 206125 | 206127 |
| **Energy data** | | | | |
| Energy efficiency class, heat pump W35 (A+++ – D) | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 (A+++ – D) | A+++ | A+++ | A+++ | A+++ |
| SCOP 35 °C (EN 14825) | 5.09 | 4.96 | 4.96 | 4.89 |
| SCOP 55 °C (EN 14825) | 4.02 | 3.99 | 3.99 | 4.01 |
| | 6.49 | 6.11 | 6.11 | 6.97 |
| | 4.72 | 4.70 | 4.70 | 5.05 |
| **Heating output** | | | | |
| Heating output at A7/W35 (min./max.) | 2,76 / 8,47 kW | 3,69 / 11,97 kW | 3,69 / 11,97 kW | 5,11 / 15,31 kW |
| Heating output at A2/W35 (min./max.) | 2,36 / 6,96 kW | 3,05 / 9,84 kW | 3,05 / 9,84 kW | 4,36 / 13,04 kW |
| Heating output at A-7/W35 (min./max.) | 1,71 / 7,09 kW | 2,67 / 10,07 kW | 2,67 / 10,07 kW | 3,21 / 13,15 kW |
| Heating output at A7/W35 (EN 14511) | 3.05 kW | 4.32 kW | 4.32 kW | 5.79 kW |
| Heating output at A7/W55 (EN 14511) | 2.65 kW | 4.05 kW | 4.05 kW | 5.10 kW |
| Heating output at A2/W35 (EN 14511) | 3.29 kW | 4.09 kW | 4.09 kW | 4.82 kW |
| Heating output at A2/W35 (EN 14511) with defrosting | 4.30 kW | 5.92 kW | 5.92 kW | 8.10 kW |
| Heating output at A2/W55 (EN 14511) | 4.43 kW | 6.14 kW | 6.14 kW | 8.14 kW |
| Heating output at A-7/W35 (EN 14511) | 7.09 kW | 10.07 kW | 10.07 kW | 13.15 kW |
| Heating output at A-7/W55 (EN 14511) | 7.09 kW | 10.02 kW | 10.02 kW | 13.11 kW |

| | | | | |
|---|---|---|---|---|
| Heating output at A-7/W65 (EN 14511) | 6.71 kW | 9.65 kW | 9.65 kW | 12.89 kW |
| Heating output at A-7/W75 (EN 14511) | 5.64 kW | 8.33 kW | 9.00 kW | 12.32 kW |
| Cooling capacity at A35/W7, partial load (EN 14511) | 2.32 kW | 3.53 kW | 3.53 kW | 4.29 kW |
| Max. cooling capacity at A35/W7 | 6.51 kW | 9.33 kW | 9.33 kW | 10.09 kW |
| Cooling capacity at A35/W18, partial load (EN 14511) | 3.15 kW | 4.29 kW | 4.29 kW | 5.81 kW |
| Max. cooling capacity at A35/W18 | 6.98 kW | 10.51 kW | 10.51 kW | 12.95 kW |

## Power consumption

| | | | | |
|---|---|---|---|---|
| Power consumption at A7/W35 (EN 14511) | 0.56 kW | 0.80 kW | 0.80 kW | 1.07 kW |
| Power consumption at A7/W55 (EN 14511) | 0.83 kW | 1.27 kW | 1.27 kW | 1.56 kW |
| Power consumption at A2/W35 (EN 14511) | 0.72 kW | 0.90 kW | 0.90 kW | 1.09 kW |
| Power consumption at A2/W35 (EN 14511) with defrosting | 1.01 kW | 1.41 kW | 1.41 kW | 1.97 kW |
| Power consumption at A2/W55 (EN 14511) | 1.56 kW | 2.12 kW | 2.12 kW | 2.82 kW |
| Power consumption at A-7/W35 (EN 14511) | 2.18 kW | 3.20 kW | 3.20 kW | 4.23 kW |
| Power consumption at A-7/W55 (EN 14511) | 2,74 kW | 4,04 kW | 4,04 kW | 5,24 kW |
| Power consumption at A-7/W65 (EN 14511) | 3.37 kW | 4.79 kW | 4.79 kW | 6.41 kW |
| Power consumption at A-7/W75 (EN 14511) | 3.57 kW | 5.44 kW | 5.88 kW | 7.63 kW |

## Coefficients of performance

| | | | | |
|---|---|---|---|---|
| COP at A7/W35 (EN 14511) | 5.50 | 5.40 | 5.40 | 5.41 |
| COP at A7/W55 (EN 14511) | 3.19 | 3.18 | 3.18 | 3.26 |
| COP at A2/W35 (EN 14511) | 4.57 | 4.54 | 4.54 | 4.41 |
| COP at A2/W35 (EN 14511) with defrosting | 4.26 | 4.21 | 4.21 | 4.10 |
| COP at A2/W55 (EN 14511) | 2.84 | 2.90 | 2.90 | 2.89 |
| COP at A-7/W35 (EN 14511) | 3.25 | 3.15 | 3.15 | 3.11 |

| | | | | |
|---|---|---|---|---|
| COP at A-7/W55 (EN 14511) | 2.58 | 2.48 | 2.48 | 2.50 |
| COP at A-7/W65 (EN 14511) | 1.99 | 2.02 | 2.02 | 2.01 |
| COP at A-7/W75 (EN 14511) | 1.58 | 1.53 | 1.53 | 1.62 |
| Energy efficiency ratio at A35/W7, partial load (EN 14511) | 3.83 | 3.87 | 3.87 | 3.95 |
| Energy efficiency ratio at A35/W7 max. | 2.97 | 2.76 | 2.76 | 3.14 |
| Energy efficiency ratio at A35/W18, partial load (EN 14511) | 5.29 | 5.46 | 5.46 | 5.41 |
| Energy efficiency ratio at A35/W18 max. | 4.28 | 4.01 | 4.01 | 4.11 |

## Sound emissions

| | | | | |
|---|---|---|---|---|
| Sound power level (EN 12102) | 43 dB(A) | 46 dB(A) | 46 dB(A) | 45 dB(A) |
| Max. sound power level | 57 dB(A) | 59 dB(A) | 59 dB(A) | 60 dB(A) |
| Sound power level, max. reduced night mode | 47 dB(A) | 49 dB(A) | 49 dB(A) | 50 dB(A) |

## Application limits

| | | | | |
|---|---|---|---|---|
| Min. application limit, heat source | -25 °C | -25 °C | -25 °C | -25 °C |
| Max. application limit, heat source | 40 °C | 40 °C | 40 °C | 40 °C |
| Min. application limit on heating side | 15 °C | 15 °C | 15 °C | 15 °C |
| Max. application limit on the heating side | 75 °C | 75 °C | 75 °C | 75 °C |
| Min. cooling mode application limit for outside temperature | 15 °C | 15 °C | 15 °C | 15 °C |
| Max. cooling mode application limit for outside temperature | 45 °C | 45 °C | 45 °C | 45 °C |
| Min./max. application limit, heating, outside temperature | -25 / 40 °C | -25 / 40 °C | -25 / 40 °C | -25 / 40 °C |
| Min./max. application limit, heating, flow temperature | 15 / 75 °C | 15 / 75 °C | 15 / 75 °C | 15 / 75 °C |
| Min./max. application limit, cooling, outside temperature | 15 / 45 °C | 15 / 45 °C | 15 / 45 °C | 15 / 45 °C |
| Operating pressure | 0.25 MPa | | 0.25 MPa | 0.25 MPa |

## Dimensions

| | | | | |
|---|---|---|---|---|
| Height | 960 mm | 1144 mm | 1144 mm | 1365 mm |
| Width | 1170 mm | 1170 mm | 1170 mm | 1170 mm |
| Depth | 727 mm | 727 mm | 727 mm | 727 mm |

## Weights

| | | | | |
|---|---|---|---|---|
| Weight | 142 kg | 166 kg | 166 kg | 203 kg |

## Electrical data

| | | | | |
|---|---|---|---|---|
| Rated voltage, compressor | 230 V | 230 V | 400 V | 400 V |
| Rated voltage, control unit | 230 V | 230 V | 230 V | 230 V |
| Phases, compressor | 1/N/PE | 1/N/PE | 3/N/PE | 3/N/PE |
| Phases, control unit | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Compressor fuse protection | 1 x B 16 A | 1 x B 25 A | 3 x B 10 A | 3 x B 16 A |
| Control unit fuse protection | 1 x B 16 A | 1 x B 16 A | 1 x B 16 A | 1 x B 16 A |
| Max. power consumption, heat pump | 3.7 kW | 5.8 kW | 6.8 kW | 8.3 kW |
| Starting current | 8.4 A | | 5.2 A | 4.8 A |
| Max. operating current | 15.50 A | 24.90 A | 9.70 A | 13.00 A |
| Power factor cos(phi) | 0.95 | | 0.95 | 0.95 |
| Frequency | 50 Hz | 50 Hz | 50 Hz | 50 Hz |

## Hydraulic data

| | | | | |
|---|---|---|---|---|
| Design flow rate A-7/W35 7K | 0.92 m³/h | 1.31 m³/h | 1.31 m³/h | 1.74 m³/h |

| | | | | |
|---|---|---|---|---|
| Internal pressure drop at design volume rate | 102 hPa | 137 hPa | 137 hPa | 207 hPa |
| kVS value | 2.87 m³/h | 3.53 m³/h | 3.53 m³/h | 3.83 m³/h |
| Min. flow rate, heating | 0.30 m³/h | 0.42 m³/h | 0.42 m³/h | 0.54 m³/h |
| Min. flow rate, defrosting | 0.53 m³/h | 0.72 m³/h | 0.72 m³/h | 0.90 m³/h |
| Standard flow rate to EN 14511, low temperature application | 0.5 m³/h | 0.8 m³/h | 0.8 m³/h | 1.0 m³/h |
| Standard flow rate to EN 14511, average temperature application | 0.3 m³/h | 0.4 m³/h | 0.4 m³/h | 0.6 m³/h |
| Min. flow rate, heating | 0.30 m³/h | 0.42 m³/h | 0.42 m³/h | 0.54 m³/h |

## Values

| | | | | |
|---|---|---|---|---|
| Flow rate on heat source side | 2990 m³/h | | 4600 m³/h | 5780 m³/h |

## Versions

| | | | | |
|---|---|---|---|---|
| Refrigerant | R290 | R290 | R290 | R290 |
| Refrigerant charge | 1,4 kg | 1,6 kg | 1,6 kg | 2,15 kg |
| Global warming potential of the refrigerant (GWP100) | 3 | 3 | 3 | 3 |
| CO2 equivalent (CO2e) | 0.0042 t | 0.0048 t | 0.0048 t | 0.00645 t |
| IP rating | IP14B | IP14B | IP14B | IP14B |
| Defrost type | Circuit reversal | Circuit reversal | Circuit reversal | Circuit reversal |
| Frost protection | • | • | • | • |
| Colour | Dark grey RAL 7021 | Dark grey RAL 7021 | Dark grey RAL 7021 | Dark grey RAL 7021 |
| Condenser material | 1.4401/Cu | 1.4401/Cu | 1.4401/Cu | 1.4401/Cu |

## Connections

| | | | | |
|---|---|---|---|---|
| Connection, heating flow/return | G 1 1/4 A | G 1 1/4 A | G 1 1/4 A | G 1 1/4 A |

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## Contact information

You have questions? We appreciate to help you:

Call **+27 10 001 85 47** Write an email to **info@stiebel-eltron.co.za**

## Installation information

Please ask your local power supply utility or a registered electrician to install appliances that are not fully wired, i.e. ready to plug in. The electrician should also be able to assist you with obtaining the agreement of the respective power supply utility required for the appliance installation.

## Website

**www.stiebel-eltron.co.za**