| Technical documentation - technical parameters | | | | | | | | | |
|---|--------------------|-------------------|----------|--------------|---|-----------------|--------------|----------|--|
| Model No.: WH-ADF0309J3E5 | 5CM / CU | -2WZ71YBE | 5 | | | | | | |
| Air-to-water heat pump [YFS/NO]: | | | | | Low-temperature heat pump | [YES/NO]: | NC |) | |
| Water-to-water heat pump [YES/NO]: | | | | NO | Brine-to-water heat pump [YES/NO]: | | NO | | |
| Equipped with a supplementary heater [YES/NO]: | | | | YES | | | | | |
| Heat pump combination heater [YES/NO]: | | | | YES | | | | | |
| The references for harmonized stand | ard appli | ed: | | | | | | | |
| CRD 811/2013. CRD 813/2013 | 3. OJ 2014 | 4/C 207/02 | | | | | | | |
| CRD 812/2013. CRD 814/2013 | 3. OJ 2014 | 4/C 207/03 | | | | | | | |
| EN 12102-1:2017, EN 14825: | , 2018, EN | 14511-2/EN | 14511- | 3 | | | | | |
| EN 16147:2017, EN 12897:20 | 16 | | | | | | | | |
| for Heat During Cross Heater | | | | | | • = | • | | |
| for Heat Pump Space Heater | Sumb | Value | Unit | Par | ameters for Low-Temperature & Med | ium-Tempera | | Linit | |
| | Symb. | value | Unit | - | Item | Symb. | value | Unit | |
| Parameters (AVERAGE / Medium-Ter | nperature | e) climate c I | ondition | IS:- | Second space beating | | <u> </u> | 0/ | |
| | Prated | 7 | ĸvv | - | energy efficiency | n _s | 125 | 70 | |
| Declared capacity for heating for part loa | d at indoo | r | | Cdh | Declared coefficient of performance for part load at indoor | | | | |
| temperature 20 °C and outdoor temperat | ture T j | | | (**) | temperature 20 °C and outdoor temp | erature T j | | | |
| T j = – 7 °C | Pdh | 6.18 | kW | 0.99 | T j = – 7 °C | COPd | 2.14 | - | |
| T j = + 2 °C | Pdh | 3.77 | kW | 0.97 | T j = + 2 °C | COPd | 3.16 | - | |
| T j = + 7 °C | Pdh | 2.60 | kW | 0.94 | T j = + 7 °C | COPd | 3.90 | - | |
| T j = + 12 °C | Pdh | 3.20 | kW | 0.93 | T j = + 12 °C | COPd | 5.45 | - | |
| T j = T biv | Pdh | 6.18 | kW | 0.90 | T j = T biv | COPd | 2.14 | - | |
| T j = TOL | Pdh | 6.42 | kW | 0.90 | T j = TOL | COPd | 1.80 | - | |
| Bivalent temperature | T _{biv} | -7 | °C | - | Operation limit temperature | TOL | -10 | °C | |
| Cycling interval capacity for | Pcych | - | kW | - | Cycling interval efficiency | СОРсус | - | - | |
| Rated Seasonal COP of | SCOP | 3.2 | - | - | Annual energy consumption | Q _{HE} | 4524 | kWh | |
| Space Heating | | | | | | | | | |
| Parameters (WARMER / Medium-Ter | nperatur | e) climate c | onditior | is:- | | 1 | | | |
| Rated heat output (*) | P _{rated} | 6 | kW | - | Seasonal space heating energy efficiency | η _s | 145 | % | |
| Declared capacity for heating for part load at indoor | | | | Cdh | Declared coefficient of performance for part load at indoor | | | | |
| temperature 20 °C and outdoor temperature T j | | | | (**) | temperature 20 °C and outdoor temp | erature T j | | | |
| T j = + 2 °C | Pdh | 5.99 | kW | 0.98 | T j = + 2 °C | COPd | 2.40 | - | |
| T j = + 7 °C | Pdh | 3.81 | kW | 0.97 | T j = + 7 °C | COPd | 3.18 | _ | |
| T j = + 12 °C | Pdh | 3.10 | kW | 0.94 | T j = + 12 °C | COPd | 4.86 | <u> </u> | |
| T j = T biv | Pdh | 5.99 | kW | 0.90 | T j = T biv | COPd | 2.40 | <u> </u> | |
| T j = TOL | Pdh | 5.99 | kW | 0.90 | T j = TOL | COPd | 2.40 | | |
| Bivalent temperature | T _{biv} | 2 | °C | - | Operation limit temperature | TOL | 2 | °C | |
| Cycling interval capacity for heating | Pcych | _ | kW | - | Cycling interval efficiency | СОРсус | _ | - | |
| Rated Seasonal COP of Space Heating | SCOP | 3.69 | - | - | Annual energy consumption | Q _{HE} | 2170 | kWh | |
| Parameters (COLDER / Medium-Tem | perature) | climate co | nditions | :- | | | | 4 | |
| Rated heat output (*) | P _{rated} | 6 | kW | - | Seasonal space heating | η _s | 109 | % | |
| Declared capacity for heating for part loa | d at indoo | r | | Cdh | Declared coefficient of performance f | or part load a | t indoor | 1 | |
| temperature 20 °C and outdoor temperat | ture T j | 2 61 | k\// | (**) 0.97 | temperature 20 °C and outdoor temp Ti = -7 °C | erature T j | 2 /12 | | |
| Ti=+2°C | Ddh | 2.01 | k\// | 0.97 | Ti=+2°C | СОРА | 2.45 | | |
| Ti=+7°C | Ddh | 2.25 | | 0.94 | Ti-+7℃ | COPU | 3.40 A 69 | + | |
| Ti-+12°C | ruii Ddh | 2.05 | | 0.95 | | COPU | 4.00 | – | |
| I J - T 12 C | Pull | 5.20 | KVV | 0.91 | 1 J - T 12 C | COPU | 0.00 | I - | |

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Technical documentation - technical parameters

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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 1 | | | r | | T | I | - | | |
|--|---|--------------------|-------------------|---------|------|--|-----------------|----------|----------|--|--|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = T biv | Pdh | 4.85 | kW | 0.90 | T j = T biv | COPd | 1.85 | _ | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = TOL | Pdh | 4.85 | kW | 0.90 | T j = TOL | COPd | 1.85 | _ | | |
| Biolecti temperatureT Pay-1.5 Pay'C-Operation limit temperature701.5 -'CCycling interval capacity forPay-WW-Cycling interval efficiencyCOVpcRated lead output (1)SCOP2.8Annual energy consumption $Q_{\rm AC}$ 5289KWhParameters (AVERAGE / Low-Temperature) (Imrate conditions:-Rated head output (1)ParaTSeusonal space heatingn_11.57%Rated head output (1)Para7KW-Seusonal space heatingn_11.57%Declared capacity for heating for part load at indoor(1)-CohDeclared capacity for heating for part load at indoor(1)%T = -7 CArbh3.86KW0.95T = +2 °CCOP42.85T = +2 °CArbh3.86KW0.92T = +2 °CCOP44.00-T = +2 °CArbh3.86KW0.92T = +2 °CCOP44.60-T = +12 °CArbh7.86KW0.92T = +2 °CCOP42.60-T = 12 °CArbh7.86KW0.90T = +12 °CCOP42.60-Cycling interval capacity forArbh7.18KW0.90T = +12 °CCOP42.60-Reted Seasonal COP efSCOP-KW-Cycling interval efficiencyCOP42.60-Parameters (W | T j = − 15 °C | Pdh | 4.85 | kW | 0.98 | T j = − 15 °C | COPd | 1.85 | _ | | |
| | Bivalent temperature | T _{biv} | -15 | °C | - | Operation limit temperature | TOL | -15 | °C | | |
| Instruct Search COP of Spece Neuronal Spece Neuronal CoP of Declared capacity for heating for part load at Indoor temperature 20 °C and outdoor temperature 1157%T = -7 °C T = -7 °C T = -7 °CPdb6.23WW0.98T = -7 °C temperature 20 °C and outdoor temperature 1T = -7 °C temperature 20 °C and outdoor temperature 1T = -7 °C temperature 20 °C and outdoor temperature 1T = -7 °C temperature 20 °C and outdoor temperature 1T = -7 °C temperature 20 °C and outdoor temperature 1Pdb2.88W0.98T = -7 °C temperature 20 °C and outdoor temperature 1DSC temperature 20 °C and outdoor temperature 1DSC temperature 20 °C and outdoor temperature 1DD temperature 20 °C and outdoor temperature 1DC temperature 20 °C and outdoor temperature 1T = -7 °C temperature 20 °C and outdoor temperature 1 <td>Cycling interval capacity for heating</td> <td>Pcych</td> <td>_</td> <td>kW</td> <td>-</td> <td>Cycling interval efficiency</td> <td>СОРсус</td> <td>_</td> <td>-</td> | Cycling interval capacity for heating | Pcych | _ | kW | - | Cycling interval efficiency | СОРсус | _ | - | | |
| Parameters (AVERAGE / Low Temperature) climate conditions: match herr august (?) P_{rest} 7 KW - Seasonal loase heating energy efficiency n, 157 % beckned capacity for having for part load at indoor temperature 20°C and outdoor temperature 7) P_{rest} Cdb Declared capacity for part load at indoor $(**)$ temperature 20°C and outdoor temperature 7) $(**)$ $(**)$ temperature 20°C and outdoor temperature 70 $(**)$ <td>Rated Seasonal COP of Space Heating</td> <td>SCOP</td> <td>2.8</td> <td>-</td> <td>-</td> <td>Annual energy consumption</td> <td>Q _{HE}</td> <td>5289</td> <td>kWh</td> | Rated Seasonal COP of Space Heating | SCOP | 2.8 | - | - | Annual energy consumption | Q _{HE} | 5289 | kWh | | |
| Rated heat output (?) P_{obst} γ kW-Seasonal space heating ungergeting ungergeting ungergeting ungergeting temperature 20 °C and outdoor temperature T j1157%Deckared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j Phh 6.23kW0.98T $ = -7^{\circ}C$ $COPd$ 2.85-T $ = + 2^{\circ}C$ Pdh 3.36kW0.98T $ = + 2^{\circ}C$ $COPd$ 2.85-T $ = + 2^{\circ}C$ Pdh 3.46kW0.90T $ = + 12^{\circ}C$ $COPd$ 4.80-T $ = + 12^{\circ}C$ Pdh 3.46kW0.90T $ = + 12^{\circ}C$ $COPd$ 2.60-T $ = + 12^{\circ}C$ Pdh 3.46kW0.90T $ = + 12^{\circ}C$ $COPd$ 2.60-T $ = + 12^{\circ}C$ Pdh 7.18kW0.90T $ = + 12^{\circ}C$ $COPd$ 2.60-T $ = + 12^{\circ}C$ Pdh 7.18kW0.90T $ = + 12^{\circ}C$ $COPd$ 2.60-Cycling interval capacity for $Pcych$ -kW-Cycling interval efficiency $COPd$ 2.60-Heating $Pcych$ -kW-Cycling interval efficiency $COPd$ 2.60-Parameters (WARMER 1 Low-Temperature) climate conditions:Annual energy consumption a_{ss} 3614kWhParameters (WARMER 1 Low-Temperature T) $ProteTAnnual energy consumptiona_{ss}<$ | Parameters (AVERAGE / Low-Tempera | ature) cli | mate condi | tions:- | | L | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Rated heat output (*) | P _{rated} | 7 | kW | - | Seasonal space heating energy efficiency | η _s | 157 | % | | |
| (**) temperature 20 °C and outdoor temperature T j T j = + 7 °C Pdh 6.23 WW 0.98 T j = - 7 °C COPd 2.85 T j = + 2 °C Pdh 3.86 KW 0.98 T j = - 7 °C COPd 4.90 T j = + 7 °C Pdh 3.86 KW 0.98 T j = - 7 °C COPd 4.90 T j = + 7 °C Pdh 3.86 KW 0.90 T j = - 12 °C COPd 4.50 T j = 7 °C Pdh 7.18 KW 0.90 T j = -12 °C COPd 2.60 T j = 7 °C Pdh 7.18 KW 0.90 T j = -12 °C COPd 2.60 Bivalent temperature T ju -10 °C - Annual energy consumption Q we 3614 KWh Space Kesting Parameters (KMRMSR / Low-Temperature 20 °C - - Annual energy consumption Q we 3614 KWh Space Kesting | Declared capacity for heating for part load | d at indoo | r | - | Cdh | Declared coefficient of performance for part load at indoor | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | temperature 20 °C and outdoor temperat | ure T j | - | - | (**) | temperature 20 °C and outdoor temperature T j | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = – 7 °C | Pdh | 6.23 | kW | 0.98 | T j = − 7 °C | COPd | 2.85 | - | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 2 °C | Pdh | 3.86 | kW | 0.96 | T j = + 2 °C | COPd | 3.90 | — | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 7 °C | Pdh | 2.89 | kW | 0.93 | T j = + 7 °C | COPd | 4.90 | - | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 12 °C | Pdh | 3.46 | kW | 0.92 | T j = + 12 °C | COPd | 6.55 | - | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = T biv | Pdh | 7.18 | kW | 0.90 | T j = T biv | COPd | 2.60 | - | | |
| Bivalent temperatureTTT-10°C-Operation limit temperatureTOL-10°CCycling interval apacity for heatingPcych-KW-Cycling interval efficiency $COPcyc$ Rated Seasonal COP of Space HeatingSCOP4Annual energy consumption Q_{MC} 3614 kWhParameters (WARMER / Low-Temperature) climate conditions:-Rated heat autput (") P_{rated} 7kW-Seasonal space heating energy efficiency η_s 224 %Declared capacity for heating for part load at indoor | T j = TOL | Pdh | 7.18 | kW | 0.90 | T j = TOL | COPd | 2.60 | - | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Bivalent temperature | T _{biv} | -10 | °C | - | Operation limit temperature | TOL | -10 | °C | | |
| Intending Rated Seasonal COP of Space HeatingSCOP4Annual energy consumption Q_{inc} 3614 KWhParameters (WARMER / Low-Temperature) climate conditions:- Rated heat output (*) P_{med} 7 KW-Seasonal space heating energy efficiency n_s 224 %Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j(/*)Declared Coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T j(/*)Declared coefficient of performance for part load at indoorT j = + 2 °CPath6.97KW0.98T j = + 2 °CCOPd3.25-T j = + 1 °CPath4.38KW0.95T j = + 1 °CCOPd3.25-T j = + 1 °CPath6.97KW0.90T j = + 1 °CCOPd3.25-T j = TolPath6.97KW0.90T j = TolCOPd3.25-T j = TolPath6.97KW0.90T j = TolCOPd3.25-Cycling interval capacity for heatingPath6.97KW0.90T j = TolCOPd3.25-Rated Seasonal COP of space HeatingSCOP5.69Annual energy consumption Q_{isc} 1644KWhSpace Heatingfor strongScoP5.69Annual energy consumption Q_{isc} 1644KWhSpace Heatingfor strong </td <td>Cycling interval capacity for</td> <td>Pcych</td> <td>_</td> <td>kW</td> <td>-</td> <td>Cycling interval efficiency</td> <td>СОРсус</td> <td>_</td> <td>-</td> | Cycling interval capacity for | Pcych | _ | kW | - | Cycling interval efficiency | СОРсус | _ | - | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Rated Seasonal COP of | SCOP | 4 | - | - | Annual energy consumption | Q _{HE} | 3614 | kWh | | |
| Parameters (WARMER / Low-Temperature) climate conditions:Rated heat output (*) P_{rated} 7kW-Seasonal space heating energy efficiency n_1 224%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoorT j = + 2 °CPdh6.97kW0.98T j = + 7 °CCOPd3.25-T j = + 12 °CPdh4.38kW0.91T j = + 12 °CCOPd5.16-T j = + 12 °CPdh6.97kW0.90T j = T icCOPd3.25-T j = 1 NixPdh6.97kW0.90T j = T icCOPd3.25-T j = T OLPdh6.97kW0.90T j = T icCOPd3.25-Bivalent temperatureT $_{bv}$ 2°C-Operation limit temperatureTOL2°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPc/cRated beasonal COP of ScOPSCOP5.69-Annual energy consumptionQ $_{ne}$ 1644kWhParameters (COLDER / Low-Temperature T j(**)Prated6KW-Seasonal space heating energy efficiencyn, 1141%Declared capacity for heating for part load at indoor <td< td=""><td>Space Heating</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | Space Heating | | | | | | | | | | |
| Rated head output (*) P_{rated} 7KW-Seasonal space heating energy efficiency n_s 224%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T j-T j = + 2 °CPdh6.97kW0.98T j = + 2 °CCOPd3.25-T j = + 7 °CPdh6.97kW0.90T j = + 12 °CCOPd3.25-T j = T bivPdh6.97kW0.90T j = T bivCOPd3.25-T j = T OLPdh6.97kW0.90T j = T DLCOPd3.25-Balent temperatureT $_{bv}$ 2°C-Operation limit temperatureTOL2°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal SOP of Space HeatingSCOP5.69Annual energy efficiency n_{bs} 141%Declared capacity for heating for part load at indoorCdhDeclared coefficient of performance for part load at indoorImage: temperature 20 °C and outdoor temperature T j(**)temperature 20 °Cand ottoor temperature jT j = + 2 °CPdh3.62kW0.97T j = + 2 °CCOPd4.10< | Parameters (WARMER / Low-Tempera | ature) cli | mate condi I | tions:- | | | 1 | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | Rated heat output (*) | P _{rated} | 7 | kW | - | Seasonal space heating | η _s | 224 | % | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | energy efficiency | | | | | |
| temperature 20 °C and outdoor temperature T j (**) temperature 20 °C and outdoor temperature T j T j = + 2 °C Pdh 6.97 kW 0.98 T j = + 2 °C COPd 3.25 - T j = + 7 °C Pdh 4.38 kW 0.99 T j = + 7 °C COPd 5.16 - T j = + 12 °C Pdh 6.97 kW 0.90 T j = + 12 °C COPd 3.25 - T j = T biv Pdh 6.97 kW 0.90 T j = + 12 °C COPd 3.25 - T j = T biv Pdh 6.97 kW 0.90 T j = + 12 °C COPd 3.25 - T j = T biv Pdh 6.97 kW 0.90 T j = + 12 °C COPd 3.25 - Bialent temperature T w 2 °C - Operation limit temperature TOL 2 °C Cycling interval capacity for Pcych - kW - Cycling interval efficiency COPcyc - - Rated Seasonal COP of SCOP 5.69 - - Annual energy consumption <td>Declared capacity for heating for part load</td> <td>d at indoo</td> <td>r</td> <td></td> <td>Cdh</td> <td colspan="5">Declared coefficient of performance for part load at indoor</td> | Declared capacity for heating for part load | d at indoo | r | | Cdh | Declared coefficient of performance for part load at indoor | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | temperature 20 °C and outdoor temperat | ure T j | | | (**) | temperature 20 °C and outdoor temperature T j | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 2 °C | Pdh | 6.97 | kW | 0.98 | T j = + 2 °C | COPd | 3.25 | - | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 7 °C | Pdh | 4.38 | kW | 0.95 | T j = + 7 °C | COPd | 5.16 | - | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = + 12 °C | Pdh | 3.44 | kW | 0.91 | T j = + 12 °C | COPd | 7.45 | _ | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | T j = T biv | Pdh | 6.97 | kW | 0.90 | T j = T biv | COPd | 3.25 | - | | |
| Bivalent temperatureTD2"C-Operation limit temperatureTOL2"CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Space HeatingSCOP5.69Annual energy consumptionQ $\mu_{\mathcal{E}}$ 1644kWhParameters (COLDER / Low-Temperature) climate conditions:-Rated heat output (*)Prated 66KW-Seasonal space heating | T j = TOL | Pdh | 6.97 | kW | 0.90 | T j = TOL | COPd | 3.25 | | | |
| Cycling interval capacity for heatingPcych Pcych-kW kW-Cycling interval efficiencyCOPcyc COPcycRated Seasonal COP of Space HeatingSCOP 5.69 Annual energy consumption Q_{HE} 1644 kWhParameters (COLDER / Low-Temperature) climate conditions:-Rated heat output (*) P_{rated} 6 kW-Seasonal space heating energy efficiency n_s 141 %Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoortemperature 20 °C and outdoor temperature T j $(**)$ temperature 20 °C and outdoor temperature T j 141 %T j = -7 °CPdh 3.62 kW0.97T j = -7 °CCOPd 3.06 -T j = +7 °CPdh 2.25 kW0.91T j = + 7 °CCOPd 4.95 -T j = +7 °CPdh 2.25 kW0.91T j = + 7 °CCOPd 6.18 -T j = +12 °CPdh 2.25 kW0.91T j = + 7 °CCOPd 6.55 -T j = +12 °CPdh 4.86 kW0.90T j = + 12 °CCOPd 8.65 -T j = -15 °CPdh 4.86 kW0.90T j = - 15 °CCOPd 1.85 -T j = -15 °CPdh 4.86 kW0.98T j = -15 °CCOPd 1.85 -Bivalent temperatureT bw-15°C-< | Bivalent temperature | T _{biv} | 2 | °C | - | Operation limit temperature | TOL | 2 | °C | | |
| Rated Seasonal COP of Space HeatingSCOP5.69Annual energy consumption Q_{HE} 1644kWhParameters (COLDER / Low-Temperature) climate conditions:- Rated heat output (*) P_{rated} 6kW-Seasonal space heating energy efficiency n_s 141%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdh (**)Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T j03.06-T j = -7 °CPdh3.62kW0.97T j = -7 °CCOPd3.06-T j = + 2 °CPdh2.25kW0.91T j = + 2 °CCOPd4.95-T j = + 12 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = T bivPdh4.86kW0.90T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T 0LPdh4.86kW0.90T j = -15 °CCOPd2.56-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Score< | Cycling interval capacity for heating | Pcych | _ | kW | - | Cycling interval efficiency | СОРсус | _ | - | | |
| Parameters (COLDER / Low-Temperature) climate conditions:-Rated heat output (*) P_{rated} 6 kW $-$ Seasonal space heating energy efficiency n_s 141%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T j $(**)$ Declared coefficient of performance for part load at indoor | Rated Seasonal COP of Space Heating | SCOP | 5.69 | - | - | Annual energy consumption | Q _{HE} | 1644 | kWh | | |
| Rated heat output (*)Prated6kW-Seasonal space heating energy efficiency Π_s 141%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdhDeclared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T jM3.62kW0.97T j = -7 °CCOPd3.06-T j = -7 °CPdh3.62kW0.97T j = -7 °CCOPd3.06-T j = + 2 °CPdh2.25kW0.91T j = + 2 °CCOPd4.95-T j = + 7 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T OLPdh4.86kW0.90T j = -15 °CCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for | Parameters (COLDER / Low-Temperat | ure) clim | i ate conditio | ons:- | | | | | | | |
| Index hold of part 1Index6Index141Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jCdh (**)Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T jT j = -7 °CPdh3.62kW0.97T j = -7 °CCOPd3.06-T j = + 2 °CPdh2.25kW0.91T j = + 2 °CCOPd4.95-T j = + 7 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T DLPdh4.86kW0.98T j = -15 °CCOPd2.56-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for | Rated heat output (*) | P _{rated} | | kW | - | Seasonal space heating | n. | | % | | |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j $T j = -7 °C$ Pdh 3.62 kW 0.97 $T j = -7 °C$ COPd 3.06 $ T j = -7 °C$ Pdh 3.62 kW 0.97 $T j = -7 °C$ COPd 3.06 $ T j = +2 °C$ Pdh 2.25 kW 0.91 $T j = +2 °C$ COPd 4.95 $ T j = +7 °C$ Pdh 2.85 kW 0.91 $T j = +7 °C$ COPd 6.18 $ T j = +12 °C$ Pdh 3.24 kW 0.91 $T j = +12 °C$ COPd 6.18 $ T j = +12 °C$ Pdh 3.24 kW 0.90 $T j = +12 °C$ COPd 8.65 $ T j = -15 °C$ Pdh 4.86 kW 0.90 $T j = -15 °C$ COPd 2.56 $-$ T j = -15 °CPdh 4.86 kW 0.98 $T j = -15 °C$ COPd 2.56 $-$ Bivalent temperature $T _{biv}$ -15 °C $-$ Operation limit temperature TOL -15 °CCycling interval capacity for heatingPcych $-$ kW $-$ Cycling interval efficiencyCOPcyc $ -$ Rated Seasonal COP of Snace HeatingSCOP 3.61 $ -$ Annual energy consumption Q_{HE} 4101 kWh | | Tuteu | 6 | | | energy efficiency | ., | 141 | | | |
| temperature 20 °C and outdoor temperature T jT j = -7 °CPdh3.62kW0.97T j = -7 °CCOPd3.06-T j = + 2 °CPdh2.25kW0.91T j = + 2 °CCOPd4.95-T j = + 7 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T DLPdh4.86kW0.98T j = -15 °CCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Space HeatingSCOP3.61Annual energy consumptionQ HE4101kWh | Declared capacity for heating for part load at indoor | | | | Cdh | dh Declared coefficient of performance for part load at indoor | | | | | |
| T j = -7 °CPdh3.62kW0.97T j = -7 °CCOPd3.06-T j = +2 °CPdh2.25kW0.91T j = +2 °CCOPd4.95-T j = +7 °CPdh2.85kW0.91T j = +7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T DLPdh4.86kW0.90T j = T DLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snare HeatingSCOP3.61Annual energy consumptionQ _{HE} 4101kWh | temperature 20 °C and outdoor temperature T i | | | | | temperature 20 °C and outdoor temperature T i | | | | | |
| T j = 2 r CPdhD SCRWD STT j = 2 r CCOPdD SCIT j = + 2 °CPdh2.25kW0.91T j = + 2 °CCOPd4.95-T j = + 7 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = T DLPdh4.86kW0.90T j = T DLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snace HeatingSCOP3.61Annual energy consumptionQ $_{HE}$ 4101kWh | $T_{i} = -7$ °C | | 3.62 | k\A/ | 0.97 | $T_{i} = -7^{\circ}C$ | | 3.06 | L | | |
| T j = + 2 CPdhLLDKW0.31T j = + 2 CCOPd1.051T j = + 7 °CPdh2.85kW0.91T j = + 7 °CCOPd6.18-T j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = TOLPdh4.86kW0.90T j = T DLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Space HeatingSCOP 3.613.61Annual energy consumption Q_{HE} 4101kWh | | Pull | 2 25 | | 0.91 | Ti/ C | COPU | 4 95 | <u> </u> | | |
| T j = T / CPdh1.00KW0.31T j = T / CCOPd0.10IT j = + 12 °CPdh3.24kW0.89T j = + 12 °CCOPd8.65-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = TOLPdh4.86kW0.90T j = T OLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snace HeatingSCOP3.61Annual energy consumptionQ HE4101kWh | $T_{i} = \pm 7 \%$ | Dah | 2.85 | | 0.91 | Ti-+7°C | COPA | 6.18 | | | |
| T j = T 12 CPainS.2.4KW0.00T j = T 12 CCOPa6.03-T j = T bivPdh4.86kW0.90T j = T bivCOPd2.56-T j = TOLPdh4.86kW0.90T j = TOLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snare HeatingSCOP 3.613.61Annual energy consumption Q_{HE} 4101kWh | Ti-+12°C | Pull | 3.2/ | K VV | 0.91 | $1 J - \tau / C$ $T i - \pm 12 °C$ | COPU | 8.65 | <u> </u> | | |
| T j = T DIVPdh4.86KW0.30T j = T DIVCOPd2.30-T j = TOLPdh4.86kW0.90T j = TOLCOPd1.85-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT biv-15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snace HeatingSCOP3.61Annual energy consumptionQ HE4101kWh | | Pull Dah | 4 86 | K VV | 0.05 | 1 - T = T h w | COPU | 2.56 | <u> </u> | | |
| T j = 10LPdin100KW0.50T j = 10LCOPd1.65-T j = -15 °CPdh4.86kW0.98T j = -15 °CCOPd2.56-Bivalent temperatureT $_{biv}$ -15°C-Operation limit temperatureTOL-15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiencyCOPcycRated Seasonal COP of Snace HeatingSCOP 3.613.61Annual energy consumption Q_{HE} 4101kWh | | Pull | 4.86 | K VV | 0.90 | | COPU | 1.85 | <u> </u> | | |
| I j = -15 CPainA.00KW0.50I j = -15 CCOPa2.30-Bivalent temperature T_{biv} -15°C-Operation limit temperature TOL -15°CCycling interval capacity for heatingPcych-kW-Cycling interval efficiency $COPcyc$ Rated Seasonal COP of Space HeatingSCOP 3.613.61Annual energy consumption Q_{HE} 4101kWh | | Pull | 4.86 | KVV | 0.90 | | COPU | 2.56 | <u> </u> | | |
| Divident temperature Point | | ran T | -15 | KW | 0.96 | | | _15 | - •c | | |
| Cycling interval capacity for heating Pcycn KW Cycling interval efficiency COPcyc - - Rated Seasonal COP of Space Heating SCOP 3.61 - - Annual energy consumption Q _{HE} 4101 kWh | | l biv | -13 | | | Operation inflictemperature | | -13 | | | |
| Space Heating Scor Annual energy consumption Q HE 4101 KWN | Cycling interval capacity for heating | Pcych | | ĸŴ | - | | | | | | |
| opuce neutring | Space Heating | | 3.61 | | - | Annual energy consumption | | 4101 | KVVN | | |

Technical documentation - technical parameters

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| Power consumption in modes other than active mode: | | | | | Other items: (◊) (□) | | | | | |
|--|---|---|----------------|-------------------|------------------------------------|-------------------|----------|---------|--|--|
| Off mode | | P OFF | 0.011 | kW | Heating water operating | WTOL | 55 | °C | | |
| Thermostat-off mode | | Р то | 0.041 | kW | limit temperature | | | | | |
| Standby mode | | P _{SB} | 0.011 | kW | Capacity control | | Variable | - | | |
| Crankcase heater mode | | Р _{ск} | 0.000 | kW | Sound power level, indoor (◊) | L _{WA} | 41 | dB (A) | | |
| Supplementary heater | | | | | Sound power level, outdoor (◊) | L _{WA} | 61 | dB (A) | | |
| Rated heat output (*) | | P _{sup} | 3.0 | kW | Sound power level, indoor (□) | L WA | 41 | dB (A) | | |
| Type of energy input | | | 230V 1ø 50H | Z | Sound power level, outdoor (□) | LWA | 69 | dB (A) | | |
| For water- or brine-to-water | | | | | Rated air flow rate, outdoor | _ | 3648 | m^3/h | | |
| heat pumps: Rated brine or | | | | 2 | | | | / | | |
| water flow rate, outdoor | | — | — | m³/h | Emissions of nitrogen oxides | NO , | _ | mg/ | | |
| heat exchanger | | | | | | ~ | | kWh | | |
| For heat nump combination | hostor | | | | Declared lead profile | | | | | |
| | | |) olimata | anditiona | | | L | | | |
| Parameters (AVERAGE/MEDIO | | ERATUR | (E) climate (| | | | 1.110 | 1 | | |
| Water heating energy | | η_{wh} | 104 | % | Standing Heat Loss | _ | 1410 | w | | |
| efficiency | | | A 424 | | | _ | + | | | |
| Daily electricity consumption | | Q _{elec} | 4.434 | kWh | Daily fuel consumption | Q _{fuel} | | kWh | | |
| Annual electricity consumption | on | AEC | 957 | kWh | Annual fuel consumption | AFC | - | GJ | | |
| Parameters (WARMER/MEDIU | Μ ΤΕΜΡ | PERATUR | RE) climate (| conditions:- | | | | | | |
| Water heating energy | | η_{wh} | 134 | % | Standing Heat Loss | — | 1410 | W | | |
| efficiency | | | A+ | | | | | | | |
| Daily electricity consumption | | Q _{elec} | 3.524 | kWh | Daily fuel consumption | Q _{fuel} | - | kWh | | |
| Annual electricity consumption | on | AEC | 760 | kWh | Annual fuel consumption | AFC | — | GJ | | |
| Parameters (COLDER/MEDIUN | ΙΤΕΜΡΕ | RATURE |) climate co | nditions:- | • · · · | | | - | | |
| Water heating energy | | η_{wh} | 92 | % | Standing Heat Loss | _ | 1410 | w | | |
| efficiency | | | А | | | | | | | |
| Daily electricity consumption | | Q _{eler} | 4.979 | kWh | Daily fuel consumption | Q fuel | _ | kWh | | |
| | on | AFC | 1074 | k)Wb | Annual fuel consumption | AFC | | GL | | |
| Contact details for obtaining | (Nama a | | on of outbout | | | 70.0 | <u> </u> | | | |
| more information: (the name | (Name a | | Tosting Co | | is Markating Europa CmbH | | | | | |
| and address of the supplier) | d address of the supplier) | | | | | | | | | |
| and address of the supplier) | VVI | Winsbergring 15, 22525 Hamburg, Germany | | | | | | | | |
| | Cor | Contact in the UK: Panasonic UK, a branch of Panasonic, Marketing Europe GmbH | | | | | | | | |
| | Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT | | | | | | | | | |
| Other technical standards and spe | cificatior | ns used (i | f applicable): | | | | | | | |
| N/A | | | | | | | | | | |
| REMARK: | | | | | | | | | | |
| • You can find information a | nd prec | autions | relevant for | r installation an | d maintenance in the instruction m | anuals. | | | | |
| • You can find information relevant for disposal at end-of-life in the instruction manual. | | | | | | | | | | |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the | | | | | | | | | | |
| design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the | | | | | | | | | | |
| supplementary capacity for heating sup(Tj). | | | | | | | | | | |
| (**) If Cdh is not determined by measurement, then the default degradation coefficient is Cdh = 0.9 | | | | | | | | | | |
| (0) Nominal A-Weighted Sound Power Level (LWA), according to regulation 811/2013, 813/2013 and standard EN14825 at | | | | | | | | | | |
| A/(b) in dB (A). | | | | | | | | | | |
| (L) Maximum A-weighted Sound Power Level (LWA), according to EN12102-1 at A/(b) WSS(4/), Iff dB (A). | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Approved and signed by | | Kan | ~~~~ | | | | | | | |
| Name: | · | <u>/</u> Hiroka | zu Kamoda | 3 | | | | | | |
| Title: | | Director | | | | | | | | |
| Company Name: | Company Name: Panasonic Appliances Air-Conditioning R&D Malavsia Sdn. Bhd. | | | | | | | | | |
| (on behalf of factory) | (on behalf of factory) Panasonic Appliances Air-Conditioning Malaysia Sdn. Bhd. | | | | | | | | | |
| l ` '' | | | | | | | | | | |