

Subtype RIELLO NXHP 012, NXHP 014, NXHP 012T, NXHP 014T

Certificate Holder	Riello S.p.A.
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ZIP	37045
City	Legnago (VR)
Country	IT
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	RIELLO NXHP 012, NXHP 014, NXHP 012T, NXHP 014T
Registration number	011-1W0620
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. 14

Model RIELLO NXHP 012

Model name	RIELLO NXHP 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.40 kW	10.95 kW
El input	2.50 kW	3.54 kW
COP	4.55	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.18 kW	
Cooling capacity	9.70	
EER	3.05	

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	176 %	144 %
Prated	10.19 kW	9.73 kW
SCOP	4.48	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	9.01 kW	8.61 kW
COP Tj = -7°C	2.63	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.20 kW	4.93 kW
COP Tj = +2°C	4.47	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.23 kW	3.09 kW
COP Tj = +7°C	5.76	4.90
Cdh Tj = +7 °C	0.960	0.976
Pdh Tj = 12°C	3.74 kW	3.74 kW
COP Tj = 12°C	7.77	7.04
Cdh Tj = +12 °C	0.952	0.973
Pdh Tj = Tbiv	9.01 kW	8.61 kW
COP Tj = Tbiv	2.63	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.26 kW	8.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	1.40 kW
Annual energy consumption Qhe	4696 kWh	5486 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.70 kW	
SEER	5.34	
Pdc Tj = 35°C	9.70 kW	
EER Tj = 35°C	3.05	
Cdc Tj = 35 °C	0.900	
Pdc Tj = 30°C	7.15 kW	
EER Tj = 30°C	4.49	
Cdc Tj = 30 °C	0.900	
Pdc Tj = 25°C	4.59 kW	
EER Tj = 25°C	5.96	
Cdc Tj = 25 °C	0.900	
Pdc Tj = 20°C	3.60 kW	
EER Tj = 20°C	8.31	
Cdc Tj = 20 °C	0.900	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	5820 kWh

Model RIELLO NXHP 012T

Model name	RIELLO NXHP 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.40 kW	10.95 kW
El input	2.45 kW	3.48 kW
COP	4.65	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.13 kW	
Cooling capacity	9.70	
EER	3.10	

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	176 %	144 %
Prated	10.19 kW	9.73 kW
SCOP	4.48	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	9.01 kW	8.61 kW
COP Tj = -7°C	2.63	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.20 kW	4.93 kW
COP Tj = +2°C	4.47	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.23 kW	3.09 kW
COP Tj = +7°C	5.76	4.90
Cdh Tj = +7 °C	0.960	0.976
Pdh Tj = 12°C	3.74 kW	3.74 kW
COP Tj = 12°C	7.77	7.04
Cdh Tj = +12 °C	0.952	0.973
Pdh Tj = Tbiv	9.01 kW	8.61 kW
COP Tj = Tbiv	2.63	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.26 kW	8.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	1.40 kW
Annual energy consumption Qhe	4696 kWh	5486 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.70 kW	
SEER	5.34	
Pdc Tj = 35°C	9.70 kW	
EER Tj = 35°C	3.10	
Cdc Tj = 35 °C	0.900	
Pdc Tj = 30°C	7.15 kW	
EER Tj = 30°C	4.49	
Cdc Tj = 30 °C	0.900	
Pdc Tj = 25°C	4.59 kW	
EER Tj = 25°C	5.96	
Cdc Tj = 25 °C	0.900	
Pdc Tj = 20°C	3.60 kW	
EER Tj = 20°C	8.22	
Cdc Tj = 20 °C	0.900	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	5820 kWh

Model RIELLO NXHP 014

Model name	RIELLO NXHP 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.80 kW	13.25 kW
El input	3.21 kW	4.57 kW
COP	4.30	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.63 kW	
Cooling capacity	10.70	
EER	2.95	

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	176 %	144 %
Prated	10.19 kW	9.73 kW
SCOP	4.48	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	9.01 kW	8.61 kW
COP Tj = -7°C	2.63	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.20 kW	4.93 kW
COP Tj = +2°C	4.47	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.23 kW	3.09 kW
COP Tj = +7°C	5.76	4.90
Cdh Tj = +7 °C	0.960	0.976
Pdh Tj = 12°C	3.74 kW	3.74 kW
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Cdh Tj = +12 °C	0.952	0.973
Pdh Tj = Tbiv	9.01 kW	8.61 kW
COP Tj = Tbiv	2.63	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.26 kW	8.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	1.40 kW
Annual energy consumption Qhe	4696 kWh	5486 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.70 kW	
SEER	5.15	
Pdc Tj = 35°C	10.70 kW	
EER Tj = 35°C	2.95	
Cdc Tj = 35 °C	0.900	
Pdc Tj = 30°C	7.88 kW	
EER Tj = 30°C	4.07	
Cdc Tj = 30 °C	0.900	
Pdc Tj = 25°C	5.07 kW	
EER Tj = 25°C	5.91	
Cdc Tj = 25 °C	0.900	
Pdc Tj = 20°C	3.63 kW	
EER Tj = 20°C	8.04	
Cdc Tj = 20 °C	0.900	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	6420 kWh

Model RIELLO NXHP 014T

Model name	RIELLO NXHP 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

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

Outdoor Air/Water

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.80 kW	13.25 kW
El input	3.14 kW	4.49 kW
COP	4.40	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.57 kW	
Cooling capacity	10.70	
EER	3.00	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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EN 14825 | Average Climate

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COP Tj = +2°C	4.47	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.23 kW	3.09 kW
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PSB	15 W	15 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	1.40 kW
Annual energy consumption Qhe	4696 kWh	5486 kWh

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Cdc Tj = 35 °C	0.900	
Pdc Tj = 30°C	7.88 kW	
EER Tj = 30°C	4.07	
Cdc Tj = 30 °C	0.900	
Pdc Tj = 25°C	5.07 kW	
EER Tj = 25°C	5.91	
Cdc Tj = 25 °C	0.900	
Pdc Tj = 20°C	3.63 kW	
EER Tj = 20°C	7.96	
Cdc Tj = 20 °C	0.900	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	6420 kWh