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Login

| Summary of | 03. Yutaki S & S Combi 3.0HP | Reg. No. | 041-K002-03 |
|---------------------|---|--|-------------|
| Certificate Holder | | | |
| Name | Name Johnson Controls-Hitachi AirConditioning Spain | | |
| Address | Ronda Shimizu, 1. Pol. Ind. Can Torrella | Ronda Shimizu, 1. Pol. Ind. Can Torrella Zip 08233 | |
| City | Vacarisses, Barcelona | Country | Spain |
| Certification Body | BRE Global Limited | | |
| Subtype title | 03. Yutaki S & S Combi 3.0HP | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.7 kg | | |

Model: RAS-3WHVNP RWM-3.0NE - Heating Only

| Configure model | | |
|--|-----------------------|--|
| Model name RAS-3WHVNP RWM-3.0NE - Heating Only | | |
| Application | Heating (medium temp) | |
| Units Indoor + Outdoor | | |
| Climate Zone n/a | | |
| Reversibility No | | |
| Cooling mode application (optional) n/a | | |

| General Data | | |
|--------------------------|--|--|
| Power supply 1x230V 50Hz | | |

Heating

| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |

| EN 14511-2 | | |
|------------------------------------|---------|---------|
| Low temperature Medium temperature | | |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |

Average Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 165 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.20 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.50 | 1.84 |
| Pdh Tj = +2°C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.40 | 3.20 |
| Pdh Tj = +7°C | 2.31 kW | 2.00 kW |
| COP Tj = +7°C | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |
| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |



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| COP Tj = Tbiv | 2.50 | 1.84 |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| PTO | o w | 0 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3286 kWh | 3724 kWh |



Model: RAS-3WHVNP RWD-3.0NWE-200S - Heating Only

| Configure model | | |
|--|--------------------------|--|
| Model name RAS-3WHVNP RWD-3.0NWE-200S - Heating Only | | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone n/a | | |
| Reversibility No | | |
| Cooling mode application (optional) n/a | | |

| General Data | | |
|--------------------------|--|--|
| Power supply 1x230V 50Hz | | |

Heating

| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |

| EN 14511-2 | | | |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 7.50 kW | 7.50 kW | |
| El input | 2.92 kW | 2.08 kW | |
| СОР | 4.55 | 2.57 | |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 165 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.20 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7° C | 5.90 kW | 5.10 kW |
| COP Tj = -7° C | 2.50 | 1.84 |
| Pdh Tj = $+2$ °C | 3.59 kW | 3.10 kW |
| $COP Tj = +2^{\circ}C$ | 4.40 | 3.20 |
| Pdh Tj = $+7^{\circ}$ C | 2.31 kW | 2.00 kW |
| $COPTj = +7^{\circ}C$ | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |





| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | o w | 0 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3286 kWh | 3724 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 132 % | |
| СОР | 3.30 | |
| Heating up time | 1:43 h:min | |
| Standby power input | 37.0 W | |
| Reference hot water temperature | 54.0 °C | |
| Mixed water at 40°C | 263 I | |



Model: RAS-3WHVNP RWD-3.0NWE-260S - Heating Only

| Configure model | | |
|--|--------------------------|--|
| Model name RAS-3WHVNP RWD-3.0NWE-260S - Heating Only | | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone n/a | | |
| Reversibility No | | |
| Cooling mode application (optional) n/a | | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

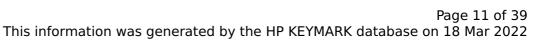
| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.50 kW | 7.50 kW | |
| El input | 2.92 kW | 2.08 kW | |
| СОР | 4.55 | 2.57 | |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-----------------|--|--|
| Low temperature | Medium temperature | |
| 165 % | 125 % | |
| 7.00 kW | 6.00 kW | |
| 4.20 | 3.20 | |
| -7 °C | -7 °C | |
| -10 °C | -10 °C | |
| 5.90 kW | 5.10 kW | |
| 2.50 | 1.84 | |
| 3.59 kW | 3.10 kW | |
| 4.40 | 3.20 | |
| 2.31 kW | 2.00 kW | |
| 5.35 | 4.45 | |
| 2.10 kW | 2.30 kW | |
| 6.15 | 5.96 | |
| | Low temperature 165 % 7.00 kW 4.20 -7 °C -10 °C 5.90 kW 2.50 3.59 kW 4.40 2.31 kW 5.35 2.10 kW | |

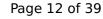




| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | o w | o w |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3286 kWh | 3724 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| СОР | 3.40 |
| Heating up time | 2:10 h:min |
| Standby power input | 41.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 I |



Model: RAS-3WHVNP RWD-3.0NWE-200S-K - UK-Heating Only

| Configure model | | |
|-------------------------------------|---|--|
| Model name | RAS-3WHVNP RWD-3.0NWE-200S-K - UK- Heating Only | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------------------|--|--|
| Power supply 1x230V 50Hz | | |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |



Average Climate

| EN 12102-1 | | | |
|---|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 37 dB(A) | 37 dB(A) | |
| Sound power level outdoor 64 dB(A) 64 dB(A) | | | |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 165 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.20 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7 °C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.50 | 1.84 |
| Pdh Tj = $+2$ °C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.40 | 3.20 |
| Pdh Tj = $+7^{\circ}$ C | 2.31 kW | 2.00 kW |
| $COP Tj = +7^{\circ}C$ | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |

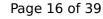




| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | 0 W | 0 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3286 kWh | 3724 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency ηDHW | 132 % |
| СОР | 3.30 |
| Heating up time | 1:43 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 263 I |

Model: RAS-3WHVNP RWD-3.0NWE-260S-K - UK-Heating Only

| Configure model | | |
|-------------------------------------|---|--|
| Model name | RAS-3WHVNP RWD-3.0NWE-260S-K - UK- Heating Only | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------------------|--|--|
| Power supply 1x230V 50Hz | | |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|------------------------------------|---------|--------------------|
| Low temperature Medium temperature | | Medium temperature |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 165 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.20 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7° C | 5.90 kW | 5.10 kW |
| COP Tj = -7° C | 2.50 | 1.84 |
| Pdh Tj = $+2$ °C | 3.59 kW | 3.10 kW |
| $COP Tj = +2^{\circ}C$ | 4.40 | 3.20 |
| Pdh Tj = $+7^{\circ}$ C | 2.31 kW | 2.00 kW |
| $COPTj = +7^{\circ}C$ | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |





| | <u> </u> | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | o w | 0 W |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |

0.60 kW

3286 kWh

1.50 kW

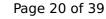
3724 kWh

Domestic Hot Water (DHW)

Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe





| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| СОР | 3.40 |
| Heating up time | 2:10 h:min |
| Standby power input | 41.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 I |



Model: RAS-3WHVNP RWD-3.0NWSE-260S - Solar - Heating Only

| Configure model | | |
|-------------------------------------|--|--|
| Model name | RAS-3WHVNP RWD-3.0NWSE-260S - Solar - Heating Only | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------------------|--|--|
| Power supply 1x230V 50Hz | | |

Heating

| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |

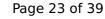


Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 165 % | 125 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.20 | 3.20 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7° C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.50 | 1.84 |
| Pdh Tj = +2°C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.40 | 3.20 |
| Pdh Tj = $+7$ °C | 2.31 kW | 2.00 kW |
| COP Tj = +7°C | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |





| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | o w | 0 W |
| PSB | 11 W | 11 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3286 kWh | 3724 kWh |
| | | |

Domestic Hot Water (DHW)

Average Climate



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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| СОР | 3.40 |
| Heating up time | 2:10 h:min |
| Standby power input | 41.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 I |

Model: RAS-3WHVNP RWM-3.0NE - with cooling kit

| Configure model | | | |
|--|--|--|--|
| Model name RAS-3WHVNP RWM-3.0NE - with cooling kit | | | |
| Application Heating (medium temp) | | | |
| Units Indoor + Outdoor | | | |
| Climate Zone n/a | | | |
| Reversibility No | | | |
| Cooling mode application (optional) n/a | | | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.50 kW | 7.50 kW | |
| El input | 2.92 kW | 2.08 kW | |
| СОР | 4.55 | 2.57 | |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 167 % | 127 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.25 | 3.25 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.10 kW |
| COP Tj = -7° C | 2.50 | 1.84 |
| Pdh Tj = $+2$ °C | 3.59 kW | 3.10 kW |
| $COPTj = +2^{\circ}C$ | 4.40 | 3.20 |
| Pdh Tj = $+7^{\circ}$ C | 2.31 kW | 2.00 kW |
| COP Tj = +7°C | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |



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| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| PTO | o w | o w |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3242 kWh | 3690 kWh |



Model: RAS-3WHVNP RWD-3.0NWE-200S - with cooling kit

| Configure model | | |
|---|---|--|
| Model name | RAS-3WHVNP RWD-3.0NWE-200S - with cooling kit | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility No | | |
| Cooling mode application (optional) n/a | | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

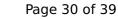
| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |



Average Climate

| EN 12102-1 | | | | |
|---|----------|----------|--|--|
| Low temperature Medium temperature | | | | |
| Sound power level indoor | 37 dB(A) | 37 dB(A) | | |
| Sound power level outdoor 64 dB(A) 64 dB(A) | | | | |

| EN 14825 | | |
|-----------------|--|--|
| Low temperature | Medium temperature | |
| 167 % | 127 % | |
| 7.00 kW | 6.00 kW | |
| 4.25 | 3.25 | |
| -7 °C | -7 °C | |
| -10 °C | -10 °C | |
| 5.90 kW | 5.10 kW | |
| 2.50 | 1.84 | |
| 3.59 kW | 3.10 kW | |
| 4.40 | 3.20 | |
| 2.31 kW | 2.00 kW | |
| 5.35 | 4.45 | |
| 2.10 kW | 2.30 kW | |
| 6.15 | 5.96 | |
| | Low temperature 167 % 7.00 kW 4.25 -7 °C -10 °C 5.90 kW 2.50 3.59 kW 4.40 2.31 kW 5.35 2.10 kW | |

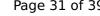




| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | o w | o w |
| PSB | 11 W | 11 W |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3242 kWh | 3690 kWh |
| | | |

Domestic Hot Water (DHW)

Average Climate





 $$\operatorname{\textit{Page}}\ 31$$ of 39 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency ηDHW | 132 % |
| СОР | 3.30 |
| Heating up time | 1:43 h:min |
| Standby power input | 37.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 263 I |



Model: RAS-3WHVNP RWD-3.0NWE-260S - with cooling kit

| Configure model | | |
|-------------------------------------|---|--|
| Model name | RAS-3WHVNP RWD-3.0NWE-260S - with cooling kit | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| Genera | al Data |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

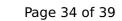
| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.50 kW | 7.50 kW |
| El input | 2.92 kW | 2.08 kW |
| СОР | 4.55 | 2.57 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 37 dB(A) | 37 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 167 % | 127 % |
| Prated | 7.00 kW | 6.00 kW |
| SCOP | 4.25 | 3.25 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.90 kW | 5.10 kW |
| COP Tj = -7°C | 2.50 | 1.84 |
| Pdh Tj = +2°C | 3.59 kW | 3.10 kW |
| COP Tj = +2°C | 4.40 | 3.20 |
| Pdh Tj = +7°C | 2.31 kW | 2.00 kW |
| $COP Tj = +7^{\circ}C$ | 5.35 | 4.45 |
| Pdh Tj = 12°C | 2.10 kW | 2.30 kW |
| COP Tj = 12°C | 6.15 | 5.96 |





This information was generated by the HP KEYMARK database on 18 Mar 2022 Pdh Tj = Tbiv5.90 kW 5.10 kW COP Tj = Tbiv 2.50 1.84 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.40 kW 4.30 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.30 1.65 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 55 °C 55 °C Poff 11 W 11 W PTO 0 W 0 W **PSB** 11 W 11 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.60 kW 1.50 kW

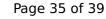
3242 kWh

3690 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate





| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency ηDHW | 136 % |
| СОР | 3.40 |
| Heating up time | 2:10 h:min |
| Standby power input | 41.0 W |
| Reference hot water temperature | 54.0 °C |
| Mixed water at 40°C | 350 I |



Model: RAS-3WHVNP RWD-3.0NWSE-260S - Solar - with cooling kit

| Configure model | | |
|-------------------------------------|--|--|
| Model name | RAS-3WHVNP RWD-3.0NWSE-260S - Solar - with cooling kit | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| | General Data | |
|--------------|--------------|--|
| Power supply | 1x230V 50Hz | |

Heating

| EN 14511-4 | | |
|--|--------|--|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed | |
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 7.50 kW | 7.50 kW | |
| El input | 2.92 kW | 2.08 kW | |
| СОР | 4.55 | 2.57 | |



Average Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 37 dB(A) | 37 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | |
|-----------------|--|--|
| Low temperature | Medium temperature | |
| 167 % | 127 % | |
| 7.00 kW | 6.00 kW | |
| 4.25 | 3.25 | |
| -7 °C | -7 °C | |
| -10 °C | -10 °C | |
| 5.90 kW | 5.10 kW | |
| 2.50 | 1.84 | |
| 3.59 kW | 3.10 kW | |
| 4.40 | 3.20 | |
| 2.31 kW | 2.00 kW | |
| 5.35 | 4.45 | |
| 2.10 kW | 2.30 kW | |
| 6.15 | 5.96 | |
| | Low temperature 167 % 7.00 kW 4.25 -7 °C -10 °C 5.90 kW 2.50 3.59 kW 4.40 2.31 kW 5.35 2.10 kW | |

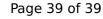




| Pdh Tj = Tbiv | 5.90 kW | 5.10 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 2.50 | 1.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.40 kW | 4.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.30 | 1.65 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 55 °C | 55 °C |
| Poff | 11 W | 11 W |
| РТО | 0 W | 0 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.60 kW | 1.50 kW |
| Annual energy consumption Qhe | 3242 kWh | 3690 kWh |

Domestic Hot Water (DHW)

Average Climate





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 136 % | |
| СОР | 3.40 | |
| Heating up time | 2:10 h:min | |
| Standby power input | 41.0 W | |
| Reference hot water temperature | 54.0 °C | |
| Mixed water at 40°C | 350 l | |