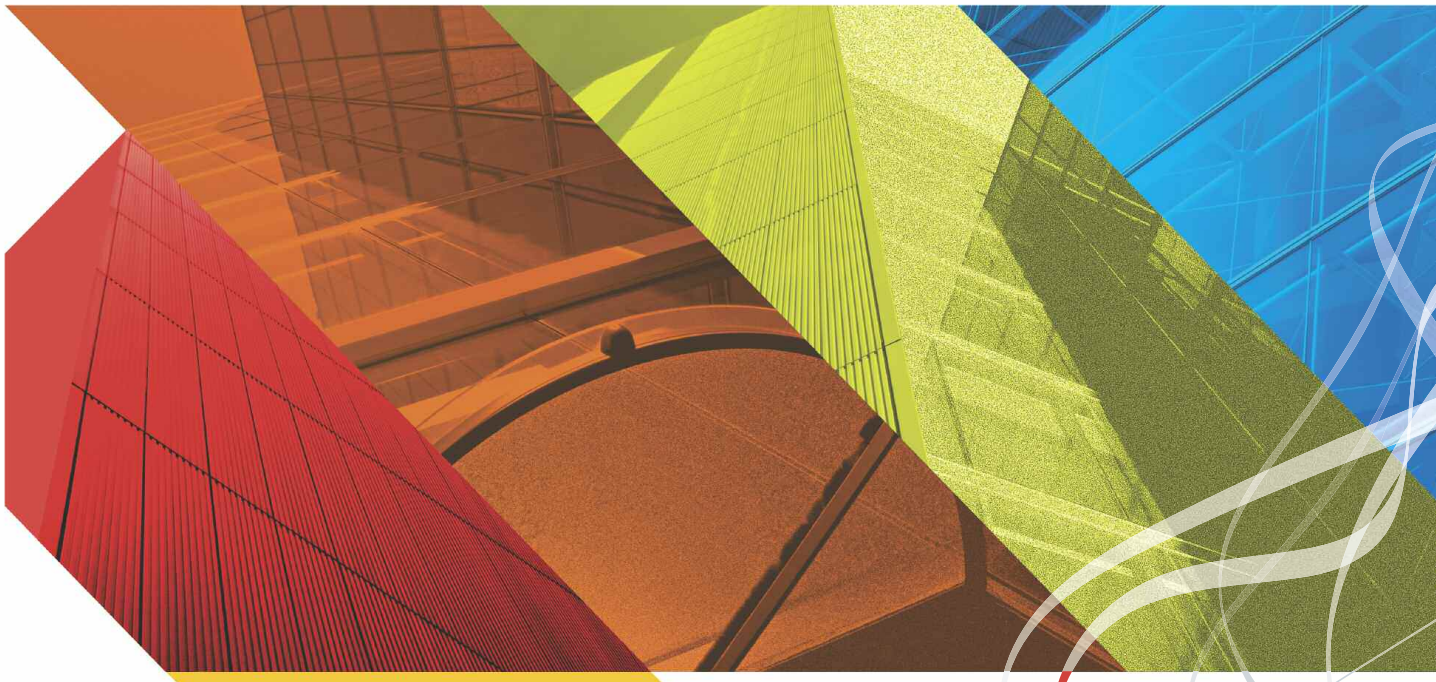
The Renewable Solutions Provider

Making a World of Difference

City Multi VRF

Air Conditioning Systems



CITY MULTI

Airtech

Air Conditioning & Building Services

MITSUBISHI ELECTRIC

Cooling | Heating | Ventilation | Controls

Our answer to large scale VRF - **City Multi Air Conditioning**

CITY MULTI

First developed 30 years ago, City Multi is the market leader in VRF technology. Specifically designed to deliver comfort and control for today's building requirements, it addresses all the key market issues.

VRF (Variable Refrigerant Flow) is a direct expansion type air conditioning system where one outdoor unit is connected with multiple indoor units, intelligently modulating the flow of refrigerant or water depending upon the capacity requirements of each zone within the building. Its ultimate purpose is to regulate the internal room air temperature and comfort levels in the most effective and efficient manner possible.

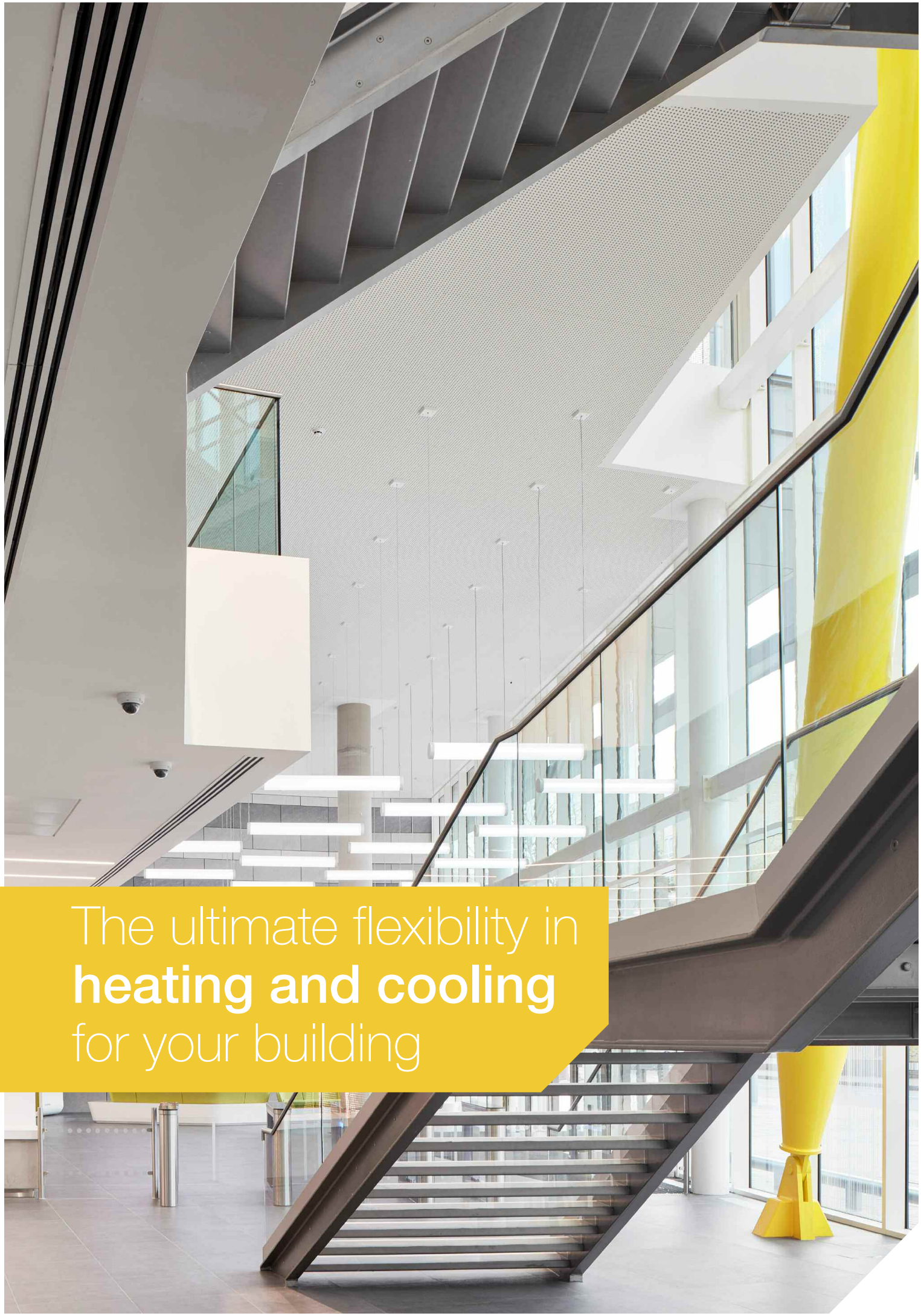
Today's commercial buildings are increasingly air tight and filled with heat generating office equipment and lighting, which presents a challenge for anyone trying to maintain a stable and comfortable internal environment. Buildings account for around half of all UK greenhouse emissions, so legislation is demanding higher standards of air quality and increased energy efficiency.

The ideal solution

City Multi has constantly evolved and is packed with innovation that makes it eminently suitable for almost any building.

Designed from day one to work effectively in real applications in the UK market, City Multi delivers the best possible performance, combined with total flexibility of design and operation.

Available in heat recovery and heat pump variants, with up to 50 indoor units connectable to the largest model, **City Multi provides the ultimate solution in comfort and efficiency**.



The ultimate flexibility in **heating and cooling** for your building

The drivers affecting **building performance**

Energy Efficiency

The demand for improved energy efficiency within commercial properties is increasing, driven by tough legislation and robust Government targets for the reduction of the UK's carbon emissions. The benefit to individuals and businesses is that reducing energy use will also reduce running costs and lower their impact on the environment.

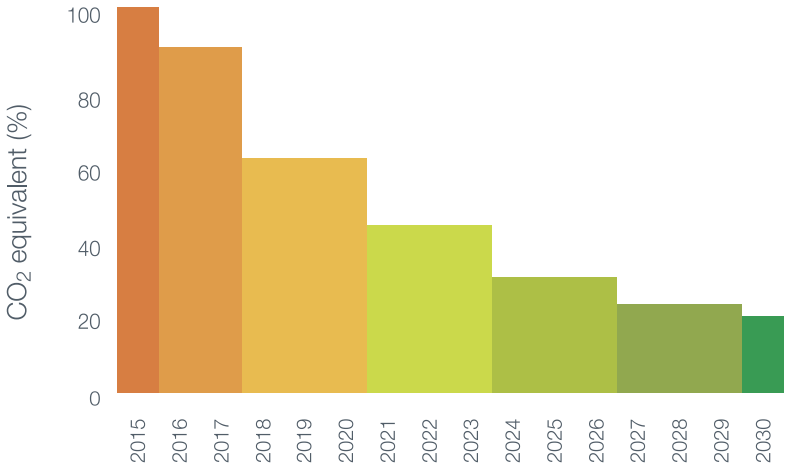
- **Part L** of the Government Building Regulations addresses the conservation of fuel and power in a building. It outlines how building services such as air conditioning can help comply with carbon reduction targets.
- **BREEAM** (Building Research Establishment Environmental Assessment Method) is a sustainability assessment for buildings encompassing the wider impact of all elements. Air conditioning forms part of this through efficiency, comfort and sustainability.
- **MEES** (Minimum Energy Efficiency Standard) comes into force from April 2018, making it unlawful to let or lease a building which has an EPC (Energy Performance Certificate) rating of F or G, with an ultimate goal of raising to a C by 2030.
- **ECA** (Enhanced Capital Allowance) can shorten payback time for energy efficient technologies through tax incentives.

Refrigerant legislations and installation standards

There are also tough refrigerant legislations and installation standards governing the application of refrigerant containing products in to buildings.

- **BS EN378** is a refrigeration design and installation standard concerning minimising the impact of such refrigerants on safety and the environment.
- **F-Gas** is set as a European response to minimise global warming. By setting stringent targets to reduce leakage, it will force the industry to reduce the amount and GWP (Global Warming Potential) of refrigerants used in buildings.

F-Gas - HFC phase down programme*



It is the requirement of manufacturers to reduce the CO_2 equivalent with options of:

- **Decreased kW on the market**
- **Reduce amount of refrigerant**
- **Lower the GWP of refrigerant**

* F-Gas 2015 phase down programme: http://ec.europa.eu/clima/policies/f-gas/legislation/index_en.htm

Customers therefore need a manufacturer that is ahead of the curve and developing products that **meet both current and future legislation**

The innovative market-leading **City Multi VRF range**

Constant development and innovation mean that City Multi VRF systems can be applied into any building through heat recovery and heat pump systems.

Heat Recovery

Provides simultaneous heating and cooling with the benefit of heat recovery. By moving energy where it's needed, input is reduced by up to 30%. Offering flexibility, operability, comfort and control, **the system is ideal for hotels, offices and leisure**.

Heat Pump

One outdoor unit provides all indoor units heating or cooling at a given time.

This is ideal for open plan offices, call centres or retail.

The Options

Air conditioning systems need to extract or reject energy to enable the heating and cooling process to operate. Regardless of source, using either **air, water or the ground** as a medium to transfer this energy, our wide range of products are designed to maximise efficiency.

		Capacity (kW)	Ambient Operating Range	Heat Recovery	Heat Pump
Air Source	Side blow small capacity	12-22	-20 to 46ºC		●
	Medium to large capacity	22-150	-20 to 52ºC	●	●
	Specific R22/R407c Replace	22-101	-20 to 46ºC	●	●
	Combination of refrigerant and water	22-56	-20 to 52ºC	●	
Water / Ground Source	Applicable to water and ground source	22-101	-5 to 45ºC	●	●
	Combination of refrigerant and water	22-56	-5 to 45ºC	●	

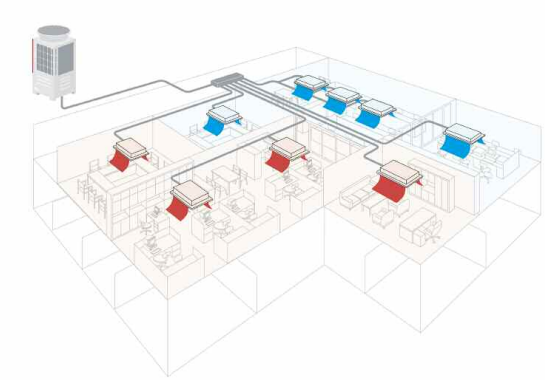
Range Benefits

Extensive range of indoor units

Over **80** indoor units of varying capacity including ducted, ceiling cassettes, floor standing, wall mounted, ceiling suspended, hot water generation and air curtains; up to **50** indoor units can be connected to one system.

Complete flexibility in **design and installation**

The technology of City Multi VRF is second to none and offers excellent seasonal energy efficiency, low running costs and reduced CO_2 emissions.



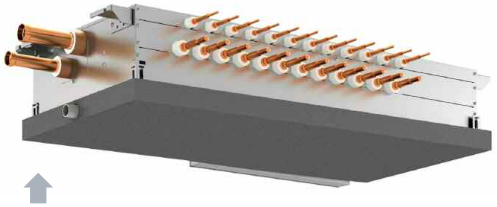
World-first and only 2-pipe VRF heat recovery system

Heat recovery air conditioning systems can significantly reduce a building's heating and cooling costs. Reducing running costs and delivering a high quality environment for occupants, it is no wonder that this system now accounts for three quarters of the total VRF market.

Using **Mitsubishi Electric's unique Branch Controller** (BC), the City Multi heat recovery system only requires two pipes throughout the entire VRF system to deliver simultaneous heating and cooling with heat recovery rather than the conventional three which are traditionally used on heat recovery systems, typically reducing installation time and material costs.

Outstanding technological benefits:

- Reduced piping, space requirements and reduced connections - **saving cost and time**
- Less potential leakage points - **key for F-Gas checks**
- Optional isolation valves on each port
- Hybrid VRF - water between the Hybrid BC and indoor units



Master Branch Controller

Additional heat recovery

Provides hot water, heat to air curtains and inter locks with Mitsubishi Electric's Lossnay Mechanical Heat Recovery Ventilation (MHRV)

Flexible piping configuration

Providing an effortless design and transfer of internal layout changes (for example Cat A to Cat B)

Modular system

Compact and decentralised modules allow simple phased installations

Low start currents

All our outdoor units are fully inverter driven resulting in 8 amp starting current for all models

Simple to design

VRF offers simple design with everything inbuilt for operation and smart control

Flexible installation location

High static pressure fans, low noise modes and small footprint make locating the outdoor units easy

High seasonal efficiency

City Multi VRF offers the highest seasonal efficiencies available in the market, enabling simple compliance with tough legislation, minimising energy costs and CO_2 emissions

Maximum room
comfort and control

Today's modern buildings demand high levels of comfort and this is where City Multi VRF can make a difference with systems that are proven to help boost levels of individual comfort, in turn increasing productivity and wellbeing. Capacity delivery is dynamically optimised to ensure minimal energy consumption with maximum room comfort.

Advanced VRF control features include:

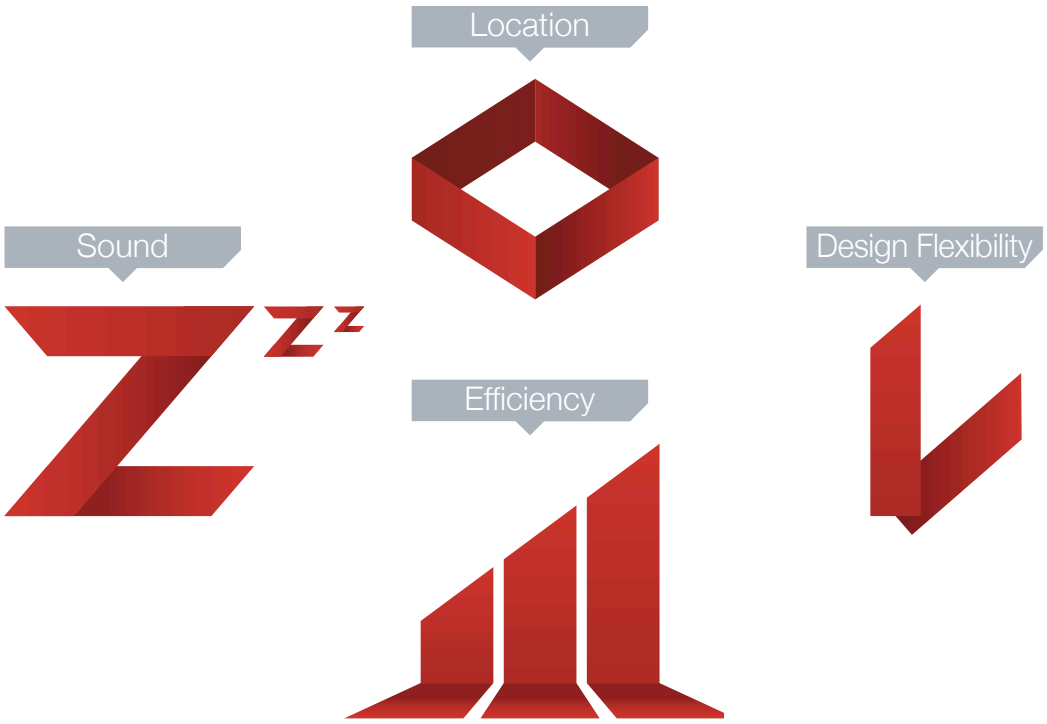
- **Fully integrated control solutions**
  Market leading solutions that are simple to connect to various control platforms including 24/7 access monitoring and reporting
- **User friendly control interface**
  From simple touch screen controllers to centralised BEMS systems, offering ultimate versatility
- **Multiple heating and cooling comfort solutions**
  Effect the rate of change and air off temperatures using selectable evaporation temperatures and defrost methods. Hybrid VRF offers another level of comfort by using water as the delivery medium

nEXT

GENERATION **VRF**

City Multi YNW
The next generation VRF

Air source VRF is the most popular and widely used air conditioning system in commercial buildings. City Multi YNW as the market leading product has been designed to address some of the most fundamental challenges facing building designers today:



Anyone involved in specifying, installing or operating building services is looking for air conditioning systems that meet the specific needs of individual projects whilst meeting energy efficiency legislation. At the same time, our towns and cities are becoming denser as we look to maximise the use of space in our built environments. **This is resulting in more multi-use buildings with office, retail and leisure spaces in close proximity to both residential and hotel accommodation**.

City Multi YNW has answered that need

These new models available in capacities from **22 to 150kW** offer some of the highest levels of efficiency coupled with smaller footprints, reduced noise levels and increased design options.

Location

Reduced footprint achieved by a unique, new 4-sided heat exchanger

The new City Multi YNW system maximises the space available for plant by reducing the area required for outdoor units.

Up to 51kW of cooling capacity can be delivered per square metre of plant thanks to the advanced wrap around heat exchanger.

This is 28% more than previous models.

Greater flexibility for location of outdoor units is possible thanks to multiple external static pressure settings. Extending up to 80Pa will help with long or narrow ducting requirements.

S L XL

S - **(E)P200-300, 22-34kW** L - **(E)P350-450, 40-50kW**

XL - **(E)P500-550, 56-63kW**

Sound

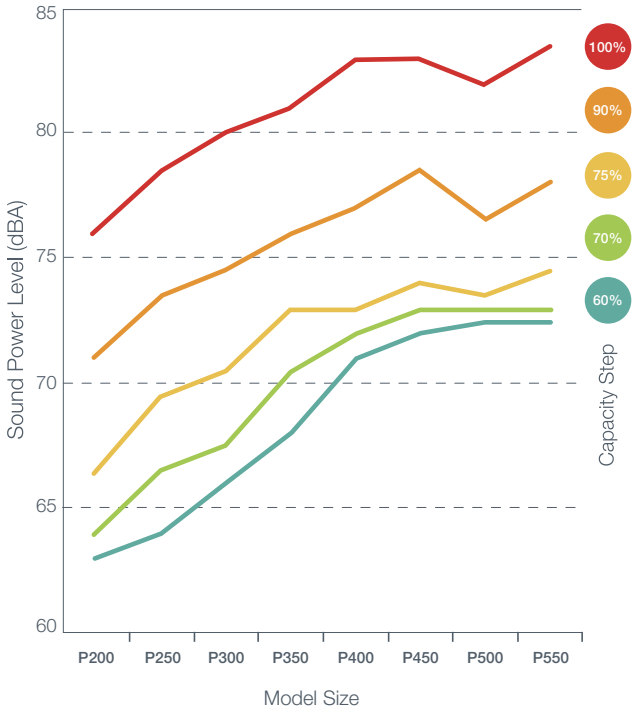
Ultra-quiet noise levels

Potential noise issues with the outdoor plant are reduced with City Multi YNW, thanks to an improved compressor and fan design, reducing sound power levels.

Offering complete flexibility to cope with different noise criteria for multiple applications, City Multi YNW has incremental capacity steps to vary noise output.

YNW Sound power levels

Cooling (PURY-P)



Night time operation

Demand is generally lower, noise sensitivity is increased, select step to meet needs

Acoustic enclosures

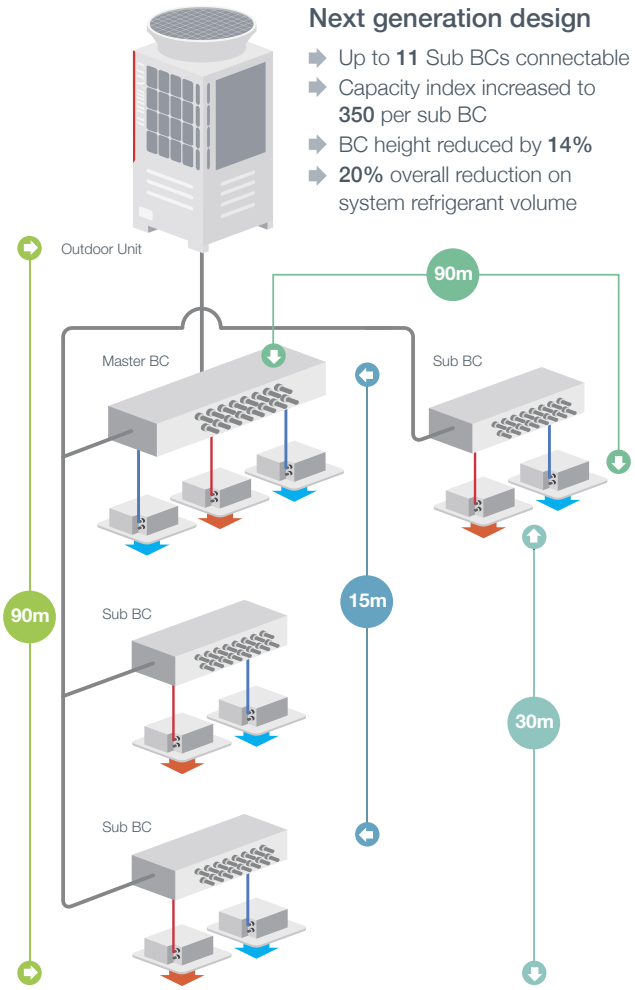
Costs can be saved by reducing the amount of attenuation required

Design Flexibility

Reducing installation and maintenance time

The unique two-pipe design allows for phased installation, meaning that the cooling and heating system can be installed around a project build, with individual sections commissioned as required.

Up to 50 indoor units are connectable to the largest model and a complete new range of Branch Controller (BC) boxes are now available with a reduction in height, a removable drain pan and a reduced refrigerant charge. A completely new piping layout for the BC boxes can help to reduce installation time and make maintenance regimes easier.



Next generation design

- Up to **11** Sub BCs connectable
- Capacity index increased to **350** per sub BC
- BC height reduced by **14%**
- **20%** overall reduction on system refrigerant volume

Efficiency

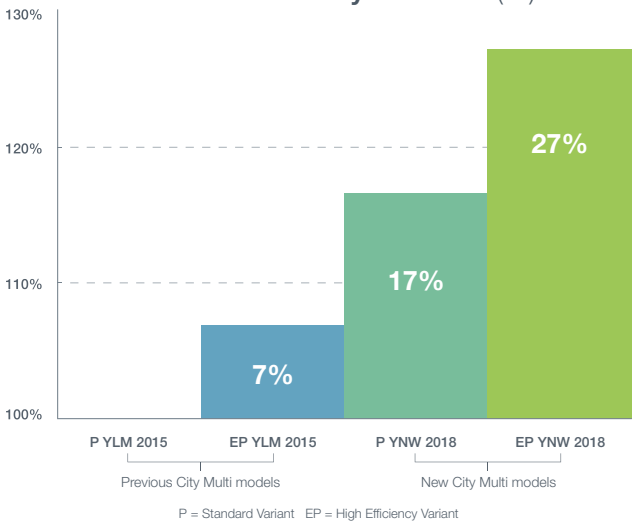
Highest ever levels of efficiency

City Multi YNW provides our lowest installation costs, running costs and CO_2 emissions of a VRF system. This is achieved through the new 4-sided heat exchanger, compressor and fan design, improving both nominal and seasonal efficiency levels.

The new models retain the unique flat tube aluminium micro-channel heat exchanger which is a pivotal step change in providing more effective and efficient heat transfer. These efficiency improvements mean that more VRF system combinations qualify for the Enhanced Capital Allowance (ECA) Scheme, allowing companies to offset the capital cost against their annual tax bill.

The most popular 34kW model benefits from a 28% increase in seasonal efficiency, making compliance with energy legislation easier to achieve.

Seasonal efficiency increase (%)



City Multi YNW

is designed to help meet the tough challenges set by planners and designers looking for heating and cooling solutions in all comfort applications.

For more information visit:

nextgenerationvrf.co.uk

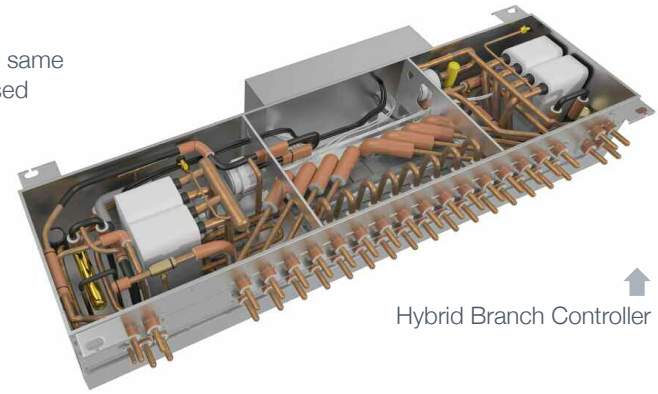
City Multi
Hybrid VRF

Hybrid VRF is a two pipe heat recovery VRF with water between the Hybrid Branch Controller (HBC) and indoor units. You can install and design it as VRF whilst enjoying the features of a Chiller system.

Providing a complete modern solution for office buildings, hotels, medical centres, schools, high rise buildings, shopping centres and other commercial premises.

Hybrid VRF is quick, easy & flexible to design and install using the same control and network as VRF systems. Furthermore the decentralised system means phased installation is possible with the same high levels of seasonal efficiency expected with VRF.

With water at the indoor units, Hybrid VRF provides comfortable and stable air temperature control with no refrigerant in occupied spaces, meaning simple compliance to BS EN378 and removing the need for leak detection.



Hybrid Branch Controller

Hybrid VRF System Example:

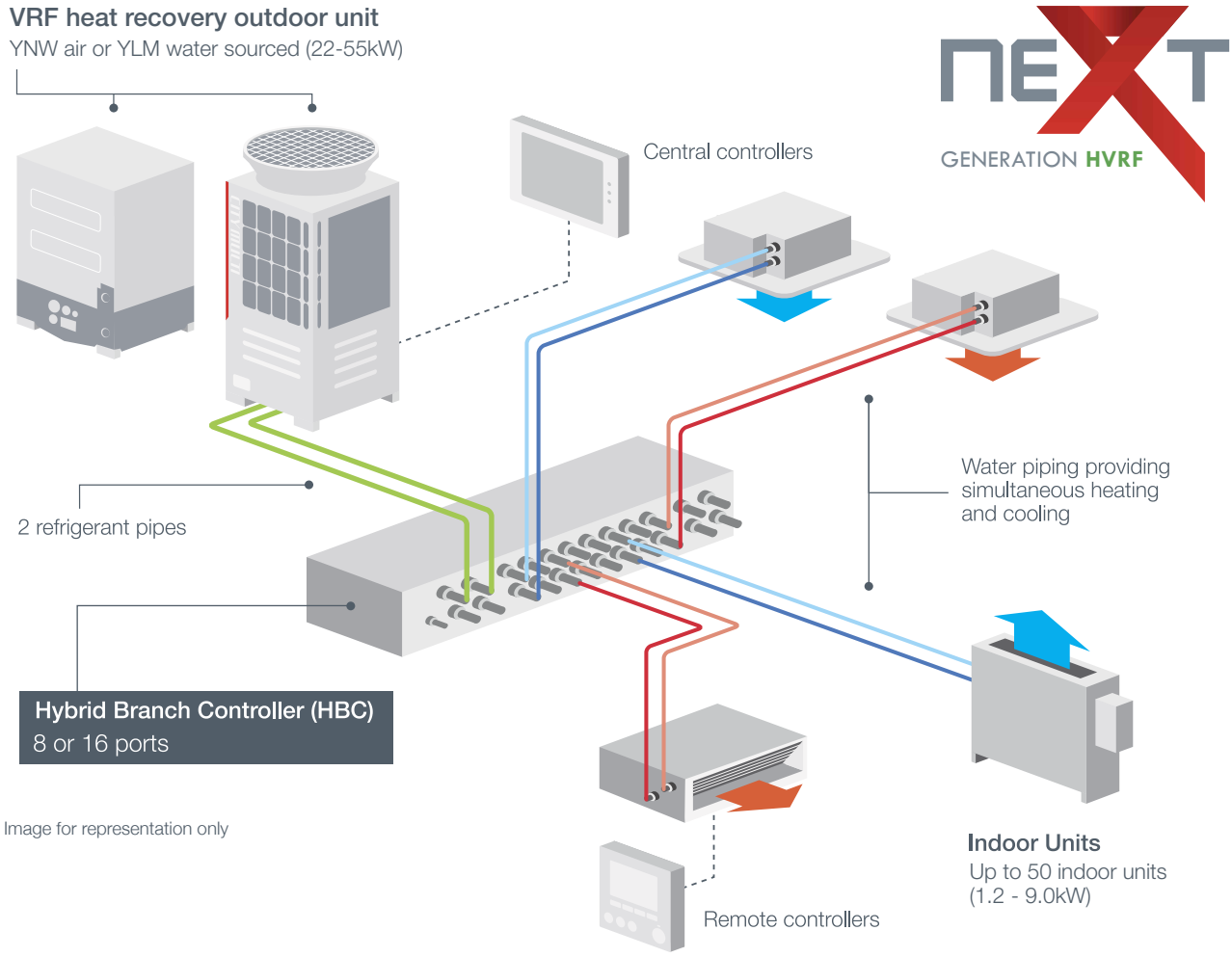


Image for representation only

Outstanding Benefits

Meeting future requirements

Reduced refrigerant volume enabling compliance with F-Gas targets

High levels of comfort

Stable rate of change and high air off temperatures

Ideal for modern hotels

1kW slimline, quiet ducted indoor unit

Cat A to Cat B is simple

Ideal for office fit outs due to HBC water design

Fully packaged solution

Valves, pumps and heat exchangers included, commissioning is simple, all the same great controllers and network as VRF

No refrigerant in occupied spaces

Ideal for hotel bedrooms where leak detection may traditionally be required

Manageable phased installation

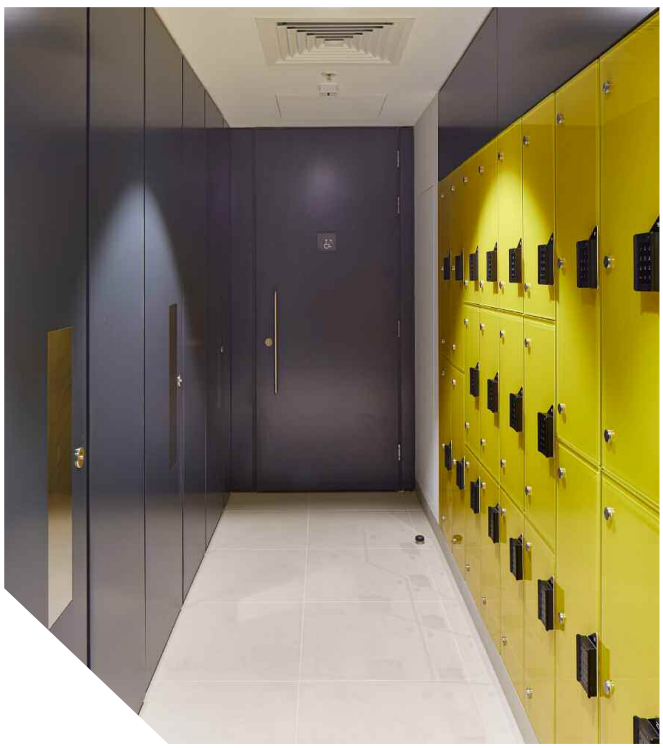
Modular smaller footprint and low weight outdoor units

Simplified 2-pipe design and installation

Up to **50 indoor units** using two pipes of plastic or copper throughout the system

COMING 2018

R32 Hybrid VRF - First R32 VRF Solution

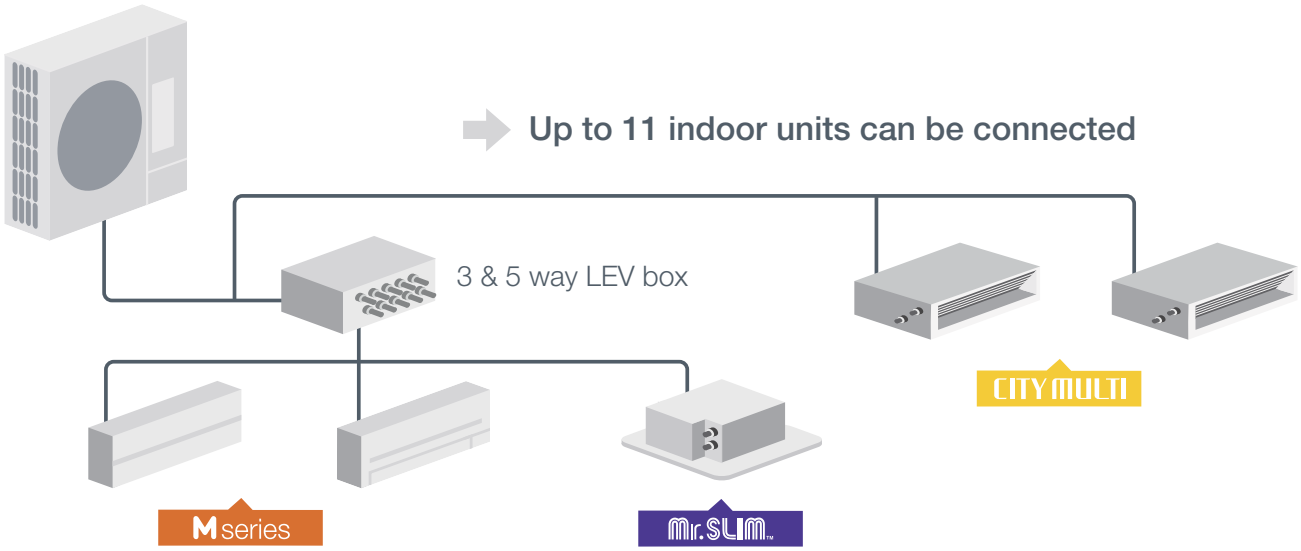


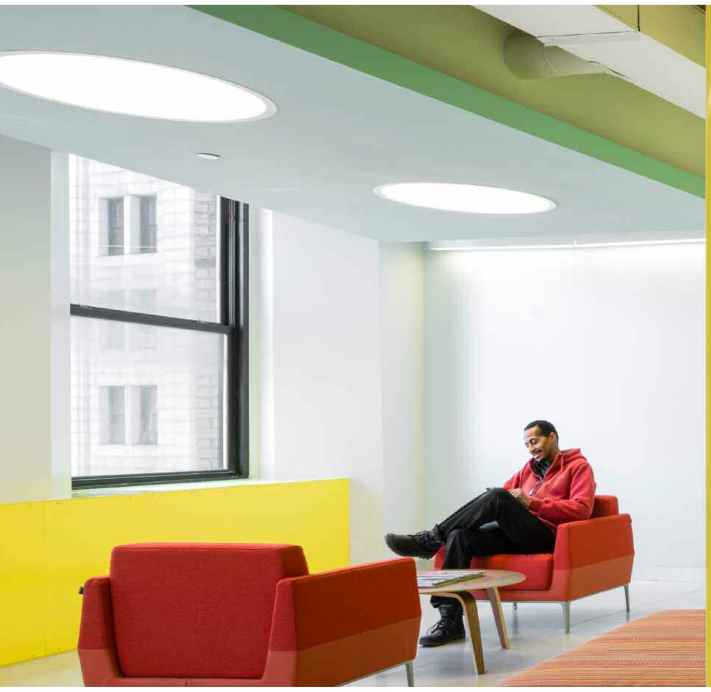
VRF technology
in small capacity

Utilising all the benefits of VRF technology, the low capacity Mini VRF PUMY models (12.5-22kW) have been designed with a focus on seasonal efficiency making them ideal for discreet application environments.

City Multi PUMY units are designed to tackle the challenges of our modern urban environment, offering low noise levels and a range that enables outdoor units to be discretely installed out of the line of sight. PUMY units will heat or cool a wide variety of applications such as hotels, offices, retail outlets and mixed-use buildings incorporating high-end residential. These units provide additional flexibility when used as a Multi-Split with stylish M Series indoor units.

Typical Multi-Split layout





Depending on your application there are **two solutions** available:

Single Fan

Small footprint and height make this ideal for discreet location

Standard 30Pa static fan allows outdoor units to be housed without affecting performance

Cost effective and low refrigerant charge

Twin Fan

High efficiency with longer pipe runs up to 300m total

Optional 30Pa static fan

Low noise with best heating capacity available

22kW from low impact chassis

City Multi
Water Cooled VRF

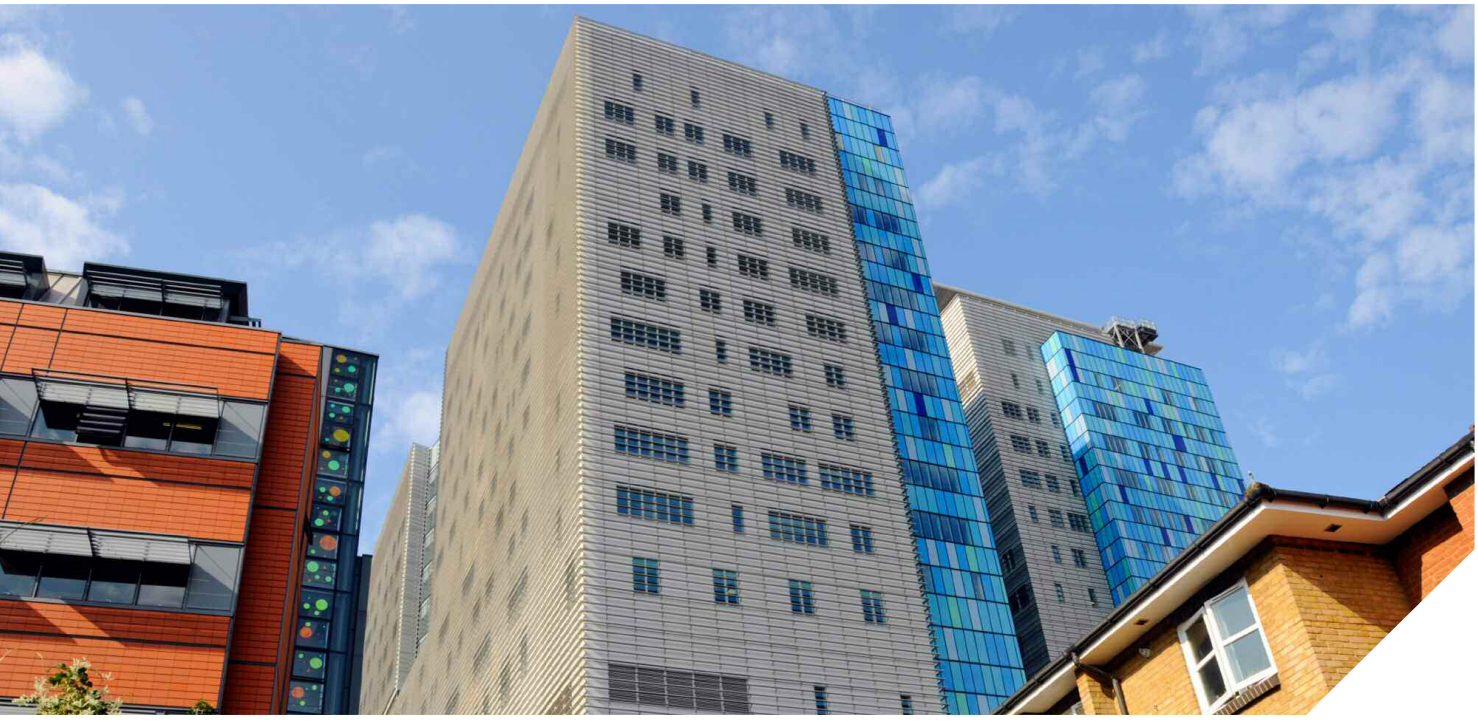
Ideal where outdoor space is limited, building heat recovery and efficiency is demanded and a water loop is available, City Multi water cooled models provide the ultimate solution.

First developed 15 years ago, the City Multi water cooled system utilises water instead of air as an energy transfer medium, but benefits from all the same technology and flexibility of an air sourced VRF. **Available in heat pump (22-101kW) and heat recovery (22-101kW) units.**

P200-300 (22-34kW)

P350-600 (40-69kW)

Same footprint **Double capacity**



A **sustainable and flexible solution** for tall buildings:

1. Apply and network the energy through a water loop, within the building and between buildings - optimising efficiency

2. Utilise geothermal, rivers or lakes, landlord loops, waste heat from server cooling or other processes

3. Unit located indoors on each floor, ensuring design flexibility with pipework. Compact and quiet unit minimising outdoor plant space and maximising occupied space

4. City Multi water cooled models offer double heat recovery through refrigerant and water, no defrost and a refrigerant cooled inverter with no heat rejection to the internal space

City Multi

Indoor Units

Over **80** indoor units ranging in capacity from 1.2-28kW offer ultimate flexibility to meet the needs of diverse applications.

- Ducted
- Cassette
- Floor
- Wall
- Ceiling
- Ancillary

Up to

50

Indoor units can be connected to one City Multi outdoor unit

Ultra Thin Ceiling Concealed

Ceiling Concealed Ducted

High Static Pressure Ceiling Concealed

4-Way Blow Ceiling Cassette

600x600 4-Way Blow Ceiling Cassette

Floor Standing Concealed

Floor Standing Exposed

Floor Standing Exposed

Wall Mounted

Ceiling Suspended

Lossnay Outdoor Air Processing Unit

VRF Sanitary Water Heater

Heat Pump Air Curtain

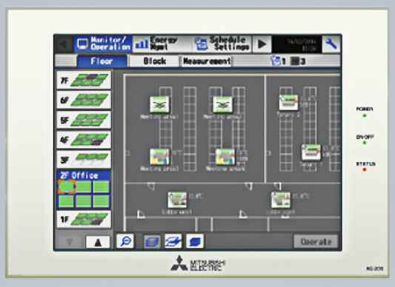
Mitsubishi Electric
Control Solutions

We offer a versatile range of control products to complement VRF Systems

The need for control is paramount in order to optimise the performance of any air conditioning, heating or ventilation system and minimise its running costs and the emissions generated. Mitsubishi Electric offer a wide range of control options designed to do just this.

Monitoring and reporting capabilities are also increasingly requested by customers with major energy needs as required by legislation and building regulations.

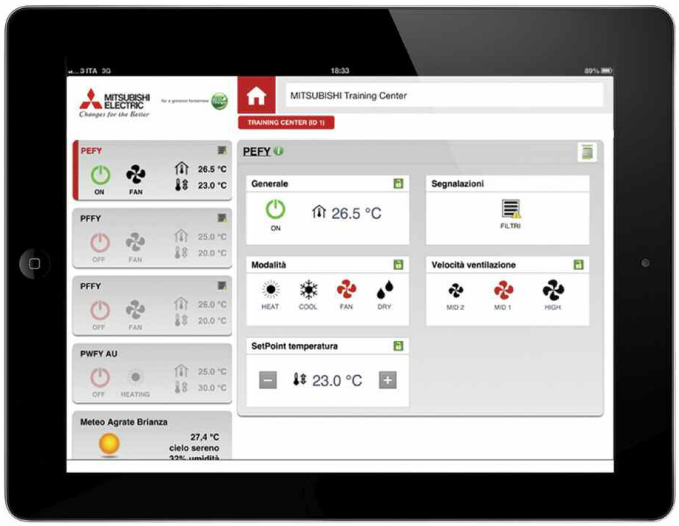
Variables such as user habits, energy consumption patterns and temperature can now be used to inform system management and control.



AE200 Centralised controller

Touchscreen remote controller with occupancy sensor, ideal for meeting rooms

Simple touchscreen remote controller ideal for hotels



Remote Monitoring Interface (RMI)
Remote control and monitoring

Remote Controllers

Backlight / Simplified / 0.5°C set point adjustment / Dual set point / Touch screen
M-Net controller / Built in occupancy sensor / Built-in brightness sensor

Centralised Controllers

Touch screen / Up to 50 indoors / Dedicated hotel interface / Night set back
Web server / Energy monitoring / Trend logging

Remote Monitoring

Web portal / Smartphone and tablet app / GPRS / 3G / 4G or Wi-Fi / Energy monitoring

Interfaces

Simple on/off / Simple run/faults / 0 to 10VDC / Fan speed control
Fire alarm / Pulse meters / Sensors

BEMS Interfaces

Modbus / BACnet / LonWorks / Trend / Low cost solutions

Refrigerant detection and pump down systems

BS EN378 compliant / BREEAM Pol01 assistance / Wide range of solutions

Service
and support

At Mitsubishi Electric, we have examined how we support the market throughout the complete lifecycle of our products - literally from cradle to grave. Whether in pre-sales design and specification, installation and maintenance support, right through to our recycling programme, we can offer innovative solutions that deliver the quality and excellence you would expect to help make a world of difference.

Technical Services

To keep our products working at their optimum, we have developed an approach to ensure our customers are able to maximise the energy efficiency of their building's services right from the start.

We offer a range of support that includes:

- Site services
- Spare parts, warranty and returns
- 24/7/365 Technical Help Desk
- CPD accredited product training at hosted various venues across the UK

Partner Programme

Established since 2005 and designed to raise industry standards, our Partner Programme assures end users of a consistently high level of installation and after sales service that supports our systems. Our installation partners comply with the necessary building regulations and meet specific industry, programme and CSR standards. They are also reviewed on a regular basis to ensure they continue to meet the required standards that makes them eligible to be part of the Mitsubishi Electric Partner Programme.

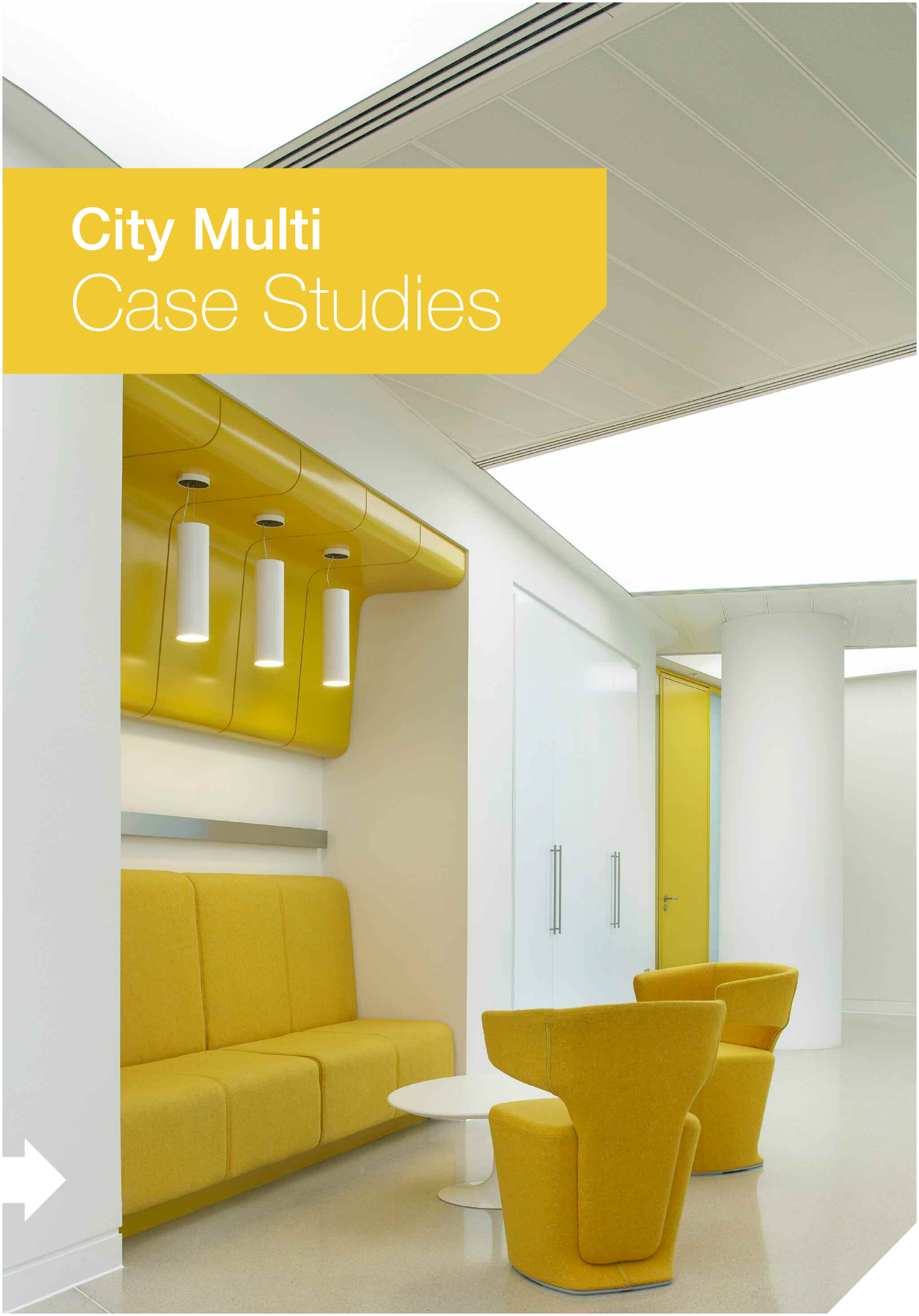
MELFinance Solutions

We developed MELFinance Solutions to respond to current market conditions and the need for customers to manage cash flow, while benefitting from the installation of leading technology to reduce carbon emissions and operational costs.

MELFinance Solutions can help customers fund the cost of new equipment and its installation via hire-purchase finance. Put simply, this means that (subject to financial status), a customer can repay the combination of 'fixed asset' and maintenance costs over an agreed period of between 1 to 5 years. MELFinance Solutions offers a flexible alternative to a traditional bank loan that provides significant cash flow and tax benefits.

For further information please go to **MELFinanceSolutions.co.uk**

City Multi
Case Studies



All hands on deck for refurbishment of The Ship

When the owners of one of Plymouth's most iconic building were looking to refurbish and upgrade the derelict office within weeks instead of months, they needed a flexible air conditioning system that would still deliver the energy savings needed.

The Ship has been restored to its former glory, and renamed Spirit of Enterprise with hundreds of jobs being created by the businesses that will take up residence.

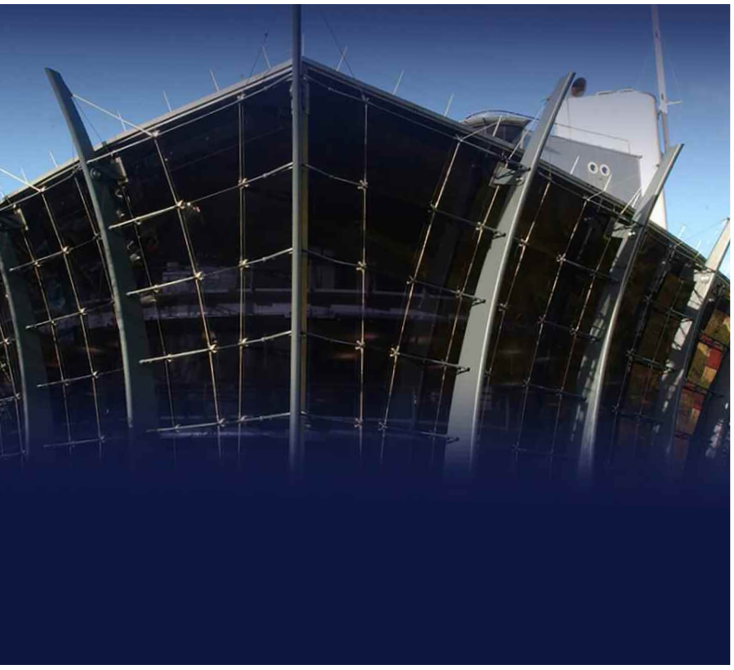
The Requirements

The existing HVAC system was just inadequate and the whole system needed upgrading, and with new tenants keen to move there was limited time in which to make the drastic changes that were required. Reducing the building's energy consumption was also of paramount importance to the owners, who are renowned for their sympathetic development of historic sites in the region.

The Solution

For the first phase of this impressive project, 12 City Multi VRF outdoor condensing units and four Mr Slim split air conditioning systems were installed to serve 89 individual ceiling units. City Multi was chosen as it could be installed in a modular fashion providing the flexibility needed to work around the other elements of the refurbishment.

The shape of the building and also the positioning of the plant has added to the challenge with some units being fed through over 150 metre pipe runs, putting added pressure on the system. The final solution needs to provide a regular temperature, even with the architectural challenges of the building. It also demanded a system that can be easily controlled, provide the best energy efficiency and be sustainable.



New airport hotel uses Hybrid VRF air conditioning

A hotel on the doorstep of North Lincolnshire's major transport hub will open its doors this winter complete with Mitsubishi Electric's innovative Hybrid VRF air conditioning system.

The Hampton by Hilton next to Humberside Airport is under modular room construction with each floor section built in a factory and transported to the site. This progressive approach is also mirrored in the use of the award-winning Hybrid VRF solution.

The Requirements

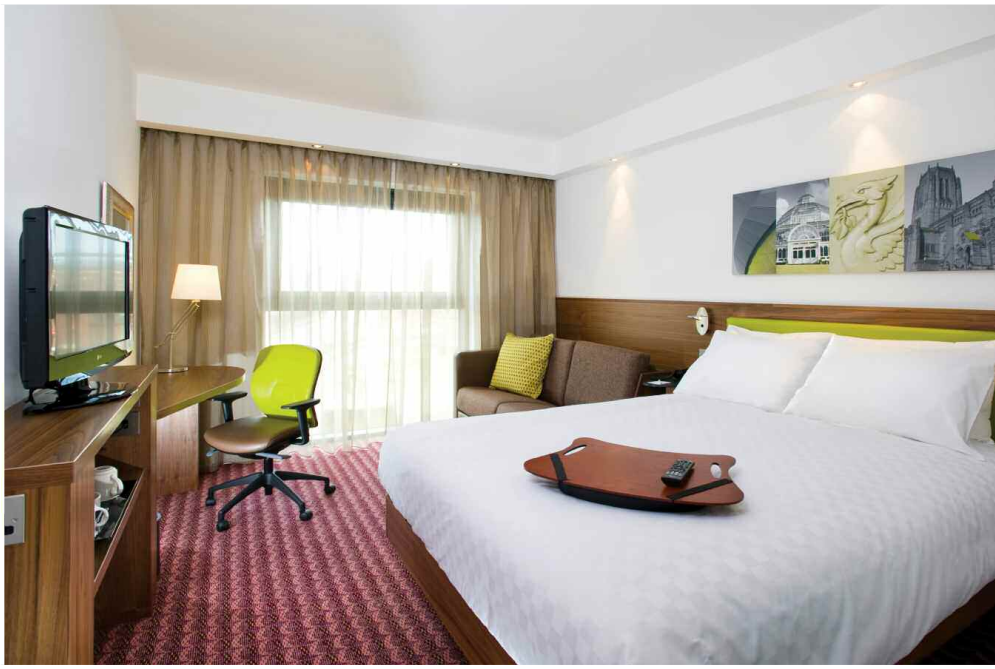
The appeal to the hospitality sector of Hybrid VRF is in its use of water, rather than refrigerant, which eliminates the need for provision of leak detection systems in compliance with British Standard EN378. From a commercial standpoint, this is a major financial incentive, as there are different levels of leak detection that could be offered, but even at the very basic level of compliance you would be looking at a £15,000-£20,000 capital outlay. That's before even considering the additional regular maintenance requirements.

The Solution

Equipment wise, the Hybrid VRF system is close to the same cost of traditional VRF, so by using this solution and avoiding leak detection, the customer reduced their overall costs.

To provide energy efficient heating and cooling to the hotel, five Hybrid VRF Heat Recovery units deliver simultaneous heating and cooling to 100 bedrooms, using water as the main heat transfer medium, rather than refrigerant. This completely removes the need and added cost of leak detection equipment in occupied spaces, whilst still providing individual comfort control for hotel guests.

As well as the elimination of the need for leak detection, the Hybrid VRF system allows for the use of plastic pipe instead of copper, making the installation easier and faster, drastically reducing the amount of brazing required.



Matalan heads for the high street to offer comfort with energy efficiency

Family retailer Matalan, famous for its out of town stores, opened its first central London high street store on the Capital's famous Oxford Street.

The retailer needed to be able to provide a comfortable shopping experience combined with an energy efficient building.

The Requirements

The Oxford Street store is one of Matalan's smallest at 16,000 sq ft compared with an average of 25,000 sq ft for its out of town locations. The fact that the site is in one of London's busiest areas provided an additional challenge with Matalan needing the latest air conditioning technology that allows the retailer to achieve a comfortable but energy efficient shopping environment.

The Solution

The store now benefits from a City Multi heat recovery air conditioning system which offers a substantial increase in seasonal energy efficiency, low running costs and reduced CO_2 emissions all of which contribute to the efficiency improvements Matalan were eager to achieve.

The major benefit of City Multi is that it provides the perfect temperatures within the store in the mostenergy efficient manner. By distributing surplus heat from cooling operations (and vice versa) to areas where it is needed it allows for simultaneous heating and cooling in different areas of the building.

This alone can result in energy savings of up to 30% over conventional systems and the addition of an advanced centralised controller ensures total efficiency due to its energy monitoring and control functions.

CITY MULTI **Leisure** Case Study

City Multi helps out underneath the arches

An artisan pizza restaurant under railway arches in central Newcastle has solved the problem of overheating with the installation of a heat recovery VRF air conditioning system.

The Herb Garden is one of Newcastle Gateshead's quirkiest fine food restaurants, specialising in fresh stone baked pizzas and rustic Italian salads and sharers. The venue is also renowned for its feature lighting and is tucked away in Arch 8 of Westgate Road.

The Requirements

Siting a pizza oven inside a metal-clad railway arch had previously caused problems with a build-up of heat in the summer and the site had limited space for any plant, alongside restrictions on internal fittings because of the metal cladding.

The owners needed a quiet, energy efficient solution that wouldn't detract from the restaurant's distinctive décor yet was able to cope all year round. The arches are listed and owned by Network Rail and there were planning restrictions on the type of solution that could be installed.

The Solution

A single City Multi outdoor unit has been installed in an empty space to the rear of the building and this can send simultaneous heating and cooling to the indoor units installed throughout the restaurant to maximise the efficiency of the whole system. A ducted fan coil mounted on the roof of a storage room was selected as it offered easy installation and better air movement for the occupants.

The ground floor restaurant also required a unique solution that could cope with the decorative lighting and herb racks. A ducted unit mounted on the top rack above the herbs provided a solution which didn't affect the décor and provided comfortable air movement.

City Multi - Outdoor Unit Range

Air Cooled

Heat Recovery - R2 Series	P	112	125	140	200	250	300	350	400
	(kW)	12	14	16	22	28	34	40	45
High Efficiency PURY-EP (YNW) NEW MODELS					S H	S H	S H	L H	L H
Standard PURY-P (YNW) NEW MODELS					S H	S H	S H	L H	L H
Replace PURY-P					L	L	L		

Heat Pump - Y Series	P	112	125	140	200	250	300	350	400
	(kW)	12	14	16	22	28	34	40	45
Standard PUHY-P (YNW) NEW MODELS					S	S	S	L	L
Mini VRF PUMY-(S)P NEW MODELS		●	●	●	● Twin Fan				
Replace PUHY-RP					S	S	S	S	S S

Water Cooled

Heat Recovery	P	112	125	140	200	250	300	350	400
	(kW)	12	14	16	22	28	34	40	45
WR2 Series PQRY-P					● H	● H	● H	● H	● H

Heat Pump	P	112	125	140	200	250	300	350	400
	(kW)	12	14	16	22	28	34	40	45
WY Series PQHY-P					●	●	●	●	●

S Small chassis (920mm wide) L Large chassis (1240mm wide) XL Extra Large chassis (1750mm wide) H Connects to Hybrid VRF

450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
50	56	63	69	73	80	85	90	96	101	108	113	118	124	130	136	140	146	150
L H	XL H	XL	S S	S L	L L	L L	L L	L L	L L	XL L	XL XL	XL XL	XL XL					
L H	XL H	XL	S L	S L	L L	L L	L L	L L	L L	XL L	XL XL	XL XL	XL XL					

450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
50	56	63	69	73	80	85	90	96	101	108	113	118	124	130	136	140	146	150
L	XL	S S	S S	L S	L L	L L	L L	L L	L L	L L S	L L S	L L S	L L L	L L L	L L L	L L L	L L L	L L L
S S	S S	S S	S S	S S	S S S	S S S	S S S	S S S	S S S									

450	500	550	600	650	700	750	800	850	900
50	56	63	69	73	80	85	90	96	101
H	H								

450	500	550	600	650	700	750	800	850	900
50	56	63	69	73	80	85	90	96	101

City Multi - Indoor Unit Range

Model	Range		P (kW)	15 1.7	20 2.2	25 2.8
Ducted	Ultra Thin Ceiling Concealed **PEFY-P-VMS1-E**			●	●	●
	Ceiling Concealed Ducted **PEFY-P-VMA-E2**				●	●
	High Static Pressure Ceiling Concealed **PEFY-P-VMHS-E**					
Cassette	4-Way Blow Ceiling Cassette **PLFY-P-VEM-E**					●
	600x600 4-Way Blow Ceiling Cassette **PLFY-P-VFM-E**				●	●
Floor	Floor Standing Concealed **PFFY-P-VLRM(M)-E**[*2]				●	●
	Floor Standing Exposed **PFFY-P-VLEM-E**				●	●
	Floor Standing Exposed **PFFY-P-VKM-E**				●	●
Wall	Wall Mounted **PKFY-P-VBM-E**			●	●	●
	Wall Mounted **PKFY-P-VBM-E**					
	Wall Mounted **PKFY-P-VKM-E**					
	Wall Mounted **MSZ-LN**[*1]					●
	Wall Mounted Zen **MSZ-EF**[*1]					●
	Wall Mounted **MSZ-SF**[*1]			●	●	●
Ceiling	Ceiling Suspended **PCFY-P-VKM-E**					
Fresh Air	Lossnay Outdoor Air Processing Unit **GUF-RD4**					
Water Heater	VRF Sanitary Water Heater **PWFY-P-VM-E-BU**					
Air Curtain	Heat Pump Air Curtain **VRF HP DXE**[*3]					

HVRF - Indoor Unit Range

Model	Range		P (kW)	10 1.2	15 1.7	20 2.2	25 2.8	32 3.6	40 4.5	50 5.6	63 7.1	80 9.0
Ducted	Ultra Thin Ceiling Concealed **PEFY-WP-VMS1-E**			●	●	●	●	●	●	●		
	Ceiling Concealed Ducted **PEFY-WP-VMA-E**					●	●	●	●	●	●	●
Floor	Floor Standing Concealed **PFFY-WP-VLRMM-E**					●	●	●	●	●		

32	40	50	63	80	100	125	140	200	250
3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	22.4	28.0
●	●	●	●						
●	●	●	●	●	●	●			
				●	●	●	●	●	●
●	●	●	●	●	●	●			
●	●								
●	●	●	●						
●	●	●	●						
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●	●	●							
			●						
●		●							
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	●		●		●	●			
●			●						
					●				
			●		●	●	●		

*1. Only available when using PAC-LV11 LEV kit interface or PAC-MK on PUMY outdoor units, available in other colours.
*2. Available with or without static pressure. *3. Available as recessed or exposed versions.

Note: All kW capacity ratings may change on connected system, please contact Sales office for confirmation.

Model	Range		P	10	15	20	25	32	40	50	63	80
			(kW)	1.2	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0
Cassette	4-Way Blow Ceiling Cassette **PLFY-WP-VBM-E**							●	●	●		
	600x600 4-Way Blow Ceiling Cassette **PLFY-WP-VFM-E**				●	●	●	●				

City Multi - Specifications

R2 Series High Efficiency (22.4-45kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS		PURY-EP200YNW-A	PURY-EP250YNW-A	PURY-EP300YNW-A	PURY-EP350YNW-A	PURY-EP400YNW-A	PURY-EP400YSNW-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)	20.0	25.1	30.0	35.8	40.3	40.3
POWER INPUT (kW)	Heating (nominal)	4.57	5.98	8.36	10.24	12.98	9.42
	Cooling (nominal)	4.23	5.62	7.39	8.81	11.33	8.77
	High Performance Heating (UK)	5.76	7.53	11.12	13.62	14.67	12.06
	COP Priority Heating (UK)	4.57	5.98	8.36	10.24	12.59	9.42
	Cooling (UK)	2.45	3.26	4.29	5.11	7.25	5.09
COP / EER (nominal)		5.47 / 5.29	5.26 / 4.98	4.48 / 4.53	4.39 / 4.54	3.85 / 3.97	5.30 / 5.13
SCOP / SEER*		-	-	-	-	-	
MAX No. OF CONNECTABLE INDOOR UNITS		20	25	30	35	40	40
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High	170	185	240	250	315	170 / 170
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		59.0	61.0	67.0	64.0	69.0	62.0
SOUND POWER LEVEL (dBA)		78.0	80.0	86.5	83.0	88.0	81.0
WEIGHT (kg)		234	234	236	279	282	234 + 234
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920
	Depth	740	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1		8	8	8	8	8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]	7.0 / 6.5 [16.1]	9.2 / 8.6 [17.0]	12.9 / 11.4 [20.3]	15.8 / 13.6 [24.4]	20.0 / 17.5 [30.7]	14.5 / 13.5 [16.1 + 16.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1		1 x 20	1 x 20	1 x 25	1 x 25	1 x 32	1 x 20 / 1 x 20
MAINS CABLE No. Cores*1		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	28.3 / 59.1	34.3 / 71.6	34.3 / 71.6	39 / 81.4	39 / 81.4	53.6 / 111.9

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series High Efficiency (50-63kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS		PURY-EP450YNW-A	PURY-EP450YSNW-A	PURY-EP500YNW-A	PURY-EP500YSNW-A	PURY-EP550YNW-A	PURY-EP550YSNW-A
CAPACITY (kW)	Heating (nominal)	56.0	56.0	63.0	63.0	69.0	69.0
	Cooling (nominal)	50.0	50.0	56.0	56.0	63.0	63.0
	High Performance Heating (UK)	50.4	56.0	56.7	63.0	62.1	65.6
	COP Priority Heating (UK)	48.2	51.0	54.2	57.3	59.3	62.8
	Cooling (UK)	44.8	44.8	50.1	50.1	56.4	56.4
POWER INPUT (kW)	Heating (nominal)	13.14	10.76	14.21	12.34	17.59	14.61
	Cooling (nominal)	10.72	10.04	12.69	11.59	15.98	13.66
	High Performance Heating (UK)	14.85	17.00	16.06	15.80	19.88	19.43
	COP Priority Heating (UK)	12.75	10.76	13.78	12.34	17.06	14.61
	Cooling (UK)	6.86	5.82	8.12	6.72	10.23	7.92
COP / EER (nominal)		4.26 / 4.66	5.20 / 4.98	4.43 / 4.41	5.10 / 4.83	3.92 / 3.94	4.72 / 4.61
SCOP / SEER*		-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		45	45	50	50	50	50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High	315	170 / 185	295	185 / 185	410	185 / 240
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8") / 28.58 (1-1/8")*1	22.2 (7/8") / 28.58 (1-1/8")*1
SOUND PRESSURE LEVEL (dBA)		70.0	63.5	64.5	64.0	70.0	68.0
SOUND POWER LEVEL (dBA)		89.0	82.5	84.0	83.0	89.0	87.5
WEIGHT (kg)		306	234 + 234	345	234 + 234	345	234 + 236
DIMENSIONS (mm)	Width	1240	920 + 920	1750	920 + 920	1750	920 + 920
	Depth	740	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]	20.3 / 16.5 [34.6]	16.6 / 15.5 [16.1 + 17.0]	21.9 / 19.6 [40.3]	19.0 / 17.9 [17.0 +17.0]	27.1 / 24.7 [44.3]	22.5 / 21.1 [17.0 + 20.3]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2		1 x 40	1 x 20 / 1 X 20	1 x 50	1 x 20 / 1 X 20	1 x 50	1 x 20 / 1 x 25
MAINS CABLE No. Cores*3		4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	10.8 / 22.5	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	44.7 / 93.3	53.6 / 111.9	45.2 / 94.4	53.6 / 111.9	45.2 / 94.4	53.6 / 111.9

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series High Efficiency (69-96kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS			PURY-EP600YSNW-A	PURY-EP650YSNW-A	PURY-EP700YSNW-A	PURY-EP750YSNW-A	PURY-EP800YSNW-A	PURY-EP850YSNW-A
CAPACITY (kW)	Heating (nominal)		76.5	81.5	88.0	95.0	100	108
	Cooling (nominal)		69.0	73.0	80.0	85.0	90.0	96.0
	High Performance Heating (UK)		72.7	77.4	83.6	85.5	90.0	97.2
	COP Priority Heating (UK)		69.6	74.2	80.1	81.7	86.0	92.9
	Cooling (UK)		61.8	65.3	71.6	76.1	80.6	85.9
POWER INPUT (kW)	Heating (nominal)		17.58	18.94	20.65	23.74	26.8	27.47
	Cooling (nominal)		15.71	16.59	18.18	20.58	23.37	22.91
	High Performance Heating (UK)		23.38	25.19	27.46	26.83	30.28	31.04
	COP Priority Heating (UK)		17.58	18.94	20.65	23.03	26.00	26.65
	Cooling (UK)		9.11	9.62	10.54	11.94	14.96	14.66
COP / EER (nominal)			4.35 / 4.39	4.30 / 4.40	4.26 / 4.40	4.00 / 4.13	3.73 / 3.85	3.93 / 4.19
SCOP / SEER*			-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		240 / 240	240 / 250	250 / 250	250 / 315	315 / 315	315 / 315
PIPE SIZE mm (in)	Gas		28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid		22.2 (7/8") / 28.58 (1-1/8")*1	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA)			70.0	69.0	67.0	70.5	72.0	72.5
SOUND POWER LEVEL (dBA)			89.5	88.5	86.0	89.5	91.0	91.5
WEIGHT (kg)			236 + 236	236 + 279	279 + 279	279 + 282	282 + 282	282 + 306
DIMENSIONS (mm)	Width		920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth		740	740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2			Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2			8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2		Heating / Cooling [MAX]	27.1 / 24.2 [20.3 + 20.3]	29.2 / 25.6 [20.3 + 24.4]	31.9 / 28.1 [24.4 + 24.4]	36.6 / 31.8 [24.4 + 30.7]	41.4 / 36.1 [30.7 + 30.7]	42.4 / 35.4 [30.7 + 34.6]
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2			1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40
MAINS CABLE No. Cores*2			4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		10.4 / 21.7	13.2 / 27.6	16 / 33.4	16 / 33.4	16 / 33.4	18.8 / 39.3
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		53.6 / 111.9	59.8 / 124.9	78 / 162.9	80.5 / 168.1	83 / 173.3	80.2 / 167.5

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series High Efficiency (101-124kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS			PURY-EP900YSNW-A	PURY-EP950YSNW-A	PURY-EP1000YSNW-A	PURY-EP1050YSNW-A	PURY-EP1100YSNW-A
CAPACITY (kW)	Heating (nominal)		113	120	127	132	140
	Cooling (nominal)		101	108	113	118	124
	High Performance Heating (UK)		101.7	108.0	114.3	118.8	126.0
	COP Priority Heating (UK)		97.2	103.2	109.2	113.5	120.4
	Cooling (UK)		90.4	96.7	101.1	105.6	111.0
POWER INPUT (kW)	Heating (nominal)		27.35	28.37	29.52	32.58	36.83
	Cooling (nominal)		22.34	24.54	26.4	29.13	32.46
	High Performance Heating (UK)		30.91	32.06	33.36	36.82	41.62
	COP Priority Heating (UK)		26.53	27.52	28.63	31.60	35.73
	Cooling (UK)		14.30	15.71	16.90	18.64	20.77
COP / EER (nominal)			4.13 / 4.52	4.21 / 4.40	4.30 / 4.28	4.05 / 4.05	3.80 / 3.82
SCOP / SEER*			-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas		41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid		28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")
SOUND PRESSURE LEVEL (dBA)			73.0	71.5	67.5	73.0	73.0
SOUND POWER LEVEL (dBA)			92.0	90.5	87.0	92.0	92.0
WEIGHT (kg)			306 + 306	306 + 345	345 + 345	345 + 345	345 + 345
DIMENSIONS (mm)	Width		1240 + 1240	1240 + 1750	1750 + 1750	1750 + 1750	1750 + 1750
	Depth		740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1			Three	Three	Three	Three	Three
STARTING CURRENT (A)*1			8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1		Heating / Cooling [MAX]	42.2 / 34.5 [34.6 + 34.6]	43.8 / 37.9 [34.6 + 40.3]	45.6 / 40.8 [40.3 + 40.3]	50.3 / 45.0 [40.3 + 44.3]	56.9 / 50.1 [44.3 + 44.3]
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1			1 x 40 / 1 x 40	1 x 40 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 50
MAINS CABLE No. Cores*1			4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		77.4 / 161.6	77.4 / 161.6	77.4 / 161.6	77.4 / 161.6	77.4 / 161.6

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

City Multi - Specifications

R2 Series Standard (22.4-45kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS			PURY-P200YNW-A	PURY-P250YNW-A	PURY-P300YNW-A	PURY-P350YNW-A	PURY-P400YNW-A	PURY-P400YSNW-A
CAPACITY (kW)	Heating (nominal)		25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)		22.4	28.0	33.5	40.0	45.0	45.0
	High Performance Heating (UK)		25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)		22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)		20.0	25.1	30.0	35.8	40.3	40.3
POWER INPUT (kW)	Heating (nominal)		4.71	6.06	8.38	10.68	13.65	9.72
	Cooling (nominal)		4.43	5.97	7.54	10.04	11.59	9.17
	High Performance Heating (UK)		5.93	7.64	11.15	14.20	15.42	12.44
	COP Priority Heating (UK)		4.71	6.06	8.38	10.68	13.24	9.72
	Cooling (UK)		2.57	3.46	4.37	5.82	7.42	5.32
COP / EER (nominal)			5.30 / 5.05	5.19 / 4.69	4.47 / 4.44	4.21 / 3.98	3.86 / 3.88	5.14 / 4.90
SCOP / SEER*			-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			20	25	30	35	40	40
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		170	185	240	250	315	170 / 170
PIPE SIZE mm (in)	Gas		19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid		15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)			59.0	61.0	67.0	64.0	69.0	62.0
SOUND POWER LEVEL (dBA)			78.0	80.0	86.5	83.0	88.0	81.0
WEIGHT (kg)			229	229	231	273	273	229 +229
DIMENSIONS (mm)	Width		920	920	920	1240	1240	920 + 920
	Depth		740	740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1			Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1			8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]		7.2 / 6.8 [16.1]	9.3 / 9.2 [17.8]	12.9 / 11.6 [22.7]	16.5 / 15.5 [27.6]	21.0 / 17.9 [35.1]	15.0 / 14.1 [16.1 + 16.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1			1 x 20	1 x 20	1 x 25	1 x 32	1 x 40	1 x 20 / 1 x 20
MAINS CABLE No. Cores*1			4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		31.8 / 66.4	37.8 / 78.9	37.8 / 78.9	41.3 / 86.2	47.3 / 98.8	60.6 / 126.5

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series Standard (50-63kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS			PURY-P450YNW-A	PURY-P450YSNW-A	PURY-P500YNW-A	PURY-P500YSNW-A	PURY-P550YNW-A	PURY-P550YSNW-A
CAPACITY (kW)	Heating (nominal)		56.0	56.0	63.0	63.0	69.0	69.0
	Cooling (nominal)		50.0	50.0	56.0	56.0	63.0	63.0
	High Performance Heating (UK)		50.4	56.0	56.7	63.0	62.1	65.6
	COP Priority Heating (UK)		48.2	51.0	54.2	57.3	59.3	62.8
	Cooling (UK)		44.8	44.8	50.1	50.1	56.4	56.4
POWER INPUT (kW)	Heating (nominal)		13.48	10.99	15.28	12.51	17.91	14.47
	Cooling (nominal)		12.37	10.59	12.72	12.29	16.03	14.45
	High Performance Heating (UK)		15.23	14.07	17.27	16.01	20.24	19.25
	COP Priority Heating (UK)		13.08	10.99	14.82	12.51	17.37	14.47
	Cooling (UK)		7.92	6.14	8.14	7.13	10.26	8.38
COP / EER (nominal)			4.15 / 4.04	5.09 / 4.90	4.12 / 4.40	5.03 / 4.55	3.85 / 3.93	4.69 / 4.35
SCOP / SEER*			-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			45	45	50	50	50	50
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		315	170 / 185	295	185 / 185	410	185 / 240
PIPE SIZE mm (in)	Gas		28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid		22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8") / 28.58 (1-1/8")*1	22.2 (7/8") / 28.58 (1-1/8")*1
SOUND PRESSURE LEVEL (dBA)			70.0	63.5	64.5	64.0	70.0	68.0
SOUND POWER LEVEL (dBA)			89.0	82.5	84.0	83.0	89.0	87.5
WEIGHT (kg)			293	229 + 229	337	229 + 229	337	229 + 231
DIMENSIONS (mm)	Width		1240	920 + 920	1750	920 + 920	1750	920 + 920
	Depth		740	740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1			Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1			8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]		20.8 / 19.1 [37.1]	16.9 / 16.3 [16.1 + 17.8]	23.6 / 19.6 [43.2]	19.3 / 18.9 [17.8 + 17.8]	27.6 / 24.7 [47.5]	22.7 / 22.3 [17.8 + 22.7]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1			1 x 40	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 25
MAINS CABLE No. Cores*1			4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		10.8 / 22.5	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		44.5 / 92.9	60.6 / 126.5	45.2 / 94.4	60.6 / 126.5	45.2 / 94.4	60.6 / 126.5

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series Standard (69-96kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS			PURY-P600YSNW-A	PURY-P650YSNW-A	PURY-P700YSNW-A	PURY-P750YSNW-A	PURY-P800YSNW-A	PURY-P850YSNW-A
CAPACITY (kW)	Heating (nominal)		76.5	81.5	88.0	95.0	100.0	108.0
	Cooling (nominal)		69.0	73.0	80.0	85.0	90.0	96.0
	High Performance Heating (UK)		72.7	77.4	83.6	85.5	90.0	97.2
	COP Priority Heating (UK)		69.6	74.2	80.1	81.7	86.0	92.9
	Cooling (UK)		61.8	65.3	71.6	76.1	80.6	85.9
POWER INPUT (kW)	Heating (nominal)		17.62	19.35	21.56	24.86	28.16	28.49
	Cooling (nominal)		16.62	18.19	20.72	22.30	23.93	24.99
	High Performance Heating (UK)		23.43	25.74	28.67	28.09	31.82	32.19
	COP Priority Heating (UK)		17.62	19.35	21.56	24.11	27.32	27.64
	Cooling (UK)		9.64	10.55	12.02	12.93	15.32	15.99
COP / EER (nominal)			4.34 / 4.15	4.21 / 4.01	4.08 / 3.86	3.82 / 3.81	3.55 / 3.76	3.79 / 3.84
SCOP / SEER*			-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		240 / 240	240 / 250	250 / 250	250 / 315	315 / 315	315 / 315
PIPE SIZE mm (in)	Gas		28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid		22.2 (7/8") / 28.58 (1-1/8")*1	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA)			70.0	69.0	67.0	70.5	72.0	72.5
SOUND POWER LEVEL (dBA)			89.5	88.5	86.0	89.5	91.0	91.5
WEIGHT (kg)			231 + 231	231 + 273	273 + 273	273 + 273	273 + 273	273 + 293
DIMENSIONS (mm)	Width		920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth		740	740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2			Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2			8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]		27.2 / 25.6 [22.7 + 22.7]	29.9 / 28.1 [22.7 + 27.6]	33.3 / 32.0 [27.6 + 27.6]	38.4 / 34.4 [27.6 + 35.1]	43.5 / 36.9 [35.1 + 35.1]	44.0 / 38.6 [35.1 + 37.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2			1 x 25 / 1 x 25	1 x 25 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 40 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE No. Cores*2			4	4	4	4	4	4
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)			10.4 / 21.7	13.2 / 27.6	16 / 33.4	16 / 33.41	16 / 33.4	18.8 / 39.3
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)			60.6 / 126.5	65.6 / 137.0	79.6 / 166.2	79.6 / 166.2	83 / 173.3	80.2 / 167.5

Note: *ErP Lot 21 / 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

R2 Series Standard (101-124kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

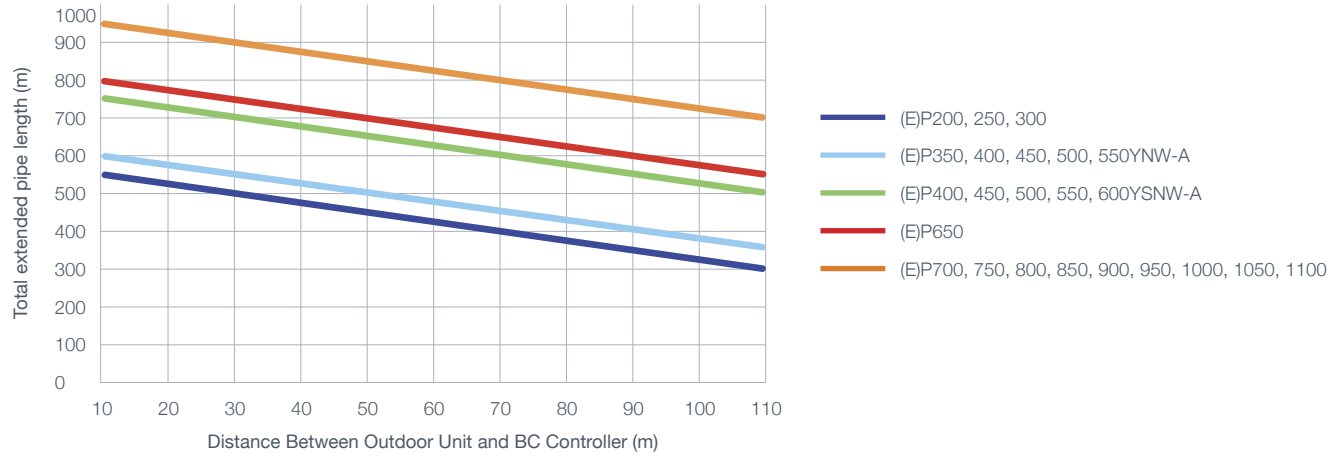
OUTDOOR UNITS			PURY-P900YSNW-A	PURY-P950YSNW-A	PURY-P1000YSNW-A	PURY-P1050YSNW-A	PURY-P1100YSNW-A
CAPACITY (kW)	Heating (nominal)		113	120	127	132	140
	Cooling (nominal)		101	108	113	118	124
	High Performance Heating (UK)		101.7	108.0	114.3	118.8	126.0
	COP Priority Heating (UK)		97.2	103.2	109.2	113.5	120.4
	Cooling (UK)		90.4	96.7	101.1	105.6	111.0
POWER INPUT (kW)	Heating (nominal)		28.03	29.79	31.74	34.10	37.52
	Cooling (nominal)		25.76	26.40	26.45	29.20	32.54
	High Performance Heating (UK)		31.67	33.66	35.87	38.53	42.40
	COP Priority Heating (UK)		27.19	28.90	30.79	33.08	36.39
	Cooling (UK)		16.49	16.90	16.93	18.98	21.15
COP / EER (nominal)			4.03 / 3.92	4.01 / 4.09	4.00 / 4.27	3.87 / 4.04	3.73 / 3.81
SCOP / SEER*			-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m^3/min)	High		315 / 315	315 / 295	295 / 295	295 / 410	410 / 410
PIPE SIZE mm (in)	Gas		41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid		28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")
SOUND PRESSURE LEVEL (dBA)			73.0	71.5	67.5	73.0	73.0
SOUND POWER LEVEL (dBA)			92.0	90.5	87.0	92.0	92.0
WEIGHT (kg)			293 + 293	293 + 337	337 + 337	337 + 337	337 + 337
DIMENSIONS (mm)	Width		1240 + 1240	1240 + 1750	1750 + 1750	1750 + 1750	1750 + 1750
	Depth		740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1			Three	Three	Three	Three	Three
STARTING CURRENT (A)*1			8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]		43.3 / 39.8 [37.1 + 37.1]	46.0 / 40.8 [37.1 + 43.2]	49.0 / 40.8 [43.2 + 43.2]	52.7 / 45.1 [43.2 + 47.5]	57.9 / 50.2 [47.5 + 47.5]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1			1 x 40 / 1 x 40	1 x 40 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 50	1 x 50 / 1 x 50
MAINS CABLE No. Cores*1			4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)			21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1	21.6 / 45.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)			77.4 / 161.6	77.4 / 161.6	77.4 / 161.6	77.4 / 161.6	77.4 / 161.6

Note: *ErP Lot21 / 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

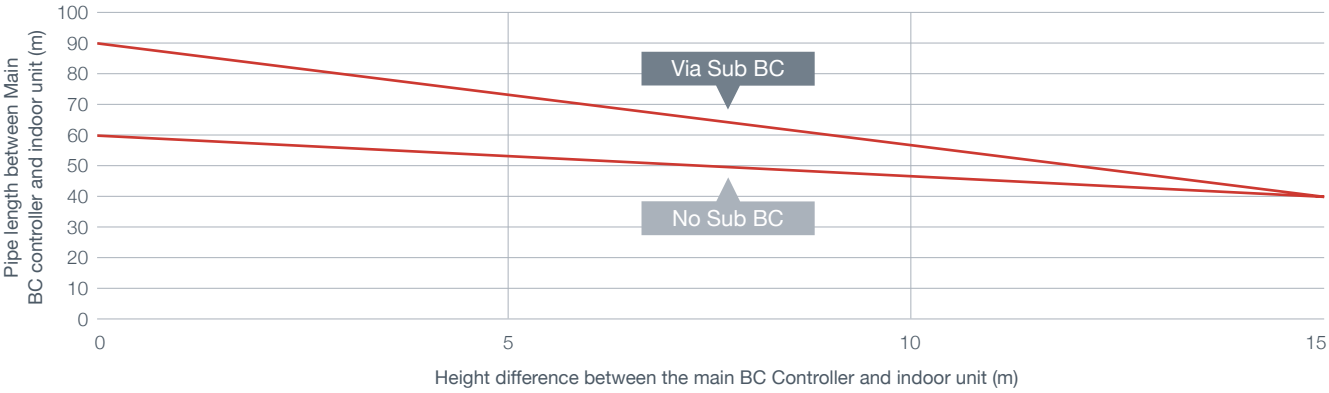
City Multi - Specifications

R2 Series Piping Design

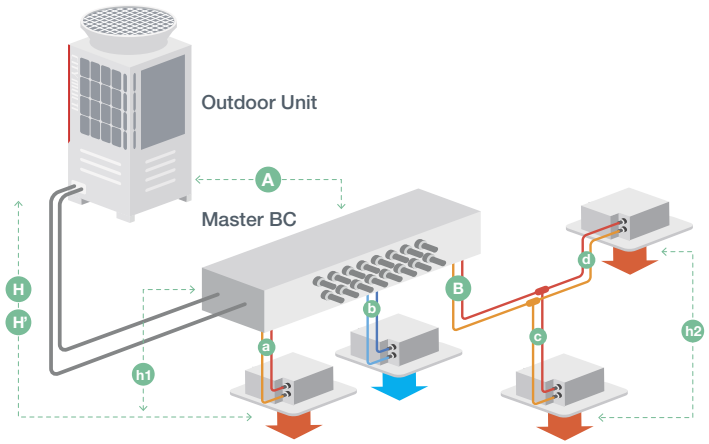
GRAPH 1: TOTAL PIPING LENGTH RETRICTIONS



GRAPH 2: PIPE LENGTH BETWEEN BC CONTROLLER & INDOOR UNIT



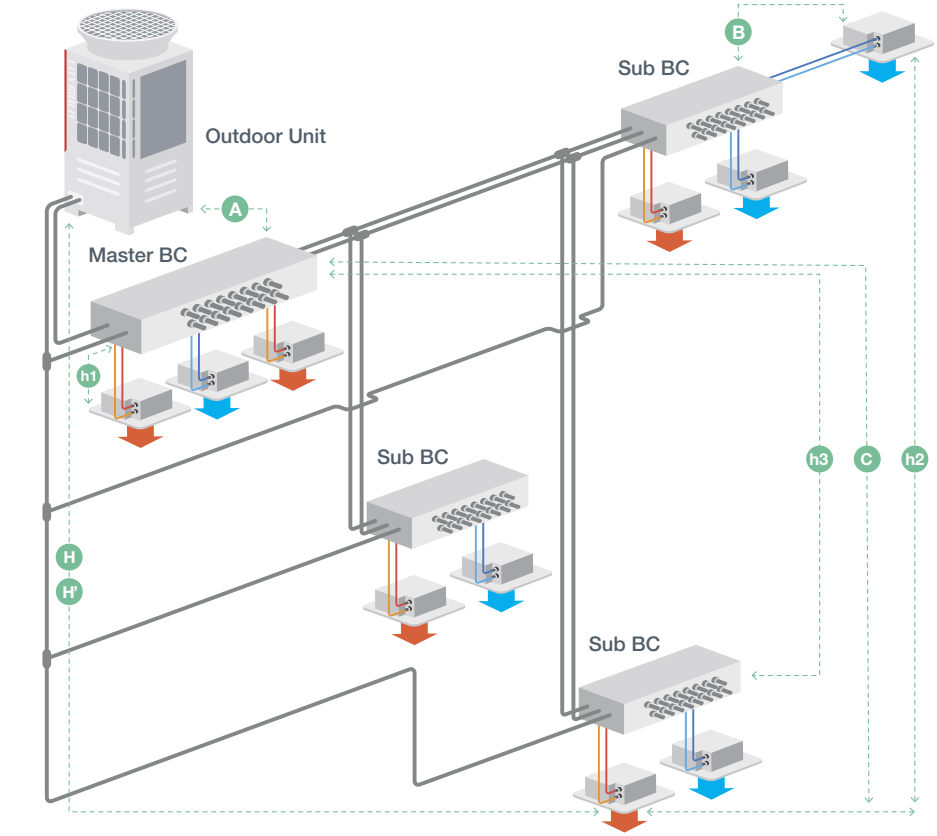
1 BC CONTROLLER, NO SUB BC CONTROLLER



PIPE LENGTH	PIPE SECTION	MAX LENGTH
Total Piping Length	A+B+a+b+c+d	(See Graph 1)
Furthest Piping Length	A+B+d	165m
Length Between OU and BC	A	110m*1
Length Between Furthest IU and BC	B+d	60m*2 (40m)*3
Height Between OU and IU (OU above IU)	H	90m*4
Height Between OU and IU (OU below IU)	H'	60m*2
Height Between IU and BC	h1	15m
Height Between IU and IU	h2	30m

Notes:
*1 Please refer to Graph 1
*2 Height difference between BC controller and furthest indoor unit is zero. Please refer to graph 2
*3 If P200 or P250 indoor unit connected on system
*4 Please contact your sales office for guidance
Please Note: this does not apply to PURY-RP models

1 BC CONTROLLER FOR 1 OUTDOOR UNIT



PIPE LENGTH	PIPE SECTION	MAX LENGTH
Total Piping Length	-	(See Graph 1)
Furthest Piping Length	-	165m
Length Between OU and BC	A	110m*1
Length Between Furthest IU and BC	-	60m*2 (40m)*3
Length Between Furthest IU, Main BC and Sub BC	-	90m*5
Height Between OU and IU (OU above IU)	H	90mm*4
Height Between OU and IU (OU below IU)	H'	60m*4
Height Between IU and BC	h1	15m
Height Between IU and IU	h2	30m
Height Between BC (Main or Sub) and Sub BC	h3	15m

Notes:
*1 Please refer to Graph 1
*2 Height difference between BC controller and furthest indoor unit is zero. Please refer to graph 2
*3 If P200 or P250 indoor unit connected on system
*4 Please contact your sales office for guidance
*5 Distance between main BC and furthest indoor unit can be increased to 90m if connection is through a sub BC Please refer to graph 2.

Please contact your sales office for guidance.

When using P140 indoor units or larger on the system, max distance is 60m

City Multi - Specifications

R2 Series Replace Multi (22.4-33.5kW) Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

OUTDOOR UNITS		PURY-RP200YJM-B	PURY-RP250YJM-B	PURY-RP300YJM-B
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5
	Cooling (nominal)	22.4	28.0	33.5
	High Performance Heating (UK)	24.0	30.2	36.0
	COP Priority Heating (UK)	21.8	27.4	32.6
	Cooling (UK)	21.1	26.3	31.5
POWER INPUT (kW)	Heating (nominal)	5.50	7.22	8.70
	Cooling (nominal)	4.95	6.82	8.35
	High Performance Heating (UK)	7.26	9.53	11.48
	COP Priority Heating (UK)	5.34	7.00	8.44
	Cooling (UK)	3.61	4.98	6.10
COP / EER (nominal)		4.54 / 4.52	4.36 / 4.10	4.31 / 4.01
SCOP / SEER*		-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		20	25	30
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	225	225	225
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		56	57	59
SOUND POWER LEVEL (dBA)		76	77	79
WEIGHT (kg)		275	290	290
DIMENSIONS (mm)	Width	1220	1220	1220
	Depth	760	760	760
(1650mm without legs)	Height	1710	1710	1710
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three	Three
STARTING CURRENT (A)		8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	8.9 / 8.0 [11.8]	11.9 / 11.2 [16.4]	14.6 / 13.6 [20.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)		1 x 20	1 x 20	1 x 25
MAINS CABLE No. Cores		4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	11.8 / 24.6	11.8 / 24.6	11.8 / 24.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	27.0 / 56.4	28.5 / 59.5	29.5 / 61.6

Note: *ErP Lot 21 / 6 calculation method to EN14825.

Y Series (12.5-15.5kW) Mini VRF Heat Pump Outdoor Unit - Single Fan

OUTDOOR UNITS		PUMY-SP112VKM	PUMY-SP112YKM ③	PUMY-SP125VKM	PUMY-SP125YKM ③	PUMY-SP140VKM	PUMY-SP140YKM ③
CAPACITY (KW)	Heating (nominal)	14.0	14.0	16.0	16.0	16.5	16.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
	Heating (UK)	13.9	13.9	15.8	15.8	16.3	16.3
	Cooling (UK)	10.0	10.0	11.2	11.2	12.4	12.4
POWER INPUT (KW)	Heating (nominal)	3.17	3.17	3.90	3.90	4.02	4.02
	Cooling (nominal)	3.10	3.10	3.84	3.84	4.70	4.70
	Heating (UK)	4.18	4.18	5.15	5.15	5.31	5.31
	Cooling (UK)	1.61	1.61	2.00	2.00	2.44	2.44
COP / EER (nominal)		4.42 / 4.03	4.42 / 4.03	4.10 / 3.65	4.10 / 3.65	4.10 / 3.30	4.10 / 3.30
SCOP / SEER*		-	-	-	-	-	-
MAX NO. OF CONNECTABLE INDOOR UNITS		9	9	10	10	12	12
MAX CONNECTABLE CAPACITY		50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity
AIRFLOW (m³/min)		77	77	83	83	83	83
PIPE SIZE MM (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)		52	52	53	53	54	54
SOUND POWER LEVEL (dBA)		72	72	73	73	74	74
WEIGHT (kg)		93	94	93	94	93	94
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050
	Depth	330+40	330+40	330+40	330+40	330+40	330+40
	Height	981	981	981	981	981	981
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Three	Single	Three	Single	Three
STARTING CURRENT (A)		14	7	14	7	14	7
NOMINAL SYSTEM RUNNING CURRENT (A)	Heating / Cooling [MAX]	13.48 / 13.18 [30.5]	4.82 / 4.71 [13.0]	16.58 / 16.33 [30.5]	5.93 / 5.83 [13.0]	17.09 / 19.98 [30.5]	6.11 / 7.14 [13.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52	-20~15 / -5~52
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16
MAINS CABLE NO. CORES		3	4 + earth	3	4 + earth	3	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (T)	R410A (GWP 2088)	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T)	R410A (GWP 2088)	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79

③ Three Phase

Note: *ErP Lot 21/6 calculation method to EN14825.

Y Series (12.5-22.4kW) Mini VRF Heat Pump Outdoor Unit - Twin Fan

OUTDOOR UNITS		PUMY-P112VKM4	PUMY-P112YKM4 ③	PUMY-P125VKM4	PUMY-P125YKM4 ③	PUMY-P140VKM4	PUMY-P140YKM4 ③	PUMY-P200YKM2 ③
CAPACITY (kW)	Heating (nominal)	14.0	14.0	16.0	16.0	18.0	18.0	25.0
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5	22.4
	Heating (UK)	13.9	13.9	15.8	15.8	17.8	17.8	24.8
	Cooling (UK)	10.0	10.0	11.2	11.2	12.4	12.4	17.9
POWER INPUT (kW)	Heating (nominal)	3.04	3.04	3.74	3.74	4.47	4.47	5.84
	Cooling (nominal)	2.79	2.79	3.46	3.46	4.52	4.52	6.05
	Heating (UK)	4.01	4.01	4.94	4.94	5.90	5.90	7.71
	Cooling (UK)	1.56	1.56	1.94	1.94	2.53	2.53	3.39
COP / EER (nominal)		4.61 / 4.48	4.61 / 4.48	4.28 / 4.05	4.28 / 4.05	4.03 / 3.43	4.03 / 3.43	4.28 / 3.70
SCOP / SEER*1		-	-	-	-	-	-	-
Max no. OF CONNECTABLE INDOOR UNITS		9	9	10	10	12	12	12
MAX CONNECTABLE CAPACITY		50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity
AIRFLOW (m³/min)		110	110	110	110	110	110	139
PIPE SIZE mm (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")*
SOUND PRESSURE LEVEL (dBA)		49	49	50	50	51	51	56
SOUND PROWER LEVEL (dBA)		69	69	70	70	71	71	75
WEIGHT (kg)		122	125	122	125	122	125	141
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050	1050
	Depth	330+40	330+40	330+40	330+40	330+40	330+40	330+40
	Height	1338	1338	1338	1338	1338	1338	1338
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Single	Three	Single	Three	Single	Three	Three
STARTING CURRENT (A)		14	7	14	7	14	7	7
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]	13.42 / 12.32 [29.5]	5.16 / 4.74 [13.0]	16.51 / 15.27 [29.5]	6.00 / 5.55 [13.0]	19.73 / 19.95 [29.5]	6.79 / 6.87 [13.0]	8.74 / 9.05 [19.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46	-20~15 / -5~46
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16	1 x 20
MAINS CABLE No. Cores		3	4 + earth	3	4 + earth	3	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (T)	R410A (GWP 2088)	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	7.3 / 15.2
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (T)	R410A (GWP 2088)	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.5 / 28.2

③ Three Phase

Note: *1 ErP Lot 21/6 calculation method to EN14825. *2 12.7mm (1/2") if furthest length ≥ 60m

Y Series Standard (22.4-45kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS		PUHY-P200YNW-A	PUHY-P250YNW-A	PUHY-P300YNW-A	PUHY-P350YNW-A	PUHY-P400YNW-A	PUHY-P400YSNW-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)	20.0	25.1	30.0	35.8	40.3	40.3
POWER INPUT (kW)	Heating (nominal)	4.58	6.04	7.86	10.51	13.40	9.45
	Cooling (nominal)	4.24	5.78	7.66	9.87	11.47	8.77
	High Performance Heating (UK)	5.77	7.61	10.45	13.98	15.14	12.10
	COP Priority Heating (UK)	4.58	6.04	7.86	10.51	13.00	9.45
	Cooling (UK)	2.46	3.35	4.44	5.72	7.34	5.09
COP / EER (nominal)		5.45 / 5.28	5.21 / 4.84	4.77 / 4.37	4.28 / 4.05	3.73 / 3.92	5.29 / 5.13
SCOP / SEER*1		-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		17	21	26	30	34	34
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High	170	185	240	270	300	170 / 170
PIPE SIZE mm (in)	Gas	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	9.52 (3/8")	9.52 (3/8")*2	9.52 (3/8")*2	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
SOUND PRESSURE LEVEL (dBA)		59.0	61.0	64.5	64.0	67.0	62.0
SOUND POWER LEVEL (dBA)		78.0	80.0	83.5	83.0	86.0	81.0
WEIGHT (kg)		225	225	228	278	278	225 + 225
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920
	Depth	740	740	740	740	740	740
(1650mm without legs)	Height	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*3		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*3		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*3		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*3	Heating / Cooling [MAX]	7.0 / 6.5 [16.1]	9.3 / 8.9 [17.8]	12.1 / 11.8 [22.7]	16.2 / 15.2 [26.4]	20.7 / 17.7 [31.9]	14.6 / 13.5 [16.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*3		1 x 20	1 x 20	1 x 25	1 x 32	1 x 32	1 x 20 / 1 x 20
MAINS CABLE No. Cores*3		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	9.8 / 20.5	9.8 / 20.5	13 / 21.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	15.9 / 33.2	22.9 / 47.8	23.4 / 48.9	24 / 50.1	24.4 / 51.0	32 / 66.8

Note: *1 ErP Lot 21 / 6 calculation method to EN14825. *2 12.7mm(1/2") if P250 furthest length ≥ 90m, P300 furthest length ≥ 40m.
*3 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. Price includes Twinning Kit where necessary.

Y Series Standard (50-63kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS		PUHY-P450YNW-A	PUHY-P450YSNW-A	PUHY-P500YNW-A	PUHY-P500YSNW-A	PUHY-P550YSNW-A
CAPACITY (kW)	Heating (nominal)	56.0	56.0	63.0	63.0	69.0
	Cooling (nominal)	50.0	50.0	56.0	56.0	63.0
	High Performance Heating (UK)	50.4	56.0	56.7	63.0	65.6
	COP Priority Heating (UK)	48.2	51.0	54.2	57.3	62.8
	Cooling (UK)	44.8	44.8	50.1	50.1	56.4
POWER INPUT (kW)	Heating (nominal)	13.42	10.85	14.61	12.45	14.26
	Cooling (nominal)	12.22	10.22	12.52	11.91	14.15
	High Performance Heating (UK)	15.16	13.89	16.51	15.94	18.97
	COP Priority Heating (UK)	13.02	10.85	14.17	12.45	14.26
	Cooling (UK)	7.82	5.93	8.01	6.91	8.21
COP / EER (nominal)		4.17 / 4.09	5.16 / 4.89	4.31 / 4.47	5.06 / 4.70	4.83 / 4.45
SCOP / SEER*1		-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		39	39	43	43	47
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High	305	170 / 185	365	185 / 185	185 / 240
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
SOUND PRESSURE LEVEL (dBA)		69.5	63.0	66.5	64.0	66.0
SOUND POWER LEVEL (dBA)		88.5	82.0	85.5	83.0	85.0
WEIGHT (kg)		294	225 + 225	337	225 + 225	225 + 228
DIMENSIONS (mm)	Width	1240	920 + 920	1750	920 + 920	920 + 920
	Depth	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2		Three	Three	Three	Three	Three
STARTING CURRENT (A)*2		8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]	20.7 / 18.8 [37.1]	16.7 / 15.7 [16.1 + 17.8]	22.5 / 19.3 [43.7]	19.2 / 18.4 [17.8 + 17.8]	22.0 / 21.8 [17.8 + 22.7]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 40	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 20 / 1 x 25
MAINS CABLE No. Cores*2		4 + earth	4 + earth / 4 + earth	4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	10.8 / 22.6	13 / 27.1	10.8 / 22.6	13 / 27.1	13 / 27.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	32.2 / 67.2	32 / 66.8	33.1 / 69.1	32.9 / 68.7	34.7 / 72.5

Note: *1 ErP Lot 21 / 6 calculation method to EN14825. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

City Multi - Specifications

Y Series (69-96kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS			PUHY-P600YSNW-A	PUHY-P650YSNW-A	PUHY-P700YSNW-A	PUHY-P750YSNW-A	PUHY-P800YSNW-A	PUHY-P850YSNW-A
CAPACITY (kW)	Heating (nominal)		76.5	81.5	88.0	95.0	100	108
	Cooling (nominal)		69.0	73.0	80.0	85.0	90.0	96.0
	High Performance Heating (UK)		72.7	77.4	83.6	90.3	95.0	97.2
	COP Priority Heating (UK)		69.6	74.2	80.1	86.5	91.0	92.9
	Cooling (UK)		61.8	65.3	71.6	76.1	80.6	85.9
POWER INPUT (kW)	Heating (nominal)		16.52	19.53	21.15	24.54	24.39	28.05
	Cooling (nominal)		16.26	17.59	20.35	21.99	22.76	24.66
	High Performance Heating (UK)		21.97	25.97	28.13	32.64	32.44	31.70
	COP Priority Heating (UK)		16.52	19.53	21.15	24.54	24.39	27.21
	Cooling (UK)		9.43	10.20	11.80	12.75	13.20	15.78
COP / EER (nominal)			4.63 / 4.24	4.17 / 4.15	4.16 / 3.93	3.87 / 3.87	4.10 / 3.95	3.85 / 3.89
SCOP / SEER*1			-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High		240 / 240	185 / 300	270 / 270	270 / 300	270 / 305	300 / 305
PIPE SIZE mm (in)	Gas		28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid		15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)			67.5	68.0	67.0	68.5	71.0	71.5
SOUND POWER LEVEL (dBA)			86.5	87.0	86.0	88.0	89.5	90.5
WEIGHT (kg)			228 + 228	225 + 278	278 + 278	278 + 278	278 + 294	278 + 294
DIMENSIONS (mm)	Width		950 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth		740	740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2			Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2			8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]		25.5 / 25.1 [22.7 + 22.7]	30.1 / 27.1 [17.8 + 31.9]	32.6 / 31.4 [26.4 + 26.4]	37.9 / 33.9 [26.4 + 31.9]	37.7 / 35.1 [26.4 + 37.1]	43.3 / 38.1 [31.9 + 37.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2			1 x 25 / 1 x 25	1 x 20 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 32 / 1 x 40
MAINS CABLE No. Cores*2			4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		13 / 27.1	16.3 / 34.0	19.6 / 40.9	19.6 / 40.9	20.6 / 43.0	20.6 / 43.0
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		34.7 / 72.5	35.2 / 73.5	44.8 / 93.5	44.8 / 93.5	44.7 / 93.3	46.5 / 97.1

Note: *1 ErP Lot 21 / 6 calculation method to EN14825. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Y Series (101-124kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS			PUHY-P900YSNW-A	PUHY-P950YSNW-A	PUHY-P1000YSNW-A	PUHY-P1050YSNW-A	PUHY-P1100YSNW-A
CAPACITY (kW)	Heating (nominal)		113	120	127	132	140
	Cooling (nominal)		101	108	113	118	124
	High Performance Heating (UK)		101.7	108.0	114.3	118.8	126.0
	COP Priority Heating (UK)		97.2	103.2	109.2	113.5	120.4
	Cooling (UK)		90.4	96.7	101.1	105.6	111.0
POWER INPUT (kW)	Heating (nominal)		27.90	27.20	30.45	33.3	35.34
	Cooling (nominal)		24.44	26.13	27.74	29.35	31.87
	High Performance Heating (UK)		31.53	30.74	34.41	37.63	39.93
	COP Priority Heating (UK)		27.06	26.38	29.54	32.30	34.28
	Cooling (UK)		15.64	16.72	17.75	18.78	20.40
COP / EER (nominal)			4.04 / 3.97	4.39 / 4.13	4.17 / 4.07	3.96 / 4.02	3.69 / 3.89
SCOP / SEER*1			-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS			50	50	50	50	50
MAX CONNECTABLE CAPACITY			50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High		305 / 305	185 / 270 / 270	185 / 270 / 300	185 / 300 / 300	270 / 270 / 300
PIPE SIZE mm (in)	Gas		41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid		19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)			72.5	68.0	69.5	70.5	70.0
SOUND POWER LEVEL (dBA)			91.5	87.0	88.5	89.5	88.0
WEIGHT (kg)			294 + 294	225 + 278 + 278	225 + 278 + 278	225 + 278 + 278	278 + 278 + 278
DIMENSIONS (mm)	Width		1240 + 1240	920 + 1240 + 1240	920 + 1240 + 1240	920 + 1240 + 1240	1240 + 1240 + 1240
	Depth		740	740	740	740	740
(1798mm without legs)	Height		1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2			Three	Three	Three	Three	Three
STARTING CURRENT (A)*2			8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]		43.1 / 39.3 [37.1 + 37.1]	42.0 / 40.3 [17.8 + 26.4 + 26.4]	47.0 / 42.8 [17.8 + 26.4 + 31.9]	51.4 / 45.3 [17.8 + 31.9 + 31.9]	54.6 / 49.2 [26.4 + 26.4 + 31.9]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling		-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2			1 x 40 / 1 x 40	1 x 20 / 1 x 32 / 1 x 32	1 x 20 / 1 x 32 / 1 x 32	1 x 20 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 32
MAINS CABLE No. Cores*2			4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth---
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		21.6 / 45.1	26.1/ 54.5	26.1 / 54.5	26.1 / 54.5	29.4 / 61.4
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)		46.4 / 96.9	45.9 / 95.8	45.9 / 95.8	45.9 / 95.8	45.6 / 95.2

Note: *1 ErP Lot 21 / 6 calculation method to EN14825. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Y Series (130-150kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS		PUHY-P1150YSNW-A	PUHY-P1200YSNW-A	PUHY-P1250YSNW-A	PUHY-P1300YSNW-A	PUHY-P1350YSNW-A
CAPACITY (kW)	Heating (nominal)	145	150	157	163	168
	Cooling (nominal)	130	136	140	146	150
	High Performance Heating (UK)	130.5	135.0	141.3	146.7	151.2
	COP Priority Heating (UK)	124.7	129.0	135.0	140.2	144.5
	Cooling (UK)	116.4	121.7	125.3	130.7	134.3
POWER INPUT (kW)	Heating (nominal)	38.32	41.42	41.40	41.55	41.4
	Cooling (nominal)	33.82	35.69	36.17	37.24	37.78
	High Performance Heating (UK)	43.30	46.80	46.78	46.95	46.78
	COP Priority Heating (UK)	37.17	40.18	40.16	40.30	40.16
	Cooling (UK)	21.64	22.84	23.15	23.83	24.18
COP / EER (nominal)		3.78 / 3.84	3.62 / 3.81	3.78 / 3.87	3.92 / 3.92	4.05 / 3.97
SCOP / SEER*1		-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		50	50	50	50	50
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High	270 / 300 / 300	300 / 300 / 300	300 / 300 / 305	300 / 305 / 305	305 / 305 / 305
PIPE SIZE mm (in)	Gas	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")	41.28 (1-5/8")
	Liquid	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		71.0	72.0	73.0	73.5	74.5
SOUND POWER LEVEL (dBA)		90.0	91.0	92.0	92.5	93.5
WEIGHT (kg)		278 + 278 + 278	278 + 278 + 278	278 + 278 + 294	278 + 294 + 294	294 + 294 + 294
DIMENSIONS (mm)	Width	1240 + 1240 + 1240	1240 + 1240 + 1240	1240 + 1240 + 1240	1240 + 1240 + 1240	1240 + 1240 + 1240
	Depth	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*2		Three	Three	Three	Three	Three
STARTING CURRENT (A)*2		8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2	Heating / Cooling [MAX]	59.2 / 52.2 [26.4 + 31.9 + 31.9]	64.0 / 55.1 [31.9 + 31.9 + 31.9]	63.9 / 55.9 [31.9 + 31.9 + 37.1]	64.2 / 57.5 [31.9 + 37.1 + 37.1]	63.9 / 58.3 [37.1 + 37.1 + 37.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52	-20~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2		1 x 32 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 32	1 x 32 / 1 x 32 / 1 x 40	1 x 32 / 1 x 40 / 1 x 40	1 x 40 / 1 x 40 / 1 x 40
MAINS CABLE No. Cores*2		4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth	4 + earth / 4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	29.4 / 61.4	29.4 / 61.4	30.4 / 63.5	31.4 / 65.6	32.4 / 67.7
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	45.6 / 95.2	45.6 / 95.2	47.3 / 98.8	47.2 / 98.6	47.1 / 98.3

Note: *1 ErP Lot 21 / 6 calculation method to EN14825. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Y Series Replace Multi (22.4-40kW) Heat Pump (Heating or Cooling) Outdoor Unit

OUTDOOR UNITS		PUHY-RP200YJM-B	PUHY-RP250YJM-B	PUHY-RP300YJM-B	PUHY-RP350YJM-B
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0
	Cooling (nominal)	22.4	28.0	33.5	40.0
	High Performance Heating (UK)	25.0	31.5	36.0	43.2
	COP Priority Heating (UK)	22.8	28.7	32.6	39.2
	Cooling (UK)	21.2	26.6	31.5	37.6
POWER INPUT (kW)	Heating (nominal)	5.69	7.22	9.42	12.60
	Cooling (nominal)	5.68	7.62	8.98	11.79
	High Performance Heating (UK)	7.34	9.31	12.43	16.63
	COP Priority Heating (UK)	5.63	7.15	9.14	12.22
	Cooling (UK)	3.30	4.42	5.84	7.67
COP / EER (nominal)		4.39 / 3.94	4.36 / 3.67	3.98 / 3.73	3.57 / 3.39
SCOP / SEER*		-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		17	21	26	30
MAX CONNECTABLE CAPACITY		50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity	50-130% OU Capacity
AIRFLOW (m^3/min)	High	185	185	185	185
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")
	Liquid	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
SOUND PRESSURE LEVEL (dBA)		56	57	59	60
SOUND POWER LEVEL (dBA)		76	77	79	80
WEIGHT (kg)		230	255	255	255
DIMENSIONS (mm)	Width	920	920	920	920
	Depth	760	760	760	760
(1650mm without legs)	Height	1710	1710	1710	1710
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three	Three	Three
STARTING CURRENT (A)		8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	8.7/8.7 [13.5]	12.1/12.7 [18.3]	15.2/14.4 [21.5]	20.2/18.9 [28.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)		1 x 20	1 x 20	1 x 25	1 x 32
MAINS CABLE No. Cores		4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	6.5 / 13.6	9.0 / 18.8	9.0 / 18.8	9.0 / 18.8
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R410A (GWP 2088)	21.0 / 43.8	21.0 / 43.8	28.0 / 58.5	28.5 / 59.5

Note: *1 ErP Lot 21 / 6 calculation method to EN14825.

City Multi - Specifications

WR2 Series (22.4-56kW) Water Cooled Simultaneous Heating and Cooling with Double Heat Recovery Condensing Unit

CONDENSING UNITS		PQRY-P200YLM-A	PQRY-P250YLM-A	PQRY-P300YLM-A	PQRY-P350YLM-A	PQRY-P400YLM-A	PQRY-P400YSLM-A	PQRY-P450YLM-A	PQRY-P450YSLM-A	PQRY-P500YLM-A	PQRY-P500YSLM-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0	56.0	56.0	63.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	50.0	50.0	56.0	56.0
POWER INPUT (kW)	Heating (nominal)	3.97	5.08	6.25	7.53	8.37	7.94	9.79	6.24	11.43	10.16
	Cooling (nominal)	3.71	4.90	6.04	7.14	8.03	7.70	9.29	5.69	11.17	10.12
OPERATING WATER VOLUME (m^3/h)		3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	4.5 ~ 11.6	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal)		6.29 / 6.03	6.20 / 5.71	6.25 / 5.54	5.97 / 5.60	5.97 / 5.60	6.29 / 5.84	5.72 / 5.38	6.24 / 5.69	5.51 / 5.01	6.20 / 5.53
SCOP / SEER*		-	-	-	-	-	-	-	-	-	-
MAX NO. OF CONNECTABLE INDOOR UNITS		20	25	30	35	40	40	45	45	50	50
MAX CONNECTABLE CAPACITY		50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")
	Liquid	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		46	48	54	52	52	49	54	50	54	51
SOUND POWER LEVEL (dBA)		60	62	68	66	66	63	70	64	70.5	65
WEIGHT (kg)		172	172	172	216	216	172 + 172	216	172 + 172	216	172 + 172
DIMENSIONS (mm)	Width	880	880	880	880	880	880 + 880	880	880 + 880	880	880 + 880
	Depth	550	550	550	550	550	550	550	550	550	550
	Height	1100	1100	1100	1450	1450	1100	1450	1100	1450	1100
ELECTRICAL SUPPLY*		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		8	8	8	8	8	8 / 8	8	8 / 8	8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	6.1 / 5.7 [16.1]	7.8 / 7.5 [16.1]	9.6 / 9.3 [18.6]	11.6 / 11.0 [23.1]	12.9 / 12.4 [27.6]	12.2/11.9[16.1+16.1]	15.1 / 14.3 [32.9]	13.8/13.5[16.1+16.1]	17.6 / 17.2 [39.2]	15.7/15.6[16.1+16.1]
FUSE RATING (BS88) - HRC (A)*		1 x 20A	1 x 20A	1 x 20A	1 x 25A	1 x 32A	1 x 20A / 1 x 20A	1 x 40A	1 x 20A / 1 x 20A	1 x 40A	1 x 20A / 1 x 20A
MAINS CABLE No. Cores*		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	6.0 / 12.5	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		27.0 / 56.4	32.0 / 66.8	33.0 / 68.9	52.0 / 108.6	52.0 / 108.6	52.0 / 108.6	53.0 / 110.7	53.0 / 110.7	55.0 / 114.8	55.0 / 114.8

Note: *1 ErP Lot 21 / 6 calculation method to EN14825.

WR2 Series (63-101kW) Water Cooled Simultaneous Heating and Cooling with Double Heat Recovery Condensing Unit

CONDENSING UNITS		PQRY-P550YLM-A	PQRY-P550YSLM-A	PQRY-P600YLM-A	PQRY-P600YSLM-A	PQRY-P700YSLM-A	PQRY-P750YSLM-A	PQRY-P800YSLM-A	PQRY-P850YSLM-A	PQRY-P900YSLM-A
CAPACITY (kW)	Heating (nominal)	69.0	69.0	76.5	76.5	88.0	95.0	100.0	108.0	113.0
	Cooling (nominal)	63.0	63.0	69.0	69.0	80.0	85.0	90.0	96.0	101.0
POWER INPUT (kW)	Heating (nominal)	12.27	11.31	14.51	12.75	14.73	15.90	16.75	18.49	19.74
	Cooling (nominal)	12.54	11.55	14.49	12.84	14.73	15.64	16.57	18.03	19.38
OPERATING WATER VOLUME (m^3/h)		6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal)		5.62 / 5.02	6.10 / 5.45	5.27 / 4.76	6.00 / 5.37	5.97 / 5.43	5.97 / 5.43	5.97 / 5.43	5.84 / 5.32	5.72 / 5.21
SCOP / SEER*		-	-	-	-	-	-	-	-	-
MAX NO. OF CONNECTABLE INDOOR UNITS		50	50	50	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY		50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%
PIPE SIZE mm (in)	Gas	28.58 (1 1/8")	28.58 (1 1/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	41.28 (1 5/8")	41.28 (1 5/8")
	Liquid	22.2 (7/8")**	22.2 (7/8")**	22.2 (7/8")**	22.2 (7/8")**	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")
SOUND PRESSURE LEVEL (dBA)		56.5	55	56.5	57	55	55	55	56	57
SOUND POWER LEVEL (dBA)		71.5	69	73	71	69	69	69	71.5	73
WEIGHT (kg)		246	172 + 172	246	172 + 172	216 + 216	216 + 216	216 + 216	216 + 216	216 + 216
DIMENSIONS (mm)	Width	880	880 + 880	880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880
	Depth	550	550	550	550	550	550	550	550	550
	Height	1450	1100	1450	1100	1450	1450	1450	1450	1450
ELECTRICAL SUPPLY*		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		8	8 / 8	8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	18.9 / 19.3 [40.5]	17.4 / 17.8 [18.6+16.1]	22.4 / 22.3 [40.5]	19.7 / 19.8 [18.6+18.6]	22.7 / 22.7 [23.1+23.1]	24.5 / 24.1 [27.6+23.1]	25.8 / 25.6 [27.6+27.6]	28.5 / 27.8 [32.9+27.6]	30.5 / 29.9 [32.9+32.9]
FUSE RATING (BS88) - HRC (A)*		1 x 50A	1 x 20A / 1 x 20A	1 x 50A	1 x 20A / 1 x 20A	1 x 25A / 1 x 25A	1 x 32A / 1 x 25A	1 x 32A / 1 x 32A	1 x 40A / 1 x 32A	1 x 40A / 1 x 40A
MAINS CABLE No. Cores*		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		11.7 / 24.4	10.0 / 20.9	11.7 / 24.4	10.0 / 20.9	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		57.0 / 119.0	61.5 / 128.4	58.0 / 121.1	64.5 / 134.7	72.0 / 150.3	74.0 / 154.5	74.0 / 154.5	76.0 / 158.7	76.0 / 158.7

Note: *1 ErP Lot 21 / 6 calculation method to EN14825.

WY Series (22.4-56kW) Water Cooled Heat Pump (Heating or Cooling), Condensing Unit

CONDENSING UNITS		PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-P300YLM-A	PQHY-P350YLM-A	PQHY-P400YLM-A	PQHY-P400YSLM-A	PQHY-P450YLM-A	PQHY-P450YSLM-A	PQHY-P500YLM-A	PQHY-P500YSLM-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0	56.0	56.0	63.0	63.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	50.0	50.0	56.0	56.0
POWER INPUT (kW)	Heating (nominal)	3.97	5.08	6.25	7.53	8.37	7.94	9.79	6.24	11.43	10.16
	Cooling (nominal)	3.71	4.90	6.04	7.14	8.03	7.70	9.29	5.69	11.17	10.12
OPERATING WATER VOLUME (m^3/h)		3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	4.5 ~ 11.6	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2	4.5 ~ 11.6	3.0 + 3.0 ~ 7.2 + 7.2
GUARANTEED OPERATING RANGE (ºC)	Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal)		6.29 / 6.03	6.20 / 5.71	6.25 / 5.54	5.97 / 5.60	5.97 / 5.60	6.29 / 5.84	5.72 / 5.38	6.24 / 5.69	5.51 / 5.01	6.20 / 5.53
SCOP / SEER*		-	-	-	-	-	-	-	-	-	-
MAX NO. OF CONNECTABLE INDOOR UNITS		17	21	26	30	34	36	39	39	43	43
MAX CONNECTABLE CAPACITY		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")
	Liquid	9.52 (3/8")	9.52 (3/8")**	9.52 (3/8")**	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
SOUND PRESSURE LEVEL (dBA)		46	48	54	52	52	49	54	50	54	51
SOUND POWER LEVEL (dBA)		60	62	68	66	66	63	70	64	70.5	65
WEIGHT (kg)		174	174	174	217	217	174 + 174	217	174 + 174	217	174 + 174
DIMENSIONS (mm)	Width	880	880	880	880	880	880 + 880	880	880 + 880	880	880 + 880
	Depth	550	550	550	550	550	550	550	550	550	550
	Height	1100	1100	1100	1450	1450	1100	1450	1100	1450	1100
ELECTRICAL SUPPLY*		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		8	8	8	8	8	8 / 8	8	8 / 8	8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	6.1 / 5.7 [16.1]	7.8 / 7.5 [16.1]	9.6 / 9.3 [18.6]	11.6 / 11.0 [23.1]	12.9 / 12.4 [27.6]	12.2 / 11.9 [16.1 + 16.1]	15.1 / 14.3 [32.9]	13.8 / 13.5 [16.1 + 16.1]	17.6 / 17.2 [39.2]	15.7 / 15.6 [16.1 + 16.1]
FUSE RATING (BS88) - HRC (A)*		1 x 20A	1 x 20A	1 x 20A	1 x 25A	1 x 32A	1 x 20A / 1 x 20A	1 x 40A	1 x 20A / 1 x 20A	1 x 40A	1 x 20A / 1 x 20A
MAINS CABLE No. Cores*		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	6.0 / 12.5	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9	6.0 / 12.5	10.0 / 20.9
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		21.0 / 43.8	28.0 / 58.5	29.5 / 61.6	41.5 / 86.7	50.0 / 104.4	50.0 / 104.4	51.5 / 107.5	51.5 / 107.5	53.5 / 111.7	53.5 / 111.7

Note: *1 ErP Lot 21 / 6 calculation method to EN14825.

WY Series (63-101kW) Water Cooled Heat Pump (Heating or Cooling), Condensing Unit

CONDENSING UNITS		PQHY-P550YLM-A	PQHY-P550YSLM-A	PQHY-P600YLM-A	PQHY-P600YSLM-A	PQHY-P700YSLM-A	PQHY-P750YSLM-A	PQHY-P800YSLM-A	PQHY-P850YSLM-A	PQHY-P900YSLM-A
CAPACITY (kW)	Heating (nominal)	69.0	69.0	76.5	76.5	88.0	95.0	100.0	108.0	113.0
	Cooling (nominal)	63.0	63.0	69.0	69.0	80.0	85.0	90.0	96.0	101.0
POWER INPUT (kW)	Heating (nominal)	12.27	11.31	14.51	12.75	14.73	15.90	16.75	18.49	19.74
	Cooling (nominal)	12.54	11.55	14.49	12.84	14.73	15.64	16.57	18.03	19.38
OPERATING WATER VOLUME (m^3/h)		6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	6.0 ~ 14.4	3.0 + 3.0 ~ 7.2 + 7.2	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6
GUARANTEED OPERATING RANGE (ºC)	Heating / Cooling	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45
COP / EER (nominal)		5.62 / 5.02	6.10 / 5.45	5.27 / 4.76	6.00 / 5.37	5.97 / 5.43	5.97 / 5.43	5.97 / 5.43	5.84 / 5.32	5.72 / 5.21
SCOP / SEER*		-	-	-	-	-	-	-	-	-
MAX NO. OF CONNECTABLE INDOOR UNITS		47	47	50	50	50	50	50	50	50
MAX CONNECTABLE CAPACITY		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
PIPE SIZE mm (in)	Gas	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	34.93 (1 3/8")	34.93 (1 3/8")	34.93 (1 3/8")	41.28 (1 5/8")	41.28 (1 5/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		56.5	55	56.5	57	55	55	55	56	57
SOUND POWER LEVEL (dBA)		71.5	69	73	71	69	69	69	71.5	73
WEIGHT (kg)		246	174 + 174	246	174 + 174	217 + 217	217 + 217	217 + 217	217 + 217	217 + 217
DIMENSIONS (mm)	Width	880	880 + 880	880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880	880 + 880
	Depth	550	550	550	550	550	550	550	550	550
	Height	1450	1100	1450	1100	1450	1450	1450	1450	1450
ELECTRICAL SUPPLY*		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		8	8 / 8	8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling [MAX]	18.9 / 19.3 [40.5]	17.4 / 17.8 [18.6 + 16.1]	22.4 / 22.3 [40.5]	19.7 / 19.8 [18.6 + 18.6]	22.7 / 22.7 [23.1 + 23.1]	24.5 / 24.1 [27.6 + 23.1]	25.8 / 25.6 [27.6 + 27.6]	28.5 / 27.8 [32.9 + 27.6]	30.5 / 29.9 [32.9 + 32.9]
FUSE RATING (BS88) - HRC (A)*		1 x 50A	1 x 20A / 1 x 20A	1 x 50A	1 x 20A / 1 x 20A	1 x 25A / 1 x 25A	1 x 32A / 1 x 25A	1 x 32A / 1 x 32A	1 x 40A / 1 x 32A	1 x 40A / 1 x 40A
MAINS CABLE No. Cores*		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		11.7 / 24.4	10.0 / 20.9	11.7 / 24.4	10.0 / 20.9	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1	12.0 / 25.1
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R410A (GWP 2088)		55.5 / 115.9	54.5 / 113.8	57.0 / 119.0	55.5 / 115.9	65.5 / 136.8	67.5 / 140.9	67.5 / 140.9	70.0 / 146.2	70.0 / 146.2

Note: *1 ErP Lot 21 / 6 calculation method to EN14825.

City Multi - Specifications

Standalone BC Controllers

BC CONTROLLERS		CMB-P104V-J	CMB-P106V-J
NUMBER OF CONNECTIONS		4	6
WEIGHT (kg)		23	27
DIMENSIONS (mm)	Width	596	596
	Depth	495	495
	Height	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.085	0.123
RUNNING CURRENT (A)		0.36	0.52
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3

Note: CMB-P-V-J units are for use with PURY-P200-350YNW-A, PURY-EP200-350YNW-A & PQRY-P200-300YLM-A units only.

Master BC Controllers

BC CONTROLLERS		CMB-P108V-JA	CMB-P1012V-JA	CMB-P1016V-JA	CMB-P1016V-KA
NUMBER OF CONNECTIONS		8	12	16	16
WEIGHT (kg)		45	55	63	65
DIMENSIONS (mm)	Width	911	1135	1135	1135
	Depth	639	639	639	639
	Height	246	246	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
POWER INPUT (kW)		0.161	0.236	0.312	0.312
RUNNING CURRENT (A)		0.68	0.99	1.30	1.30
FUSE RATING (BS88) – HRC (A)		6	6	6	6
MAINS CABLE NO. CORES		3	3	3	3

Note: CMB-P-V-JA units are for use with PURY-P200-900Y(S)NW-A, PURY-EP200-900Y(S)NW-A & PQRY-P200-900Y(S)LM-A units only. CMB-P1016V-KA unit is for use with PURY-P950-1100YSNW-A & PURY-EP950-1100YSNW-A units only.

Sub BC Controllers

BC CONTROLLERS		CMB-P104V-KB	CMB-P108V-KB
NUMBER OF CONNECTIONS		4	8
WEIGHT (kg)		21	28
DIMENSIONS (mm)	Width	596	596
	Depth	495	495
	Height	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.076	0.135
RUNNING CURRENT (A)		0.32	0.59
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3

Note: Maximum index of 350 allowable on each sub BC.

Note: P350 per Sub BC. 11 Sub Bc oer Master BC. P1100 max on Sub BC.

Standalone BC Controllers with Port Isolation Valves

BC CONTROLLERS		KS8-CMB-P104V-J	KS8-CMB-P106V-J
NUMBER OF CONNECTIONS		4	6
WEIGHT (kg)		23 + 4.2	27 + 5.9
DIMENSIONS (mm)	Width	596	596
	Depth	495 + 280	495 + 280
	Height	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.085	0.123
RUNNING CURRENT (A)		0.36	0.52
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3
BC BOX		CMB-P104V-J	CMB-P106V-J

Note: KS8-CMB-P-V-J units are for use with PURY-P200-350YNW-A, PURY-EP200-350 YNW-A & PQRY-P200-300YLM-A units only.

Master BC Controllers with Port Isolation Valves

BC CONTROLLERS		KS8-CMB-P108V-JA	KS8-CMB-P1012V-JA	KS8-CMB-P1016V-JA	KS8-CMB-P1016V-KA
NUMBER OF CONNECTIONS		8	12	16	16
WEIGHT (kg)		45 + 7.9	55 + 12	63 + 14.5	65 + 14.5
DIMENSIONS (mm)	Width	911	1135	1135	1135
	Depth	639 + 280	639 + 280	639 + 280	639 + 280
	Height	246	246	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
POWER INPUT (kW)		0.161	0.236	0.312	0.312
RUNNING CURRENT (A)		0.68	0.99	1.30	1.30
FUSE RATING (BS88) – HRC (A)		6	6	6	6
MAINS CABLE NO. CORES		3	3	3	3
BC BOX		CMB-P108V-JA	CMB-P1012V-JA	CMB-P1016V-JA	CMB-P1016V-KA

Note: KS8-CMB-P-V-JA units are for use with PURY-P200-900Y(S)NW-A, PURY-EP200-900Y(S)NW-A & PQRY-P200-900Y(S)LM-A units only. KS8-CMB-P1016V-KA unit is for use with PURY-P950-1100YNW-A & PURY-EP950-1100YSNW-A units only.

Sub BC Controllers with Port Isolation Valves

BC CONTROLLERS		KS8-CMB-P104V-KB	KS8-CMB-P108V-KB
NUMBER OF CONNECTIONS		4	8
WEIGHT (kg)		21 + 4.2	28 + 7.5
DIMENSIONS (mm)	Width	596	596
	Depth	495 + 280	495 + 280
	Height	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single
POWER INPUT (kW)		0.076	0.135
RUNNING CURRENT (A)		0.32	0.59
FUSE RATING (BS88) – HRC (A)		6	6
MAINS CABLE NO. CORES		3	3
BC BOX		CMB-P104V-KB	CMB-P108V-KB

Note: P350 per Sub BC. 11 Sub Bc oer Master BC. P1100 max on Sub BC.

Ecodesign and Seasonal Efficiency

With buildings accounting for around half of all UK greenhouse emissions, legislation is demanding increased energy efficiency. The Ecodesign Directive for Energy Related Products (ErP) is focusing on this area in a bid to reduce overall energy consumption and to accelerate market transformation to more energy efficient products.

An air conditioner will vary performance over changing seasons which means calculating seasonal performance is important to ascertain the true performance of an air conditioning system. The Ecodesign Directive reflects this by setting minimum efficiency requirements and a new method of measuring performance that has been introduced across the EU.

The European Standard BS EN14825 sets the seasonal performance calculation for an air conditioning system.

For more information visit the website: **erp.mitsubishielectric.eu/erp**

SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document.

Enhanced Capital Allowance

Mitsubishi Electric has developed a range of highly efficient systems which successfully qualify for ECA.

For further information please go to:
gov.uk/etl and airconditioning.mitsubishielectric.co.uk

Capacity and efficiency conditions

Nominal Conditions: Cooling; indoor 27ºC DB, 19ºC WB; outdoor 35ºC DB, 24ºC WB.

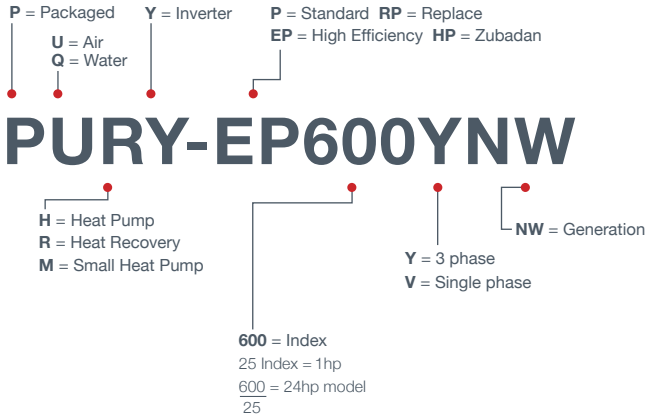
Nominal Conditions: Heating; indoor 20ºC DB; outdoor 7ºC DB, 6ºC WB.

UK Conditions: Summer; indoor 21ºC DB, 15ºC WB; outdoor 27ºC DB.

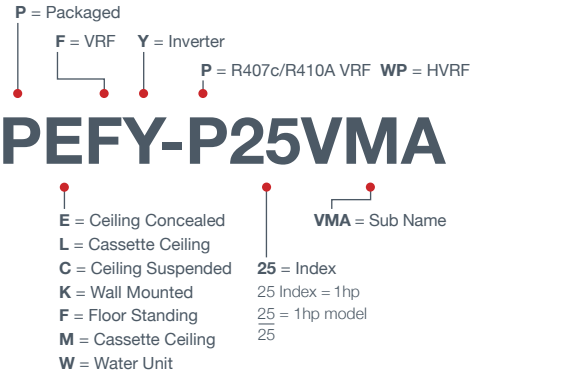
UK Conditions: Winter; indoor 20ºC DB; outdoor 0°C DB, -1ºC WB.

City Multi -
Model name explanations

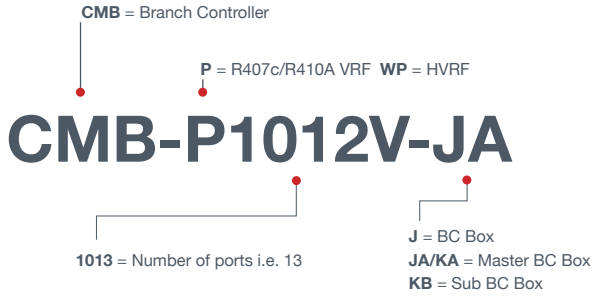
City Multi Outdoor / Heat Source Units



City Multi Indoor Units



City Multi Branch Controller



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