

# HPA-0 6 CS Plus flex Set S

AIR SOURCE HEAT PUMPS

PRODUCT-NO.: 238990

## Set a new standard in new build

Let's assume you're in the middle of building a family house. You should take a look at this set. It makes use of advanced inverter technology to deliver a pleasingly high level of efficiency.

## Assured of the perfect supply

With its high quality equipment features, this heat pump ensures that you have the best possible supply of DHW in your home at all times. The cooling function is included. You can therefore provide yourself and your family with a refreshing level of living comfort even on hot days.

## Install everything from one set

We have already integrated a large proportion of the requisite system technology into the set, such as the hydraulic module and connecting components. This allows your installer to set up the appliance with minimal effort, without needing a lot of space.

## The main features

Inverter technology for high efficiency and low energy bills

Low operating noise; can be further reduced in night mode ("silent mode" function)

DHW and buffer cylinders from the STIEBEL ELTRON range can be added as required

Cooling function possible via area heating and fan coil units



**HPA-0 4 CS Plus flex Set**  
Product-No.: 239052



**HPA-0 4 CS Plus flex Set S**  
Product-No.: 238989



**HPA-0 6 CS Plus flex Set**  
Product-No.: 239053



**HPA-0 8 CS Plus flex Set**  
Product-No.: 239054



**HPA-0 8 CS Plus flex Set S**  
Product-No.: 238991

## Set-Components 1



| Type        | HPA-O 4 CS Plus          | HPA-O 4 CS Plus            | HPA-O 6 CS Plus          |
|-------------|--------------------------|----------------------------|--------------------------|
| Product set | HPA-O 4 CS Plus flex Set | HPA-O 4 CS Plus flex Set S | HPA-O 6 CS Plus flex Set |

## Technical data

|                                                   |             |             |             |
|---------------------------------------------------|-------------|-------------|-------------|
| Energy efficiency class, heat pump W35 (A+++ → D) | A++         | A++         | A+++        |
| Energy efficiency class, heat pump W55 (A+++ → D) | A+          | A+          | A++         |
| SCOP 35 °C (EN 14825)                             | 4.15        | 4.15        | 4.50        |
| Heating output at A7/W35 (EN 14511)               | 2.73 kW     | 2.73 kW     | 4.86 kW     |
| Heating output at A2/W35 (EN 14511)               | 2.58 kW     | 2.58 kW     | 5.30 kW     |
| Heating output at A-7/W35 (EN 14511)              | 3.96 kW     | 3.96 kW     | 6.00 kW     |
| Max. cooling capacity at A35/W7                   | 3.00 kW     | 3.00 kW     | 5.00 kW     |
| Cooling capacity at A35/W18 partial load          | 1.50 kW     | 1.50 kW     | 2.50 kW     |
| Max. cooling capacity at A35/W18                  | 3.00 kW     | 3.00 kW     | 5.00 kW     |
| COP at A7/W35 (EN 14511)                          | 4.70        | 4.70        | 4.76        |
| COP at A2/W35 (EN 14511)                          | 3.64        | 3.64        | 3.80        |
| COP at A-7/W35 (EN 14511)                         | 2.73        | 2.73        | 2.98        |
| Energy efficiency ratio at A35/W7 max.            | 1.62        | 1.62        | 1.73        |
| Energy efficiency ratio at A35/W18 partial load   | 3.56        | 3.56        | 3.28        |
| Energy efficiency ratio at A35/W18 max.           | 3.12        | 3.12        | 2.88        |
| Sound power level (EN 12102)                      | 52 dB(A)    | 52 dB(A)    | 57 dB(A)    |
| Min./max. application limits for heat source      | -20...40 °C | -20...40 °C | -20...40 °C |
| Max. application limit on the heating side        | 60 °C       | 60 °C       | 60 °C       |

|                           |         |         |         |
|---------------------------|---------|---------|---------|
| Height                    | 740 mm  | 740 mm  | 812 mm  |
| Width                     | 1022 mm | 1022 mm | 1152 mm |
| Depth                     | 524 mm  | 524 mm  | 524 mm  |
| Weight                    | 62 kg   | 62 kg   | 91 kg   |
| Rated voltage, compressor | 230 V   | 230 V   | 230 V   |
| Refrigerant               | R410A   | R410A   | R410A   |

## Set-Components 1



| Type        | HPA-O 6 CS Plus            | HPA-O 8 CS Plus          | HPA-O 8 CS Plus            |
|-------------|----------------------------|--------------------------|----------------------------|
| Product set | HPA-O 6 CS Plus flex Set S | HPA-O 8 CS Plus flex Set | HPA-O 8 CS Plus flex Set S |

## Technical data

|                                                   |             |             |             |
|---------------------------------------------------|-------------|-------------|-------------|
| Energy efficiency class, heat pump W35 (A+++ → D) | A+++        | A+++        | A+++        |
| Energy efficiency class, heat pump W55 (A+++ → D) | A++         | A++         | A++         |
| SCOP 35 °C (EN 14825)                             | 4.50        | 4.61        | 4.61        |
| Heating output at A7/W35 (EN 14511)               | 4.86 kW     | 4.86 kW     | 4.86 kW     |
| Heating output at A2/W35 (EN 14511)               | 5.30 kW     | 5.30 kW     | 5.30 kW     |
| Heating output at A-7/W35 (EN 14511)              | 6.00 kW     | 7.80 kW     | 7.80 kW     |
| Max. cooling capacity at A35/W7                   | 5.00 kW     | 6.00 kW     | 6.00 kW     |
| Cooling capacity at A35/W18 partial load          | 2.50 kW     | 3.00 kW     | 3.00 kW     |
| Max. cooling capacity at A35/W18                  | 5.00 kW     | 6.00 kW     | 6.00 kW     |
| COP at A7/W35 (EN 14511)                          | 4.76        | 4.76        | 4.76        |
| COP at A2/W35 (EN 14511)                          | 3.80        | 3.80        | 3.80        |
| COP at A-7/W35 (EN 14511)                         | 2.98        | 2.91        | 2.91        |
| Energy efficiency ratio at A35/W7 max.            | 1.73        | 1.73        | 1.73        |
| Energy efficiency ratio at A35/W18 partial load   | 3.28        | 3.28        | 3.28        |
| Energy efficiency ratio at A35/W18 max.           | 2.88        | 2.88        | 2.88        |
| Sound power level (EN 12102)                      | 57 dB(A)    | 57 dB(A)    | 57 dB(A)    |
| Min./max. application limits for heat source      | -20...40 °C | -15...40 °C | -15...40 °C |
| Max. application limit on the heating side        | 60 °C       | 60 °C       | 60 °C       |

|                           |         |         |         |
|---------------------------|---------|---------|---------|
| Height                    | 812 mm  | 812 mm  | 812 mm  |
| Width                     | 1152 mm | 1152 mm | 1152 mm |
| Depth                     | 524 mm  | 524 mm  | 524 mm  |
| Weight                    | 91 kg   | 91 kg   | 91 kg   |
| Rated voltage, compressor | 230 V   | 230 V   | 230 V   |
| Refrigerant               | R410A   | R410A   | R410A   |

## Set-Components 2



| Type        | HM Trend                    | HMS Trend                     | HM Trend                    |
|-------------|-----------------------------|-------------------------------|-----------------------------|
| Product set | HPA-O 4 CS<br>Plus flex Set | HPA-O 4 CS<br>Plus flex Set S | HPA-O 6 CS<br>Plus flex Set |

## Technical data

|                                                      |                                                            |                                                            |                                                            |
|------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Max. permissible pressure                            | 0.30 MPa                                                   | 0.30 MPa                                                   | 0.30 MPa                                                   |
| Max. application limit on the heating side           | 75 °C                                                      | 75 °C                                                      | 75 °C                                                      |
| External available pressure differential at 1.0 m³/h | 715 hPa                                                    | 715 hPa                                                    | 715 hPa                                                    |
| External available pressure differential at 1.5 m³/h | 661 hPa                                                    | 661 hPa                                                    | 661 hPa                                                    |
| External available pressure differential at 2 m³/h   | 468 hPa                                                    | 468 hPa                                                    | 468 hPa                                                    |
| External available pressure differential at 2.5 m³/h | 300 hPa                                                    | 300 hPa                                                    | 300 hPa                                                    |
| Expansion vessel volume                              | 24 l                                                       | 24 l                                                       | 24 l                                                       |
| Frequency                                            | 50 Hz                                                      | 50 Hz                                                      | 50 Hz                                                      |
| Rated voltage, control unit                          | 230 V                                                      | 230 V                                                      | 230 V                                                      |
| Rated voltage, emergency/auxiliary heater            | 400 V                                                      | 230 V                                                      | 400 V                                                      |
| Power consumption, emergency/auxiliary heater        | 8.80 kW                                                    | 5.90 kW                                                    | 8.80 kW                                                    |
| Power consumption, circulation pump                  | 3-76 W                                                     | 3-76 W                                                     | 3-76 W                                                     |
| Circulation pump type                                | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump |
| IP rating                                            | IP20                                                       | IP20                                                       | IP20                                                       |
| Height                                               | 896 mm                                                     | 896 mm                                                     | 896 mm                                                     |
| Height incl. connector block                         | 1131 mm                                                    | 1131 mm                                                    | 1131 mm                                                    |
| Width                                                | 590 mm                                                     | 590 mm                                                     | 590 mm                                                     |

|            |        |        |        |
|------------|--------|--------|--------|
| Depth      | 405 mm | 405 mm | 405 mm |
| Weight     | 27 kg  | 27 kg  | 27 kg  |
| Connection | G 1    | G 1    | G 1    |

## Set-Components 2



| Type        | HMS Trend                     | HM Trend                    | HMS Trend                     |
|-------------|-------------------------------|-----------------------------|-------------------------------|
| Product set | HPA-O 6 CS<br>Plus flex Set S | HPA-O 8 CS<br>Plus flex Set | HPA-O 8 CS<br>Plus flex Set S |

## Technical data

|                                                      |                                                            |                                                            |                                                            |
|------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Max. permissible pressure                            | 0.30 MPa                                                   | 0.30 MPa                                                   | 0.30 MPa                                                   |
| Max. application limit on the heating side           | 75 °C                                                      | 75 °C                                                      | 75 °C                                                      |
| External available pressure differential at 1.0 m³/h | 715 hPa                                                    | 715 hPa                                                    | 715 hPa                                                    |
| External available pressure differential at 1.5 m³/h | 661 hPa                                                    | 661 hPa                                                    | 661 hPa                                                    |
| External available pressure differential at 2 m³/h   | 468 hPa                                                    | 468 hPa                                                    | 468 hPa                                                    |
| External available pressure differential at 2.5 m³/h | 300 hPa                                                    | 300 hPa                                                    | 300 hPa                                                    |
| Expansion vessel volume                              | 24 l                                                       | 24 l                                                       | 24 l                                                       |
| Frequency                                            | 50 Hz                                                      | 50 Hz                                                      | 50 Hz                                                      |
| Rated voltage, control unit                          | 230 V                                                      | 230 V                                                      | 230 V                                                      |
| Rated voltage, emergency/auxiliary heater            | 230 V                                                      | 400 V                                                      | 230 V                                                      |
| Power consumption, emergency/auxiliary heater        | 5.90 kW                                                    | 8.80 kW                                                    | 5.90 kW                                                    |
| Power consumption, circulation pump                  | 3-76 W                                                     | 3-76 W                                                     | 3-76 W                                                     |
| Circulation pump type                                | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump | Yonos PARA 25/7.5,<br>highly efficient<br>circulation pump |
| IP rating                                            | IP20                                                       | IP20                                                       | IP20                                                       |
| Height                                               | 896 mm                                                     | 896 mm                                                     | 896 mm                                                     |
| Height incl. connector block                         | 1131 mm                                                    | 1131 mm                                                    | 1131 mm                                                    |
| Width                                                | 590 mm                                                     | 590 mm                                                     | 590 mm                                                     |

|            |        |        |        |
|------------|--------|--------|--------|
| Depth      | 405 mm | 405 mm | 405 mm |
| Weight     | 27 kg  | 27 kg  | 27 kg  |
| Connection | G 1    | G 1    | G 1    |

Set-Components 3



| Type        | AS-HM Trend                 | AS-HM Trend                   | AS-HM Trend                 |
|-------------|-----------------------------|-------------------------------|-----------------------------|
| Product set | HPA-O 4 CS<br>Plus flex Set | HPA-O 4 CS<br>Plus flex Set S | HPA-O 6 CS<br>Plus flex Set |

Technical data

|            |             |             |             |
|------------|-------------|-------------|-------------|
| Connection | G 1 - 28 mm | G 1 - 28 mm | G 1 - 28 mm |
|------------|-------------|-------------|-------------|

Set-Components 3



| Type        | AS-HM Trend                   | AS-HM Trend                 | AS-HM Trend                   |
|-------------|-------------------------------|-----------------------------|-------------------------------|
| Product set | HPA-O 6 CS<br>Plus flex Set S | HPA-O 8 CS<br>Plus flex Set | HPA-O 8 CS<br>Plus flex Set S |

Technical data

|            |             |             |             |
|------------|-------------|-------------|-------------|
| Connection | G 1 - 28 mm | G 1 - 28 mm | G 1 - 28 mm |
|------------|-------------|-------------|-------------|

Further information about the Set components can be found under the relevant product. The necessary T-support or wall mounting bracket is available as an accessory.

**Contact information**

You have questions? We appreciate to help you:

Call **+49 5531 - 7020**

Write an email to **[info@stiebel-eltron.com](mailto:info@stiebel-eltron.com)**

**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.