



Internal Water Cooled

Alternative Air
Conditioning Solutions

Specifically designed for high-rise
blocks of flats and apartments.



Revolutionising Climate Control for Modern Developments

Why Settle for Less?

Transform Your Projects with Cutting-Edge Heat Pump Air Conditioning.

Property developers, architects, and mechanical consultants, take your next project to the next level with our **Water-Cooled Fully Internal Heat Pump Air Conditioning** solution.

Designed with contemporary living in mind, our system combines sleek design, unparalleled efficiency, and seamless integration to meet the demands of urban homes.

“Let’s Build Smarter Living Spaces Together.”

Key Benefits for Your Developments

- Perfect for Limited or No External Space
- Compact and Convenient Installation
- Whisper-Quiet Operation
- A++ Energy Efficiency
- Flexible Indoor Unit Options
- Simple Integration into Communal Systems

Discover how our innovative air conditioning solutions can redefine comfort and efficiency in your developments.

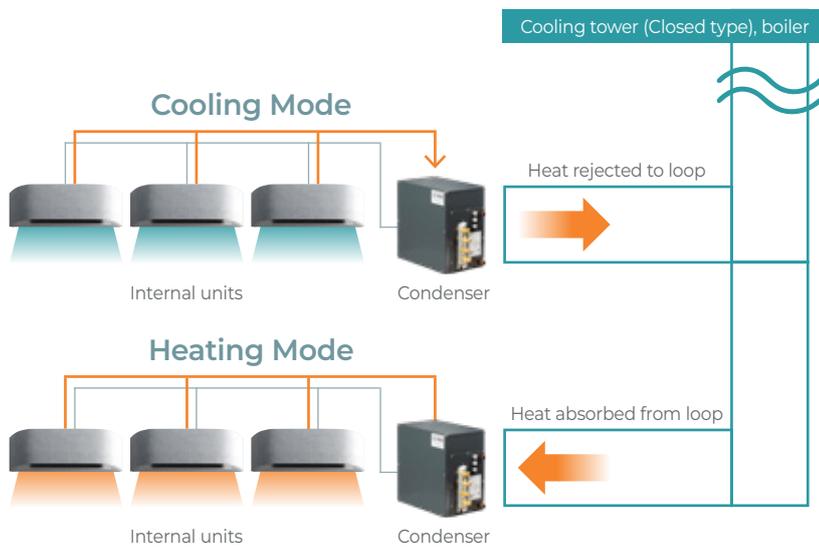
Why Choose Us?

Our water-cooled heat pump systems are purpose-built to meet the challenges of urban developments, ensuring your projects stand out in a competitive market. Deliver unparalleled comfort, efficiency, and modern functionality – while enhancing your building’s value and appeal.



How an Internal Water-Cooled Air Conditioning System Works

Our internal water-cooled air conditioning system offers a dedicated, efficient, and discreet climate control solution for each flat or apartment, operating much like a conventional multi-split heat pump air conditioning system but with key innovations that make it ideal for modern developments.



Water-Cooled Innovation

Unlike traditional systems that rely on external air-cooled condenser units, our fully internal system is water-cooled. This eliminates the need for bulky and unsightly external condenser units, preserving the building's aesthetics while maintaining a quiet and efficient operation.

Integration with Communal Systems

The system connects seamlessly to the landlord's communal constant temperature closed-loop water system, which serves the entire building. This closed-loop design ensures efficient heat exchange without requiring additional external infrastructure.

How It Works in Cooling Mode

1. Absorbing heat from internal rooms
2. Discharging heat into water loop

How It Works in Heating Mode

1. Absorbing heat from water loop
2. Discharging heat into internal rooms

Advantages of the System

- Fully Internal Design
- Efficient Heat Exchange
- Quiet and Aesthetic
- Environmentally Friendly
- The water-cooled approach reduces reliance on external air conditioning infrastructure, aligning with sustainable building practices.

This advanced system combines the best of modern heat pump technology with a sleek, fully internal design, offering unparalleled performance and convenience for urban developments.



Design Options

Internal Unit Options

Urban Classic Wall Unit



We can spray these units any RAL colour to match your internal décor.



Urban Designer Wall Unit



Ducted Unit



Condenser Dimensions

SMALLEST CONDENSER:

- 500mm x 285mm x 495mm
- 39kg

LARGEST CONDENSER:

- 630mm x 325mm x 790mm
- 67kg

Performance



Water Cooled

Condenser Box

Technical Specification



UBC1P_35M

UBC2P_50M

UBC4P_68M

COMPRESSOR BOX

Model	UBC1P_35M	UBC2P_50M	UBC4P_68M
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ELECTRICAL SPEC

	UBC1P_35M	UBC2P_50M	UBC4P_68M
Rated Voltage	230V 50Hz	230V 50Hz	230V 50Hz
Running Current	5.0A	5.5A	8.4A
Input Power (max)	1.16kW	1.69kW	2.47kW
Recommended Fuse	13A	13A	16A

MECHANICAL

	UBC1P_35M	UBC2P_50M	UBC4P_68M
Refrigerant	R32	R32	R32
Refrigerant Charge	0.75kg	0.9kg	2.0kg
GWP / CO2/eq	675 / 1.42t	675 / 1.42t	675 / 1.42t
Additional Gas Amount (over 15m)	10g/m	10g/m	10g/m
Maximum Pressure - High Side	4.15mpa	4.15mpa	4.15mpa
Maximum Pressure - Low Side	2.05mpa	2.05mpa	2.05mpa
Cooling Capacity	3.5kW	5kW	6.8kW
Heating Capacity	N/A	N/A	N/A
Protection	HP Switch & Temperature Sensor		

PHYSICAL

	UBC1P_35M	UBC2P_50M	UBC4P_68M
Dimensions W/D/H (mm)	500x285x495	500x285x495	630x325x790
Weight	39kg	39kg	67kg
Pipe Connections (refrigerant side)	1 x 1/4 & 1 x 3/8	1 x 1/4 & 1 x 3/8	4 x 1/4 & 4 x 3/8
Pipe Connections (water side)	22mm	22mm	22mm
Heat Exchanger	BPHE	BPHE	BPHE
Sound Pressure	39dB(A)	39dB(A)	44dB(A)
IP Rating	IPX4	IPX4	IPX4
Conformity	UKCA	UKCA	UKCA



Specifications are subject to change over time due to ongoing product improvements and technological advancements, and may differ slightly from the printed information.

Sustainability

Our discreet, energy-saving air conditioning technology achieves an A++ efficiency rating, contributing to an overall healthy and performance-driven building for people and the planet.



Interested in finding out more?

If you have any questions about our internal air conditioning solutions or would like to discuss them further with one of our air conditioning experts, please contact us and we'll be happy to help. Simply choose one of the options below to contact us.

Contact our Solutions
Manager to find out more:

Call:
01634 563299

Email:
info@urbancoolingsolutions.com

