

**RIELLO** 



# **R32 Air to Water Monobloc**

25-FEB-22

AHI Carrier NZ is pleased to introduce a new Brand and Monobloc Air to Water heat pump to our ever growing product line up. Product offering starts from 4-16 kW in Single Phase and 12-30 kW in 3-Phase

# **1. Riello History**

Riello was formed in Italy in 1920 and in 1923 was the first company to adapt domestic light oil burners for use in bakers' ovens and other specialist applications. In 1925 due to the gasoil crisis and following considerable R&D the company adapted burners to the new heavy fuel oil.

During the 1930s and 40s the company continued to innovate anticipating and responding to changes in the market to meet users' requirements and in 1950 invested heavily in more extensive production facilities. In 1958 a special department was set up for the automation of burner components.

Further expansion and product development kept the company at the leading edge of its sector through the 1960s, 70s and 80s with expansion across Europe entry into the USA market and the opening of a production facility in Canada. Between 1985 and 1990 subsidiaries were established in England, Germany, France, Belgium and Switzerland.

In 1998 the Riello Burners brand was created to focus on this area of the company's activities which by then had diversified into several product lines. By 2005 Riello Burners was selling around 500,000 burners per annum across domestic, commercial and industrial sectors.

Throughout this time the company's products were underpinned by extensive R&D at Riello's Combustion Research Centre which has continued to increase in scope and size.

Now, the company has achieved primacy in Europe with its pre-mix monobloc burners, combining high efficiency with very low NOx emissions

## 2. Product Line Up



4-6 kW (1 Ph)



8-16 kW (1 Ph) 12-16 kW (3 Ph)



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To be launched by mid 2022

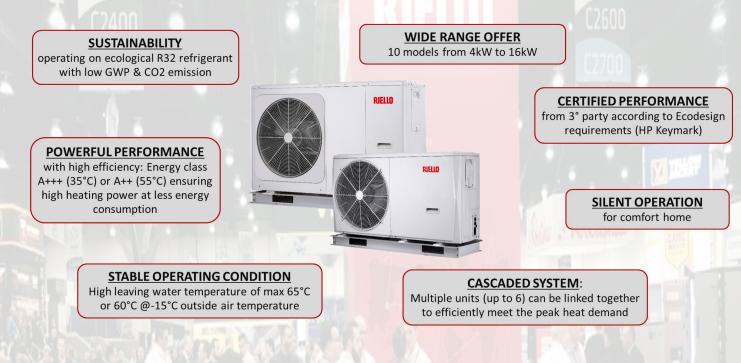
18-30 kW (3 Ph)



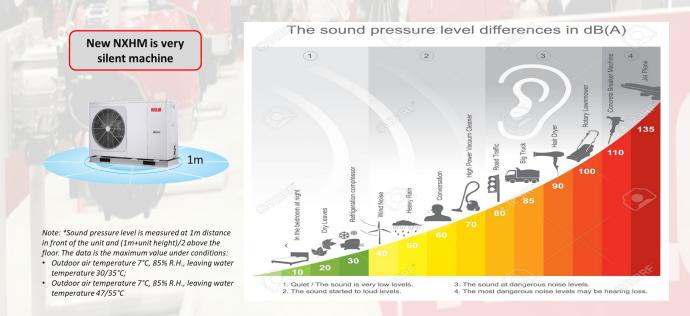
3. Features



NXHM 004÷016: Main selling points



- Full range certified according to ErP directive A+++ @A+7°C/W+35°C & A++ @A+7°C/W+55°C
- Silent operation with single Keymark performance certificate



- Brushless fan motor
- Fin-coil (plate type) heat exchanger with blue coating enduring higher resistance against corrosive agents
- Anti-freeze program protects the hydraulic parts from damage at low outdoor air temperature or during nonuse period (e.g. holiday away)
- Easy service and maintenance with frontal access to different components



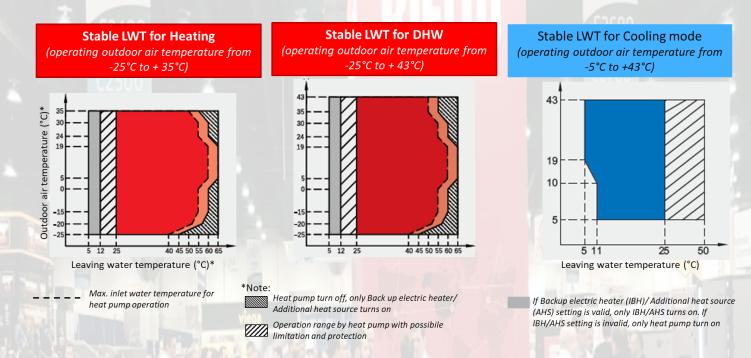




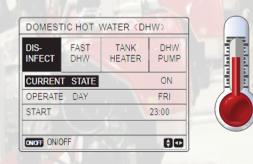
# Features continue

Continuous hot water supply temperature at 60°C even at low air temperature of -20°C

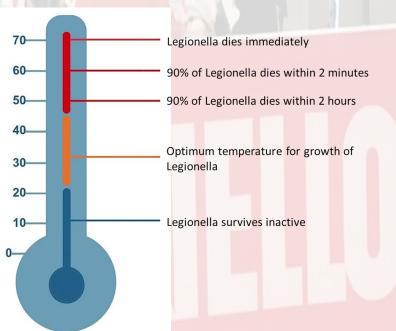
## Stable operating temperature



Disinfection function used in DHW mode for anti-legionella



- "Disinfect function" is used to kill legionella at 70°C to ensure the health and safety.
- The function can be set by the customer via wired controller



One single controller can manage up to 6 units in cascaded system (1 master & 5 slaves) even with different power outputs



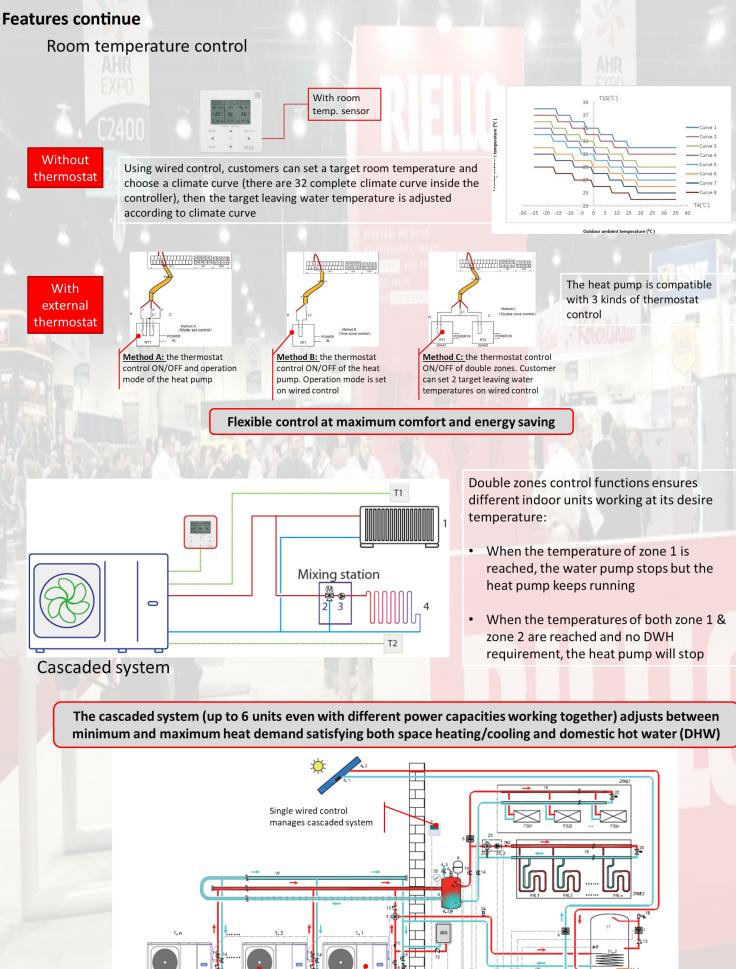
Wired controller (included in the units):

- Modbus protocol and network flexibility
- Manage cascade system up to 6 units
  - Multi-function working as customer's needs
- Available in multiple languages (EN, IT, DE, ES, FR, GR, NL, PL, PT, RO, RU, TR)

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Slave units (up to 5 units) operate in space heating/ cooling mode

Only master unit operates in DHW mode





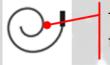
4. Accessories included with Unit







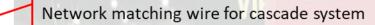
Y-shape water filter



Thermistor for DHW tank or zone2 water flow or balance tank



Drain collector



# 5. Specifications

# NXHM 004-016 – Performance data

		004	006	008	010	012	014	016	012T	014T	016T
PERFORMANCE DATA IN	HEATIN	G									
Performance in heating (A	A7°C DE	s; W35°C)									
Nominal heating capacity	kW	4.20	6.35	8.40	10.00	12.10	14.50	15.90	12.10	14.50	15.90
Total input power	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53
COP		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Performance in heating (A7°C DB; W45°C)											
Heating capacity	kW	4.30	6.30	8.10	10.00	12.30	14.10	16.00	12.30	14.10	16.00
COP		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
Performance in heating (	A7°C DE	s; W55°)									
Heating capacity	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00	11.90	13.80	16.00
COP		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85
Energy efficiency class		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
PERFORMANCE DATA IN	COOLIN	IG									
Performance in cooling (A	435°C; V	V18°C)									
Cooling capacity	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90	12.00	13.50	14.90
EER		5.50	4.80	5.05	4.55	3.95	3.60	3.40	3.95	3.60	3.40
Performance in cooling (A	435°C; V	V7°C)									
Cooling capacity	kW	4.70	7.00	7.45	8.20	11.50	12.40	14.00	11.50	12.40	14.00
EER		3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50
SOUND DATA											
Sound pressure	dB(A)	45	48	49	51	53	54	58	54	54	58
Sound power	dB(A)	55	58	59	60	65	65	68	65	65	68

# 6. Availability

From late March early April 2022

## **7. POS**

Hard and PDF Copy Brochure available in late March early April 2022







# 8. Sales Information

For further information please contact your local Sales Engineer.

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