

Subtype BERETTA HYDRO UNIT P 012, HYDRO UNIT P 014, HYDRO UNIT P 012T, HYDRO UNIT P 014T

| | |
|---------------------|--|
| Certificate Holder | Riello S.p.A. |
| Address | Via Ing. Pilade Riello 7 |
| ZIP | 37045 |
| City | Legnago (VR) |
| Country | IT |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | BERETTA HYDRO UNIT P 012, HYDRO UNIT P 014, HYDRO UNIT P 012T, HYDRO UNIT P 014T |
| Registration number | 011-1W0630 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 1.07 kg |
| Certification Date | 26.06.2023 |
| Testing basis | HP KEYMARK Certification Scheme Rules Rev. 12 |

Model BERETTA HYDRO UNIT P 012

| | |
|-------------------------------------|--------------------------|
| Model name | BERETTA HYDRO UNIT P 012 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

| | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 187 % | 131 % |
| Prated | 9.35 kW | 9.33 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.27 kW | 8.25 kW |
| COP Tj = -7°C | 2.74 | 1.97 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 5.03 kW | 5.02 kW |
| COP Tj = +2°C | 4.65 | 3.17 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 4.86 kW | 3.23 kW |
| COP Tj = +7°C | 6.55 | 4.76 |
| Cdh Tj = +7 °C | 0.973 | 0.976 |
| Pdh Tj = 12°C | 3.81 kW | 3.52 kW |
| COP Tj = 12°C | 9.06 | 6.45 |
| Cdh Tj = +12 °C | 0.952 | 0.973 |
| Pdh Tj = Tbiv | 8.27 kW | 8.25 kW |
| COP Tj = Tbiv | 2.74 | 1.97 |

| | | |
|---|----------|----------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.66 kW | 7.65 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.41 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 75 °C | 75 °C |
| Poff | 10 W | 10 W |
| PTO | 15 W | 15 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.69 kW | 1.68 kW |
| Annual energy consumption Qhe | 4068 kWh | 5743 kWh |

Model BERETTA HYDRO UNIT P 012T

| | |
|-------------------------------------|---------------------------|
| Model name | BERETTA HYDRO UNIT P 012T |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

| | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 187 % | 131 % |
| Prated | 9.35 kW | 9.33 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.27 kW | 8.25 kW |
| COP Tj = -7°C | 2.74 | 1.97 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 5.03 kW | 5.02 kW |
| COP Tj = +2°C | 4.65 | 3.17 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 4.86 kW | 3.23 kW |
| COP Tj = +7°C | 6.55 | 4.76 |
| Cdh Tj = +7 °C | 0.973 | 0.976 |
| Pdh Tj = 12°C | 3.81 kW | 3.52 kW |
| COP Tj = 12°C | 9.06 | 6.45 |
| Cdh Tj = +12 °C | 0.952 | 0.973 |
| Pdh Tj = Tbiv | 8.27 kW | 8.25 kW |
| COP Tj = Tbiv | 2.74 | 1.97 |

| | | |
|---|----------|----------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.66 kW | 7.65 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.41 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 75 °C | 75 °C |
| Poff | 10 W | 10 W |
| PTO | 15 W | 15 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.69 kW | 1.68 kW |
| Annual energy consumption Qhe | 4068 kWh | 5743 kWh |

Model BERETTA HYDRO UNIT P 014

| | |
|-------------------------------------|--------------------------|
| Model name | BERETTA HYDRO UNIT P 014 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

| | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 187 % | 131 % |
| Prated | 9.35 kW | 9.33 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.27 kW | 8.25 kW |
| COP Tj = -7°C | 2.74 | 1.97 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 5.03 kW | 5.02 kW |
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| Cdh Tj = +12 °C | 0.952 | 0.973 |
| Pdh Tj = Tbiv | 8.27 kW | 8.25 kW |
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| Poff | 10 W | 10 W |
| PTO | 15 W | 15 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.69 kW | 1.68 kW |
| Annual energy consumption Qhe | 4068 kWh | 5743 kWh |

Model BERETTA HYDRO UNIT P 014T

| | |
|-------------------------------------|---------------------------|
| Model name | BERETTA HYDRO UNIT P 014T |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

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| Power supply | 3x400V 50Hz |
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EN 14825 | Average Climate

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| η_s | 187 % | 131 % |
| Prated | 9.35 kW | 9.33 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.27 kW | 8.25 kW |
| COP Tj = -7°C | 2.74 | 1.97 |
| Cdh Tj = -7 °C | | |
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| Pdh Tj = +7°C | 4.86 kW | 3.23 kW |
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| Supplementary Heater: Type of energy input | n/a | n/a |
| Supplementary Heater: PSUP | 1.69 kW | 1.68 kW |
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