TECHNICAL DATASHEET

## RuralECO WPS1052- AC, 400V

# Advantages

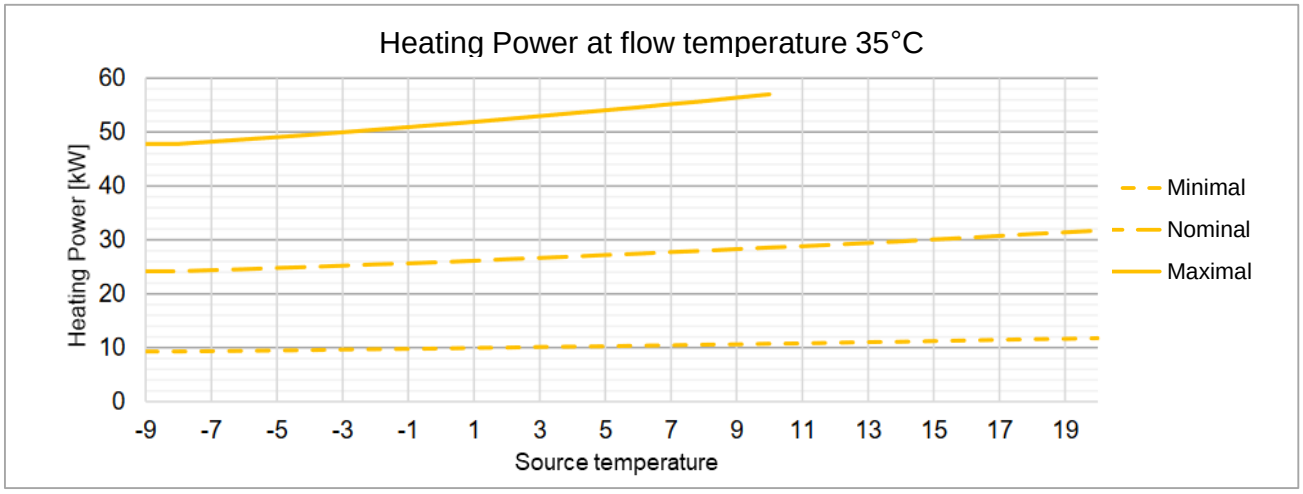
- Highest efficiency
- Latest control technology
- Internet Inside
- Photovoltaic Integration
- extremely maintanance free
- Smart Home Integration

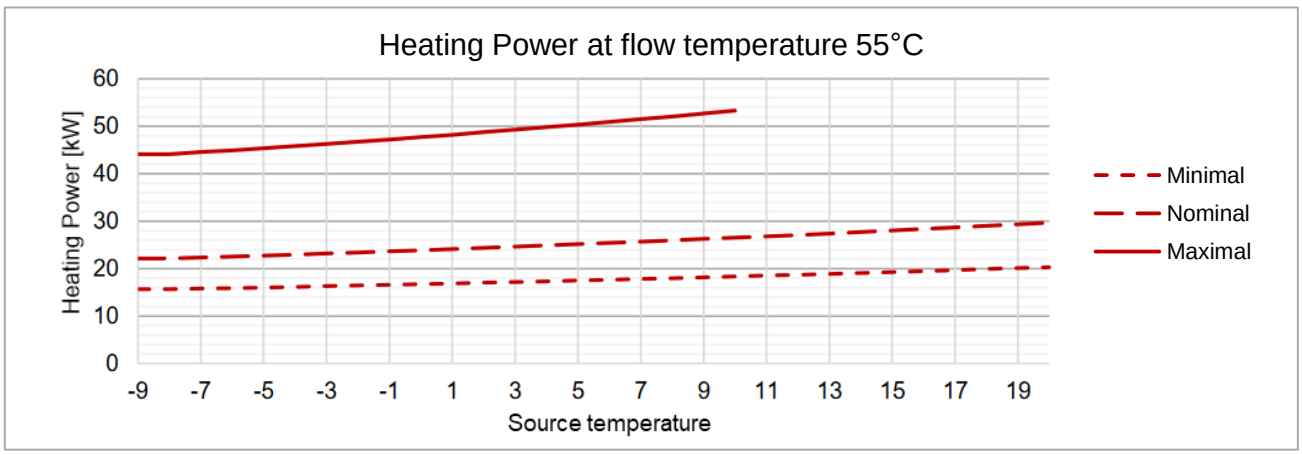
| | | |
|---|---|---|
| **General Data** | | |
| Power Range | B0/W35: 10 - 52 | [kW] |
| Energy class VL 35°C | A+++ | [-] |
| Energy class VL 55°C | A+++ | [-] |
| Max. Flow temperature | 62,0 | [°C] |
| **Electrical Data** | | |
| International Protection Marking | IP 20 | [-] |
| Supply control | 1/N/PE, 230V, 50Hz | [V, Hz] |
| Rated Input control | 28 | [W] |
| Cos(ϕ) control | 0,90 | [-] |
| Fuse control | 1x B13 | [-] |
| Supply compressor | 3/N/PE, 400V, 50Hz | [V, Hz] |
| Operating current compressor | 7,61 | [A] |
| Staring current compressor | 38 / - | [A / A] |
| Cos(ϕ) compressor | 0,98 | [-] |
| Fuse compressor | 3x C40 | [-] |
| Res. current circuit breaker comp. supply | 30mA, Typ B or B+ | [-] |
| **Sound power level Data acc. EN12102** | | |
| Nom. Sound power level heat pump | 55 | [dB(A)] |
| Max. Sound power level heat pump | 76 | [dB(A)] |
| Level surcharge low-freq. noise characteristics | - | [dB] |
| **Refrigerant circuit Data** | | |
| Compressor - Type | Scroll | [-] |
| Refrigerant - Type | R410a | [-] |
| Refrigerant - Amount | 10 | [kg] |
| Refrigerant - Fluid Group | 2 | [-] |
| Refrigerant - GWP | 1924 | [-] |
| Compressor Oil - Type | 3MA-POE | [-] |
| Compressor Oil - Amount | 2,51 | [l] |
| **Heating Side** | | |
| Condenser - Type | Plate heat exchanger | [-] |
| Condenser - Material | Stainless steel, copper brazed | [-] |
| Condenser - Flowrate (5K) | 8,8 | [m³/h] |
| Condenser pressure loss | 8,4 | [kPa] |
| Circulation pump - Type | external | [-] |
| Circulation pump - residual head | - | [mWs] |
| Circulation pump - max. power | - | [W] |
| **Source Side** | | |
| Evaporator - Type | Plate heat exchanger | [-] |
| Evaporator - Material | Stainless steel, copper brazed | [-] |
| Evaporator - Flowrate (3K) | 11,40 | [m³/h] |
| Evaporator - Pressure loss | 13,50 | [kPa] |
| Source - Type | external | [-] |
| Source - residual head | - | [mWs] |
| Source - max. Power | - | [W] |

## Performance Data*

| Oper. point | Comp. speed | Heating cap. | Cooling cap. | Rated Input | COP |
|---|---|---|---|---|---|
| **B0/W35** | 50% | 25,9 | 20,7 | 5,2 | 5,01 |
| **B0/W35** | 75% | 38,6 | 30,5 | 8,1 | 4,75 |
| **B0/W35** | 100% | 51,4 | 39,6 | 11,8 | 4,34 |
| **B0/W55** | 100% | 47,7 | 31,3 | 16,4 | 2,90 |
| **B0/W35** | Minimal | 10,5 | 8,2 | 2,3 | 4,61 |
| **B0/W55** | Minimal | 14,5 | 9,3 | 5,2 | 2,79 |
| **Oper. point** | **Comp. speed** | **Cooling power** | **Rated Input** | **EER** | |
| **B10/W20** | 50% | 38,2 | 3,6 | 10,60 | |

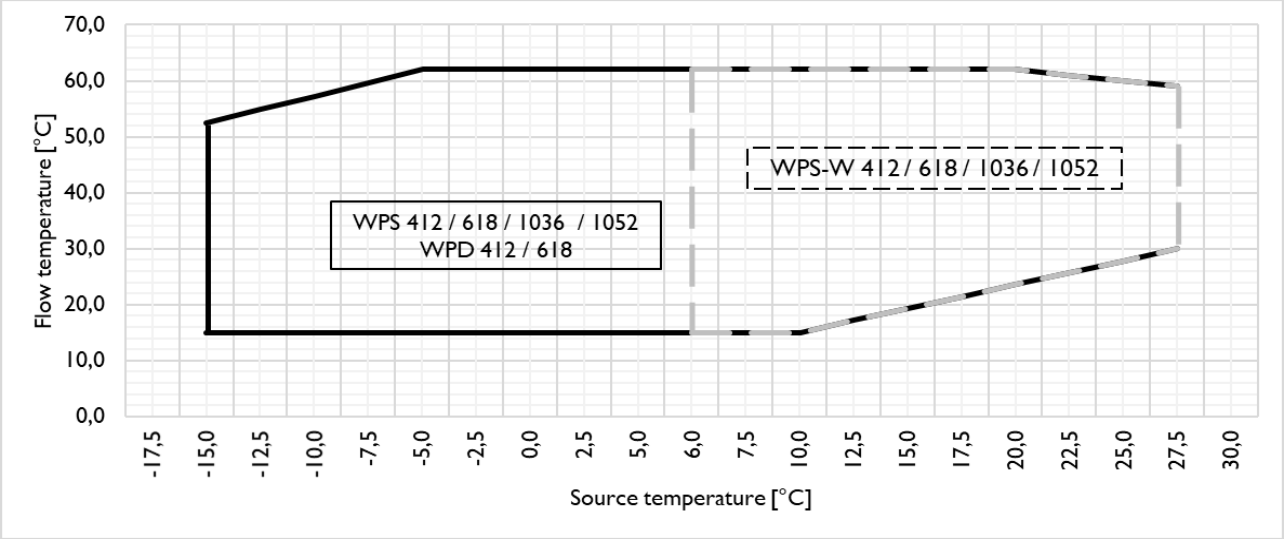
| | | | |
|---|---|---|---|
| **Clim.: warmer** | **35°C** | SCOP | - |
| | | $\eta_s$ | - |
| | **55°C** | SCOP | - |
| | | $\eta_s$ | - |
| **Clim.: average** | **35°C** | SCOP | 5,42 |
| | | $\eta_s$ | 214 |
| | **55°C** | SCOP | 4,01 |
| | | $\eta_s$ | 157 |
| **Clim.: colder** | **35°C** | SCOP | - |
| | | $\eta_s$ | - |
| | **55°C** | SCOP | - |
| | | $\eta_s$ | - |




* Compressive performance deviations of up to 10% are possible. All informations without guarantee: typographical and printing errors reserved.

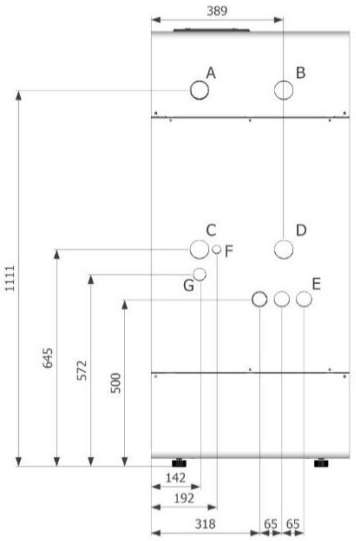
## Operating limit




## Connection measurements

| | | |
|---|---|---|
| Heat Pump Dimensions (H x W x D) | [mm] | 1.465 x 600 x 650 |
| Heat Pump Weight | [kg] | 310 |

A: Source Inlet, G2" AG
B: Heating Outlet, G2" AG
C: Source Outlet, G2" AG
D: Heating Inlet, G2" AG
E: Electrical Inlet
F: Inverter cooling Inlet
G: Inverter cooling Outlet




## Free spaces

A: 400mm
B: 400mm
C: 200mm
D: 600mm
E: 400mm