

Air conditioning is an ideal way of controlling the temperature, movement and cleanliness of air inside any building, large or small. With today's buildings being so well insulated and increasingly full of electronic equipment, the need for effective climate control is greater than ever. Not only does it cool in the summer months, but air conditioning can also heat, doing away with the need for separate heating systems altogether. More and more people today are enjoying the benefits of comfortable working and living environments made possible with air conditioning.

Our Latest Technologies

VRF system

VRF stands for Variable Refrigerant Flow.

A VRF air conditioning system modulates the flow of refrigerant depending upon the capacity requirements of the building. In its simplest form, a VRF system comprises an air-cooled outdoor unit and a series of indoor units that regulate the air temperature inside an internal space.

nverter driven technology

At Mitsubishi Electric we strive to continually meet the increasing demands of our customers, being the first in the industry to offer highly advanced 'inverter driven' systems. Using inverter technology our systems produce just the right amount of output to match the exact requirement of any building. These systems work so efficiently that they don't waste valuable energy by over-heating or over-cooling, resulting in greatly reduced running costs. Alternative systems that may appear cheaper, can often cost substantially more to run, making us the most cost effective choice all round.

ntelligent Power Module (IPM) technology

The CITY MULTI range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology, highly efficient operation is possible with compact units closely matching building requirements.

R 410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe with zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run, and have a significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

Unsurpassed air conditioning from Mitsubishi Electric

Mitsubishi is a trusted household name associated with a variety of products and services. Founded in 1920, the company known today as Mitsubishi Electric, quickly rose to the forefront of the air conditioning industry - a position we still enjoy today. We pride ourselves on offering some of the most energy efficient systems available on the market.

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Sophisticated yet simple technology

Reliable

Designed and manufactured to the highest standards, the CITY MULTI range offers one of the most reliable air conditioning systems available. Simple to install and easy to maintain, this range provides ideal solutions you can trust to protect your investment.

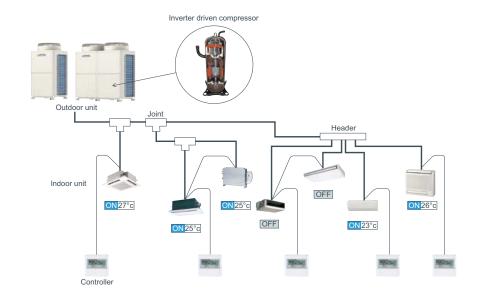


VRF system

Our answer to VRF

Mitsubishi Electric sets the boundaries of VRF technology with the CITY MULTI range, which is available using R410A refrigerant with zero ODP (Ozone Depletion Potential). The range has been specifically designed for today's building requirements and addresses key market issues such as energy efficiency, adaptability and reliability. With user friendly control systems utilizing internet technology and integrated cooling and ventilation indoor units, CITY MULTI is the benchmark and market leader in VRF technology.

VRF is a multi and direct expansion type air conditioning system where by one outdoor unit can be connected with multiples indoor units. The amount of refrigerant can be regulated freely according to the load on the indoor unit by the inverter driven compressor in the outdoor unit. Zoning in a small office is possible with a small capacity indoor unit. Energy conservation is easily handled because individual indoor units can stop and start their operation as needed. There are various indoor units available in order to suit various interior design needs.



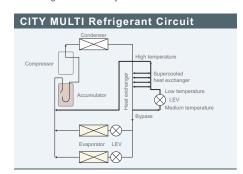
>All the CITY MULTI outdoor units are made in Japan under stringent control.

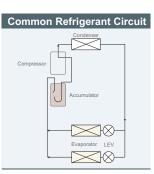


Unbeatable Efficiency

Heat Interchange Circuit

The unique Heat Interchange Circuit (HIC) enhances efficiency by providing additional sub-cooling and allows the expansion device to effectively control the refrigerant distribution, thereby increasing the operating efficiency and reducing the volume of refrigerant in each system.





nverter Driven Compressor Technology - now up to 50HP





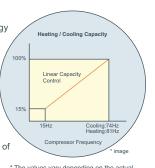
Using inverter driven technology saves energy for several reasons:

The compressor varies its speed to match the indoor cooling or heating demand and therefore only consumes the energy that is required.

When an inverter driven system is operating at partial load, the energy efficiency of the system is significantly higher than that of a standard fixed speed, non inverter system.

The fixed speed system can only operate at 100%, however, partial load conditions prevail for the majority of the time. Therefore fixed speed systems cannot match the annual efficiencies of inverter driven systems.

Using proven single inverter driven compressor technology, the CITY MULTI range is favored by the industry for low starting currents (only 8 amps for a 16HP YJM-A outdoor unit), and smooth transition across the range of compressor frequencies.



* The values vary depending on the actual conditions such as ambient temperature.

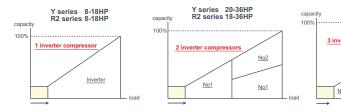
Y series 38-50HP

All CITY MULTI compressors are inverter-driven type. -Capable of precisely matching a building's cooling and heating demands.

The outdoor unit combinations comprise 1 unit for 8-18HP systems (for Y and R2 series), 2 units for 20-36HP systems (for R2, 18-36HP) and 3 units for 38-50HP systems (Y series only). Each unit carries one inverter compressor making simple and highly reliable control possible.

Not only does it allow low starting currents, the inverter-driven compressor also provides precise indoor comfort and adapts to the air conditioning load.

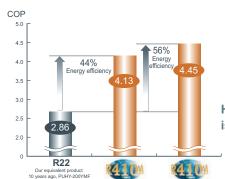
Stable and smooth operation





Total Energy Conservation

Comparison of COP (energy efficiency) – 8HP system



High COP (Coefficient of Performance) is realized

is realized

* Average COP of cooling / heating

Intelligent Power Module (IPM) Technology

The YJM-A range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology it is possible to closely match the building requirements, achieving more accurate control of the occupied space. By using incremental 1Hz steps of capacity control, the amount of power input required is significantly reduced, resulting in greatly improved COP's.

In addition, IPM technology ensures effective performance under partial load conditions, a condition that most systems will be in for the majority of the normal working life cycle. By taking account the efficiency at both part load, and peak load conditions, R410A CITY MULTI is designed to provide unbeatable year round/seasonal efficiency.

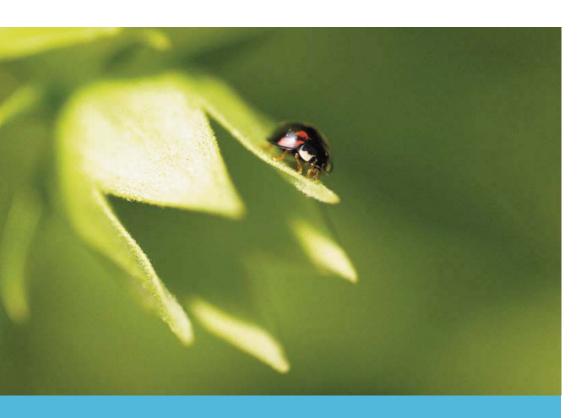
The difference between YJM-A and previous Mitsubishi Electric models

Technology is key when increased efficiency is demanded.
The CITY MULTI YJM-A range is able to deliver this in simple ways.

A highly efficient R410A scroll compressor design results in less friction losses at the motor. A simplified refrigerant circuit (low pressure loss) including a new accumulator design also adds a few more points to the efficiency scale. Enhancements to the heat interchange circuit, an inverter driven fan motor and a heat exchanger design again add vital increases to overall system efficiencies and COPs.

The importance of COP

COP stands for "Coefficient of Performance". It is a measure of the useful energy a system can deliver compared to the energy it consumes. It is calculated by dividing the energy output by the energy input of a system. The higher the figure then the more efficient the system is deemed to be. Mitsubishi Electric VRF models, the world's highest energy-efficient air-conditioners, will undoubtedly reduce millions of tons of CO₂ emissions.



For the Environment

Enhancing environmental care (measures for the RoHS Directive and the refrigerant reduction)

Every unit is in compliance with the RoHS Directive,* which stands for the Restriction of Hazardous Substances:

Lead-free soldering is used to avoid Lead Groundwater Contamination on the print board. The amount of refrigerant on the unit has also been reduced to enhance environmental care.

* RoHS Directive: the restriction of the use of certain hazardous substances in electrical and electronic equipment that has been sold in EU since July 2006





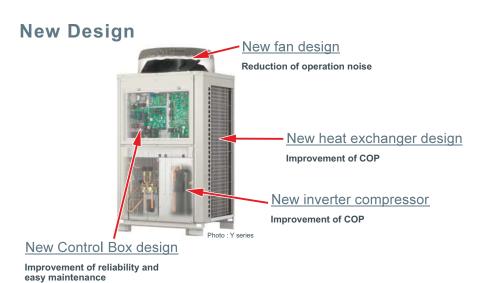
History of refrigerant

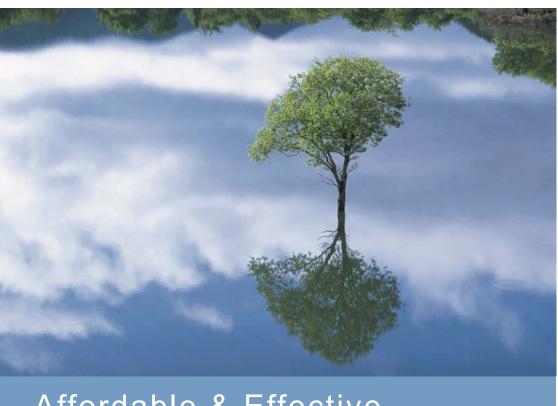
R22, an HCFC-based refrigerant, has been a popular choice for most chillers. R22 has been targeted by the Montreal Protocol to be phased out in new equipment. Additionally, governments in many countries are enforcing a ban of HCFC-based refrigerants for new installations.

Because of these restrictions, R410A refrigerants are desirable. R410A is a blend of HFCs, which do not deplete the ozone.

Technical aspects of refrigerant

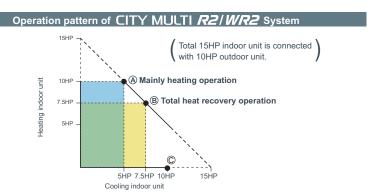
R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and environmental requirements in the design, manufacture, installation, operation, maintenance and disposal or refrigerating systems.





Affordable & Effective air conditioning you can rely on

By the heat recovery system, the more frequently cooling and heating simultaneous operation is carried out, the higher energy-saving effect becomes.

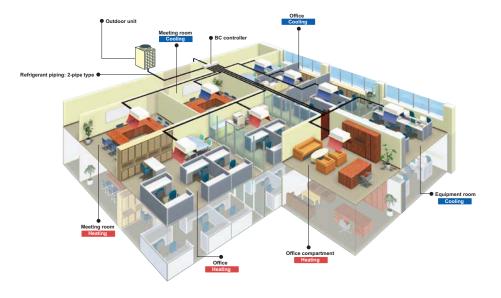


Unique technology

Unique to Mitsubishi Electric, our heat recovery technology uses just two pipes, as opposed to the market conventional three. Designed for effective simultaneous heating and cooling our R2 and WR2 systems offer substantial savings on installation and annual running costs.

Why Heat Recovery?

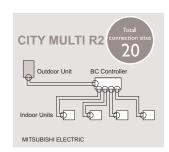
Flexibility and efficiency are key factors when selecting a heat recovery system. For example, while a heat pump system is adequate for a large open-plan office, an office that has a more partitioned structure will require the need to simultaneously heat or cool different sections of the office according to each user's individual preferences. The efficiency of this type of system comes from the ability to use the by-products of cooling and heating to transfer energy where it is required, thus acting as a balanced heat exchanger achieving up to 20% cost savings over a conventional heat pump system. The number of connection sites needed for a R2 / WR2 system are also significantly lower than those needed for a three pipe version. This helps to reduce installation costs, further increasing the savings associated with CITY MULTI.

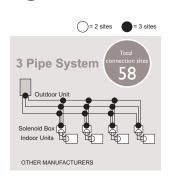




"2-pipe" system provides Better Efficiency and Performance

Comparison example of piping connection sites





he world's first and the only "2-pipe" system

How does the R2/WR2 Heat Recovery System operate on 2 Pipe's?

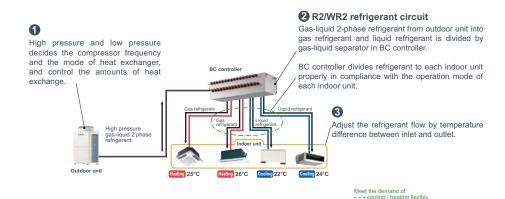
The secret of CITY MULTI heat recovery systems lies in the

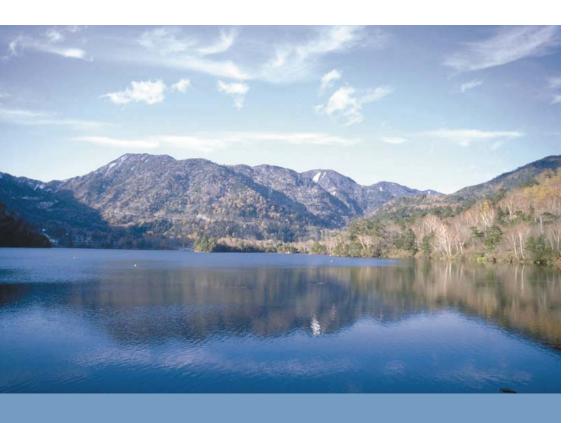
BC Controller

The BC Controller houses a liquid/gas separator, allowing the outdoor unit to deliver a mixture (2 phase) of hot gas for heating and liquid for cooling, all through the same pipe. Three pipe systems allocate a pipe to each of these phases. When this mixture arrives at the BC Controller, it is separated and the correct phase delivered to each indoor unit depending on the individual requirement of either heating or cooling.









Water Cooled CITY MULTI Benefits

Water cooled systems are ideally suited for use in temperate and cooler climates since heat exchange with the outside air is not required.

Water cooled systems can be used even in buildings that are taller than 50m by running a main water pipe through each floor.

Any heat source system that can supply heat source water between 10°C~45°C can be used.

Simultaneous heating and cooling operation is available. (WR2 series)

- It is suggested that Water-Cooled systems are used in the buildings in which there are heating and cooling needs as follows.
- Buildings that require all year cooling Example.
- Tenant buildings in which kitchens and offices exist together
 Buildings in which equipment rooms and offices exist together
- Buildings in which there are large room temperature differences between sunny and unsunny rooms
 Hotels in which there are a lot of individual operation need

Energy Saving Technology

What is Water-Cooled?

>A unique offering from Mitsubishi Electric

It is possible now to combine the features of VRF with a water circuit using CITY MULTI WR2/WY. In this case the heat is rejected to a water source rather than to the outside air.

The advantages of water cooled systems are that the water can be delivered at optimised temperatures and volumes, which allows even greater flexibility and increased COP.



WR2(Heat recovery type)

Mitsubishi Electric now offers double heat recovery operation.

The first heat recovery is within the refrigerant system. Simultaneous cooling and heating operation is available with heat recovery performed between indoor units.

The second heat recovery is within the water loop, where heat recovery is performed between the PQRY units. This double heat recovery operation substantially improves energy efficiency and makes the system the ideal

solution to the requirements of modern office buldings, where some areas require cooling even in winter.

Meeting room
Heating

BC controller

Heat source unit

BC controller

Water piping

BC controller

Heat source unit

BC controller

Heat recovery (WR2)

Indoor units

Refrigerant Circuit



Remote Controller

Individual Remote Controller

Centralized Remote Controller

The importance of control

The need for control is paramount in order to optimise the performance of any air conditioning system and minimize its running costs. Mitsubishi Electric offers a wide range of control options designed to meet such needs.

Operating an air conditioning system without the right control can prove costly. It's therefore important to ensure that every system is correctly specified to the degree of control it requires. Mitsubishi Electric have a wide range of controls available 'off-the-shelf' and individual control systems can be specifically designed to match.

Good controls will benefit any application, large or small. Air conditioning products need to react to a variety of factors: different room sizes, usage and staff levels; changes in the climate; electronic equipment and lighting ...the list goes on. So whatever the application, optimum control of air conditioning systems is essential and will result in a constant, comfortable environment, which in turn is both energy and cost efficient.

A degree of difference

When an air conditioning system is not properly controlled, it will not run as efficiently as it should. For every degree that the system deviates from the required temperature, energy costs can rise by up to 5%. Specify one of the many control options from Mitsubishi Electric to ensure air conditioning works as intended, whilst giving the optimum amount of control.

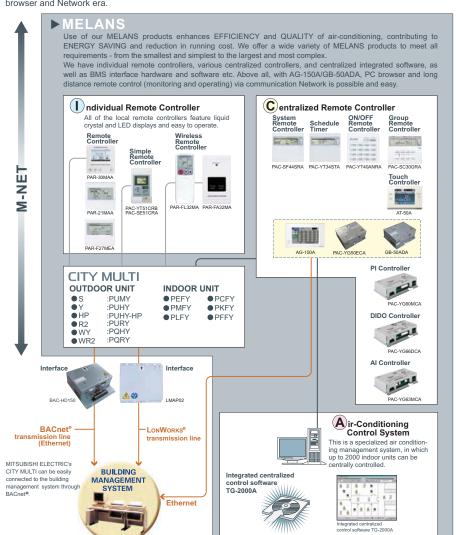
The simpler, the better

With the array of comprehensive control systems available from Mitsubishi Electric, it becomes simple to design and install air conditioning systems. From a simple hand-held controller to a AG-150A system - you are in control.



System Controller

MITSUBISHI ELECTRIC's Air-conditioner Network System (MELANS) leads air conditioner management a PC browser and Network era.



Integrated Communications Control with Mitsubishi's Unique Transmission Network (M-NET)

		Local	remo	te cont	roller	*10					Syster	n con	trolle	r				*10
Model	PAR- 30MAA	PAR- 21MAA	PAR- F27MEA	PAC- YT51CRB	PAC- SE51CRA	PAR- FL32MA	PAC- YT40ANRA	PAC- SC30GRA	PAC- SF44SRA	PAC- YT34STA	AT-50A	AG-		AG-1	50A+ G50ECA	GB-	0ADA	TG-2000A
Controllable Groups / Indoors (Group / Indoor) 6	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	8 / 16	50 / 50	50 / 50	50 / 50		50 Browser'4	-	/ 150 Browser'4		/ 50 Browser'4	2000 / 2000
■Operating																		
ON / OFF	0	0	0	0	0	0	0	0	0	0	0	⊚ ■	⊚ ■	□	O I	A	⊚ ■	◎ ■
Mode (cool / heat / dry / fan)	0	0	0	0	N	0	N	0	0	N	0	O I	□ ■ □	O I	O I	N	◎ ■	◎ ■
Temperature-set	0	0	0	0	0	0	N	0	0	N	0	O I	O I	O I	O I	N	⊚ ■	◎ ■
Local Permit / Prohibit	N	N	N	N	N	N	N	N	0	0	0	O I	O I	O I	O I	N	0	◎ ■
Fan speed	0	0	0	0	0	0	N	0	0	N	0	O I	○ ■	□	O I	N	⊚ ■	◎ ■
Air-flow direction	0	0	0	N	N	0	N	0	0	N	0	O I	□ ■	O I	O I	N	◎ ■	◎ ■
■Status monitoring																		
ON / OFF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0
Mode (cool / heat / dry / fan)	0	Ō	ō	0	Ō	0	N	Ō	ō	N	Ō	Ō	ō	0	Ō	N	Ō	0
Temperature-set	0	Ō	Ô	ō	ŏ	0	N	ō	ō	N	Ŏ	Ŏ	ŏ	ŏ	ŏ	N	Ŏ	0
Local Permit / Prohibit	ō	Ō	ō	Ō	ō	0	0	Ō	ō	0	Ö	ō	ō	ō	ō	N	Ō	0
Fan speed		Ö	0	ŏ	ŏ	ŏ	N	ŏ	ŏ	N	ŏ	ŏ	 	ŏ	ŏ	N	ŏ	0
Air-flow direction	-	0	0	N	N	0	N	0	0	N	0	0	0	0	0	N	0	-
Indoor temperature	-	0	0	N	N	N	N	0	N	N	0	0	8	0	6	N	6	0
	0	0	0	N	N	N	N	0	O	N	0	0	0	0	0	N	8	0
Filter sign	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	IN .	8	0
Error flashing																		
Error code	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0	N	0	0
Operation hour	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	•
■Scheduling							1											
One-day	0	0	0	N	N	N	N	N	N	N	0	•	•	•	•	N	•	•
Times of ON / OFF per day	1	8	1/1	N	N	1/1	N	N	N	16	16	24	24	24	24	N	24	24
Weekly	0	0	N	N	N	N	N	N	N	0	0	0(•)	0(•)	0(0)	0(•)	N	0(•)	○(●)
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	N	N	N	N	16 x 7	16 x 7	24 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7	24 x 7
Annual	N	N	N	N	N	N	N	N	N	N	N	•	•	•	•	N	•	•
Optimized start-up	N	N	N	N	N	N	N	N	N	N	N	0	0	0	0	N	0	0
Auto-off timer	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Min. timer setting unit (minute)	5	1	10	N	N	10	N	N	N	5	5	1	1	1	1	N	1	1
■Recording																		
Error record	0	N	l N	N	N	N	N	0	0	N	0	0	0	0	0	N	0	0
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0
Electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	•
■Other																		
Temp-set limitation by Local R / C	0	0	10	0	N	N	N	N	l N	l N	N	N	l N	l N	N	l N	l N l	N
Temp-set limitation by System controller *4	0 %		 	0 %	0.7	N	N	N	Δ	N	0.6	N	0.2.6	N	0.5.6	N	O*2*6	© *6
Auto-lock	0	0	0	N	N	N	N	N	N	N	0	N	N	N	N	N	N	N
Night setback		N	N	N	N	N	N	N	N	N	0	0	02	0	0'2	N	O*2	0
Sliding temperature control	N	N	N	N	N	N	N	N	N	N	N	0	02	0	02	N	0*2	-
			IN	IN	IN	IN	IN	IN	IN .	IN	IN		0-			IN		
■Management (Group / Int			la co	LNIG	N /O	L		LNIO					1010	1 0	1010	L	1010	010
Ventilation interlock		N/O		N/O		N	0	N/O	0	0	0		0/0	0	0/0		010	0/0
Group setting	0 "1	0 1	0	0 4	0	N	0	0	0	0	0	0	02	0	O*2	N	O*2	0
Block setting	N	N	N	N	N	N	N	N	N	N	N	0	02	N	02	N	O*2	0
Revision of electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
■Operating on LOSSNAY i																		
ON / OFF		N/O					⊘ / ⊙ *³	N/©		0/0	@/@							
Fan speed	N/O	N/O	N	N	N	N	N	N	0/0	N							0/0	0/0
Ventilation mode		N/N	N	N	N	N	N	N	⊚/N	N	⊚/ N	@/N	@/N	@/N	@/N	N/N	@/N	O/ N
■Status monitoring on LOS	SSNAY	interlo	cked (C	Group /	Interlo	cked)												
	NIO	N/O	N .	N	N	N	N	N/O	0/0	010	0/0	0/0	0/0	0/0	0/0	A/A	0/0	0/0
ON / OFF	N/O																	
ON / OFF Fan speed	N/O	N/O	N	N	N	N	N	N/O	0/0	N	0/0	0/0	0/0	0/0	0/0	N/N	0/0	0/0

- 1. Group setting via wiring between Indoor units with cross-over cable;
 2. Installation possible at Initial setting web browser;
 3. Inter-lock is set at Local remote controller.
 4. AG-150A/065-90AD Incense registration to AG-150A/0B-50ADA is required to monitor and operate the units by browser and TG-2000A.
 5. AG-150A connected with PAC-YG50ECA is compatible with TG-2000A Ver.6.1* or later. GB-50ADA is compatible with TG-2000A ver.6.3* or later.
 6. This function can be set only on the ME/Simple ME remote controller. This function cannot be used with the MA/Simple MA remote controller.
 (But, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and there are possibilities that this function can be used with them.)

 7. This function can be set of the MA/Simple MA remote controller of Rep.FAGADA.

Individual **Remote Controller**

Wired MA remote controller PAR-30MAA





1 3 V

[Advanced Functions]

- Error information Timer
- Operation lock
- Temperature range restriction
- Language selection

Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

Full-dot LCD display with large characters for easy viewing Contrast also adjustable

Function to return the set temperature to the originally preset temperature after certain amount of time

Auto return can be set respectively for cooling operation and for heating operation.

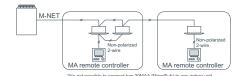
Time can be set to a value from 30 and 120 in 10-minute

Night Setback

To prevent indoor dew or excessive temperature rise, this control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit tempera-

• Dimensions: 120(W) x 120(H) x 19(D) mm

Example of system configuration

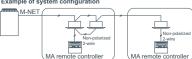






Wired MA remote controller PAR-21MAA





characters

Various information is displayed and conveyed clearly, enabling more accurate operation of the air conditioner.

Dot Liquid Crystal Display (LCD) The dot liquid crystal display enables quick

understanding of the operation state.

Multi-language Display

In addition to English, contents can be displayed in seven other languages.

New display-Larger, easier-to-see

ÄHEAT O DRY \$\$FAN

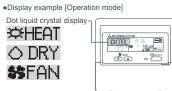
 Dot matrix liquid crystal screen • Set temperature in 1°C/°F increment

• Limit set temperature (upper/lower)

• Dimensions: 130(W) x 120(H) x 19(D) mm

Weekly timer

of malfunction



Up to 8 ON/OFF/temperature setting per day in 1 minute increment. Setting kept in nonvolatile memory. No need to worry about re-setting at power failure.

· Room temperature control with thermostat sensor inside the

 Restrict setting changes (all changes/all except ON/OFF) \bullet Self-diagnosis function immediately informs error code in case

: 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

•Display example [Cool mode]

[English]	[German] Çikühle ri	[Spanish]	[Russian] ÇX0,101
[Italian]	[Chinese]	[French] ≰`≱FR∏∏	[Japanese

Multi-language Display Example [Dot display table]

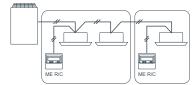
Langi	iane	English	German	Spanish	Russian	Italian	Chinese	French	Japanese
Waiting for start-u		PLEASE WAIT	←	←	←	←	←	←	←
Operation mode	Cool	©*COOL	© Kühlen	© FRÍO	ФХолол	*C*COOL	◎割冷	©FROID	心冷層
	Dry	♦ DRY	⊙Trocknen	ODIFICACION	⊖Сушка	○ DRY	○徐湿	○DESHU	○ ドライ
	Heat	₩HEAT	⇔Heizen	\$\$(ALOR	⇔ Тепло	☆HEAT	章制热	\$ (HAUD	淬暖房
	Auto	₽₽AUTO	1:TAUTO	↑→AUTO- ←↓MÁTICO	2-1Авто	∷AUTO	其自动	∷AUTO	≒自動
	Auto(Cool)	##COOL	‡‡Kühlen	₽ĴFRÍO	₽‡Холол	₽₽COOL	其制冷	‡‡FROID	11净房
	Auto(Heat)	₽₽HEAT	₽⊒Heizen	‡‡(ALOR	‡;;Тепло	₽₽HEAT	算制热	‡‡(HAUD	≒職房
	Fan	\$\$ FAN	\$\$ Lüfter	UENTI-	\$\$ Вент	Q DUENTI DLAZIONE	籌送風	S VENITI LATION	粉送風
	Ventilation	级 VENTI	##Gebläse	302FUCION	же Венти- же ляция	SE ARIA	302换气	382LATION	382换5
	Stand by (Hot adjust)	STAND BY	STAND BY	CALEMTAMDO	Овогрев: Пауза	STAND BY	准备中	PRE CHAUFFAGE	準備中
	Defrost	DEFROST	Aktaven	DESCONGE - LACIÓN	Оттаивание	SBRINA MENTO	除霜中	DEGIVRAGE	霜取中
Not use button		NOT AVAILABLE	nicht Verfusbar	NO DISPONIBLE	НЕ ДОСТУПНО	HOM DISPONIBILE	无效按钮	NON OISPONIBLE	無効制ツ
Check (Error)		Снеск	Prüfen	COMPROBAR	Проверка	CHECK	检查	CONTROLE	点検
Test run		TEST RUN	Testbetrieb	TEST FUNCIO NAMIENTO	Тестовый запуск	TEST RUN	试运转	TEST	試ウンテン
Self check		SELF CHECK	selbst - diaanose	AUTO REVISIÓN	Еамодиаг- ностика	SELFCHECK	自我诊断	QUTO CONTROLE	1833/9 5
Unit function sele	ction	FUNCTION SELECTION	FUNKTION SAUSWANI	SELECCIÓN DE FUNCIÓN	Вывор ФУНКЦИИ	SELEZIONE FUNZIONI	功能选择	SELECTION FONCTIONS	もノウ選択

Individual **Remote Controller**

Wired ME remote controller PAR-F27MEA



Example of system configuration



- This remote control requires non-polar wiring to only one indoor unit.
- Group operation over multiple outdoor units is possible. Grouping can be changed without re-wiring, which makes dividing rooms for tenants easier.
- Timer operation
- *Daily timer operation of one ON/OFF setting everyday *Auto-off timer: 0:30, 1:00, 1:30, 2:00...4:00
- *The setting is kept in nonvolatile memory. • Function lock

All functions or all functions except ON / OFF can be selected.

- Set temperature range limit
- Interlock setting and operation of LOSSNAY
- Dimensions:130(W) x 120(H) x 19(D) mm
- :5-1/8(W) x 4-23/32(H) x 3/4(D) in.
 LCD temperature setting and display in 1°F increments.

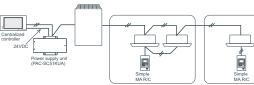
Simple remote controller PAC-YT51CRB (MA)





- Control: START/STOP, room temperature, fan speed, and operation mode
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- LCD temperature setting and display in 1°C /1°F incre-
- Set temperature range limit
- Can operate all types of indoor units
 *Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.
- Dimensions:70(W) x 120(H) x 41(D) mm :2-3/4(W) x 4-23/32(H) x 1-5/8(D) in.

Example of system configuration



Wireless remote controller PAR-FL32MA / PAR-FA32MA

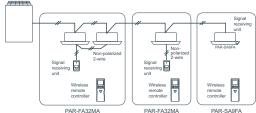


PAR-FL32MA

PAR-SA9FA

possible.

Example of system configuration



	receiver	transmitter
PMFY-P VBM PLFY-P VCM/ VLMD PCFY-P VKM PFFY-P VKM PEFY-P VMR-E-L/R/ VMH PFFY-P VLEM/VKM/VLRM/VLRMM PEFY-P VMS1(L) PEFY-VMA(L)	PAR-FA32MA	PAR-FL32MA
PLFY-P VBM-E	PAR-SA9FA-E	
PKFY-P VBM-E PKFY-P VHM/VKM	Built-in	

- No need to configure addresses for group operation.
- · Lit LED keeps you informed of operation blinking even gives you the error code via the number of blinks
- Can be used with the MA remote controller.
- *When used in group configurations, wiring between indoor units is required. *Combining ME remote controller and/or LOSSNAY remote controller in a group is not
- LCD temperature setting and display in 1°C
- Dimensions:58(W) x 159(H) x 19(D) mm :2-5/16(W) x 6-5/16(H) x 3/4(D) in.

Advanced **Touch Controller**

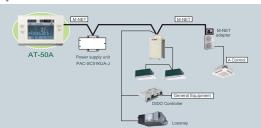
With our new Advanced Touch Controller AT-50A, easy and simple operation on the touch panel offers an optimal air environment for individual unit.





Dimensions: 180(W) x 120(H) x 30(D) mm : 7-2/16(W) x 4-12/16(H) x 1-3/16(D) in.

System structure



New Design

Backlit LCD (Liquid Crystal Display) Touch Panel

5-inch color LCD touch panel enables easy and simple operation.

The backlight lights up when the panel is touched, and lights off after certain period of time. The touch panel displays the operation status of the units in GRID, LIST or in GROUP.





LIST screen Displays the detailed operation status of each group with group name.



Displays the detailed operation status of each group.

New Functions

Three in One

The following three features are integrated into AT-50A.

Control up to 50 indoor units from one location

- A weekly programmable timer, being able to control up to
- Control up to 50 units/50 groups of air conditioners

Weekly and daily schedule

5 patterns of one day and 12 patterns of weekly schedule (16 settings max. per pattern).

Two types of weekly schedule can be set.

System changeover

Operation mode can be switched depending on indoor temperature setting and target temperature of each group or a representative indoor unit.

Functions [Basic Functions]

- ON/OFF Operation mode switching
- Temperature setting
 Fan speed setting
- Airflow direction setting
 Louver setting

Night setback function

This function allows having a two-temperature setting to keep the desired room temperature when the units are not in operation and during the time this function is effective. The unit automatically starts heating (cooling) operation when the temperature drops below (rises above) the preset lower (upper) limit temperature. This is not only for comfort environment, but also for saving energy.

Main system controller/Sub system

AT-50A can be set to Sub System controller. When connecting multiple system controllers, designate the system controller with many functions as the "Main", and set the system controllers with few functions as the

Simple button arrangement

The F1 (Function 1) and the F2 (Function 2) button can be set as a run button of the following collective operation. (Setback/Schedule/Operation Mode/Temperature Correction/Remote Controller Prohibition)

Advanced Functions

	☐: Each unit ☐: Each group ☐: Group or collective	X: Not ava	ailable	
Item	Description	Operations	Display	
Permit / Prohibit	The ON/OFF, operation mode, setting temperature and filter sign reset operations using the local remote controllers can be prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group.	0	0	
Operation lock	The operation lock can be set to the input operation of AT-50A. Each button can be set, (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel) Each function can be set, (Operation mode, Setting temperature, Fan speed, Menu button) The password for the lock release can be set.	0	0	
Error display	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. *When an error occurs, the *ONOFF* LED flashes. The operation monitor screen show abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	x	_o	
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	0	0	
Ventilation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. The mode cannot be changed. The LED will turn ON during operation after interlocking.	0	0	
Temperature-set limitation	Batch-setting to temperature range limit at cooling, heating, and auto mode. This function cannot be used with the MA remote controller. (Depends on the indoor unit model.)			
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/ heating prohibit)	When set as the main controller, operation of the following modes with the local remote controllers can be prohibited. When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen.		0	
External input (Emergency stop input, etc.)	The following input with level signals or puble signals are available. Level signal: "Emergency stop input" or "Collective ONIOFF" To einput can be selected from those above. An external input/output adapter (PAC-YT41HAA (sold separately)) is required. Relays and DC power supply or orther devices must be prepared at the site.		0	
External output (Error output, operation output)	"ON/OFF" and "error/normal" are output with the level signal. "An external input/output adapter (PAC-YT41HAA (sold separately)) is required. Relavs and DC ower suppoly or other devices must be repeared at the site.		0	
Checking the Gas Amount	Use this function to check for refrigerant leak from the outdoor unit. *When this function is used, the gas amount checking function of the outdoor unit cannot be used. This function is for CITY MUIT RZ and Y PUMIY is excluded, I series only.			
Schedule operation	Inis function is for CITY MULTIFIC and Y (FUMY is acknowled), Series only. Weekly schedule setting up to 12 pattern is available. In one pattern, up to 16 setting of "ONOFF," "Operation mode", "Set Temperature", "Fan speed", "Air flow direction" and "Permit / Prohibil local operation" can be scheduled.			

Centralized Remote Controller

One system controller can control up to fifty indoor units from one location. The PAC-SF44SRA also has hardwired connection available (On/Off input, fire alarm input, run output, fault output).

System remote controller PAC-SF44SRA

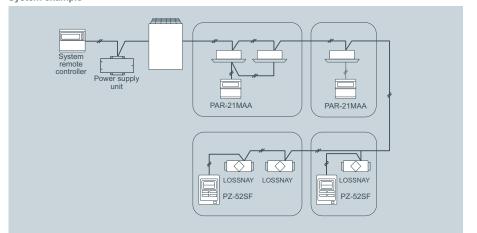


- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed.
 The power can be supplied from one outdoor unit (R410A) or Power supply unit.

System Controller			
FUNCTION	DESCRIPTION	PAC-SF	44SRA
UNITS	Max No.Units	50 units/	50 group
		Operation	Displays
ON/OFF	Run and stop operation	~	~
MODE SELECTION	Switches between Cool/Dry/Auto/Fan/Heat. Operation Mode will vary depending on the indoor unit. Auto mode is available with only R2 and WR2 systems	~	~
TEMPERATURE SETTING	Sets the groups temperature control. Values in parentheses are for the medium-temperature indoor unit. Cool/Dny:19-30°C [14-30°C] / 67-87°F [57-87°F] Heat :17-28°C [17-28°C] / 63-83°F [63-83°F] Auto :19-28°C [17-28°C] / 67-83°F [63-83°F]	~	~
FAN SPEED SETTINGS	Models with 4 air flow speed settings: HiMid-2Mid-1Lcw Models with 3 air flow speed settings: HiMidLow Models with 2 air flow speed settings: HiLcow Fan speed setting (including Auto) varies depending on the model.	~	~
AIR FLOW DIRECTION SETTING	Air flow angles: 4-angle or 5-angle, Swing, Auto, Louver ON/OFF	~	~
PERMIT/PROHIBIT FUNCTION	Run/Stop,Temperature Setting,Mode Selection and Filter Reset functions can be prohibited.	~	~
ERROR INDICATION	Displays a 4 digit code and the affected unit address	-	~
VENTILATION INTERLOCK	Allows the group to be interlocked with a heat recovery Lossnay unit	~	~
EXTERNAL INPUT	On/Off/Fire Alarm	~	-
EXTERNAL OUTPUT	On/Off/Faults	_	~

* Dimensions:130(W) x 120(H) x 19(D) mm :5-1/8(W) x 4-23/32(H) x 3/4(D) in.

System example



Mitsubishi Electric controllers are complimented by a weekly programmable timer, being able to control up to fifty indoor units. The PAC-YT34STA also has hardwired connection available (On/Off input, fire alarm input, run output, fault output).

Schedule timer PAC-YT34STA



- The schedule group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed.
- The power can be supplied from one outdoor unit (R410A) or Power supply unit.

Programmable Timer							
FUNCTION		DESCRIPTION	PAC-Y	T34STA			
UNITS		Max No.Units	50 units/	50 group			
			Operation	Displays			
ON/OFF		Run and stop operation	~	~			
SCHEDULE FUNCTION	Content	On/Off Mode:Cool/Heat/Auto Set temperature:19°C to 28°C [67°F to 83°F] Operation Prohibit: On/Off, Mode, Set temperature	~	~			
	Number	Weekly timer for each group 9 setting patterns + no setting 16 operations per day	~	~			
	Unit	5 minutes	-	-			
CURRENT TIME		Set the time		~			
ERROR INDICATION		Displays a 4 digit code and the affected unit address	-	~			
EXTERNAL INPUT		On/Off/Fire Alarm	/	-			
EXTERNAL OUTPUT		On/Off/Faults	-	~			

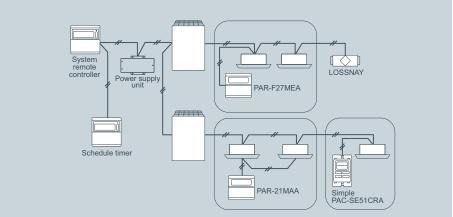
EXTERNAL INPUT On/Off/Fire Alam

EXTERNAL OUTPUT On/Off/Faults

Dimensions:130(W) x 120(H) x 19(D) mm

:5-1/8(W) x 4-23/32(H) x 3/4(D) in.

System example



Centralized **Remote Controller**

Just press a switch to start. All of the units can be On/Off by pressing the main switch, and each unit in the group can be On/Off with individual switch. The PAC-YT40ANRA also has hardwired connection available (On/Off input, fire alarm input, run output, fault output).

ON/OFF remote controller PAC-YT40ANRA

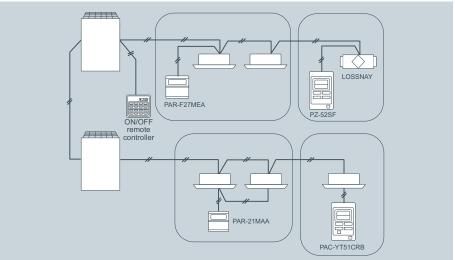
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FUNCTION	DESCRIPTION	PAC-YT	40ANRA
UNITS	Max No.Units	50 units/	16 groups
		OPERATIONS	DISPLA
ON/OFF	Run and stop operation	/	/
	LED flashes during failure.		
ERROR INDICATION	(The error code can be confirmed by removing	-	/
	the cover.)		
VENTILATION OPERATION	Group operation of only LOSSNAY units possible.	/	
(INDEPENDENT)	*Only ON/OFF of group.		
	The LOSSNAY will run in interlock with the		
VENTILATION OPERATION	operation of indoor unit.	,	,
(INTERLOCKED)	*The fan rate and mode cannot be changed.	/	
	The LED will turn ON only during operation after interlocking.		
EXTERNAL INPUT	On/Off/Fire Alarm	/	-
EXTERNAL OUTPUT	On/Off/Faults	-	/

- sions:130(W) x 120(H) x 19(D) mm :5-1/8(W) x 4-23/32(H) x 3/4(D) in.
- The group setting is kept in nonvolatile memory. No need to worry about re-setting at
- No individual AC power supply is needed. The power can be supplied from one outdoor unit (R410A) or Power supply unit.

power failure.

System example



Up to 8 groups can be operated (maximum of 16 units). Just by pressing PAC-SC30GRA switches, groups can be On/Off as a batch.
Suitable for small office and residential project.

Group remote controller PAC-SC30GRA



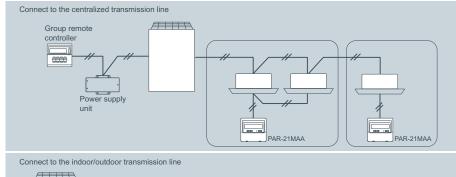
- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed.

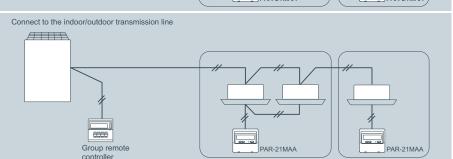
 The power can be supplied from one outdoor unit (R410A) or Power supply unit.

FUNCTION	DESCRIPTION	PAC-S	C30GRA
UNITS	Max No.Units	16 units /	8 groups
		OPERATIONS	DISPLA
ON/OFF	Run and stop operation	/	/
MODE SELECTION	Switches between Cool/Dry/Auto/Fan/Heat. Operation Mode will vary depending on the indoor unit. Auto mode is available with only R2 and WR2 systems	~	/
TEMPERATURE SETTING	Sets the groups temperature control. Cool/Dry:19-30°C Heat:17-28°C Auto:19-28°C	~	/
FAN SPEED SETTINGS	4 speed – Hi-Mid2-Mid1-Low, Auto 3 speed – Hi-Mid-Low, Auto 2 speed – Hi-Low	/	/
AIR FLOW DIRECTION SETTING	Air flow angles: 4-angle or 5-angle, Swing, Auto, Louver ON/OFF	/	/
PERMIT/PROHIBIT FUNCTION	Run/Stop,Temperature Setting, Mode Selection and Filter Reset functions can be prohibited via main system controller	-	/
INDOOR RETURN AIR TEMPERATURE	Measures the intake temperature of the master unit within the group	_	/
ERROR INDICATION	Displays a 4 digit code and the affected unit address	-	/
VENTILATION INTERLOCK	Allows the group to be interlocked with a heat recovery Lossnay unit	/	/

:5-1/8(W) x 4-23/32(H) x 3/4(D) in.

System example





Centralized Remote Controller

With a new colored touch panel, and continuation of all the G-50A functions, AG-150A visualizes its functions from basic control to advanced operations and bringing an ultimate controller to reality.

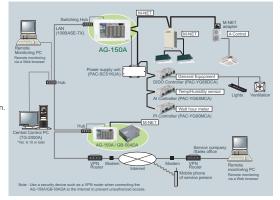
Centralized controller AG-150A



Dimensions: 300(W) x 185(H) x 70.3(D) mm : 11-13/16(W) x 7-5/16(H) x 2-13/16(D) in.



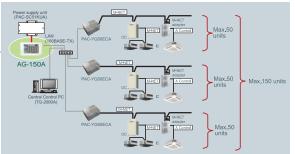
System structure



Dimensions: 250(W) x 217(H) x 97.2(D) mm 9-7/8(W) x 8-9/16(H) x 3-7/8(D) in

With a connection of a Expansion Controller, maximum of 150 units/groups can be connected to AG-150A.

System structure



*Do not connect PAC-YG50ECA to TB3 of the outdoor unit. *Use a security device such as a VPN router when connecting the AG-150A etc. to the Internet to prevent unauthorized access.

New Design

Backlight color liquid crystal

Backlight makes it easy to see and control units.

One can identify whether a unit is ON or OFF from a

Control in the night with no lights is possible.

Touch panel 9 inch wide, high-resolution

Touch panel enables operation of units by touching with When object unit is touched, orange box appears around

the unit icon indicating the unit selected.

Flat back

Easy installation

Allows for an installation of the unit either directly to the wall surface or using the installation hole in the wall.

USB memory compatible
All measurement/initial setting CSV data extractable with USB memory.
Can save and overwrite setting data.

New Functions

Controllable units/groups

Controls up to 50 units/groups (including indoor units, LOSSNAY, DIDO/AI/PI controller) Up to 150 units can be controlled via expansion controller;PAC-YG50ECA (AG-150A software needs to be upgraded)

Monitoring functions

Temperature/Humidity (using Al controller with WEB

General equipment such as lights on LCD (using DIDO controller)

Interlock function from Al controller, DIDO controller to indoor units and between DIDO units are available. AG-150A interlock with DIDO controller or free contact on an indoor unit available. * Ver. 2.30 or later

Energy saving functions

*1 License required.

Seasonal scheduling and automatic switch over *1
Yearly scheduling on LCD *1
Scheduling fan speed and airflow direction Optimized Start up *1 External temperature interlock control *1 Night setback control *1

Functions

unctions			
	□ : Each unit ○ : Each group ● : Each block △ : Each floor ◎ : Collec	tive X:Not a	vailable
Item	Description	Operations	Display
Controllable unit	50 units/groups or 150 units/groups via expansion controller; PAC-YG50ECA.		
ON/OFF	Run and stop operation for the air conditioner units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	$\bigcirc \bigcirc \triangle \bigcirc \bigcirc$	00
Operation mode switching	Switches between Coal / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/normal ventilation) depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.	004	0
Temperature setting	Cool/Dry: 19°C (67°F) - 30°C (87°F) [14°C (57°F) - 30°C (87°F)] Heat: 17°C (63°F) - 26°C (83°F) [17°C (63°F) - 26°C (83°F)] Auto: 19°C (67°F) - 28°C (83°F) [17°C (63°F) - 28°C (83°F)] [] in case of using middle-temperature on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON, Yet, PEFY-P-VMH-E-F is excluded.	○ ۞ △ ●	0
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	000	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \triangle \bigcirc$	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).	0000	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	0
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	
Test run	This operates air conditioner units in test run mode.	$\bigcirc \bigcirc \triangle \bigcirc$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$\bigcirc \bigcirc \triangle \bigcirc$	0
External input/output	By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following. Input: By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output: "Start/stop", "Error/blormal"	0	0

Centralized controller GB-50ADA-J



GB-50ADA (without display) • Dimensions:250 (W) x 217 (H) x 97.2 (D) mm :9-7/8 (W) x 8-9/16 (H) x 3-7/8 (D) in.

*GB-50ADA-J is indicated as GB-50ADA.

The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer! Up to 50 indoor units can be controlled!

Web Browser

Enables monitoring and operation of indoor units using a PC with Microsoft® Internet Explorer (Ver.6 or 7 or 8) (Web browser function is an optional and needs license registration.)

*When connecting to the Internet, please use the VPN (Virtual Private

Using "Dial-up Connection"

- Enables monitoring and operation from a remote place
- Enables error notification by e-mails to a PC or to a mobile phone

Function	Description
runction	GB-50ADA (web browser)
Controllable unit	Up to 50 units/groups.
Dimensions W x H x D	250 (9-7/8) x 217 (8-9/16) x 97.2 (3-7/8) mm (in)
ON / OFF	Run and stop operation for the air conditioner units
Mode selection	Switches between Cool / Dry / Auto / Fan / Heat.
Temperature setting	Range of temperature setting CovIDD; 119-30°C [14-30°C] (67-87°F [57-87°F] Heat :17-28°C [17-28°C] (63-83°F [63-83°F] Auto :19-28°C [17-28°C] (67-83°F [63-83°F] () in case of using middle-temperature on PEFY, PEFY-VML/VMNS/VMH-by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded. **Range of temperature settings vary depending on model.
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)
Timer operation / Schedule	Annaul/Weekly (2 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.
Permit / Prohibit function	Individually prohibit operation of each local remote control function
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.
Test run	
Ventilation interlock	Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).

*NOTE: Operation and displayed content vary depending on the indoor unit mode License registration is necessary to perform each function on GB-50ADA.

System Structure



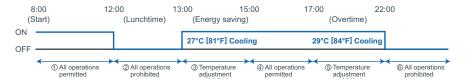
Annual / Weekly Schedule

Enables Weekly and Annual scheduling with a registering

- ON/OFF, operation mode, temperature setting, prohibit remote
- controller operation can be set.

 For annual schedule, it is possible to set 50 day-long settings up to 24 months into the future.

Scheduling example in the office



Centralized **Remote Controller**



No more PLCs are needed! No more PLCs are needed!

Our new PI controller makes it possible to perform energy saving without PLC, which is cost saving.

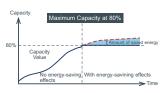
Maximum of 4 measurement meter (WHM, gas meter, water meter, calorie meter) can be connected to the PI controller and can be used also for charge calculation. *24 VDC power needs to be provided on site.

Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

Energy Saving Control

Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Save" licence is required.)

To perform energy saving, the capacity of the outdoor unit is controlled. *Please note that when using an energy saving control, there are no warranties to failures such as usage over the contracted electricity.



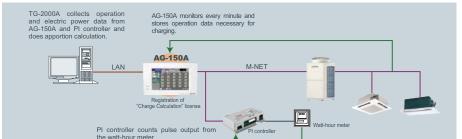
System Structure



Charge Calculation

Enables charge calculation for each tenant and output as CSV file

System Structure



Centralized **Remote Controller**



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

No more PLCs are needed!

Our new DIDO controller makes it possible to control general-purpose equipment without PLC, which is cost saving.

Up to 6 general-purpose equipment can be connected to the DIDO controller.

*24 VDC power needs to be provided on site.

General-purpose equipment Control

nitor equipment other than air-conditioners (air-conditioners of other companies, lights, ventilators, etc.) **System Structure**

- In addition to above, the air-conditioners can be interlocked with general-purpose equipment. E.g. Interlock between indoor units and security system.
- The indoor units can be turned ON/OFF when the security system is activated/deactivated.







Our new Al controller makes it possible to monitor the values measured by the temperature/humidity sensor connected to the Al controller.
The Al controller has two input and two output channels.

Temperature/Humidity Monitoring
Monitors the values measured by the temperature/humidity sensor connected to the Al controller

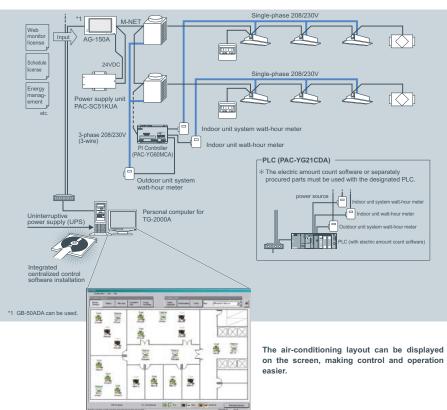
- Trend displays of measurement data can be shown on a Web browser.
- An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

System Structure



Integrated centralized control software TG-2000A

Example of Basic System Configuration



Effective use of TG-2000A

Multiple air conditioning charges in multiple buildings can be calculated. The power apportionment percentage data and apportioned power rate can be calculated for each unit, and can be output as a CSV file.



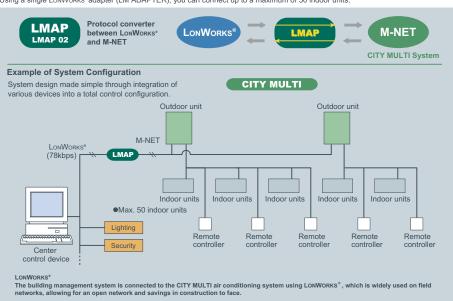
For example, installing TG-2000A to the system in the headquarters makes it possible to control AG-150A/GB-50ADA units that are used in branch offices.

LonWorks® (LMAP02)

CITY MULTI can easily combine into a Building Management System (BMS) via the LonWorks® and M-NET adapter LMAP02. LonWorks* is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LonWorks*.

One LM ADAPTER unit can connect up to 50 Groups/50 indoor units.

Using a single LonWorks* adapter (LM ADAPTER), you can connect up to a maximum of 50 indoor units.



 $\textbf{Lon, LonWorks}^{\text{\tiny{\$}}} \text{ and the Echelon logo are trademarks of Echelon Corporation registered in the United}$ States and other countries.

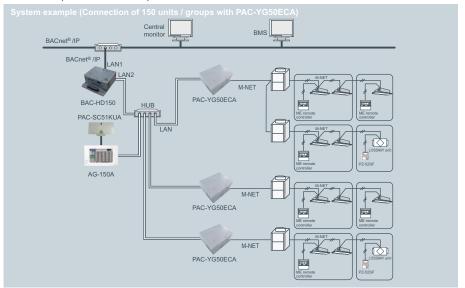
FUNCTION	CONTENT
Control	
ON/OFF	Run/Stop
Mode Operation	Cool/Dry/Heat/Auto/Fan
Setpoint Adjustment	Cooling 19-30°C [67-87°F], Heating 17-28°C, [63-83°F], Auto 19-28°C [67-83°F]
Fan Speed Control	Lo-Mi1-Mi2-Hi
Permit/Prohibit	On/Off,Mode,Setpoint
Emergency Stop	-
Monitoring	
ON/OFF	Run/Stop
Mode	Cool/Dry/Heat/Auto/Fan
Setpoint	Cooling 19-30°C [67-87°F], Heating 17-28°C, [63-83°F], Auto 19-28°C [67-83°F]
Fan Speed	Lo-Mi1-Mi2-Hi
Permit/Prohibit	On/Off,Mode,Setpoint
Alarm State	-
Room Temperature	-10-50°C [14-122°F]
Thermo ON/OFF	On/Off

BACnet® (BAC-HD150)

CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet® and M-NET adapter BAC-HD150. BACnet is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via BACnet.

BAC-HD150 can control up to 50 units/groups (including LOSSNAY).

Up to 150 units/groups (including LOSSNAY) can be controlled from one BAC-HD150 with three expansion controllers PAC-YG50ECA. (50 units/PAC-YG50ECA)



BACnet® and M-NET adapter	BACnet® and M-NET adapter							
FUNCTION	CONTENT							
Operation								
ON/OFF	Run/Stop							
Mode	Cool/Dry/Heat/Auto/Fan							
Fan Speed	Low-Mid1-Mid2-Hi							
Airflow Direction	Horizontal- 60°-80°-100°swing							
Set Temperature	Cooling 19-30°C [67-87°F], Heating 17-28°C [63-83°F], Auto 19-28°C [67-83°F]							
Filter Sign Reset	Normal/Reset							
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.							
Forced OFF	Release/Effective							
Monitoring								
ON/OFF	Run/Stop							
Mode	Cool/Dry/Heat/Auto/Fan							
Fan Speed	Low-Mid1-Mid2-Hi							
Air Direction	Horizontal- 60°-80°-100°swing							
Set Temperature	Cooling 19-30°C [67-87°F], Heating 17-28°C [63-83°F], Auto 19-28°C [67-83°F]							
Filter Sign	Normal/Reset							
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.							
Indoor Temperature	*							
Alarm Signal	Normal/Abnormal							
Error Code	2 Character code- Indicates all unit alarms							



I ndoor unit

- Ceiling cassette type 4-way airflow
- Ceiling cassette type 2-way airflow
- Ceiling cassette type 1-way airflow
- Ceiling concealed type
- Fresh Air Intake type
- Ceiling suspended type
- Wall mounted type
- Floor standing exposed
- Floor mounted concealed type
- BC controller
- **●**Lossnay

Wide selection of indoor units



Fres	h Air Intake	9		Page55 - Page56
			PEFY-P	VMH-E-F
			1	
Model	P80	P140	P200	P250



Ceili	ng suspend	ded		Page57 - Page58
		7	PCFY-	P VKM-E
Model	P40	P63	P100	P125
model				









INDOOR UNIT Ceiling cassette type 4-way airflow

PLFY-P VBM-E F-see Sensor **PLFY-P VCM-E**





PLFY-P VBM

The new 4-way cassette VBM offers 72 different airflow patterns, making it ideal for applications with ceilings up to 4.2 m (13-13/16ft) in height.



Compact body to match with 2 feets (600mm) x 2 feets (600mm) ceiling design (VCM)



Automatic Air Speed Adjustment

Auto-fan-speed mode enables speedy and comfortable heating during heating startup.

The Auto-fan-speed mode is added to the usual four steps "Low, Mid1, Mid2, High."
The Auto-fan-speed mode enables speedy and comfortable air conditioning because the air flow speeds up when starting, and air flow slows down when the air conditioning becomes stable. (PLFY-P VBM-E ONLY)



Draft-less Air Distribution

The horizontal blow mode* newly employed supplies airflow horizontally not bringing cooled/warmed air directly to occupants thus preventing discomfort sensation due to excessive cooling or direct exposing of occupants to



Wide Air Flow (PLFY-P VBM-E ONLY)

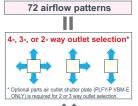
Cooling softly with Wide Air Flow Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new wide shape air outlet.



any room layout are available.



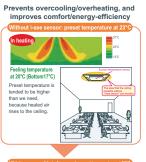
The number of outlet can be set to 4, 3, or 2. Flexible airflow is available by fixing the up-down airflow direction of the outlet with a wired remote controller (or manually)

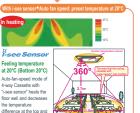


× Setting the air direction for each outlet with wired remote controller

"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

New 4-way Cassette PLFY-VBM controls the temperature difference at the top and bottom in a room by checking the floor temperature with "i-see sensor". Comfortable air conditioning can be realized smoothly with "sensible temperature control." (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)





► Specifications

				PLFY-P32VBM-E	PLFY-P40VBM-E				PLFY-P100VBM-E	PLFY-P125VBM-E				
Power:	source						240V 50Hz / 1-phas							
Cooling	capacity	, *1	kW	3.6	4.5	5.6	7.1	9.0	11.2	14.0				
O O O III I I	g oupdon;	*1	BTU/h	12,300	15,400	19,100	24,200	30,700	38,200	47,800				
Heating	q capacit	, *1	kW	4.0	5.0	6.3	8.0	10.0	12.5	16.0				
пеаші	y capacit	*1	BTU/h	13,600	17,100	21,500	27,300	34,100	42,700	54,600				
Power		Cooling	kW	0.03	0.04		0.05	0.07	0.15	0.16				
consun	nption	Heating	kW	0.02	0.03		0.04	0.06	0.14	0.15				
Current		Cooling	Α	0.22	0.	29	0.36	0.51	1.00	1.07				
Current			Α	0.14	0.	22	0.29	0.43	0.94	1.00				
Externa	al finish	Unit			Galvanized steet sheet									
(Munse	ell No.)	Panel			White (6.4Y 8.9/0.4)									
Dimension		Unit	mm(in.)		258 x 840 >	840 (10-3/16 x 33-	-8/1 x 33-8/1) 298 x 840 x 840 (11-3/4 x 33-1/8 x 33							
HxWx	D	Panel	mm(in.)			35 x 950 x	950 (1-3/8 x 37-7/16	6 x 37-7/16)						
		Unit	kg(lbs.)		22 (49)		23	(51) 27 (60)						
Net wei	ignt	Panel	kg(lbs.)				6 (13)							
Heat ex	xchanger			Cross fin (Aluminum plate fin and copper tube)										
	Type x	Quantity		Turbo fan x 1										
	Airflow	*2	m³/min	11-12-13-14	12-13-14-16		14-15-16-18	16-18-20-22	21-24-27-29	22-25-28-30				
Fan		-Mid2-Hi)	L/s	183-200-217-233	200-217	-233-267	233-250-267-300	267-300-333-367	350-400-450-483	367-417-467-500				
	(LO-IVIIG I	-wiiuz-i ii)	cfm	388-424-459-494	424-459	-494-565	494-530-565-636	565-636-706-777	742-848-953-1024	777-883-989-1059				
	External sta	atic pressure	Pa				0							
	Type						DC motor							
Motor	Output		kW			0.050			0.1	120				
Air filter	r						PP Honeycomb							
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7	(ø1/2)	ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)	ø15.88	8(ø5/8)	ø15.88 (ø5/8) / (Comp	/ ø19.05 (ø3/4) patible)				
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35	(ø1/4)	ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)		ø9.52	? (ø3/8)					
Field dr	ain pipe o	diameter	mm(in.)				O.D. 32 (1-1/4)							
	pressure 11-Mid2-H		dB(A)	27-28-29-31	27-28	-30-31	28-29-30-32	30-32-35-37	34-37-39-41	35-38-41-43				

				PLFY-P20VCM-E	PLFY-P25VCM-E	PLFY-P32VCM-E	PLFY-P40VCM-E				
Power	source				1-pha	se 220-240V 50Hz					
Coolin	q capacit	. *1	kW	2.2	2.8	3.6	4.5				
COUNTY	у сараси	y *1	BTU/h	7,500	9,600	12,300	15,400				
Hootin	g capacit	. *1	kW	2.5	3,2	4.0	5.0				
	• •	' '1	BTU/h	8,500	10,900	13,600	17,100				
Power		Cooling	kW	0.05	0.05	0.06	0.06				
consur	nption	Heating	kW	0.05	0.05	0.06	0.06				
Curren	ıt	Cooling	A	0.23	0.23	0.28	0.28				
		Heating	Α	0.23	0.23	0.28 0.28					
Extern	al finish	Unit			Galvanized steel sheet with gray heat insulation						
(Munse	ell No.)	Panel			White (6.4	Y 8.9/0.4)					
Dimension Unit mm(in.			mm(in.)		208 x 570 x 570 (8-1	/4 x 22-1/2 x 22-1/2)					
HxW>	t D	Panel	mm(in.)		20 x 650 x 650 (13/1	16 x 25-5/8 x 25-5/8)					
Net we	iaht	Unit	kg(lbs.)	15.5	(35)	17 (38)					
		Panel	kg(lbs.)	3 (7)							
Heat e	xchange			Cross fin (Aluminum plate fin and copper tube)							
	Type x	Quantity		Turbo fan x 1							
		rate *2	m³/min	8-9-10	8-9-10	8-9-11	8-9-11				
Fan	(Lo-Mid	-Hi)	L/s	133-150-167	133-150-167	133-150-183	133-150-183				
			cfm	283-318-353	283-318-353	283-318-388	283-318-388				
	Externa	l static ressure	Pa		0 (direct blow)						
Motor	Type				1-phase ind	uction motor					
	Outp	ut	kW	0.011	0.015	0.02	0.02				
Air filte	r				PP Honeycomb	(long life type)					
Refrige		Gas(Flare)	mm(in.)		ø12.7	(ø1/2)					
pipe di	ameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)					
Field d	rain pipe	diameter	mm(in.)		O.D. 32	(1-1/4)					
Sound (Lo-M	pressure id-Hi)	level *2 *3	dB(A)	28-31-35	28-31-37	29-33-38	30-34-39				

- *1 Cooling/Heating capacity indicates the maximum value at operation urder the following condition. Cooling: Indoor 27**(261*F)DB17*(266*F)MB_0000000 35**(265*F)DB Heating: Indoor 20**(268*F)DB_0000007**(245*F)DB6**(243*F)WB

INDOOR UNIT Ceiling cassette type 2-way airflow

PLFY-P VLMD-E

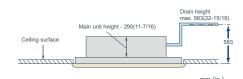


Slim body of 290mm(11-7/16in.) height



Equipped with drain pump mechanism as standard

The drain can be positioned anywhere up to 583mm(22-15/16in.) from the ceiling's surface, providing greater freedom with long cross-piping and allowing more versatility with piping layouts.



Compact unit and low noise level attained!

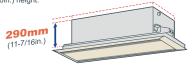
Sound pressure level table (Standard static pressure) at 0Pa

											dB(A)
Sound	Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125
	Fan Speed	High	33		36	37	39	39	42	46	
Level		Mid		30		33	34	37	36	39	42/44
		Low		27		29	31	32	33	36	40
×2201/2	101/-										

												dB(A)
Сар		city	P20	P25	P32	P40	P50	P63	P80	P100	P125	
	Sound pressure Level Fan		High		34		37	38	40	40	43	46
		Fan Speed	Mid		31		34	35	38	37	41	42/44
			Low		28		30	32	33	34	37	40

Slim body - only 290mm(11-7/16in.) height

The slimline body is highly suitable for installation in narrow ceiling spaces and for replacing obsolete air-conditioning equipment in older buildings. The main unit is only 290mm(11-7/16in.) height.



Terminal block on outside of main unit makes wiring easier

Fresh air directly taken in

Fresh air can be taken in to the main unit directly (optional

Long life filter equipped as standard

The antibacterial long life filter does not require maintenance for approximately a year.

Easy installation

Lighter panel and placing the electric board near the panel make installation and maintenance easier. Also, the heat

► Specifications

				PLFY-P20VLMD-E	PLFY-P25VI	MD-E	PLFY-F	P32VLMD-E	PLFY-P40VLMD-E			
Power s	source				1-phase 22	0-240V 50Hz / 1	1-phase 220-	230V 60Hz				
Cooling	capacity	, *1	kW	2.2	2.8			3.6	4.5			
Cooling	capacity	*1	BTU/h	7,500	9,600		1	2,300	15,400			
Hooting	capacity	, *1	kW	2.5	3.2			4.0	5.0			
rieauiig	capacity	*1	BTU/h	8,500	10,900)	1	3,600	17,100			
Power		Cooling	kW	0.072 / 0.075	0.072 / 0.	075	0.07	2 / 0.075	0.081 / 0.085			
consum	ption	Heating	kW	0.065 / 0.069	0.065 / 0.	069	0.06	5 / 0.069	0.074 / 0.079			
Current		Cooling	Α	0.36 / 0.37	0.36 / 0.	37	0.3	6 / 0.37	0.40 / 0.42			
Current		Heating	Α	0.30 / 0.32	0.30 / 0.32				0.34 / 0.37			
Externa	l finish	Unit		Galvanized steel plate								
(Munse	II No.)	Panel		Pure white (6.4Y 8.9/0.4)								
Dimensio	n	Unit	mm (in.)		290 x	776 x 634 (11-7		x 25)				
HxWxI	D	Panel	mm (in.)		20 x 1	1080 x 710 (13/	16 x 42-9/16	x 28)				
		Unit	kg(lbs.)		23 (51)	<u> </u>		24 (53	3)			
Net weight Panel kg(lbs.)						6.5 (1	5)	,	,			
Heat exchanger						Cross						
Type x Quantity						Turbo fa						
			m³/min		6.5-8.0-9				7.0-8.5-10.5			
Fan	Airflow		L/s		108-133-158							
	(Lo-Mid	I-HI)	cfm		230-283-				117-142-175 247-300-371			
	External sta	atic pressure	Pa		222 200	0						
	Туре	,				1-phase induc	tion motor					
Motor	Output		kW			0.015 (at						
Air filter			N.V.V		PP I	noneycomb fabr		me)				
Refrige		Gas(Flare)	mm(in.)			ø12.7 (a		poj				
pipe dia		Liquid(Flare)	mm(in.)									
	ain pipe o		mm(in.)		ø6.35 (ø1/4) O.D.32 (1-1/4)							
	ssure level		dB(A)		27-30-3		1-1/4)		29-33-36			
(Lo-Mid-H		230V	dB(A)		28-31-3				30-34-37			
(LU-MIU-FI	1) 23	2300	ub(A)		20-01-0				30-34-37			
				PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80	VLMD-E	PLFY-P100VLMD-I	E PLFY-P125VLMD-E			
Power:	source				1-phase 220-240V	50Hz / 1-phase	220-230V 6	0Hz				
		*1	kW	5.6	7.1	9.0)	11.2	14.0			
Cooling	g capacit	y *1	BTU/h	19,100	24,200	30,70	00	38,200	47,800			
		*1	kW	6.3	8.0	10.0	0	12.5	16.0			
Heating	g capacit	y *1	BTU/h	21,500	27,300	34,10	00	42,700	54,600			
Power		Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0	0.156	0.157 / 0.186	0.28 / 0.28			
consun	notion	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0	0.150	0.150 / 0.180	0.27 / 0.27			
		Cooling	А	0.41 / 0.43	0.49 / 0.51	0.72 / (0.74	0.75 / 0.88	1.35 / 1.35			
Current		Heating	Α	0.35 / 0.38	0.43 / 0.46	0.66 / (0.69	0.69 / 0.83	1.33 / 1.33			
Externa	al finish	Unit				Galvanized s	teel plate					
(Munse		Panel				Pure white (6.4						
		Unit	mm (in.)	290 x 946 x 634 (11	-7/16 x 37-1/4 x 25)			7/16 x 56-15/16 x 25)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7			
Dimens		Panel	mm (in.)	20 x 1250 x 710 (1				16 x 68-15/16 x 28)	20 x 2010 x 710 (13/16 x 79-3/16 x 2			
Dimens H x W x	x D											
H x W		Unit	ka(lbs.)	27 (60)	28 (62)	44 (9		47 (104)				
H x W		Unit Panel	kg(lbs.)	27 (60)	28 (62)	44 (9	98)	47 (104)	56 (124)			
H x W x	ight	Panel	kg(lbs.) kg(lbs.)	27 (60) 7.5		· ·	98) 12.5					
H x W x	ight changer	Panel		7.5	(17)	Cross	98) 12.5 s fin	(28)	56 (124) 13.0 (29)			
H x W x	ight changer Type x	Panel Quantity	kg(lbs.)	7.5	(17) fan x 1	Cross	98) 12.5 fin Turbo f	(28) an x 2	56 (124) 13.0 (29) Sirocco fan x 4			
H x W x Net wei	ight changer Type x Airflow	Panel Quantity rate *2	kg(lbs.)	7.5 Turbo 9.0-11.0-12.5	(17) fan x 1 11.0-13.0-15.5	Cross	98) 12.5 fin Turbo f 5-22.0	(28) an x 2 17.5-21.0-25.0	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0			
H x W x	rchanger Type x Airflow (P50~P100	Panel Quantity rate *2	kg(lbs.) m³/min L/s	7.5 Turbo 9.0-11.0-12.5 150-183-208	(17) fan x 1 11.0-13.0-15.5 167-217-258	Cross 15.5-18.5 258-308	12.5 fin Turbo f 5-22.0	(28) an x 2 17.5-21.0-25.0 292-350-417	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550			
H x W x Net wei	Type x Airflow (P50~P100 (P125:Lo-N	Panel Quantity rate *2 Lo-Mid-Hi) lid2-Mid1-Hi)	m³/min L/s	7.5 Turbo 9.0-11.0-12.5	(17) fan x 1 11.0-13.0-15.5	Cross 15.5-18.5 258-308 547-653	12.5 fin Turbo f 5-22.0	(28) an x 2 17.5-21.0-25.0	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0			
Net wei Heat ex	Type x Airflow (P50-P100 (P125:Lo-W	Panel Quantity rate *2	kg(lbs.) m³/min L/s	7.5 Turbo 9.0-11.0-12.5 150-183-208	(17) fan x 1 11.0-13.0-15.5 167-217-258	Cross 15.5-18.5 258-308 547-653	98) 12.5 s fin Turbo f 5-22.0 3-367 3-777	(28) an x 2 17.5-21.0-25.0 292-350-417	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550			
H x W x Net wei	ight cchanger Type x Airflow (P50~P100 (P125:Lo-N External sta	Panel Quantity rate *2 Lo-Mid-Hi) lid2-Mid1-Hi)	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547	Cross 15.5-18.5 258-308 547-653 0 1-phase induc	98) 12.5 if fin Turbo f 5-22.0 3-367 3-777	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165			
Net wei Heat ex	Type x Airflow (P50-P100 (P125:Lo-W	Panel Quantity rate *2 Lo-Mid-Hi) lid2-Mid1-Hi)	m³/min L/s	7.5 Turbo 9.0-11.0-12.5 150-183-208	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547	Cross 15.5-18.5 258-308 547-653	98) 12.5 if fin Turbo f 5-22.0 3-367 3-777	(28) an x 2 17.5-21.0-25.0 292-350-417	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165			
Net wei Heat ex	cchanger Type x Airflow (P50-P100 (P125:Lo-l/ External sta	Panel Quantity rate *2 Lo-Mid-Hi) lid2-Mid1-Hi)	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	15.5-18.5 258-308 547-653 0 1-phase induc 0.020 (at	98) 12.5 if fin Turbo f 5-22.0 3-367 3-777 ction motor 240V)	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			
Net wei Heat ex	cchanger Type x Airflow (P50-P100 (P125:Lo-l/ External sta	Panel CQuantity rate *2 Lo-Mid-Hi) fid2-Mid1-Hi) afic pressure	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Cross 15.5-18.5 258-308 547-653 0 1-phase induc	98) 12.5 if fin Turbo f 5-22.0 3-367 3-777 ction motor 240V)	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165			
H x W x Net wei Heat ex Fan Motor Air filter	ight cchangei Type x Airflow (P50-P100 (P125:Lo-l) External sta Type Output	Panel r Quantity rate *2 kLo-Mid-Hi) fid2-Mid1-Hi) atic pressure	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	15.5-18.5 258-308 547-653 0 1-phase induc 0.020 (at	98) 12.5 s fin Turbo f 5-22.0 s-367 s-777 ction motor 240V) cic (long life ty	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			
Net wei Heat ex Fan Motor Air filter	rant	Panel Quantity rate *2 kLo-Mid-Hi) lid2-Mid1-Hi) alic pressure Gas (Flare)	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	15.5-18.5 258-308 547-653 0 1-phase induc 0.020 (at	98) 12.5 if fin Turbo f 5-22.0 3-367 3-777 ction motor 240V)	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			
Net wei Heat ex Fan Motor Air filter	rant	Panel Quantity rate *2 (Lo-Mid-Hi) hid2-Mid1-Hi) etic pressure Gas (Flare) Liquid	m³/min L/s cfm Pa	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441 0.020 (a	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	15.5-18.5 258-308 547-653 0 1-phase induc 0.020 (at	98) 12.5 s fin Turbo f 5-22.0 9-367 9-777 ction motor 240V) ic (long life ty	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) rpe) (e5/8)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			
Net wei Heat ex Fan Motor Air filter Refrige	rant	Panel Quantity rate *2 (Lo-Mid-Hi) hid2-Mid1-Hi) etic pressure Gas (Flare) Liquid (Flare)	m³/min L/s cfm Pa kW mm(in.)	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Cross 15.5-18.6 258-308 547-653 547-653 01-phase induc 0.020 (at	12.5 fin Turbo f 5-22.0 -367 -777 -240V) oic (long life ty #95.52 (s. 18.18) of 18.88 of 18.8	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) rpe) (e5/8)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			
Net wei Heat ex Fan Motor Air filter Refrige pipe dia	rant ameter ain pipe of ain pipe of ain pipe of air pipe of ain pi	Panel Cuantity rate *2 Lo-Mid-Hi) did2-Mid-Hi) did3-Mid-Hi) did4-Mid-Hi) did4-Mi	m³/min L/s cfm Pa kW mm(in.) mm(in.)	7.5 Turbo 9.0-11.0-12.5 150-13-208 318-388-441 0.020 (c	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-647 at 240V) PP I	Cross 15.5-18.5 258-308 547-653 0 1-phase induc 0.020 (at	12.5 15 fin Turbo f 5-22.0 3-367 -777 2tion motor 240V) 15 (long life ty 915.88 99.52	an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) pep) (e5/8)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1,059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove cloth filter (long life)			
H x W x Net wei Heat ex Fan Motor Air filter Refrige pipe dia Field dr. Sound pre	rant	Panel Quantity rate *2 Lo-Mid-Hi) lid2-Mid1-Hi) alic pressure Gas (Flare) Liquid (Flare) diameter 220V,240V	m³/min L/s cfm Pa kW mm(in.)	7.5 Turbo 9.0-11.0-12.5 150-183-208 318-388-441 0.020 (a	(17) fan x 1 11.0-13.0-15.5 167-217-258 353-459-547 at 240V)	Cross 15.5-18.6 258-308 547-653 547-653 01-phase induc 0.020 (at	12.5 if in Turbo f 5-22.0 -3-367 -7-77 ction motor 240V) ø15.88 ø9.52 (1-1/4) -3-39	(28) an x 2 17.5-21.0-25.0 292-350-417 618-742-883 0.030 (at 240V) rpe) (e5/8)	56 (124) 13.0 (29) Sirocco fan x 4 24.0-27.0-30.0-33.0 400-450-500-550 848-953-1.059-1,165 0.078 x 2 (at 240V) Synthetic fiber unwove			

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

 Cooling: Indoor 27°C(81*F)DB/19°C(66*F)WB, Outdoor 35°C(95*F)DB
 Heating: Indoor 27°C(81*F)DB, Outdoor 74(45*F)DBF(343*F)WB

INDOOR UNIT Ceiling cassette type 1-way airflow

PMFY-P VBM-E



Compact and lightweight body perfect for limited ceiling space applications.



Compact size for smooth installation and maintenance

Unit body size has been standardized for all models at 812mm for easier installation. Body weight is only 14kg for the main unit and 3kg for the panel, making this unit one of the lightest in the industry.

Quiet operation

Newly developed airflow control technology reduces noise level to only 27dB (P20VBM) for industry-leading quiet performance.

Sound pressure level table

	Capa	city	P20	P25	P32	P40
Sound pressure level	Fan Speed	High	35	37		39
		Mid 1	33	3	36	
		Mid 2	30	34		35
		Low	27	32		33

<220V,240V>

Drain pump

Unit body size has been standardized for all models at 812mm for easier installation.

The drain can be positioned anywhere up to 600mm(23-5/8in.) from the ceiling's surface.



► Specifications

				PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E					
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz	•					
0 "	.,	*1	kW	2.2	2.8	3.6	4.5					
Cooling	g capacity	*1	BTU/h	7,500	9,600	12,300	15,400					
	-	*1	kW	2.5	3.2	4.0	5.0					
neaung	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100					
Power		Cooling	kW	0.042	0.0	44	0.054					
consumption Heating		kW	0.042	0.0	44	0.054						
Current		Cooling	A	0.20	0.3	21	0.26					
Jurren	L	Heating	Α	0.20	0.1	21	0.26					
Externa	al finish (Munsell I	No.)		White (0.98	Y 8.99/0.63)						
Dimens	sion	Unit	mm(in.)	230 x 812 x 395 (9-1/16 x 32 x 15-9/16)								
H X W X D Panel mm(in.)			mm(in.)		30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)							
Net we	:_64	Unit	kg(lbs.)	14 (31)								
ivet we	igni	Panel	kg(lbs.)	3 (7)								
Heat ex	xchanger			Cross fin (Aluminum plate fin and copper tube)								
	Type			Line flow fan x 1								
	Airflow	*2	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-	8.6-9.3	7.7-8.7-9.7-10.7					
Fan		-Mid1-Hi)	L/s	108-120-133-145	122-133-	143-155	128-145-162-178					
	(LU-WIUZ	-wild I-Fil)	cfm	230-254-283-307	258-283-	272-307-343-378						
	External st	aticpressure	Pa		()						
Motor	Type			1-phase induction motor								
WIOLOI	Output		kW		0.0	28						
Air filte	r				PP Honeyo	comb fabric						
Refrige		Gas(Flare)	mm(in.)		ø12.7	(ø1/2)						
pipe dia		Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)						
	ain pipe o		mm(in.)		O.D. :	26 (1)						
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		dB(A)	27-30-33-35	· ·								

otoc:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling: Indoor 27°C(81*F)DB/19°C(68*F)WB, Outdoor 35°C(95*F)DB

Heating: Indoor 20°C(96*F)DB, Outdoor 74(34*F)MB9

INDOOR UNIT Ceiling concealed type

PEFY-P VMR-E-L/R



Width 640mm

Problem solver for residential hotels, museums, libraries, or hospitals where low noise is especially a must!



Operable by key card switch

It is possible to operate / stop by taking a key card in and out.

Ultra low noise

Quiet indoor environment can be achieved with 21dB around the bed and 22dB around the desk.

*The noise level may differ by the room size or the setting of the

Enables to install for symmetric design room

Left or right piping and control boxes are available depending on the layout of each room. Plus, as in the above figure, easy maintenance is possible from the access door in the bathroom. *Seen from the front, the pipe and control box are on the right side for -R models.

Easy Maintenance

Drain pan and heat exchangers are washable from the access door in the bathroom, making maintenance easy and cost saving.

Energy saving

Energy saving can be realized by preventing us from failing to switch off of the air conditioners with a centralized system when no one is in the room.

Note: Compact and simple controllers, designed specifically to control only start/stop, fan speed and temperature can be set in each room for the occupants' enhanced individual comfort.

► Specifications

				PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L						
Power s	ource			1-ph	nase 220-230-240V 50Hz / 1-phase 220-230V	60Hz						
		*1	kW	2.2	2.8	3.6						
Cooling	capacity	*1	BTU/h	7,500	9,600	12,300						
		*1	kW	2.5	3.2	4.0						
Heating	capacity	*1	BTU/h	8,500	10,900	13,600						
Power		Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08						
consum	ption	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08						
		Cooling	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38						
Current	1	Heating	Α	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38						
External	finish				Galvanized							
Dimensi	on Re	ear inlet	mm (in.)	292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)								
HxWx	D Bot	ttom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)							
Net weig	ght		kg(lbs.)		18 (40)							
	changer				Cross fin (Aluminum fin and copper tube)							
	Туре х С	Quantity			Sirocco fan x 1							
Γ	Airflow r	rata	m³/min	4.8-5	5.8-7.9	4.8-5.8-9.3						
			L/s	80-9	7-132	80-97-155						
all	an (Lo-Mid-Hi)		cfm	170-2	05-279	170-205-328						
Ī	External		Po.		5							
	pressure	e *2	Pa		5							
Motor	Туре				1-phase induction motor							
viotor	Output		kW	0.	018	0.023						
Air filter					PP Honeycomb fabric (washable)	•						
Refriger	ant	Gas	mm(in.)	ø12.7 (ø1/2) Brazed								
oipe dia	meter	Liquid	mm(in.)		ø6.35 (ø1/4) Brazed							
ield dra	in pipe d	liameter	mm(in.)		O.D. 26 (1)							
Sound p	ronouro	220V		20-2	25-30	20-25-33						
evel (Lo		230V	dB(A)	21-2	26-32	21-26-35						
ievei (Lo	*3	240V		22-2	27-30	22-27-33						
				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R						
Power s	ource	*4	1347	1-ph	nase 220-230-240V 50Hz / 1-phase 220-230V	60Hz						
		, *1	kW	1-ph 2.2	nase 220-230-240V 50Hz / 1-phase 220-230V 2.8	60Hz 3.6						
		[*] 1	BTU/h	1-pt 2.2 7,500	2.8 9,600	3.6 12,300						
Cooling	capacity	*1 *1	BTU/h kW	1-pt 2.2 7,500 2.5	2.8 9,600 3.2	3.6 12,300 4.0						
Cooling Heating	capacity	/ *1 *1 / *1	BTU/h kW BTU/h	1-pt 2.2 7,500 2.5 8,500	28 9,600 3.2 10,900	3.6 12,300 4.0 13,600						
Cooling Heating Power	capacity	*1 *1 *1 Cooling	BTU/h kW BTU/h kW	1-ph 2.2 7,500 2.5 8,500 0.06/0.06	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06	3.6 12,300 4.0 13,600 0.07 / 0.08						
Cooling Heating Power	capacity capacity ption	*1 *1 Cooling Heating	BTU/h kW BTU/h kW	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08						
Cooling Heating Power consum	capacity	*1 *1 Cooling Heating Cooling	BTU/h kW BTU/h kW kW	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 0.029 / 0.29 / 0.29 / 0.29	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Cooling Heating Power consum	capacity capacity ption	*1 *1 Cooling Heating	BTU/h kW BTU/h kW	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.08 / 0.06 0.29 / 0.29 0.29 / 0.29	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08						
Cooling Heating Power consum Current External	capacity capacity ption	*1 *1 Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz /1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.06	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Cooling Heating Power consum Current External	capacity capacity ption finish on Re	*1 Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A mm (in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9.600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvarized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Power consum Current External Dimensi	capacity capacity ption finish on Re D Bot	*1 *1 Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A mm (in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 Galvanized Galva (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Power consump Current External Dimensi H x W x Net weig	capacity capacity ption finish on Re D Bot	*1 *1 Cooling Heating Cooling Heating ear inlet tom inlet	BTU/h kW BTU/h kW kW A A mm (in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9.600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Power consump Current External Dimensi H x W x Net weigheat exe	capacity capacity ption finish on Re D Bot pht changer	*1 *1 Cooling Heating Cooling Heating ear inlet the inlet	BTU/h kW BTU/h kW kW A A mm (in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-1/2) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) Cross fin (Aluminum fin and copper tube)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38						
Cooling Heating Power consum Current External Dimensi H x W x Net weig Heat exe	capacity capacity ption finish on Re D Bot	*1 *1 Cooling Heating Cooling Heating ear inlet the inlet	BTU/h kW BTU/h kW kW A A mm (in.) mm (in.) kg(lbs.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.08 0.29 / 0.29 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 3.00 x 640 x 580 (11-178 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube)	60Hz 3.6 12,300 4.0 13,600 0.07/0.08 0.07/0.08 0.34/0.38						
Power consumply Current External Dimensi H x W x Net weigheat external Current Company Current Company Current	capacity capacity ption finish on Re D Bot pht changer	/ *1 / *1 / *1 Cooling Heating Cooling Heating ear inlet ttom inlet	BTU/h kW BTU/h kW kW A A Mmm (in.) kg(lbs.)	1-pt 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.09 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power consumply Current External Dimensi H x W x Net weigheat external Current Company Current Company Current	capacity capacity ption finish on Re D Bot pht changer Type x (/ *1 / *1 / *1 Cooling Heating Cooling Heating ear inlet ttom inlet	BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.)	1-pk 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	nase 220-230-240V 50Hz /1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80.97-155						
Cooling Heating Power Consum Current External Dimensi H x W x Net weigheat ex	capacity capacity ption finish on Re pht changer Type x C Airflow r (Lo-Mid-	' *1 ' *1 Cooling Heating Cooling Heating Ear inlet ttom inlet Quantity rate -Hi)	BTU/h kW BTU/h kW kW A A Mmm (in.) kg(lbs.)	1-pk 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.09 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power consumply Current External Dimensi H x W x Net weigheat except and the consumption of the consumption	capacity capacity ption finish on Re D Bot ght changer Type x C Airflow r (Lo-Mid-	/ *1 / *1 / *1 Cooling Heating Cooling Heating Ear inlet ttom inlet Quantity rate -Hi) I static	BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.)	1-pk 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	nase 220-230-240V 50Hz /1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80.97-155						
Power consumply current External Dimensi 1 x W x let weigheat except and the consumply current consump	capacity capacity ption finish on Re D Bot pht changer Type x C Airflow r (Lo-Mid- External pressure	/ *1 / *1 / *1 Cooling Heating Cooling Heating Ear inlet ttom inlet Quantity rate -Hi) I static	BTU/h kW BTU/h kW kW kW A A mm (in.) mm (in.) kg(lbs.)	1-pk 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.67 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 2.25 / 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7,9 5	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80.97-155						
Power consum Current External Dimensi H x W x Net weigheat ex	capacity capacity ption finish on Re plot plot plot plot changer Type x (Airflow r (Lo-Mid- External pressure Type	/ *1 / *1 / *1 Cooling Heating Cooling Heating Ear inlet ttom inlet Quantity rate -Hi) I static	BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-4 80-9 1770-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.09 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9 7-132 05-279 5 1-phase induction motor	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Cooling Heating Power consum Current External Dimensi H x W x Net weig Heat exx	capacity capacity ption finish on Re D Bot pht changer Type x C Airflow r (Lo-Mid- External pressure	/ *1 / *1 / *1 Cooling Heating Cooling Heating Ear inlet ttom inlet Quantity rate -Hi) I static	BTU/h kW BTU/h kW kW kW A A mm (in.) mm (in.) kg(lbs.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-4 80-9 1770-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 300 x 640 x 580 (11-178 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-78 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) 57-132 005-279 5 1-phase induction motor	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80.97-155						
Cooling Heating Power Consum Current External Dimensi 1 x W x Net weig Heat external Air filter	capacity capacity ption finish on Re D Bot pht changer Type x (Airflow r (Lo-Mid- External pressure Type Output	' *1 ' *1 Cooling Heating Cooling Heating Bar inlet ttom inlet Quantity rate -Hi) I static e *2	BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.) m²/min L/s cfm Pa	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-4 80-9 1770-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9.600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/6 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9 1-phase induction motor 18 PP Honeycomb fabric (washable)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Cooling Heating Power Courrent External H x W x Net weight Air filter Refriger	capacity capacity finish finish on Re D Bot Kirflow ro (Lo-Mid- External pressure Output	*1 *1 Cooling Heating Cooling Heating Heating Par inlet tom inlet Country rate (-Hi) I static e *2	BTU/h kW BTU/h kW kW kW A A A mm (in.) kg(lbs.) m³/min L/s cfm Pa kW mm(in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-4 80-9 1770-2	nase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-172 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) 5.8-7.9 5-7-132 05-279 5 1-phase induction motor 018 PP Honeycomb fabric (washable) e12.7 (e1/2) Brazed	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Cooling Heating Power consum Current External Dimensi H x W x Net weie Heat exx	capacity capacity capacity finish on Re Bot Bot Airflow rr Type x (Clo-Mid- External pressure Type Output ant	"1 *1 Cooling Heating Cooling Heating Heating Para inlet tom inlet tom inlet Tooling Heating Para inlet tom inlet Tooling Para inlet to Inlet Tooling Para inlet Tooling Pa	BTU/h kW BTU/h kW KW A A A A mm (in.) mm (in.) kg(lbs.) m³/min L/s cfm Pa kW kW	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-4 80-9 1770-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.66 / 0.06 0.06 / 0.06 0.08 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 300 x 640 x 550 (111-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 / (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 3.8-7.9 5 1-phase induction motor 018 PP Honeycomb fabric (washable) e12.7 (e1/2) Brazed e6.35 (e1/4) Brazed	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Cooling Heating Power consum Current External Dimensi H x W x Net weie Heat exx	capacity capacity capacity finish finish finish D Bote Changer Type x C Airflow r Type x C C Cu-Mid- Exessure Type Output	'1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1	BTU/h kW BTU/h kW kW kW A A A mm (in.) kg(lbs.) m³/min L/s cfm Pa kW mm(in.)	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-5 8.90 170-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.09 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9 1-phase induction motor 018 PP Honeycomb fabric (washable) e12.7 (e1/2) Brazed e6.35 (e1/4) Brazed 0.D. 26(1)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Power consum Current External Dimensi H x W x Net weigheat ex Fan Motor Air filter Refriger, pipe diau Field dra Fie	capacity capacity capacity finish finish non Re D Bote Airflow r (Lo-Mid- External pressure Output	' *1 *1 Cooling Heating Cooling Heating Heating Cooling Heating Cooling Heating Heating Heating Cooling Heating Heatin	BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.) m²/min L/s cfm Pa kW mm(in.) mm(in.)	1-pk 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-6 80-9 170-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 301 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 302 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 303 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 305 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 5 x 79 5 x 79 5 1-phase induction motor 018 PP Honeycomb fabric (washable) e12.7 (e1/2) Brazed e6.35 (e1/4) Brazed O.D. 26(1)	60Hz 3.6 12,300 4.0 13,600 0.07/0.08 0.07/0.08 0.34/0.38 0.34/0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Cooling Heating Power consum Current External Dimensi H x W x Net weig Heat exv Air filter Refriger	capacity capacity capacity ption finish fini	'1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1	BTU/h kW BTU/h kW KW A A A A mm (in.) mm (in.) kg(lbs.) m³/min L/s cfm Pa kW kW	1-ph 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-8 80-9 170-2	ase 220-230-240V 50Hz / 1-phase 220-230V 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.09 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 5.8-7.9 1-phase induction motor 018 PP Honeycomb fabric (washable) e12.7 (e1/2) Brazed e6.35 (e1/4) Brazed 0.D. 26(1)	60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

 Cooling: Indoor 27°C (81°F) DB/19°C (66°F) WB, Outdoor 35°C (95°F) DB

 Heating: Indoor 20°C (68°F) DB, Outdoor 7°C (45°F) DB/6°C (43°F) WB

INDOOR UNIT Ceiling concealed type





Height 200mm

Low Noise Width Width 790mm 990mm 1,190mm

The ultra thin unit of 200mm offers increased flexibility, and is particularly suitable for places where low noise operation is desired from a slim line body.



Changeable static pressure

The unit is made suitable for a variety of applications with its four static pressure settings of 5, 15, 35, 50Pa.

Changeable airflow rate

Low, middle, and high fan speed settings deliver

Choice for drain pump

Drain pump is an optional part for the VMS1L, and a standard for VMS1.

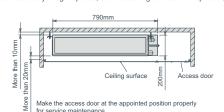
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump)

PP Honeycomb fabric

Washable PP Honeycomb fabric filter as standard

Ultra low height unit with 200mm (7-28/32in.) high Ultra-narrow width of 790mm (P15-P32 models) [990mm for P40,50 models / 1190mm for P63 models]

Can be installed easily in tight spaces, such as ceiling cavities or drop-ceilings.



Reduced noise thanks to the use of newly designed centrifugal fan and coil

Sound pressure level table (Standard static pressure) at 15Pa

									dB(A)	
	Capa	city	P15	P20	P25	P32	P40	P50	P63	
Sound ressure		High	28	29	30	32	33	35	36	
Level	Fan Speed	Mid	24	25	26	27	30	32	33	
		Low	22	22	24	24	20	30	30	

► Specifications

H x W x D															
Cooling capacity					PEFY-P15VMS1(L)-E *	PEFY-P20VMS1(L)-E				PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E				
BTU/h 5,800 7,500 9,600 12,300 15,400 19,100 24,200	Power	sourc													
Heating cap-cly 1	Coolin	n cana	city .												
Heating Capacity File	000	g oupc	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200				
Second S	Hooting		oitu *1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0				
Heating KW 0.03 [0.03] 0.03 [0.03] 0.04 [0.04] 0.05 [0.05] 0.05 [0.05] 0.07 [0.07] 0.07 [0.07]	пеашц	у сара	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300				
Cooling A	Power	*3	Cooling	kW	0.05 [0.03]	0.05 [0.03]	0.06 [0.04]	0.07 [0.05]	0.07 [0.05]	0.09 [0.07]	0.09 [0.07]				
	consun	nption	Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]	0.07 [0.07]				
Heating A	Current *2		Cooling	Α	0.42 [0.31]	0.47 [0.36]	0.50 [0.39]	0.50 [0.39]	0.56 [0.45]	0.67 [0.56]	0.72 [0.61]				
Dimension	Heating		Heating	A	0.31 [0.31]	0.36 [0.36]	0.39 [0.39]	0.39 [0.39]	0.45 [0.45]	0.56 [0.56]	0.61 [0.61]				
H x W x D	Extern	External finish						Galvanized							
Net weight	Dimen	sion		mm		200 x 7	90 x 700		200 x 9	90 x 700	200 x 1,190 x 700				
Heat exchanger	HxW	x D		ln.		7-7/8 x 31-1	/8 x 27-9/16		7-7/8 x 39	7-7/8 x 46-7/8 x 27-9/16					
Type x Quantity	Net w	eight	*3	kg(lbs.)		19(42) [18(40)]		20(45) [19(42)]	24(53)	[23(51)]	28(62) [27(60)]				
Airflow rate Cu-Mid-Hi Airflow rate Cu-	Heat e	xchang	er			Cross fin (Aluminium fin and copper tube)									
Fame of the content		Type >	Quantity			Sirocco	fan x 2	Sirocco	fan x 3	Sirocco fan x 4					
Fan CLo-Mid-Hi L/s 83-100-117 91-108-133 91-117-150 100-133-168 133 158-183 158-183-217 200-233-275				m³/min	5-6-7	5.5-6.5-8	5.5-7-9	6-8-10	8-9.5-11	9.5-11-13	12-14-16.5				
Company Comp	Fan			L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275				
Motor bype		(Lo-M	lid-Hi)	cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583				
Motor		Externa	I static press	Pa				5-15-35-50		•	•				
Output KW O.096		type						DC motor							
Refigeral Gas mm(in.)	Motor	outpu	t	kW				0.096							
pip familier Liquid mm(in.) 06.35 (ø1/4) Brazed ø9.52 (ø3/8) Braz Field drain pipe diameter mm(in.) O.D. 32 (1-1/4) Sound pressure level (Lo-Mid-H1) dB <a> 22-24-28 23-25-29 24-26-30 24-27-32 28-30-33 30-32-35 30-33-36	Air filter	r					PP Ho	neycomb fabric (was	shable)						
Display Disp	Refrioerant	Gas		mm(in.)				12.7 (ø1/2) Braze	d		ø15.88 (ø5/8) Brazed				
Sound pressure level (Lo-Mid-Hi) dB <a> 22-24-28 23-25-29 24-26-30 24-27-32 28-30-33 30-32-35 30-33-36	pipe diameter	Liquid		mm(in.)				6.35 (ø1/4) Braze	d		ø9.52 (ø3/8) Brazed				
(Lo-Mid-Hi) dB <a> 22-24-28 23-25-29 24-26-30 24-27-32 28-30-33 30-32-35 30-33-36	Field dr	ain pipe	diameter	mm(in.)			*	O.D. 32 (1-1/4)							
				()				· · · · ·							
(manual franchis man)	(Lo-Mid	-Hi)		dB <a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36				
	(mesure	nesured in anechoic room)													

★PEFY-P15VMS1(L)-E can only be connected to YHM and YJM outdoor units

	PEFY-P15VMS1(L)-E
PURY-P YHM, YJM	0
PUHY-P YHM, YJM	0
PUMY-P VHMA / VHMB	0
PUMY-P YHMA / YHMB	0
PQRY-P YGM	×
PQHY-P YGM	×
PQRY-P YHM	0
PQHY-P YHM	0

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition Cooling: Indoor: 27*CD.B./19*CW.B. (81*FD.B. / 61*FW.B.) Outdoor: 35*CD.B. (91*FD.B.) Under : 35*CD.B. (91*FD.B.) Under : 15*CW.B. (41*FD.B.) Heating: Indoor: 20*CD.B. (81*FD.B.) Under : 7*CD.B. (75*CW.B. (41*FD.B.) A / 41*FW.B.) Pipe length: 7.5m (24-9/16th) Height difference: 0m (0ft)

INDOOR UNIT Ceiling Concealed Type

PEFY-P VMA(L)-E

Middle Static Pressure Slim Body 35~150Pa Height 250mm

With precise control of indoor temperature while operating with optimum energy usage, it offers a high-energy saving efficiency.



Compact Indoor Units

For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



PEFY-P	20	25	32	40	50	63	71	80	100	125	140	
Height	Height mm			250								
Width mm			700 900 1,100 1,400 1,60							1,600		
Donth	mm						732					

External static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to a maximum of 150Pa.

| External static pressure setting | Series | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 | | SEPEY-P VMA(L) | 35/50/70/100/150Pa







Drain Pump Option

The line-up consists of two types, models with or without a built-in drain pump allowing more freedom in piping layout



PEFY-P VMA-E Drain pump built-in

PEFY-P VMAL-E No Drain pump

* Units with a "L" at the end of the model name

Analogue input

Analogue input allows unit to control the fan speed setting in conjunction with damper condition.

IT terminal

IT terminal is available. For details, contact your local distributor.

▶ Specifications

				PEFY-P20VMA(L)-E	PEFY-P25VM	4(L)-E	PEFY-P32	VMA(L)-E	PEF	Y-P40VMA(L)-E	PE	EFY-P50VMA(L)-E	
Power	sourc	e				1-p	hase 220-230	-240V 50 / 60	Hz				
Cooling	g cap	acity *1	kW	2.2	2.8		3.	.6		4.5		5.6	
(Nomin	nal)	*1	BTU/h	7.500	9,600		12.3	300		15.400		19.100	
Heating	g cap	acity *2	kW	2.5	3.2		4.	.0		5.0		6.3	
(Nomin	nal)	*2	BTU/h	8.500	10.900		13.0	600		17.100		21.500	
Power		Cooling *3	kW	0.06 [0.04]	0.06 [0.04	11	0.07	[0.05]		0.09 [0.07]		0.11 [0.09]	
consum	ption	Heating *3	kW	0.04	0.04	•	0.0	05		0.07		0.09	
_		Cooling *3	А	0.53 [0.42]	0.53 [0.42	1	0.55	[0.44]		0.64 [0.53]		0.74 [0.63]	
Curren	t	Heating *3	Α	0.42	0.42		0.			0.53		0.63	
Externa	al finis			0.42				steel plate					
			mm	250 x 700 x 732	250 x 700 x	732	250 x 70		250	0 x 900 x 732		250 x 900 x 732	
Dimens	sion	HxWxD	in.	9-7/8 x 27-9/16 x 28-			9-7/8 x 27-9			35-7/16 x 28-7/8		8 x 35-7/16 x 28-7/8	
Net we	iaht		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (23 (51)			(58) [25 (56)]		26 (58) [25 (56)]	
Heat ex		nger	(Ing(IDO)	20 (01) [22 (10)]	20 (01) [22 (fin (Aluminum			(00) [20 (00)]		20 (00) [20 (00)]	
		e x Quantity				0,000	Sirocco		i tabo)				
			m³/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8	2.5	7.5 - 9.0		10.0	0 - 12.0 - 14.0		12.0 - 14.5 - 17.0	
		ow rate	L/s	100 - 125 - 142	100 - 125 -			50 - 175		7 - 200 - 233		200 - 242 - 283	
Fan	(Lov	v-Mid-High)	cfm	212 - 265 - 300	212 - 265 -		265 - 31			3 - 424 - 494		424 - 512 - 600	
			CIIII	212 - 203 - 300	212 - 203 -	300	200 = 3	10 - 37 1	33	3 - 424 - 454		424 - 312 - 000	
	pres	ernal static ssure *4	Pa	<35> - 50 - <70> - <100> - <	150> <35> - 50 - <70> - <10	0> - <150>	<35> - 50 - <70>		<35> - 50	- <70> - <100> - <150>	<35> -	- 50 - <70> - <100> - <150	
Motor	Тур							notor					
Output		kW	0.085	0.085	0.085		185		0.085		0.085		
Air filte	r							PP honeycomb fabric.					
		Liquid (R410A)	mm(in.)	6.35 (1/4) Brazed	6.35 (1/4) Bra	azed	6.35 (1/4) Brazed	6.3	.35 (1/4) Brazed		6.35 (1/4) Brazed	
Refriger	ant	(R22,R407C)	111111(111.)	6.35 (1/4) Brazed	6.35 (1/4) Br	azed	6.35 (1/4) Brazed	6.3	6.35 (1/4) Brazed		9.52 (3/8) Brazed	
pipe dia	meter	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/20) Bi	azed	12.7 (1/20	0) Brazed	12.7	(1/20) Brazed	1	12.7 (1/2) Brazed	
		(R22,R407C)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/20) Bi	azed	12.7 (1/20	0) Brazed	12.7	7 (1/2) Brazed	1	5.88 (5/8) Brazed	
Field dr	rain pi	pe diameter	mm(in.)	O.D.32 (1-1/4)	O.D.32(1-1	/4)	O.D.32	(1-1/4)	0.	.D.32 (1-1/4)		O.D.32 (1-1/4)	
Sound	press	sure level (m	easured in	anechoic room)									
(Low-N	1id-Hi	gh) *3 *5	dB(A)	26-28-29	26-28-29)	28-3	0-34		28-30-34		28-32-35	
		*3 *6	dB(A)	23-25-26	23-25-26	23-25-26		23-26-29		23-27-30		25-29-32	
				PEFY-P63VMA(L)-E	PEFY-P71VMA(L)-E					PEFY-P125VMA(I	L)-E I	PEFY-P140VMA(L)	
Power						1-p	hase 220-230						
Cooling			kW	7.1	8.0		9.0	11.2		14.0		16.0	
(Nomin		*1	BTU/h	24,200	27,300		30,700	38,200				54,600	
Heating			kW	8.0	9.0		10.0	12.5				18.0	
(Nomin	nal)	*2	BTU/h	27,300	30,700		34,100	42,70		54,600		61,400	
Power		Cooling *3	kW	0.12 [0.10]	0.14 [0.12]		14 [0.12]	0.24 [0.		0.34 [0.32]	_	0.36 [0.34]	
consum	ption	Heating *3	kW	0.10	0.12		0.12	0.22		0.32		0.34	
Curren		Cooling *3	Α	1.01 [0.90]	1.15 [1.04]		15 [1.04]	1.47 [1.		2.05 [1.94]		2.21 [2.10]	
		Heating *3	А	0.90	1.04		1.04	1.36		1.94		2.10	
Externa	al fini:	sh						steel plate					
Dimen	eion !	HxWxD	mm	250 x 1,100 x 732	250 x 1,100 x 732		1,100 x 732	250 x 1,400		250 x 1,400 x 7		250 x 1,600 x 732	
Dimens	31UII	1 × VV X D	in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 4	3-5/16 x 28-7/8	9-7/8 x 55-1/8	x 28-7/8	9-7/8 x 55-1/8 x 28-	7/8	9-7/8 x 63 x 28-7/8	
Net we	ight		kg(lbs)	32 (71) [31(69)]	32 (71) [31 (69)]	32 (7	1) [31 (69)]	42 (93) [4	1 (91)]	42 (93) [41 (91)]	46 (102) [45 (10)]	
Heat ex	xchar	nger				Cross	fin (Aluminum	fin and coppe	er tube)				
	Тур	e x Quantity					Sirocco	fan x 2					
	4:0		m³/min	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 -	18.0 - 21.0	23.0 - 28.0	- 33.0	28.0 - 34.0 - 40.	.0	29.5 - 35.5 - 42.0	
_		ow rate	L/s	225 - 267 - 317	242 - 300 - 350	242 -	300 - 350	383 - 467	- 550	467 - 567 - 667	7	492 - 592 - 700	
Fan	(Lov	v-Mid-High)	cfm	477 - 565 - 671	512 - 636 - 742		636 - 742	812 - 989 -		989 - 1,201 - 1,4		1.042 - 1.254 - 1.48	
	Exte	emal static											
		sure *4	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <	:70> - <100> - <150>	<35> - 50 - <70> - <	100> - <150>	<35> - 50 - <70> - <100> - ·	<150>	<35> - 50 - <70> - <100> - <15	
	Type						DC :	motor					

| Pressure *4 | No. | Pres

- | To ase of PEFY-P VMALE
 | Nominal cooling conditions | Indoor: 27*CDB(95*FDB) | Pipe length 7.5m(24-916th), Level difference: 0m(0ft.) |
 | Nominal heating conditions | Indoor: 27*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*FDB), Outdoor: 7*CDB(95*CWB), Outd



INDOOR UNIT Ceiling concealed type







Increased design flexibility from sufficient external static pressure allows authentic duct air- conditioning with an elegant interior layout.



High static pressure of 200 Pa or higher

The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

PEFY-P	VMH-E	P40 P50 P63 P71 P80 P100 P125 P140							P200	P250					
	220V														
External static	230/240V		100/150/200												
pressure (Pa)	380V		_							_				110	220
/	400/415V				=	_				130	/260				

PEFY-P VMHS-E	P200	P250
External static pressure (Pa)	<50> - <100> - 15) - <200> - <250>*

Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

										gB(A)
Sound	Capacity		P40	P50	P63	P71	P80	P100	P125	P140
pressure	Fan Speed	High	34	34	38	39	41	42	42	42
Level		Low	27	27	32	32	35	34	34	34

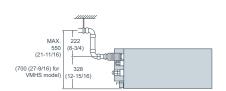
One-side maintenance

All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side. (VMH model only)



Drain pump (option) ensures up to 550mm (21-11/16in.) for VMH model / 700mm (27-9/16in.) for VMHS model of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550mm(21-11/16in.) for VMH model/700mm (27-9/16in.) for VMHS model, allowing more freedom in piping layout design and reducing horizontal piping requirements.



► Specifications

				PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E	PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E
Power	source					1-phase	220-240V 50Hz /	1-phase 220-24	0V 60Hz		
0 "		*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Cooling	g capacity	y *1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600
116-		*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Heating	g capacit	y *1	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400
Power		Cooling	kW	0.19	/ 0.23	0.24 / 0.30	0.26 / 0.33	0.32 / 0.40	0.48	/ 0.58	0.48 / 0.59
consur	nption	Heating	kW	0.19	/ 0.23	0.24 / 0.30	0.26 / 0.33	0.32 / 0.40	0.48	/ 0.58	0.48 / 0.59
Curren		Cooling	Α	0.88	/ 1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70
		Heating	Α	0.88	/ 1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70
External finish							Galva	nized			
Dimension H x W x D mm			mm		380 x 750 x 900		380 x 1,0	00 x 900		380 x 1,200 x 900	
Dimension H X W X D		WXD	in.	15	x 29-9/16 x 35-7	/16	15 x 39-3/8	3 x 35-7/16	15	x 47-1/4 x 35-7/	16
	Net weight k		kg(lbs.)	44 (98)	45 (100)				70 (155)	
Heat e	xchanger					Cross	fin (Aluminum pla	ate fin and coppe	r tube)		
	Type x Quantity				Sirocco fan x 1				Sirocco fan x 2		
	Airflow	roto	m³/min	10.0	10.0-14.0		15.5-22.0	18.0-25.0	26.5-38.0		28.0-40.0
Fan	(Lo-Hi)	1416	L/s	167	-233	225-317	258-367	300-417	442-633		467-667
ran	,		cfm	353	-494	477-671	547-777	636-883	936-	1342	989-1413
	External static		Pa				50 · 10	0 · 200			
	pressure *2	230,240V	Pa				100 · 15	50 · 200			
Motor	Type						1-phase inde				
IVIOLOI	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26	
Air filte	r (option)					Synth	ethic fiber unwov	en cloth filter (lor	ig life)		
		Gas (Brazing)	mm(in.)	ø12.7	(ø1/2)		ø15.88 (ø5/8)				
		Liquid (Brazing)	mm(in.)	ø6.35	(ø1/4)			ø9.52	(ø3/8)		
Field di	rain pipe o	diameter	mm(in.)				O.D. 32	(1-1/4)			
Sound	pressure	220V	dB(A)	27	-34	32-38	32-39	35-41		34-42	
level (Lo-Hi) *6 23		230,240V	dB(A)	31	-37	36-41	35-41	38-43		38-44	

				PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E			
Power	source			3-phase 380-415V 50H	z / 3N ~ 380-415V 60Hz	1-phase 220-240V 50Hz	/ 1-phase 220-240V 60Hz			
CE		*1	kW	22.4	28.0	22.4	28.0			
Cooling	g capacity	y *1	BTU/h	76,400	95,500	76,400	95,500			
	capacit	*1	kW	25.0	31.5	25.0	31.5			
neaung	g capacit	y *1	BTU/h	85,300	107,500	85,300	107,500			
Power		Cooling	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7			
consun	nption	Heating	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7			
	Cooling	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	-			
Current	Cooling	220-230-2407	Α	-	_	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7			
Current	Heating	380-415V	Α	1.62 / 1.86	2.00 / 2.30	_	-			
	neaung	220-230-2407	Α	-	_	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7			
Externa	al finish			Galva	nized	Galvanize	d steel plate			
Dii II W D		W D	mm	470 x 1,25	50 x 1,120	470 x 1,2	50 x 1,120			
Dimension H x W x D		WXD	in.	18-9/16 x 49	-1/4 x 44-1/8	18-9/16 x 49	9-1/4 x 44-1/8			
Net weight			kg(lbs.)	100 (221)	97 (214) 100 (221)				
Heat ex	kchanger	r		Cross fin (Aluminum pla	ate fin and copper tube)	Cross fin (Aluminum pl	ate fin and copper tube)			
	Type x	Quantity		Sirocco	fan x 2	Sirocci	o fan x 2			
			m³/min	58.0	72.0	_	-			
	Airflow rate		L/s	967	1200	_	=			
			cfm	2048	2543	_	_			
			m³/min	-	-	50.0-61.0-72.0	58.0-71.0-84.0			
Fan		Lo-Mid-Hi	L/s	-	1	833-1017-1200	967-1183-1400			
			cfm	-	-	1766-2154-2542	2048-2507-2966			
		380V	Pa	110	220 *4	=				
	External static	400,415V	Pa	130	260 *4	-				
	pressure		Pa	-	-	<50>-<100>-150-<200>-<250> *8				
			mmH₂O	-	_	<5.1>-<10.2>-15.3-<20.4>-<25.5> *8				
	Туре			3-phase inde		DC	motor			
Motor	Output		kW	0.76 *5	1.08 *5	0.87	0.87			
Air filte	r(option)			Synthethic fiber unwov	en cloth filter (long life)	Synthethic fiber unwoven cloth filter (long	life filter) and filter box are recommended			
Refrigerant		Gas (Brazing)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)			
pipe di	ameter	Liquid (Brazing)	mm(in.)	ø9.52	(ø3/8)	ø9.52	! (ø3/8)			
Field dr	ain pipe	diameter	mm(in.)	O.D. 32	! (1-1/4)	O.D. 3:	2 (1-1/4)			
		380V	dB(A)	42 (110Pa) / 45 (220Pa) *6	50 (110Pa) / 52 (220Pa) *6	_	_			
	Sound pressure	400,415V	dB(A)	44 (130Pa) / 47 (260Pa) *6	52 (130Pa) / 54 (260Pa) *6	_	_			
		Lo-Mid-Hi	dB(A)			36-39-43 *9	39-42-46 *9			

- Cooling/heating capacity indicates the maximum value at operation under the following or Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB Heating Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB
- *7 The values are measured at the rated external static pressure. *2 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
 *3 The value are that at 240V.

*9 It is measured at the rated external static pr

INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F



Fresh Air can be taken in with temperature control. Ideal for Offices, Stores and Restaurants.

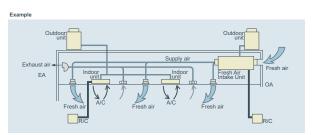


The Fresh Air intake indoor unit can be installed in any place.

The Fresh Air intake indoor unit can take fresh outdoor air into any building in any place at any time.

> Office, Lobby, Workshop, Rest room, Nursing home, Smoking corner, Kitchen in restaurant

* Limits of capacity connectable to outdoor unit
Max. 110% of outdoor unit capacity, excepting heating at outdoor temperature of less than -5°C(23°F) (100%).



Fan remains in operation during Thermo-OFF. Using this model with other type of indoor unit is recommended to prevent cold draft which is caused due to intaken fresh

► Specifications

Power:				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F			
	source			1-phase 220-240V 50Hz	1-phase 208-230V 60Hz			
		*1	kW	9.0	16.0			
Cooling	capacit	y *1	BTU/h	30,700	54,600			
		*1	kW	8.5	15.1			
Heating	capacit	y •1	BTU/h	29.000	51,500			
_								
Power		Cooling	kW	0.16 / 0.21	0.29 / 0.33			
consur	nption	Heating	kW	0.16 / 0.21	0.29 / 0.33			
_		Cooling	A	0.67 / 0.91	1.24 / 1.48			
Current	1	Heating	Α	0.67 / 0.91	1.24 / 1.48			
Evterns	al finish				nized			
Dimens				380 x 1000 x 900	380 x 1200 x 900			
			mm(in.)					
H x W				(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)			
Net we			kg(lbs.)	50 (111)	70 (155)			
Heat exchanger		r			ate fin and copper tube)			
Type x Quau		Quautity		Sirocco fan x 1	Sirocco fan x 2			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			m³/min	9.0	18.0			
	Airflow	rate	L/s	150	300			
	Allilow	Tate	cfm	18	636			
Fan		2001						
	External		Pa	35 - 85 - 170	35 - 85 - 170			
	static	220V	Pa	40 - 115 - 190	50 - 115 - 190			
	pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220			
	(Lo-Mid-Hi)		Pa	80 - 170 - 220	100 - 170 - 240			
	Type		. u	1-phase ind				
Motor			110/	0.09 (at 220V)	0.14 (at 220V)			
	Output		kW					
Air filte	r (option)			Synthetic fiber unwov	en cloth filter (long life)			
		Gas	mm(in.)	-45.00	(-5(0)			
Refrige	rant	(Flare)	111111(111.)	ø15.88	(00/0)			
		Liquid						
npo an		(Flare)	mm(in.)	ø9.52	(ø3/8)			
			(:)					
	ain pipe		mm(in.)	O.D.32				
Sound pre	ssure level	208, 220V	dB(A)	27 - 38 - 43	28 - 38 - 43			
Lo-Mid-H	i) *2	230, 240V	dB(A)	33 - 43 - 45	34 - 43 - 45			
					•			
				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F			
Power	source			PEFY-P200VMH-E-F 3-phase 380-415V 50H				
			kW					
	source g capac	ity		3-phase 380-415V 50H 22.4	z / 3N~ 380-415V 60Hz 28.0			
		ity	BTU/h	3-phase 380-415V 50H 22.4 76,400	z / 3N~ 380-415V 60Hz 28.0 95,500			
Coolin			BTU/h kW	3-phase 380-415V 50H 22.4 76,400 21.2	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5			
Coolin	g capac	ity	BTU/h kW BTU/h	3-phase 380-415V 50H 22.4 76,400 21.2 72,300	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400			
Coolin	g capac		BTU/h kW BTU/h kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42	z / 3N~ 380-415V 60Hz 28.0 95.500 26.5 90,400 0.39 / 0.50			
Cooling Heatin	g capac	cooling	BTU/h kW BTU/h	3-phase 380-415V 50H 22.4 76,400 21.2 72,300	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400			
Cooling Heatin Power consu	g capac g capac mption	Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42	z / 3N~ 380.415V 60Hz 28.0 95.500 95.500 28.5 99.400 0.39 / 0.50 0.39 / 0.50 0.39 / 0.50			
Cooling Heatin Power consu	g capac g capac mption	Cooling Heating Cooling	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H 22.4 76.400 21.2 72.300 0.34 / 0.42 0.58 / 0.74	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86			
Cooling Heatin Power consu	g capac g capac mption	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 10.42 0.34 70.42 0.58 10.74 0.58 10.74	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.39 / 0.50 0.39 / 0.50 0.38 / 0.50 0.68 / 0.86 0.68 / 0.86			
Cooling Heatin Power consu Curren	g capac g capac mption it	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva	z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.88 / 0.86 0.68 / 0.86			
Cooling Heatin Power consu Curren Extern Dimen	g capac g capac mption it al finish sion	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvx 470 x 12	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.50 / 0.86 0.68 / 0.86 0.6			
Power consu Curren Extern Dimen	g capac g capac mption at al finish sion	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.50 / 0.86 0.68 / 0.86 0.6			
Power consu Curren Extern Dimen	g capac g capac mption at al finish sion	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 x 12' (18-9162 x 12)	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.50 / 0.86 0.68 / 0.86 0.6			
Power consu Curren Extern Dimen I x W :	g capac g capac mption it al finish sion C D	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galwi 470 x 12' (18-9/16 x 49	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.88 / 0.86 0.68 / 0.86 0.68 / 0.86 0.61 / 0.86 0.62 / 0.86 0.63 / 0.86 0.64 / 0.86 0.65 / 0.86 0.67 / 0.86 0.68 / 0.86 0.6			
Power consu Curren Extern Dimen I x W :	g capac g capac mption it al finish sion C D sight xchange	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12 (18-9/16 x 49 100 Cross fin (Aluminum pi	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221)			
Power consu	g capac g capac mption it al finish sion C D sight xchange	Cooling Heating Cooling Heating	BTU/h kW BTU/h kW kW A A kg(lbs.)	3-phase 380-415V 50H 22.4 76.400 21.2 77.300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.75 / 0.	z / 3N~380-415V 60Hz 28.0 95.500 95.500 96.50 90.400 039 / 0.50 039 / 0.50 039 / 0.50 039 / 0.50 0.88 / 0.86 0.86 / 0.86 0.86 / 0.86 1.42 44-1/8) 2221) ate fin and copper tube) fan x 2			
Power consu Curren Extern Dimen I x W :	g capac g capac mption it al finish sion c D ight xchange	Cooling Heating Cooling Heating Heating Couling Couling Couling Couling Couling Couling	BTU/h kW BTU/h kW kW A A mm(in.)	3-phase 380-415V 50H 22.4 76.400 21.2 72.300 0.34 / 0.42 0.54 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12: (18-9/16 x 49 100 Cross fin (Aluminum pl Siroccc 28	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.89 / 0.50 0.68 / 0.86 inized 50 x 1120 -1/4 x 44-1/8) (221) tate fin and copper tube) fan x 2 35			
Power consulturent Extern Dimen H x W x Net we Heat e	g capac g capac mption it al finish sion C D sight xchange	Cooling Heating Cooling Heating Heating Couling Couling Couling Couling Couling Couling	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 12: (18-9/16 x 49) 100 Cross fin (Aluminum pi	z / 3N~380-415V 60Hz 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.38 / 0.86 0.68 / 0.86 0.68 / 0.86 0.714 x 44-1/8) (221) 1ate fin and copper tube) fan x 2 35 563			
Power consulturent Extern Dimen H x W x Net we Heat e	g capac g capac mption it al finish sion c D ight xchange	Cooling Heating Cooling Heating Heating Couling Couling Couling Couling Couling Couling	BTU/h kW BTU/h kW kW A A mm(in.)	3-phase 380-415V 50H 22.4 76.400 21.2 72.300 0.34 / 0.42 0.54 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvix 470 x 12: (18-9/16 x 49 100 Cross fin (Aluminum) Cross fin (Aluminum) Sirocce 467 989	z / 3N~ 380-415V 60Hz 28.0 95.500 28.5 90,400 0.397.0.50 0.397.0.50 0.68 / 0.86 nized 50 x 1120 1.14 x 44-1/8) 21 tel fin and copper tube) 1 fan x 2 35 583 1236			
Power consu Curren Extern Dimen 1 x W : Net we Heat e	g capac g capac mption it al finish sion c D eight xchange Type x Airflow	Cooling Heating Cooling Heating Heating Couling Heating	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 12: (18-9/16 x 49) 100 Cross fin (Aluminum pi	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.88 / 0.86 0.68 / 0.86 0.6			
Power consulturent Extern Dimen H x W x Net we Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow	Cooling Heating Cooling Heating Heating Couling Cooling Heating rate 380V	BTU/h kW BTU/h kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvi 470 x 12: (1.8-y16x 49 100 Cross fin (Aluminum pl Sirocce 28 467 988 140 / 200	z / 3N~380-415V 60Hz			
Power consulturent Extern Dimen H x W x Net we Heat e	g capac g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static	Cooling Heating Cooling Heating Cooling Heating er Quautity rate 380V 400V	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.75 / 0.74 0.75 / 0.	z / 3N~380-415V 60Hz 28.0 95.500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.87 0.88 / 0.86 0.88 / 0.86 0.88 / 0.88			
Power consu Curren Extern Dimen 1 x W : Net we Heat e	g capac g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure	Cooling Heating Cooling Heating Cooling Heating er Quautity rate 380V 400V	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Aluminum pl Cross fin (Aluminum pl Siroccc 28 467 989 140 / 200 150 / 210 160 / 220	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.89 / 0.50 0.68 / 0.86 nized 50 x 1120 501 x 4 x 44.1/8) 221) ate fin and copper tube) fan x 2 583 1236 110 / 190 120 / 200 130 / 210			
Cooline Power Consu Curren Exterm Dimen 1 x W x Net wed Fan	g capac g capac g capac g capac mption it al finish sion D bight xchange Type x Airflow External static pressure Type	Cooling Heating Cooling Heating Cooling Heating Heating Heating Heating Prate Report R	BTU/h kW BTU/h kW kW kW A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Aluminum pl Cross fin (Aluminum pl 88 467 988 140 / 200 150 / 210 160 / 220 3-phase ind	z / 3N~380-415V 60Hz 28.0 95.500 26.5 96.400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 nized 50 x 1120 114 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 683 1236 110 / 190 120 / 200 130 / 210 uction motor			
Cooling Heatin Power consu Curren Extern Dimen H x W x Net we Heat e	g capac g capac mption ut al finish sion c D sight xchange Type x Airflow External static pressure Type Output	Cooling Heating Cooling Heating Heating Ber Quautity rate 380V 400V 415V	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12 (18-916 x 49 100 Cross fin (Aluminum pl Sirocce 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 -1/4 x 44-1/8) 221) tate fin and copper tube) fan x 2 35 583 1238 1128 110 / 190 130 / 200 130 / 210 uction motor			
Heatin Power Consu Curren Extern Dimen 1 x W 2 Net we Heat e	g capac g capac g capac g capac mption it al finish sion D bight xchange Type x Airflow External static pressure Type	Cooling Heating Cooling Heating Heating Ber Quautity rate 380V 400V 415V	BTU/h kW BTU/h kW kW kW A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Aluminum pl Cross fin (Aluminum pl 88 467 988 140 / 200 150 / 210 160 / 220 3-phase ind	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 -1/4 x 44-1/8) 221) tate fin and copper tube) fan x 2 35 583 1238 1128 110 / 190 130 / 200 130 / 210 uction motor			
Cooling Heatin Power Consu Curren Extern Dimen H x W 3 Net we Heat e	g capac g capac mption ut al finish sion c D sight xchange Type x Airflow External static pressure Type Output	Cooling Heating Cooling Heating Heating er Quautity rate 380V 400V 415V	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Alumium) Cross fin (Alumium) Siroccc 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven	z / 3N-380-415V 60Hz			
Cooling Heatin Power consu Curren Extern H x W : Net we Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure Type Output or (option	Cooling Heating Cooling Heating Heating Cooling Heating Heating Heating Alberta Cooling Heating Heatin	BTU/h kW BTU/h kW kW kW A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12 (18-916 x 49 100 Cross fin (Aluminum pl Sirocce 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	z / 3N~ 380.415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.89 / 0.50 0.68 / 0.86 inized 50 x 1120 -1/4 x 44-1/8) 221) tate fin and copper tube) fan x 2 583 1236 110 / 190 110 / 190 130 / 210 uction motor			
Cooling Heatin Power consu Curren Extern Dimen H x W 2 Net wee Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure Type Output or (optio	Cooling Heating Cooling Heating Heating Ouautity rate 380V 400V 415V Gas (Flare)	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Cross fin (Alumium) Cross fin (Alumium) Siroccc 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven	z / 3N-380-415V 60Hz			
Cooling Heatin Power consu Curren Extern Dimen H x W 2 Net wee Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure Type Output or (option	Cooling Heating Cooling Heating Parameter Guautity Trate 380V 400V 415V Gas (Flare) Liquid	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12 (18-916 x 49 100 Cross fin (Aluminum) Fronce 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven e19.05 (e3/4)	z / 3N~ 380-415V 60Hz 28.0 95.500 28.5 90,400 0.39 / 0.50 0.89 / 0.50 0.68 / 0.86 inized 50 x 1120 50 x 1120 114 x 44-1/8) 221) tate fin and copper tube) fan x 2 583 1236 110 / 190 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type) e22.2 (e7/8)			
Cooling Heatin Power consu Curren Extern Dimen H x W x Net we Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure Type Output or (optio	Cooling Heating Cooling Heating Heating Ouautity rate 380V 400V 415V Gas (Flare)	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 77,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	z / 3N~380-415V 60Hz			
Heatin Power consu Curren Extern Dimen H x W 3 Net we Heat e	g capac g capac mption it al finish sion c D sight xchange Type x Airflow External static pressure Type Output or (optio	Cooling Heating Cooling Heating Cooling Heating Guautity rate 380V 400V 415V Gas (Flare) Liquid (Flare)	BTU/h kW BTU/h kW kW A A A mm(in.) kg(lbs.) m²/min L/s cfm Pa Pa Pa kW mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvit 470 x 12 (18-916 x 49 100 Cross fin (Aluminum) Fronce 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unmoven e19.05 (e3/4)	z / 3N~380-415V 60Hz			
Heatin Power consu Curren Extern Discourse Heat e Heat e Fan Motor Refrige pipe di	g capac g capac mption it al finish sion rigight xxchange Type x Airflow External static pressure Output ur (optio erant ameter	Cooling Heating Cooling Heating Cooling Heating or Quautity rate 380V 400V 415V Gas (Flare) Liquid (Flare) diameter	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.) m-/min L/s cfm Pa Pa kW mm(in.) mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 77,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 0.58 / 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	z / 3N~380-415V 60Hz			
Coolin, Heatin Power consu Currer Extern Dimen H x W: Net we Heat e Fan Motor Air filte Refrige pipe di	g capac g capac g capac g capac mption tt al finish sion k D ight xxchange Type x Airflow External static pressure Output rr (optio	cooling Heating Cooling Heating Cooling Heating Cooling Heating Heating associated Heating associated Heating Cooling Heating Frate associated Heating Cooling Heating Frate Cooling Heating Cooling Heatin	BTU/h kW BTU/h kW A A A mm(in.) kg(lbs.) m³/min L/s cfm Pa Pa Pa kW mm(in.) db(A)	3-phase 380-415V 50H 22.4 76,400 21.2 77,300 .0.34 / 0.42 .0.34 / 0.42 .0.35 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.74 .0.58 / 0.79 .0.70 / 0.70 /	z / 3N~ 380-415V 60Hz 28.0 95.500 95.500 96.50 90.400 0.39 / 0.50 0.39 / 0.50 0.39 / 0.50 0.38 / 0.50 0.88 / 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86			
Cooling Heatin Power consu Curren Extern Dimen 1 x W 3 Net we Heat e Fan Motor Air filte Refrige Goige Goige Field dr	g capac g capac mption it al finish sion rigight xxchange Type x Airflow External static pressure Output ur (optio erant ameter	Cooling Heating Cooling Heating Cooling Heating or Quautity rate 380V 400V 415V Gas (Flare) Liquid (Flare) diameter	BTU/h kW BTU/h kW kW A A mm(in.) kg(lbs.) m-/min L/s cfm Pa Pa kW mm(in.) mm(in.)	3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galvix 470 x 12: (18-9/16 x 49 0.58 / 0.74 0.75 / 0.75 / 0.75 0.75 / 0.75 /	z / 3N~ 380-415V 60Hz 2 / 30 95.500 2 / 26.5 90.400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.56 0.			

PEFY-P80VMH-E-F PEFY-P140VMH-E-F

INDOOR UNIT Ceiling suspended type

PCFY-P VKM-E



Designed for ultra-quiet operation and easy maintenance, provides exceptionally comfortable air-conditioning.



Extra slim, extra stylish

Sleek and slim with stylishly curved lines, the PCFY series blends right into any interior. It also features a single air outlet which allows the auto vane to act as a shutter when the unit is turned off.

Auto vane distributes air evenly

The auto vane swings up and down automatically to distribute air more evenly to every corner of the room.

Long life filter as standard

Long life filter is equipped as standard enabling up to 2,500 hours of operation (office use) without maintenance.

Keeps airflow at optimum level according to ceiling height

The most suitable airflow can be selected for ceilings up to 4.2m high, enhancing air-conditioning efficiency and comfort. (P100/P125)

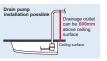
	Standard	High ceiling
Ceiling height	3.0(9-13/16)	4.2(13-3/4)

Greatly simplified installation

The direct suspension system eliminates the task of removing

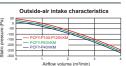
Drain pump option available with all models

The pumping height of the increased from 400 mm to 600 mm, expanding flexibility in choosing unit location during installation



Outside-air intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-



Equipped with automatic air-speed adjustment

In addition to the conventional 4-speed setting, units are now equipped with and automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



► Specifications

				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E				
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz	•				
0		*1	kW	4.5	7.1	11.2	14.0				
Cooling	g capacit	y *1	BTU/h	15,400	24,200	38,200	47,800				
		*1	kW	5.0	8.0	12.5	16.0				
пеашц	g capacit	y *1	BTU/h	17,100	27,300	42,700	54,600				
Power		Cooling	kW	0.04	0.05	0.09	0.11				
consu	mption	Heating	kW	0.04	0.05	0.09	0.11				
Current		Cooling	A	0.28	0.33	0.65	0.76				
He		Heating	Α	0.28	0.33	0.65	0.76				
External finish(Munsell No.)		lo.)		6.4Y 8							
D:	sion H x	W D	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680				
Dilliens	SIUII II X	WXD	in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 6	3 x 26-3/4				
Net we	ight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)				
Heat ex	xchangei	r		Cross fin (Aluminum fin and copper tube)							
	Type x	Quantity		Sirocco fan x 2	Sirocco fan x 3 Sirocco fan x 4						
	Airflow	roto *2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31				
Fan	(Lo-Mid2		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517				
	(LU*MIUZ	-wiiu i -rii)	cfm	353-388-424-459	494-530-565-636	742-847-953-1,095					
	External sta	atic pressure	Pa		0						
Motor	Type				DC n						
IVIOLOI	Output		kW	0.090	0.095	0.1	60				
Air filte	r				PP Honeycon	mb (long life)					
Refrige	erant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	5 (ø3/4) (Compatible)				
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)					
Field dr	rain pipe	diameter	mm(in.)		O.D. 2	26 (1)					
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *			dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44				

INDOOR UNIT Wall mounted type

PKFY-P VBM-E PKFY-P VHM-E PKFY-P VKM-E



Elegant Design and Compact Dimensions Ideal for Offices, Stores and Residential Uses.



Capacity	range							
Capacity	P15	P20	P25	P32	P40	P50	P63	P100
VBM	0	0	0					
VHM				0	0	0		
VKM								

4-way piping provides more flexibility in selecting installation sites

All piping including drainage can be connected from the rear, right, base, and left of the unit, providing much greater flexibility in piping and selecting installation site.

Flat panel & Pure white finish

All models have changed from the grill design, adopting the flat panel layout.
Pursuing a design that harmonizes with virtually any interior, the unit color has been changed from white to pure white.



Built-in signal receiver

PKFY-P VBM features

Quiet operation

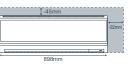
PKFY-P VHM features Light unit

Compact size of 898mm

Width size reduced to match small size buildings and offices.

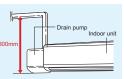
Approx. 3kg reduced from conventional model (P32-50). Easier installation.





Drain pump (option)

The optional drain pump allows the drain connection to be raised as high as 800mm, allowing more freedom in piping layout design.



► Specifications

				PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E	
Power	source					1-phase 220-240V 50H	lz / 1-phase 220V 60H	Z		
0 "		. *1	kW	1.7	2.2	2.8	3.6	4.5	5.6	
Cooling	g capaci	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	
116		. *1	kW	1.9	2.5	3.2	4.0	5.0	6.3	
neaung	g capaci	^{ty} *1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	
Power	C	cooling *4	kW		0.04			0.04		
consun	nption H	leating	kW		0.04			0.03		
Curren		ooling*4	Α		0.20			0.40		
Curren	' F	leating	Α		0.20			0.30		
Externa	al finish(Munsell N	No.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)		
Dimens	Dimension H x W x D mm(in.			295 x 815	x 225 (11-5/8 x 32-1/8	3 x 8-7/8)	295 x 898	x 249(11-5/8 x 35-3/8	x 9-13/16)	
Net we	Net weight kg		kg(lbs.)		10 (23)			13(29)		
Heat ex	kchange						fin and copper tube)			
	Type x Quantity					Line flow	v fan x 1			
	Airflow	rate *2	m³/min	4.9-5.0-5.2-5.3	4.9-5.2	-5.6-5.9	9-10-11	9-10.5-11.5	9-10.5-12	
Fan		2-Mid1-Hi)	L/s	82-83-87-88	82-87	-93-98	150-167-183	150-175-192	150-175-200	
	(LO-IVIIG.	L-WIIG 1-1 II)	cfm	173-177-184-187	173-184	-198-208	318-353-388 318-371-406 318-371-424			
	External st	atic pressure	Pa			(0			
Motor	Type			1	-phase induction moto	r	DC motor			
	Output		kW		0.017		0.030			
Air filte	r					PP Hon	eycomb			
		Gas	mm(in.)			ø12.7 (ø1/2)			ø12.7 (ø1/2) / ø15.88 (ø5/8)	
Refrige	rant	(Flare)	()			012.1 (01/2)			(Compatible)	
pipe di	ameter	Liquid	mm(in.)			ø6.35 (ø1/4)			ø6.35 (ø1/4) / ø9.52 (ø3/8)	
		(Flare)	, ,						(Compatible)	
		diameter	mm(in.)			I.D.16	3 (5/8)			
	pressur		dB(A)	29-31-32-33	29-31	34-36	34-37-41	34-38-41	34-39-43	
(Lo-Mic	(Lo-Mid2-Mid1-Hi) *2 *3		UD(A)	25 51-02-05	25-31	-04-00	04-07-41	3.50-41	5.00-40	
							•	•	•	

- 1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°(618°F)DB19°(66°F)MB, Outdoor 35°C(95°F)DB Heating Indoor: 20°C(66°F)DB, Outdoor 7°C(45°F)DB16°C(43°F)MB
- *3 It is measured in anechoic room.
- *4 Electrical characteristic of cooling are included optional drain-pump

				PKFY-P63VKM-E	PKFY-P100VKM-E		
Power:	source			1-phase 220-230-240V 50	0Hz / 1-phase 220V 60Hz		
Cooling	oonooi	*1	kW	7.1	11.2		
Cooling	capaci	- 1	BTU/h	24,200	38,200		
Heating		*1	kW	8.0	12.5		
пеашц	гарас	^{11.y} *1	BTU/h	27,300	42,600		
Power	(Cooling *4	kW	0.05	0.08		
consum	ption I	Heating	kW	0.04	0.07		
Current		Cooling *4	Α	0.37	0.58		
Current	ŀ	Heating	Α	0.30	0.51		
Externa	ıl finish((Munsell N	lo.)	Plastic (1.0			
Dimens	ion H	x W x D	mm(in.)	365 x 1,170 x 295 (14-			
Net wei	ght		kg(lbs.)	21 (
Heat ex	change	er		Cross fin (Aluminum			
	Туре х	ype x Quantity		Line flow			
	Airflow	rate *2	m³/min	16-20	20-26		
Fan	(Lo-Hi		L/s	267-333	333-433		
	(LO-111	,	cfm	565-706	706-918		
	External s	static pressure	Pa	C	•		
Motor	Type			DC n			
WOLOI	Outpu	t	kW	0.0	56		
Air filter	-			PP Hone			
		Gas	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4)		
Refrige		(Flare)	()	\$10.00 (\$670)	(Compatible)		
pipe diameter Liquid (Flare)			mm(in.)	ø9.52	(ø3/8)		
Field dr	ain pipe	diameter	mm(in.)	I.D. 16	6(5/8)		
Sound pressure level (Lo-Hi) *2 *3			dB(A)	39-45	41-49		

- *1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling indoor: 27°C(81°F)DB/19°C(68°F)WB, Outdoor: 35°C(98°F)DB Heating Indoor: 20°C(98°F)DB, Outdoor: 7°C(945°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-high).

INDOOR UNIT Floor standing exposed

PFFY-P VKM-E



For living rooms, bed rooms, or offices where a sophisticated design is required. The latest Mitsubishi innovation – floor-standing air-conditioner sophisticated in design, rich in function.



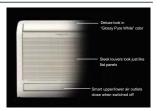
Quiet operation

Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floorstanding models are no exception. It can create a silent and comfortable space where the occupants would not even recognize the existence of air conditioner operation.



Sophisticated Design

From Mitsubishi Electric, an innovative new floor-standing air-conditioner. Our pleasing mix of streamlined form and diversified function. Engineered to



Engineered to keep room walls free, furnish comfy cooling in summer, toasty heating in winter.

The "Glossy Pure White" colour ensures a deluxe look, the perfect match for any room. Both upper and lower air outlets remain closed when switched OFF, in a smart and striking image.

A superb new air-conditioner from Mitsubishi, providing a handsome fit for your own distinctive interior.

Slim but Mighty

The unit body is slim and trim, the essence in compact.

An ideal size for living rooms, bedrooms, and more. The removable and washable front panel makes cleaning a snap.

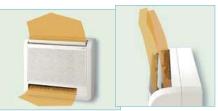


Easy and regular cleaning allows your air-conditioner stay beautiful while keeping its energy-efficient operation always possible.

Optimum Air Distribution

Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through upper and lower air outlets. The upper vane angle is remote controllable, with 5 air flow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode).

By setting the vane angle almost vertical, annoying direct wind can be avoided for your better comfort.



The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at the floor level: Your feet do not feel chilled any more!



► Specifications

Power source			PFFY-P20VKM-E	PFFY-P25VKM-E	PFFY-P32VKM-E PFFY-P40VKM-E								
Power	source				1-phase 220)-240V 50Hz							
Coolin	g capacit	. *1	kW	2.2	2.8	3.6	4.5						
Coomi	у сарасп	* *1	BTU/h	7,500	9,600	12,300	15,400						
Hootin	g capaci	*1	kW	2.5	3.2	4.0	5.0						
пеаш	у сарасі	1	BTU/h	8,500	10,900	13,600	17,100						
Power		Cooling	kW	0.025	0.025	0.025	0.028						
consur	mption	Heating	kW	0.025	0.025	0.025	0.028						
Current		Cooling	A	0.20	0.20	0.20	0.24						
Current		Heating	A	0.20	0.20	0.20	0.24						
Extern	al finish				Plastic (P	ure white)							
Dimen	sion		mm		600 x 700 x 200								
HxW	x D		in.	23-5/8 x 27-9/16 x 7-7/8									
Net we	eight		kg(lbs.)	15 (34)									
Heat e	xchange	r		Cross fin (Alminium plate fin and copper tube)									
	Type x	Quantity		Line flow fan x 2									
Fan	Airflow (Lo-Mic	rate I-Hi-SHi)	m³/min	5.9-6.8-7.6-8.7	5.9-6.8-7.6-8.7 6.1-7.0-8.0-9.1 6.1-7.0-8.0-9.1								
	Eaterna		Pa		0								
Motor	Type				DC n	notor							
IVIOIOI	Output		kW		0.03	3 x 2							
Air filte	er				PP honeycomb fab	ric (Catechin Filter)							
Refrige	erant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)							
pipe di	iameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)							
Field d	Irain pipe	diamete	r		I.D.16	6 (5/8)							
Sound pressure I (Lo-Mid-Hi-SHi)		ire level		27-31-34-37	28-32-35-38 28-32-35-38 35-3								

lotes:

*1 Cooling/heating capacity indicates the maximum value at operation under the following condition Cooling Indoor: 22*C(81*F)DB19*C(86*F)WB, Outdoor: 35*C(85*F)DB

INDOOR UNIT Floor standing exposed

PFFY-P VLEM-E



Floor mounted lowboy type effective in perimeter zone.



Standardized design with mild lines.
Supports various types of spaces from office buildings and shop buildings to hospitals.
Water vapor permeable film humidifier can be installed.
Remote controller can be installed onto the main unit.

Compact unit for easy air conditioning in perimeter zone.

The compact body of 220mm(8-11/16in.) in depth can be easily installed in the perimeter zone for effective air conditioning in the perimeter zone.

Electronics dry function dehumidify refreshingly.

Optimum dehumidification depending on indoor temperature to prevent over-cooling. Refreshing dehumidification can be attained.

► Specifications

				PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E					
Power	source				1-p	hase 220-240V 50Hz /	1-phase 208-230V 60	Hz						
05	capacit	. *1	kW	2.2	2.8	3.6	4.5	5.6	7.1					
Cooling	j capacii	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200					
11	:	. *1	kW	2.5	3.2	4.0	5.0	6.3	8.0					
пеаші	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300					
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11					
consur	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11					
		Cooling	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47					
Heating		Heating	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47					
External finish(Munsell No.)			lo.)			Acrylic pai	nt (5Y 8/1)	•						
Dimone	sion H x	W v D	mm	630 x 1,0	050 x 220	630 x 1,1		630 x 1,4	110 x 220					
Dimens	SION TIX	WXD	in.	24-13/16 x 41	-3/8 x 8-11/16	24-13/16 x 46	-1/8 x 8-11/16	24-13/16 x 55	-9/16 x 8-11/16					
Net we	ight		kg(lbs.)	23	(51)	25 (56)	26 (58)	30 (67)	32 (71)					
Heat ex	kchange	r			Cross fin (Aluminum plate fin and copper tube)									
	Type x	Quantity		Sirocco	fan x 1		Sirocco	fan x 2						
	A:0		m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5					
Fan	(Lo-Hi)	rate *2	L/s	92-108		117-150	150-183	200-233	200-258					
	(LO-HI)	·Hi) cfm		194-230		247-318 318-388		424-494	424-547					
	External sta	atic pressure	Pa		0									
Motor	Type					1-phase indi	uction motor							
IVIOLOI	Output		kW	0.0)15	0.018	0.030	0.035	0.050					
Air filte	r					PP Honeycomb f	abric (washable)							
Refrige	rant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)					
pipe diameter Liquid		Liquid (Flare)	mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)					
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>						
Sound pressure level (Lo-Hi) *2 *3 *4			dB(A)	34	-40	35-40	38-	40-46						

Notes:

- 1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB,Outdoor;35°C(95°F)DB
- *2 Air flow rate/Sound pressure level are in (Low-High)
- Measured point : 1m x 1m, Power supply : AC240V/50Hz · 1dB(A) lower at AC230V/50Hz

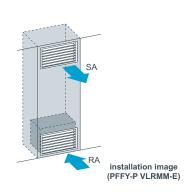
INDOOR UNIT Floor mounted concealed type

PFFY-P VLRM-E PFFY-P VLRMM-E



Neatly installed with pericover concealed. Easy installation in perimeter zone.





Compact unit for easy air conditioning in perimeter zone.

The body is concealed in the pericover to pursue harmony with the interior. The compact body of 220mm(8-11/16in.) in depth can be easily installed in the perimeter zone.

Electronics dry function dehumidify refreshingly to prevent over-cooling.

Optimum dehumidification depending on indoor temperature to prevent over-cooling. Refreshing dehumidification can be attained.

Maximum external static pressure 60Pa (VLRMM model)

The additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration.

► Specifications

				PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E	
Power	source					hase 220-240V 50Hz				
Cooling	capacit	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Cooliné	g capacii		BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Hooting	q capacit	. *1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
пеаші	у сарасп	- 1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power		Cooling	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Current		Cooling	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
Curren	Current		Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
External finish(Munsell No.)			lo.)			Galvanized	steel plate			
Dimon	sion H x	W D	mm	639 x 8	86 x 220	639 x 1,0	06 x 220	639 x 1,2	246 x 220	
Dimens	SIOII II X	W X D	in.	25-3/16 x 34-1	15/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-	1/16 x 8-11/16	
Net we	ight		kg(lbs.)	18.5	(41)	20 (45)	25 (56)	27 (60)		
Heat ex	xchange	r			(Cross fin (Aluminum pla	ate fin and copper tube)		
	Type x	Quautity		Sirocco	fan x 1		Sirocco	fan x 2		
	Airflow	roto *2	m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5	
Fan	(Lo-Hi)	iate	L/s	92-	108	117-150	150-183	200-233	200-258	
	(LU-HI)		cfm	194	-230	247-318 318-388		424-494	424-547	
	External st	atic pressure	Pa			0				
	Type					1-phase ind	uction motor			
Motor	Output		kW	0.0)15	0.018	0.030	0.035	0.050	
Air filte	r					PP Honeycomb t	fabric (washable)			
Refrige	erant	Gas (Flare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)	
pipe dia	ameter	Liquid (Flare)	mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)	
Field dr	rain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.:<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))></td><td></td></accessory>	27 (1-3/32) (top end :20	(13/16))>		
Sound pressure level (Lo-Hi) *2 *3 *4		level *2 *3 *4	dB(A)	34	-40	35-40	38	38-43		

Notes

Cooling/Heating capacity indicates the maximum value at operation under the following condition.
 Cooling Indoor: 27°C(81°F)DB/19°C(68°F)WB, Outdoor 35°C(95°F)DB
 Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Air flow rate/Sound pressure level are in (Low-High)

*3 Measured point : 1m x 1m, Power supply : AC240V/50Hz ·1dB(A) lower at AC230V/50Hz ·2dB(A) lower at AC220V/50Hz ·3dB(A) lower at 1.5m x 1.5m point

*4 It is measured in anechoic room.

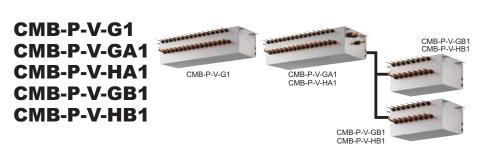
				PFFY-P20VI RMM-F	PFFY-P25VI RMM-F	PFFY-P32VI RMM-F	PFFY-P40VLRMM-E	PFFY-P50VI RMM-F	PFFY-P63VI RMM-F		
Power	source			1111120V21444412			1-phase 220-240V 60		11111100VERMINE		
		*1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Coolin	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Heatin	g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Power		Cooling	kW	0.	04	0.04	0.05	0.05	0.07		
consumption		Heating	kW	0.	04	0.04	0.05	0.05	0.07		
Curren		Cooling	Α	0.	34	0.38	0.43	0.48	0.59		
Curren	IL	Heating	Α	0.	34	0.38	0.43	0.48	0.59		
Extern	al finish(!	Munsell N	lo.)			Galvanized	steel plate				
Dimon	sion H x	W v D	mm		36 x 220	639 x 1,0			246 x 220		
Dimen	SION TIX	WXD	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	25-3/16 x 39-5/8 x 8-11/16 25-3/16 x				
Net we	eight		kg(lbs.)	18.5	(41)	20 (45)	21 (47)	25 (56)	27 (60)		
Heat e	xchange					Cross fin (Aluminum pla	ate fin and copper tube				
	Type x (ype x Quautity		Sirocco	fan x 1		Sirocco				
	Airflow	rate	m³/min	4.5-5		6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5		
Fan	(Lo-Mid-H		L/s	75-92	2-108	108-125-150	133-158-183	167-200-233	183-217-258		
	,		cfm	159-19	94-230	230-265-318					
	External stati	c pressure *2	Pa			20/4					
Motor	Туре					DC n					
	Output		kW			0.0					
Air filte	er					PP Honeycomb f					
Refrige		Gas	mm(in.)			ø12.7 (ø1/			ø15.88 (ø5/8) Brazed		
	iameter	Liquid	mm(in.)			ø6.35 (ø1/			ø9.52 (ø3/8) Brazed		
	rain pipe		mm(in.)				27 (1-3/32) (top end :20				
	pressure	20Pa	dB(A)		6-40	27-32-37	30-36-40	32-37-41	35-40-44		
level (L	o-Mid-Hi)	40Pa	dB(A)		9-42	30-35-41	32-38-42	35-40-44	36-42-47		
	*3	60Pa	dB(A)	35-4	0-43	32-37-42	3.5-39-44 36-41-45		38-43-48		

Notes:

Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor: 27°C(81°F)DB19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor: 20°C(68°F)DB, Outdoor 75°C(45°F)DB10°C(43°F)WB
pipe length: 7.5m(24-9/16ft) Height difference: 0m(0ft)

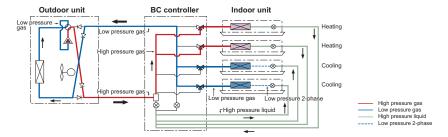
pipe length . 7.5m(24-9/10tt) Reight difference . 0m(0tt)





BC CONTROLLER

In many ways, the BC Controller is the technological heart of the CITY MULTI R2/WR2. It works in unison with the outdoor unit to provide simultaneous cooling and heating, something no other two-pipe system can do. The BC Controller is connected to the outdoor unit by two pipes and to each indoor unit by a series of two refrigerant pipes, depending on the indoor unit count. The BC Controller is required for all CITY MULTI R2-Series installations. It comes in 4, 5, 6, 8, 10, 13, and 16-branch options. The BC Controller you select depends on how many indoor units will be operated from each outdoor unit and your total capacity requirements.



▶ Specifications

Model name					CMB-P104V-G1	CMB-P105V-G1	CMB-P106V-G1	CMB-P108V-G1	CMB-P1010V-G1	CMB-P1013V-G1	CMB-P1016V-G1		
Number of br	anch				4	5	6	8	10	13	16		
Power source	9						1-phase	220/230/240V 5	0Hz/60Hz				
			50Hz	Cooling	0.067/0.076/0.085	0.082/0.093/0.104	0.097/0.110/0.123	0.127/0.144/0.161	0.156/0.177/0.198	0.201/0.228/0.255	0.246/0.279/0.312		
Power input		kW	SUFIZ	heating	0.030/0.034/0.038	0.038/0.043/0.048	0.045/0.051/0.057	0.060/0.068/0.076	0.075/0.085/0.095	0.097/0.110/0.123	0.119/0.135/0.151		
Power input		KVV	60Hz	Cooling	0.054/0.061/0.067	0.066/0.074/0.082	0.078/0.088/0.097	0.102/0.115/0.127	0.126/0.141/0.156	0.162/0.182/0.201	0.198/0.222/0.246		
			00112	heating	0.024/0.027/0.030	0.030/0.034/0.038	0.036/0.041/0.045	0.048/0.054/0.060	0.060/0.068/0.075	0.078/0.088/0.097	0.096/0.108/0.119		
			50Hz	Cooling	0.31/0.34/0.36	0.38/0.41/0.44	0.45/0.48/0.52	0.58/0.63/0.68	0.71/0.77/0.83	0.92/1.00/1.07	1.12/1.22/1.30		
Current		A	SUFIZ	heating	0.14/0.15/0.16	0.18/0.19/0.20	0.21/0.23/0.24	0.28/0.30/0.32	0.35/0.37/0.40	0.45/0.48/0.52	0.55/0.59/0.63		
Current	A	60Hz	Cooling	0.25/0.27/0.28	0.30/0.33/0.35	0.36/0.39/0.41	0.47/0.50/0.53	0.58/0.62/0.65	0.74/0.80/0.84	0.90/0.97/1.03			
60Hz heating					0.11/0.12/0.13	0.14/0.15/0.16	0.17/0.18/0.19	0.22/0.24/0.25	0.28/0.30/0.32	0.36/0.39/0.41	0.44/0.47/0.50		
External finis	h					Gal	vanized steel pla	te (Lower part dra	ain pan painting h	V1.5)			
Indoor unit ca	apacity				Model P80 or smaller								
connectable	to 1 branch				(*Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81.)								
Connectable	Outdoor unit *				Refer to the combination chart of BC controller R2/WR2 series								
Height			mm		284								
Width			mm		648 1098								
Depth			mm					432					
							Connec	table outdoor unit	capacity				
	To outdoor					P200		P250, P300					
Refrigerant	unit	High p	ressure	e pipe		(ø5/8) Brazed		19.05 (ø3/4) Braz		ø19.05 (ø3/4) Brazed			
piping		Low p	ressure	pipe	ø19.05	(ø3/4) Brazed	e	22.2 (ø7/8) Braze	ed	ø28.58 (ø1-1/8	B) Brazed		
diameter		Liquid	nino			Indoor u	nit Model 50 or si	maller:ø6.35 braz	ed, Over 50:ø9.5	2 brazed			
	To indoor	Liquiu	pipe					th optional joint p					
	unit	Gas p	ino		Indoor unit Model 50 or smaller:ø12.7 brazed, Over 50:ø15.88 brazed								
		Gasp	ipe				(ø19.05 w	ith optional joint p	oipe used.)				
Drain pipe								O.D. 32mm					
Net weight kg 24 27 28 33 38 45 52						52							

► Specifications

Model name					CMB-P108V-GA	1	CMB-P1010					CMB-P1016V-HA1		
Number of bi	ranch				8		10			13		1	6	
Power source	В									80/240V 50Hz/	60Hz			
			50Hz	Cooling	0.127/0.144/0.16	31	0.156/0.177/	0.198	0.201/	0.228/0.255		0.246/0.2	279/0.312	
D		kW	30112	heating	0.060/0.068/0.07	76	0.075/0.085/	0.095	0.097/	0.110/0.123		0.119/0.1	35/0.151	
Power input		KVV	60Hz	Cooling	0.102/0.115/0.12	27	0.126/0.141/	0.156	0.162/	0.182/0.201		0.198/0.2	22/0.246	
			60HZ	heating	0.048/0.054/0.06	30	0.060/0.068/	0.075	0.078/	0.088/0.097		0.096/0.	108/0.119	
				Cooling	0.58/0.63/0.68		0.71/0.77/0			/1.00/1.07			22/1.30	
			50Hz	heating	0.28/0.30/0.32		0.35/0.37/0			/0.48/0.52			59/0.63	
Current		Α		Cooling	0.47/0.50/0.53		0.58/0.62/0			/0.80/0.84			97/1.03	
			60Hz	heating					/0.39/0.41			47/0.50		
External finis	h									ver part drain p	an naii			
Indoor unit ca							Odivanie	ou otoor p		80 or smaller	un pun	iting iti.o/		
connectable					(+11	lse n	ntional joint nin	e combin			total ur	nit capacity exce	ads 81)	
	Outdoor unit *				(0	00 0				art of BC contr			340 01.)	
Height	Outdoor unit A	Т	mm				110101 10 1	ino combi	manon or	289	Ollor 14	ETTTLE COLLOG		
Width			mm							1.110				
Depth			mm							520				
Бериі								Conn	ootoblo o	utdoor unit cap	ooit.			
					P200	_	P250.300	P3		P400~P50		P550~P650	P700~P800/P850~P900 *4	
	To outdoor						,						ø28.58 (ø1-1/8) Brazed/	
	unit	High	pressur	e pipe	ø15.88 (ø5/8) Brazed		ø19.05 (ø3/	4) Brazeo	d	ø22.2 (ø7/8) Bra	azed ø2	28.58 (ø1-1/8) Brazed	ø28.58 (ø1-1/8) Brazed	
		Low p	ressure	pipe	ø19.05 (ø3/4) Brazed	ø22.	.2 (ø7/8) Brazed		ø	28.58 (ø1-1/8) I	Brazed		ø34.93 (ø1-3/8) Brazed/ ø41.28 (ø1-5/8) Brazed	
Refrigerant	To indoor	Liquid pipe					Indoor unit Mo			ø6.35 brazed, ι onal joint pipe ι		0:ø9.52 brazed		
piping	unit	_					Indoor unit Mo):ø15.88 brazed		
diameter		Gas p	oipe							onal joint pipe				
							Total indo			nnected to this		C controller		
					~P200		P201~P3			01~P350		351~P400	P401~P450	
	To another BC	High	press ga	as pipe	ø15.88 (ø5/8) Braz	zed			/4) Braze			ø22.2 (ø7/8) Brazed		
	controller		ress ga		ø19.05 (ø3/4) Brazed ø22.2 (ø7/8)						ø28.58	(ø1-1/8) Brazed		
		Liquic					/8) Brazed			ø12.7 (ø1/			ø15.88 (ø5/8) Brazed	
Drain pipe					,,,,,	(,=,=,=,	,		0.0	D. 32mm	_,		2	
Net weight		kg			43		48			55		62	69	
Accessories					*Drain connection pipe (with flexible hose and insulation) *Reducer									
					CMD D404V CD4 CMD D400V CD4 CMD D404CV LID4									
Model name Number of bi	anah				CMB-P104V-GB1 CMB-P108V-GB1 CMB-P1016V-HB1 4 8 16									
Power source					4 8 1-phase 220/230/240V 50Hz/60Hz						10			
1 Ower source		_	_	Cooling	0.060/0.068/0.076			0.119/0.135/0.151			00112	0.237/0.269/0.301		
			50Hz	heating	0.030/0.0					0.068/0.076			9/0.135/0.151	
Power input		kW		Cooling	0.048/0.0					0.108/0.119			2/0.216/0.237	
			60Hz											
		_	-	heating	0.024/0.0					0.054/0.060			5/0.108/0.120	
			50Hz	heating	0.28/0.			0.55/0.59/0.63			1.08/1.17/1.26			
Current		Α		Cooling				0.28/0.30/0.32				0.55/0.59/0.63		
			60Hz					0.44/0.47/0.50				0.88/0.94/0.99		
Futured 6	L			heating	U.11/0.	12/0				0.24/0.25			4/0.47/0.50	
External finis							Gaivaniz	eu steel p		ver part drain p	an paii	iung N1.5)		
Indoor unit ca										80 or smaller			1.04)	
connectable					(•0	se o						nit capacity exce	sus o 1.)	
	Outdoor unit *							the combi	mation ch	art of BC contr	oller R	Z/VVKZ Series	284	
Height		-	mm											
Width								48					1,098	
Depth			mm					32			2 1 5 5		432	
										onnected this S	sub BC		D004 D450	
					~P200	_	P201~P3		01~P350				0, P201~P450	
	To Main BC	T. C. T.				_				1~P350	H	351~P400	P401~P450	
	controller		pressur		ø15.88 (ø5/8) Bra:				/4) Braze				/8) Brazed	
Refrigerant			ressure	pipe	ø19.05 (ø3/4) Bra:		. ,	prazed				8 (ø1-1/8) Brazed	45.00 / 5/0\ D :	
piping		Liquio	pipe		ø9.52	(ø3	/8) Brazed			ø12.7 (ø1/			ø15.88 (ø5/8) Brazed	
diameter	L	Liquic	pipe				Indoor unit Mo					0:ø9.52 brazed		
	To indoor									onal joint pipe u				
	unit	Gas	ipe				Indoor unit Mo):ø15.88 brazed		
					(ø19.05 with optional joint pipe used.)									
Drain pipe		kg			O.D. 32mm									
Net weight				22 32 55 *Drain connection pipe (with flexible hose and insulation) *Reducer										
	cessories											ion) •Reducer		

★ Combination chart of BC Controller for R2 series

★ Combination chart of BC Controller for WR2 series ,600

	P200,250,300,350	P400-650	P700-900
CMB-P V-G1	0	X	X
CMB-P V-GA1	0	0	X
CMB-P V-HA1	X	Х	0
CMB-P V-GB1	0	0	0
CMR-D V-HR1			

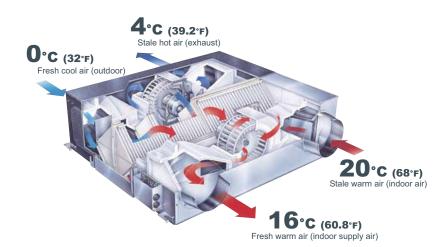
	P200,250,300	P400,450,500,550,6
CMB-P V-G1	0	X
CMB-P V-GA1	0	0
CMB-P V-HA1	X	X
CMB-P V-GB1	0	0
CMB-P V-HB1	0	0





The Ventilation System for Enhanced Air Quality - Lossnay

Combine with Lossnay Ventilation System Enhanced Air Quality. Unified Control System Allows Greater Design Freedom.



LGH-15RX5 [150m³/h Single phase 220-240V 50Hz] **LGH-80RX**5 [800m³/h Single phase 220-240V 50Hz] LGH-25RX5 [250m³/h Single phase 220-240V 50Hz] LGH-100RX5 [1000m³/h Single phase 220-240V 50Hz] LGH-100RX5 [1000ff /ff Single phase 220-240V 50Hz] LGH-150RX5 [1500m³/h Single phase 220-240V 50Hz] LGH-200RX5 [2000m³/h Single phase 220-240V 50Hz] **LGH-35RX5** [350m³/h Single phase 220-240V 50Hz] **LGH-50RX**5 [500m³/h Single phase 220-240V 50Hz] **LGH-65RX**5 [650m³/h Single phase 220-240V 50Hz]

Heat-Exchange Efficiency Obtainable Only with Lossnay.

The secret to the unmatched comfort provided by Lossnay core is the cross-flow, plate-fin structure off the heat-exchange unit. A diaphragm made of a specially processed paper fully separates inducted and exhausted air

The superior heat-transfer and moisture permeability of the special paper assure highly effective total heat exchange

LOSSNAY Technology

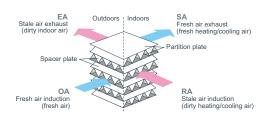
• Two paths ventilation

LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.

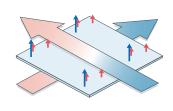
• Total energy recover

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation



B. Total Energy transfer



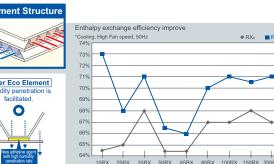
Hyper Eco Core

Better energy conservation by improved total heat exchange efficiency.



Introducing the new Hyper Eco Element

Mitsubishi's newly developed Hyper Eco Element is on board, offering the industry's best total heat exchange efficiency. Energy conservation performance has been improved not only by reducing the air conditioning load associated with ventilation, but also by facilitating humidity penetration.



supplies, ensuring that only fresh air is introduced to the indoor environment.

(temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.



Why LOSSNAY is necessary.

Without ventilation...

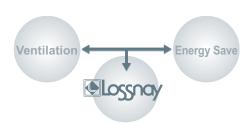
Lack of Ventilation makes people sick by dirty indoor air including CO₂, Dust, Bacteria.

• If just opening windows...

Opening windows eliminates dirty air BUT wastes much air-con energy.

• So we recommend LOSSNAY

LOSSNAY is simultaneous pursuit of Ventilation and Energy Saving.



• This is LOSSNAY!

ADVANTAGES

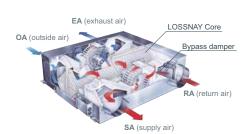
Clean air supply, dirty air exhaust by Two air paths (OA → SA and RA → EA)

Energy recovery by LOSSNAY Core

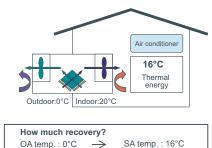
Free cooling by bypass damper

MULTI VENTILATION MODE for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)

UNIT STRUCTURE



Energy Recovery Image

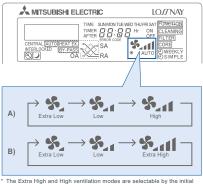


(Indoor 20°C)

Extra Low Mode

■Additional energy conservation by using a four-level air volume system that allows more precise control.

In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra Low operation when the operation stop button is activated and it is accordingly possible to implement 24-hour energy conservation ventilation.



- setting.

 * Extra-Low not equipped LGH-150RXs and 200RXs.

 * The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

Energy Saving by WEEKLY timer

Air volume level can be set hourly (max 8 times) and weekly. You can pre-set air volume according to the predictable requirement so that LOSSNAY can automatically operate at only necessary air-speed at the specified time period, which saves power consumption while maintaining the indoor air quality. Besides, once the weekly timer has been set, no switching on-off is required.

Example A (Hourly) current RX4 series with PZ-41SLB controlle new RXs series with PZ-60DR-E 8:00 9:00 12:00 13:00 17:00 | low | high | low | high | low | Total power consumption in one day: LGH-100RX $_{\circ}$ E : 6,600W (14 hours) LGH-100RX $_{\circ}$ E : 5,390W (14 hours) \longrightarrow 1,210W (18%) less

New function: "By-pass" Ventilation External Control Setting

In addition to the automatic damper open/close function, open/close control via external devices is now possible, delivering a "By-pass" ventilation system that is suitable to the installed environment.

Establish the wire connection by inserting the optional remote display adaptor (PAC-SA88HA-E) in the connector CN16 (Ventilation mode selector).

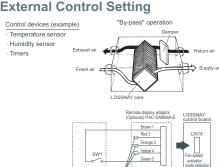
With SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

•Automatic ventilation setting

The automatic damper mode automatically provides the correct ventilation for the conditions in the room. The following shows the effect "By-pass" ventilation will have under various conditions.

1. Reduces cooling load

If the air outside is cooler than the air inside the building during the cooling season (such as early morning or at night), "By-pass" ventilation will draw in the cooler outside air and reduce the cooling load



2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that has accumulated in buildings a business district during the hot summer season.

3. Office equipment room cooling

During cold season, fresh air can be drawn in and used as is to cool rooms where the temperature has risen due to the use of office equipment.

- *When the outdoor air tempereture drops lower than 8°C it changes to the heat exchange ventilation. (Display of the remote controller does not change.)
 *In the case of *By-pass' ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the

New Remote Controller PZ-60DR-E

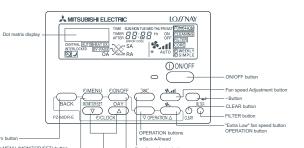
A new remote controller for the RX5 series is now available. In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of new functions which also pursue additional energy conservation.

The appearance of the remote controller conforms to Mitsubishi air conditioner interface design standards.

Functions that were set using Dip-Switch on the LOSSNAY main unit can now be configured as needed using the new remote controller.
This eliminates the need to crawl

under the eaves to change operation

Also, a newly adopted dot matrix display provides much more information, making it easy to check maintenance indications, operation status display, and explanations required when configuring settings.





Model line up

LGH-15~100RX5-E

■ Specification

LGH-15RX5-E

Model			50Hz / Single phase 220-240V LOSSNAY ventilation By-pass ventilation							
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		0.44-0.46	0.37-0.38	0.25-0.25	0.14-0.15	0.45-0.46	0.37-0.38	0.25-0.26	0.14-0.15	
Power consumption (W)		96-110	80-90	53-59	30-35	97-110	81-91	54-61	30-35	
Air volume	(m³/h)	150	150	110	70	150	150	110	70	
Air volume	(L/s)	42	42	31	19	42	42	31	19	
External static pressure	(mmH ₂ O)	10.2-10.7	6.6-7.1	3.6-4.1	1.4	10.2-10.7	6.6-7.1	3.6-4.1	1.4	
External static pressure	(Pa)	100-105	65-70	35-40	14	100-105	65-70	35-40	14	
Temperature exchange efficiency (%)	82.0	82.0	84.0	85.5	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	75.0	75.0	77.5	81.0	_	_	_	_	
Entitalpy exchange entitlerity (%)	Cooling	73.0	73.0	76.5	81.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		27.5-28	26.5-27	22-23.5	18	28.5-29	27-28	23-24	18-19	
Weight (kg)					2	20				
Starting current					Under 0.	.8 A Less				
The Air outlets noise (45° angle, 1.5 m	eters in front	t of the unit) is ab	out 6 dB greater ti	nan the indicated	value. (at High Fa	n speed)				

LGH-25RX5-E										
Model					LGH-2	5RXs-E				
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode			LOSSNAY	ventilation			By-pass vi	entilation		
Fan speed		Extra High	Extra High High Low Extra Low Extra High High Low Extra Low							
Current (A)		0.52-0.55								
Power consumption (W)		113-129								
	(m³/h)	250	250	155	105	250	250	155	105	
Air volume	(L/s)	69	69	43	29	69	69	43	29	
External static pressure	(mmH ₂ O)	8.2-8.7	5.1-6.1	2-2.5	0.9	8.2-8.7	5.1-6.1	2-2.5	0.9	
External static pressure	(Pa)	80-85	50-60	20-25	9	80-85	50-60	20-25	9	
Temperature exchange efficiency ((%)	79.0	79.0	81.5	83.5	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	69.5	69.5	74.0	77.5	_	_	_	_	
Entitalpy exchange efficiency (78)	Cooling	68.0	68.0	72.5	76.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		26-27	25-26	20-21.5	18-19	26.5-27.5	25.5-26.5	20.5-22	18-19	
Weight (kg)					2	0				
Starting current					Under 0.	9 A Less				
TO A1 OLD 1 1450 1 4 5		5.01 100.1 1	1.40 ID 1.4		1 1 1 1 1 1 1 1	- 0				

.GH-35RX ₅ -E									
Model									
Frequency / Power source					50Hz / Single p	hase 220-240V			
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation	
Fan speed		Extra High High Low Extra Low Extra High High Low E							Extra Low
Current (A)		0.92-0.92	0.74-0.74	0.5-0.51	0.28-0.3	0.93-0.94	0.77-0.77	0.51-0.52	0.28-0.3
Power consumption (W)		195-212	160-169	105-116	58-69	197-217	164-173	105-116	58-69
Air volume	(m³/h)	350	350	210	115	350	350	210	115
All Volume	(L/s)	97	97	58	32	97	97	58	32
External static pressure	(mmH ₂ O)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9
External static pressure	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9
Temperature exchange efficiency (%	%)	80.0	80.0	85.0	88.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	_	_	_	_
Entitlety exchange entitleticy (%)	Cooling	71.0	71.0	75.5	81.0	_	_	_	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18
Weight (kg)		29							
Starting current					Under 2.	.4 A Less			

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)



LGH-15~100RX5-E

LGH-50RX5-E

Model					LGH-5	i0RX₅-E				
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High High Low Extra				
Current (A)		1.2-1.25	1.0-1.0	0.85-0.85	0.4-0.4	1.25-1.25 1.0-1.0 0.85-0.85 0.4-0				
Power consumption (W)		255-286	207-228	175-190	80-95					
Air volume (m³/h)		500	500	390	180	500	500	390	180	
Air volume	(L/s)	139	139	108	50	139	139	108	50	
External static pressure	(mmH ₂ O)	15.3-15.8	6.6-9.2	4.1-6.1	1.0	15.3-15.8	6.6-9.2	4.1-6.1	1.0	
External static pressure	(Pa)	150-155	65-90	40-60	10	150-155	65-90	40-60	10	
Temperature exchange efficiency (%)	78.0	78.0	81.0	86.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	69.0	69.0	71.0	78.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Cooling	66.5	66.5	68.0	77.0	_	_	_	_	
Noise (dB) (Measured at 1.5m unde of panel in an anechoeic		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19	
Weight (kg)					32					
Starting current					Under 3	.0 A Less				

Starting current Under 3.0 A Less

*The Air outlets noise (45' angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)

LGH-65RX5-E

EGII-03KA5-E									
Model					LGH-6	5RX₅-E			
Frequency / Power source					50Hz / Single p	hase 220-240V			
Ventilation mode			LOSSNAY	ventilation			By-pass ve	ntilation	
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6
Power consumption (W)		350-380	308-322	248-265	120-140	350-385	310-335	250-265	120-140
Air volume (m³/h		650	650	520	265	650	650	520	265
Air volume	(L/s)	181	181	144	74	181	181	144	74
External static pressure	(mmH2O)	11.2-12.2	6.1-8.2	4.1-5.1	0.8	11.2-12.2	6.1-8.2	4.1-5.1	0.8
External static pressure	(Pa)	110-120	60-80	40-50	8	110-120	60-80	40-50	8
Temperature exchange efficiency (%	6)	77.0	77.0	80.0	86.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	68.5	68.5	70.5	78.0	_	_	_	_
Entitalpy exchange entitlency (%)	Cooling	66.0	66.0	68.5	77.0	_	_	_	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		34-34.5	32-33	28.5-31.5	22	34.5-35	32.5-33.5	28.5-30.5	22-22.5
Weight (kg) 40									
Starting current					Under 4.	4 A Less			

Starting current
Under 4.4 A Less
*The Air outlets noise (45' angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

LGH-80RX5-E

GII-00KA5-L											
Model											
Frequency / Power source					50Hz / Single p	hase 220-240V					
Ventilation mode		LOSSNAY ventilation					By-pass ve	ntilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75					
Power consumption (W)		380-415	345-370	315-340	125-145	380-415					
Alassalsana	(m³/h)	800	800	700	355	800	800	700	355		
ir volume	(L/s)	222	222	194	99	222	222	194	99		
Fortament at attacks and a second	(mmH2O)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2		
External static pressure	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20		
Temperature exchange efficiency (%	6)	79.0	79.0	80.5	87.5	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	71.0	71.0	72.5	79.5	_	_	_	_		
Entitalpy exchange entitlency (%)	Cooling	70.0	70.0	71.5	79.5	_	_	_	_		
Noise (dB) (Measured at 1.5m under of panel in an anechoeic											
Weight (kg)	53										
Starting current					Under 3.	8 A Less					
The Air outlets noise (45° angle 1.5 mg	eters in front	of the unit) is also	out 16 dB greater	than the indicated	value (at High F	an sneed)					





LGH-15~100RX5-E

LGH-150/200RX5-E

LGH-100RX5-E

Model						00RX₅-E				
Frequency / Power source					50Hz / Single p	hase 220-240V				
Ventilation mode		LOSSNAY ventilation By-pass ventilation								
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	
Power consumption (W)		500-535	445-475	350-380	175-200	510-550	460-485	365-395	175-200	
Air volume	(m³/h)	1000	1000	755	415	1000	1000	755	415	
Air volume	(L/s)	278	278	210	115	278	278	210	115	
External static pressure	(mmH2O)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8	
External static pressure	(Pa)	160-170	100-110	55-60	18	160-170	100-110	55-60	18	
Temperature exchange efficiency (%	6)	80.0	80.0	83.0	87.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	74.0	80.0	_	_	_	_	
Enthalpy exchange entitlency (%)	Cooling	71.0	71.0	73.0	79.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		36-37	34-35	31-32.5	21-22	37-38	35-36	32-33	21-22	
Weight (kg)					5	9				
Starting current					Under 4.	6 A Less				
*The Air outlets noise (45° angle 1.5 mg	eters in fron	t of the unit) is ah	out 17 dB greater	than the indicate	d value (at High E	an enood)				

LGH-150RX₅-E

LOTI-10010X3-L							
Model							
Frequency / Power source				50Hz / Single p	hase 220-240V		
Ventilation mode			LOSSNAY ventilation			By-pass ventilation	
Fan speed		Extra High	High	Low	Extra High	High	Low
Current (A)	3.5-3.5 3.2-3.2 2.9-2.9 3.5-3.5 3.2-3.2						
Power consumption (W)		760-830	690-740	630-680	765-835	695-745	635-685
Alassalsana	(m³/h)	1500	1500	1300	1500	1500	1300
Air volume	(L/s)	417	417	361	417	417	361
External static pressure	(mmH ₂ O)	16.3-17.8	13.3-13.8	9.7-10.2	16.3-17.8	13.3-13.8	9.7-10.2
External static pressure	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100
Temperature exchange efficiency (%)	80.0	80.0	81.0	_	_	_
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	_	_	_
Entitalpy exchange entitlency (%)	Cooling	70.5	70.5	71.5	_	_	_
	Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber) 38-39 36-37.5 33.5-35 39-40.5 37.5-39 35.5						35.5-37
Weight (kg)				11	05		
Starting current				Under 7.	3 A Less		

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 19 dB greater than the indicated value. (at High Fan speed)

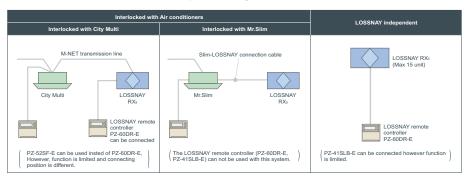
LGH-200RX5-E

LOTI-200TOX3-L							
Model							
Frequency / Power source				50Hz / Single p	hase 220-240V		
Ventilation mode			LOSSNAY ventilation			By-pass ventilation	
Fan speed		Extra High	High	Low	Extra High	High	Low
Current (A)	4.8-4.8 4.2-4.2 3.4-3.4 4.8-4.8 4.2-4.2 1035-1100 910-980 715-785 1040-1110 915-980						3.4-3.4
Power consumption (W)		1035-1100	910-980	715-785	1040-1110	720-785	
Air volume	(m³/h)	2000	2000	1580	2000	2000	1580
Air volume	(L/s)	556	556	439	556	556	439
External static pressure	(mmH2O)	16.3-16.8	10.2-10.7	6.1-6.6	16.3-16.8	10.2-10.7	6.1-6.6
External static pressure	(Pa)	160-165	100-105	60-65	160-165	100-105	60-65
Temperature exchange efficiency (%)	80.0	80.0	83.0	_	_	_
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	73.5	_	_	_
Enthalpy exchange entitlency (%)	Cooling	71.0	71.0	72.0	_	_	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeic		39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35
Weight (kg)				11	18		
Starting current				Under 11	.9A Less		

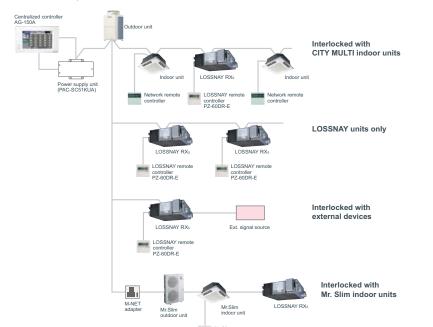
*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

Control

■The New Remote Controller PZ-60DR-E enable simple control setting



■ Centralized Controller System





VL-100U-E



Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



Total-Heat-Exchange Concept



 $\begin{tabular}{ll} \textbf{-Heat-exchange calculating equation} \\ \textbf{Indoor supply-air} & & \textbf{Indoor supply-air} & \textbf{$ Calculation example : 15.4°C = (20°C- 0°C) x 77% + 0°C (Low notch)

Specification

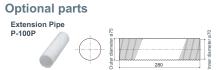
- •Simple installation through boring of 2 installation holes.
- -santiple installation turougn boring of 2 installation holes.

 -Low-noise (Less than 30dB at low notch).

 -l-motor 2-fan system. -Air-volume:low/high 2-notch.

 -Air-supply/exhaust pipes and plastic weather cover are supplied as accessories.

 -Equipped with an outdoor-air shutter. -Pull-string switch





 $\begin{tabular}{ll} $^+$ Heat-exchange calculating equation \\ $^-$ Indoor supply-air & Outdoor \\ $^-$ temperature(^*C)$ & Temperature(^*C)$ & Temperature(^*C)$ & Temperature(^*C)$ & efficiency(\%) \\ $^-$ Temperature(^*C)$ & Temperature(^*C)$ &$ Calculation example : 35°C = (35°C - 21°C) x 77% (Low notch)

Supply Voltage (V)	Power line frequency (Hz)	Notch	Air volume (m³/h)	Power Consumption (W)	Temp.exchange efficiency (%)	Noise (dB)	Weight (kg)
220-240	50	HI	105	26	70	39	
220-240	50	LO	65	23	77	29.5	0.5
		HI	90	26	73	37	6.5
220	60	LO	50	21	80	26	



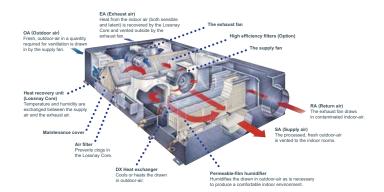
OA Processing Units

RDH3 Series



Ideal Indoor-Air Quality — For Your Comfort and Health

The OA (outdoor-air) Processing Unit creates an optimum indoor-air environment at an unparalleled rate of cost efficiency providing substantial energy savings. Forced air ventilating and humidifying functions unique to this system keep indoor-air fresh and free of contaminants preventing "sick building syndrome" and the spread of airborne viruses such as the flu. Another novel feature of the OA Processing Unit is the "Lossnay core," a heat-exchange unit that functions to transfer heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality and performance designed to ensure users ample comfort and year-round health which cannot be found anywhere else on the market.



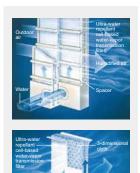
New Permeable Film Humidifier (RDH3 model)

Comfortable Level of Humidity for Exceptionable Air Quality

The OA Processing Unit is equipped with a new permeable film humidifier developed and patented by Mitsubishi Electric. Steam transmission efficiency has been improved remarkably by lowering the resistance of the material. The use of a 3-layer film that allows only the transfer of steam prevents the production of white powder, so there is no need for the use of a water purifier.

Highly Efficient Humidification

Improvements in the system of airflow patterns and water injection techniques have resulted in a substantial increase in humidifying volume.



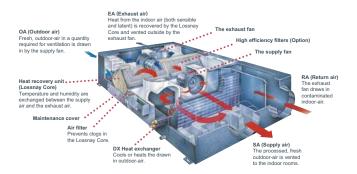
RD3 Series

A Total Air Conditioning Package Manifesting Remarkable Power

Lossnay Ventilation and Air Conditioning

- 1. When the load is light ⇒ Main air conditioning
- 2. When the load is heavy ⇒ Supplemental air conditioning

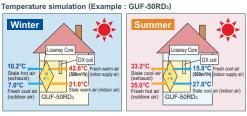
The OA (outdoor-air) Processing Unit creates an optimum environment while providing substantial energy savings. The OA Processing Unit comprises forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants preventing ailments such as sick building syndrome. Inside the OA Processing Unit is the Lossnay Core, a heat-exchange unit that transfers heat efficiently, cutting ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.



The Air Conditioning Function

Two Units in One

Along with Lossnay ventilation, the OA Processing Unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy. Also, with ventilation and air conditioning integrated, space is saved and installation expense kept to a minimum. Wha'ts more, the air temperature in any room can be perfectly adjusted to the desired



temperature of the occupants via the OA Processing Unit, which can be used as the indoor unit of the CITY MULTI air conditioning system. The heat recovery function maximizes efficiency and saves energy, benefiting the environment and helping companies cut costs. It also reduces the refrigerant load and lowers the amount of horsepower required by the