

Y ZUBADAN LINE

OUTDOOR UNITS - Heat Pump - PUHY HP Y(S)NW-A



NEW FOUR-SIDED
BATTERY

STATIC PRESSURE OF
FAN INCREASED UP
TO 80 PA.

CITY MULTI

NEW FAN WITH LOW
FRICTION PROFILE

COMPRESSOR
OPTIMISED WITH
"MULTI-POR"
TECHNOLOGY

NEW AUTO-SHIFT
MODE

NEW AUTO-SHIFT
MODE PREHEAT
DEFROST FUNCTION

ADVANCED ETC
CONTROL OF
EVAPORATION
TEMPERATURE.

FLEXIBLE NOISE
SETTING



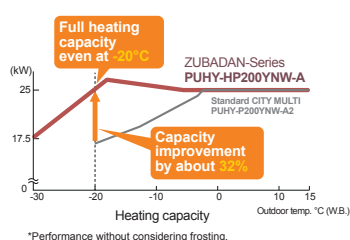
Bringing a year round comfort solutions to extreme climates

CITY MULTI ZUBADAN-Series combines the ultimate in application flexibility and powerful cooling and heating capabilities to deliver precise comfort even in the coldest days of the year down to -30°C . The new ZUBADAN-Series that has new, larger-capacity compressors with an injection function in the suction chamber is capable of running at the rated heating capacity down to -20°C . In addition, the guaranteed outside temperature range of heating operation is expanded down to -30°C .

Reliable heating performance

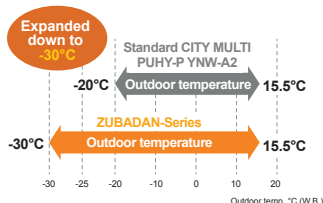
The improved operating performance in low outside temperatures contributes to comfortable heating in cold weather.

STABLE HEATING PERFORMANCE EVEN AT -20°C



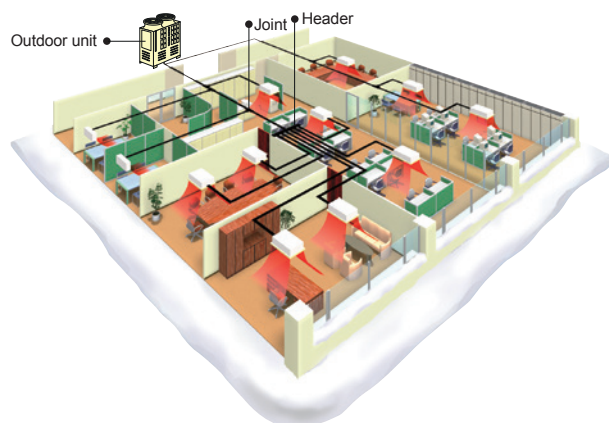
The new ZUBADAN-Series are able to provide full heating capacity in outside temperatures as low as -20°C .

EXPANDED HEATING OPERATION DOWN TO -30°C



Furthermore, from the previous lowest operating outside temperature of -20°C , the new YNW-Series pushes the boundaries of technology to give heating in outside temperatures as low as -30°C .

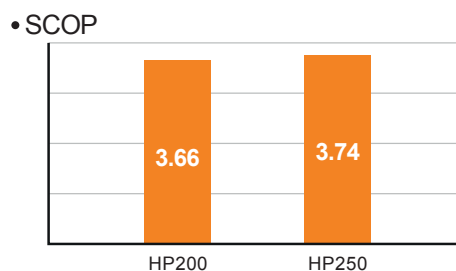
INSTALLATION IMAGE (ZUBADAN-SERIES)



Energy saving

The ZUBADAN-Series delivers high energy-saving performance throughout the year. The improved compressor with the latest technologies realizes both reliable performance and highly efficient operation. The highest SCOP 3.74 is achieved by the HP250 model.

ENERGY SAVING



*SCOP values are calculated based on EN14825 used for ErP Lot 21/6.

New design

The structure and design have been revised. The appearance is more sophisticated which can enhance the design of building.

NEW DESIGN

PREVIOUS MODEL (YHM)



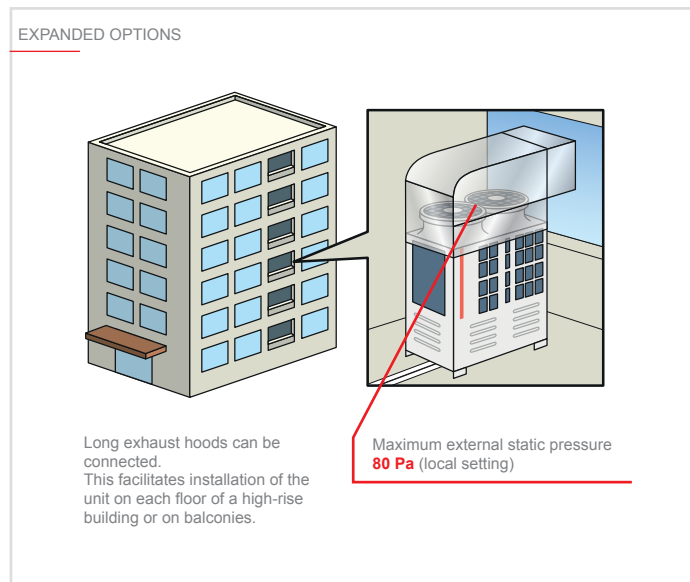
NEW MODEL (YNW)



Panel heaters (optional) can be equipped on the side and the back for proper drainage in cold climates, ensuring highly reliable heating operation.

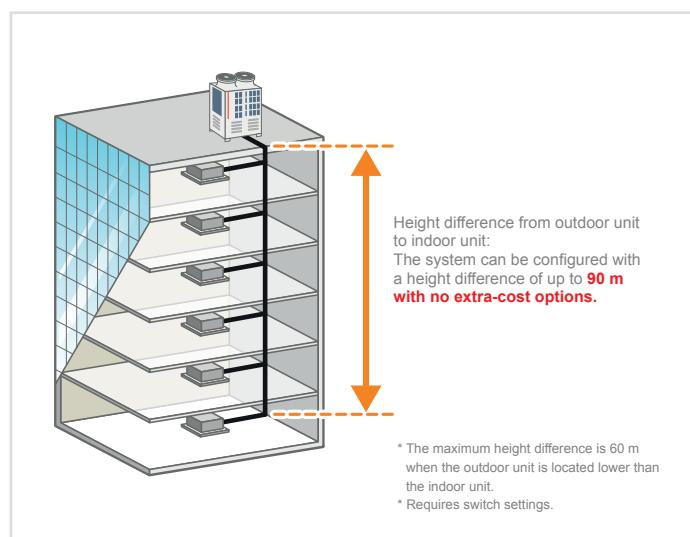
Expanded options for external static pressure settings

The new models (YNW) offer the static pressure options of 0, 30, 60, and 80 Pa, while previous models (YHM) had maximum external static pressure of 60 Pa. This facilitates installation of the unit on each floor of a high-rise building or on balconies.



Usable in an application with a large vertical separation of up to 90 meters

A height difference of up to 90 m from the outdoor unit to the indoor unit can be supported with no extra-cost options. This increases design flexibility and facilitates installation of these units even in high-rise buildings.



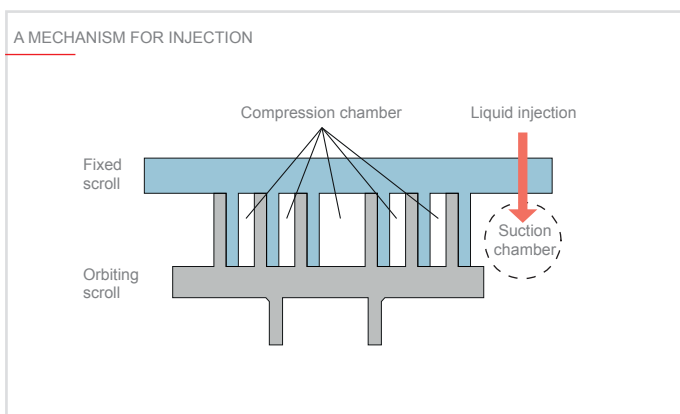
Change refrigerant oil of compressor

The new ZUBADAN-Series uses MEL46EH refrigerant oil instead of the conventional MEL32, for greater resistance to low temperatures and steady circulation even in cold environments.



Suction chamber injection mechanism

The reliable heating operation of ZUBADAN-Series is supported by a suction chamber injection mechanism. This mechanism injects liquid refrigerant into the suction chamber and suppresses the temperature rise of the discharge gas. Owing to this technology, the ZUBADAN-Series can perform heating operation even at an outside temperature as low as -30°C. Furthermore, heating performance at low outside temperatures is improved, because the rated capacity is maintained even at outside temperatures down to -20°C.



Multi-port mechanism

Efficient partial load operation is realized by avoiding overcompression. With the scroll compressor, the distance of the compression process in the scroll is usually fixed, so over-compression occurs during low loads and low rotation. The new compressor is equipped two sub-ports in addition to the conventional discharge port to reduce this over-compression loss

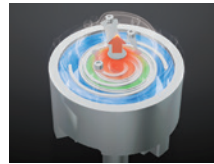
during low loads. In operation conditions having a low compression rate, the distance in the compression process is kept short by that successfully avoiding unnecessary compression, and contributing to efficient partial load operation.

MULTI-PORT MECHANISM

Conventional structure

There was only one discharge port in the center and regardless of the air conditioning loads, the refrigerant was compressed up to the center part of scroll, then discharged with constant pressure. This means that the refrigerant tends to be compressed to higher than necessary pressure during low loads.

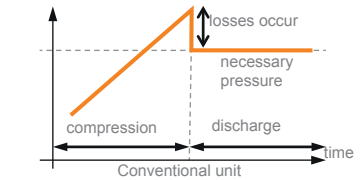
There is only one discharge port and refrigerant is discharged with constant pressure regardless of loads.



Refrigerant pressure



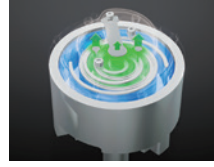
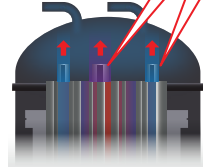
Image of refrigerant pressure (medium loads)



New structure

The new compressor is equipped two sub-ports in addition to the discharge port at the center, and it realizes discharge according to air conditioning loads. The suppression of over-compression contributes to improve the operation efficiency of partial load.

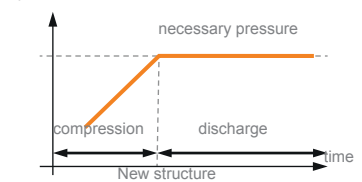
Some discharge ports are equipped and refrigerant is discharged by the pressure according to loads without useless.



Refrigerant pressure

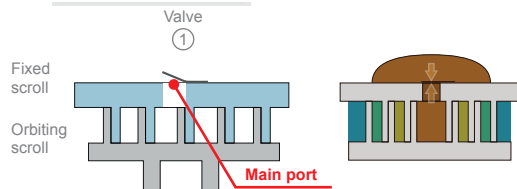


Image of refrigerant pressure



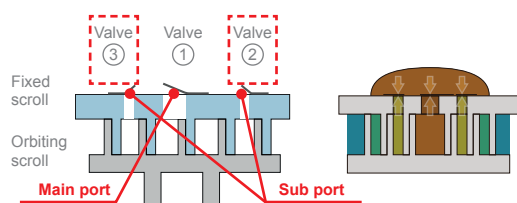
The new structure, multi-port compressor which newly equipped two sub-ports which open and close according to loads, discharges refrigerant from sub-port during the partial load operation.

Conventional structure



		Operation pattern	
		Partial load	Rating, high pressure difference
Main port	Valve ①	open	open

New structure • Multi-port



		Operation pattern	
		Partial load	Rating, high pressure difference
Main port	Valve ①	open	open
Sub port	Valve ②	open	close
Sub port	Valve ③	open	close

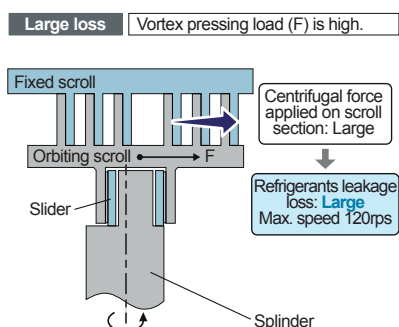
Centrifugal force canceling mechanism (8HP)

The latest structure has been mounted to suppress the centrifugal force. This mechanism successfully suppresses the centrifugal force generated at the scroll section, reduces refrigerant leakage losses, and increases the compressor efficiency. The maximum rotational speed has been increased from the conventional 120rps to 140rps.

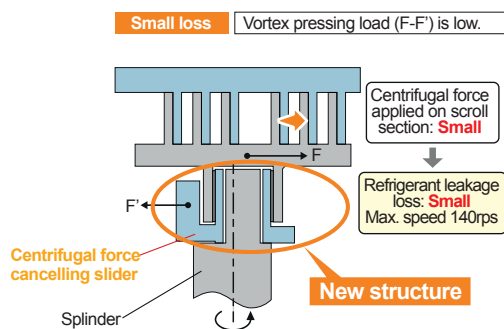
This mechanism also speeds up the start of operation, and enables operations such as preheat defrost and the smooth auto-shift startup mode.

CENTRIFUGAL FORCE CANCELING MECHANISM (8HP)

Conventional mechanism



Conventional force canceling mechanism



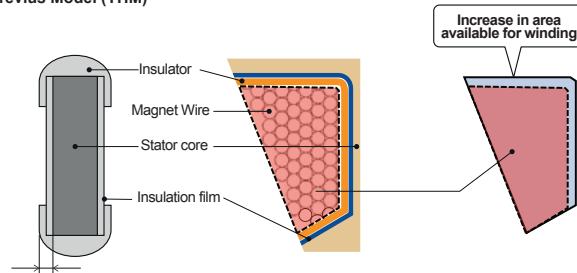
F: Centrifugal force applied on scroll section
F': Centrifugal force applied on cancelling slider

Improved high-efficiency motor

The insulator section that traditionally created a dead space is eliminated by insulating the motor's stator film. Since winding can be set in that section, the winding area can be increased by approx. 9%. The wire diameter has also been increased by two ranks, so the resistance between terminals is reduced, and the insulation distance is shorter. This improves the motor's operation performance and contributes to high-efficiency operation of the compressor.

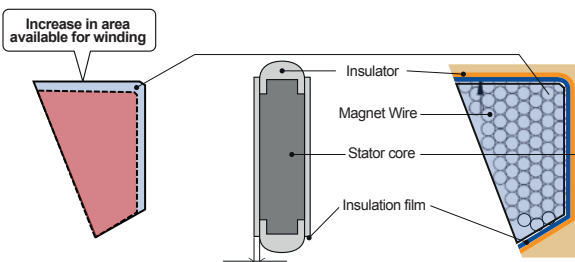
IMPROVED HIGH-EFFICIENCY MOTOR

Previous Model (YHM)



The insulator section is large, and the area where the copper wire can be wound is small.

New Model (YNW)



The motor can be wound in the section where the insulator was, and a larger wire diameter can be used.

Key Technologies

Technical specifications

MODEL			PUHY-HP200YNW-A	PUHY-HP250YNW-A	PUHY-HP400YSNW-A	PUHY-HP500YSNW-A
HP			8	10	12	14
Modules			PUHY-HP200YNW-A	PUHY-HP250YNW-A	PUHY-HP(200+200)YNW-A	PUHY-HP(250+250)YNW-A
Power supply	V/Hz/n°		3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling	Capacity (nominal) **	kW	22.4	28.0	44.8	56.0
	Power input (nominal)	kW	6.45	7.69	13.33	15.86
	SEER		6.52	6.49	6.33	6.7
	Temperature operating field	Indoor WB °C	15.0~24.0 °C	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	+15~+24
Heating		Outdoor DB °C	-5.0~52.0 °C	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5~+52
	Capacity (nominal) **/ Capacity (max) **	kW	22.4/25.0	28.0/31.5	44.8/ 50.0	56.0/63.0
	Power input (nominal)/ Power input (max)	kW	5.12/6.11	6.73/8.09	10.59/12.62	13.89/16.71
	SCOP		3.66	3.74	3.55	3.62
	Temperature operating field	Indoor DB °C	15.0~27.0 °C	15.0~27.0 °C	15.0~27.0 °C	15.0~27.0 °C
		Outdoor WB °C	-30.0~15.5 °C	-30.0~15.5 °C	-30.0~15.5 °C	-30.0~15.5 °C
Sound level**4,5	Sound pressure (Sound power) level	dB(A)	53.5 / 54.0 (73 / 73)	56.0 / 57.5 (75/77)	57.0 / 57.5 (77/77)	59.5/61.0 (79/81)
Connectable indoor units	Total Capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/1~20	P10~P250, M20~M140/1~25	P10~P250, M20~M140/1~40	P10~P250, M20~M140/1~50
Ø Ref. piping diameter	Liquid	mm	9,52	9,52	12,7	15,88
	Gas	mm	22,2	22,2	28,58	28,58
Fan*6	Type x quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min	190	210	190+190	210+210
Compressor	Type		Inverter scroll hermetic			
	Motor output	kW	3.8	4.5	3.8	4.5
External dimensions	H(H*)xWxD	mm	1858(1798)x1240x740	1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg	274	294	274+274	294+294
Refrigerant	Ref. Charge R410	kg	9.8	10.8	19.6	21.6
	CO ₂ eq.*6	Tons	20.46	22.55	40.92	45.10

**1,2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Y NEXT STAGE LINE

OUTDOOR UNITS - PUHY-(E)P Y(S)NW-A2(-BS)



NEW FOUR-SIDED
BATTERY

STATIC PRESSURE OF
FAN INCREASED UP
TO 80 PA.

CITY MULTI

NEW FAN WITH LOW
FRICTION PROFILE

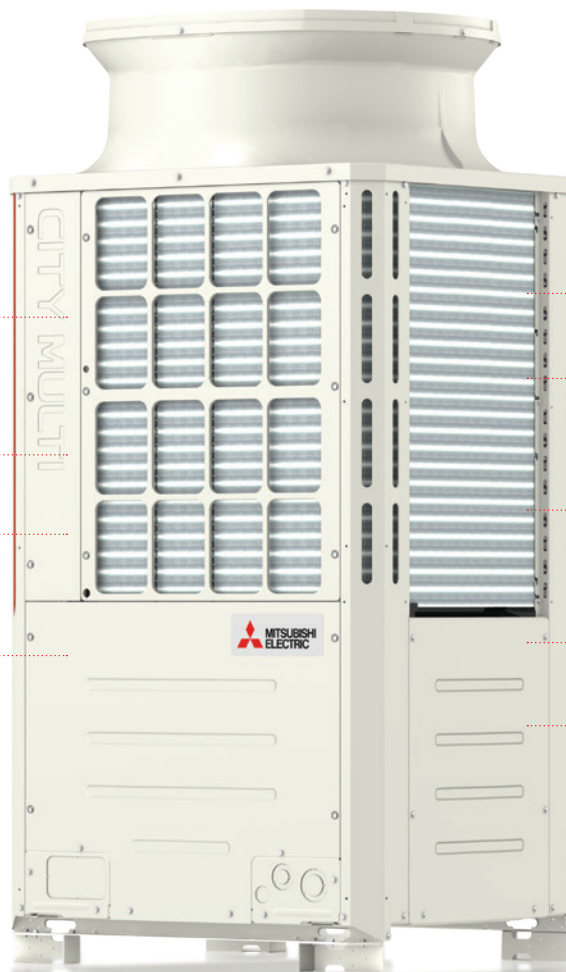
COMPRESSOR
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NEW AUTO-SHIFT
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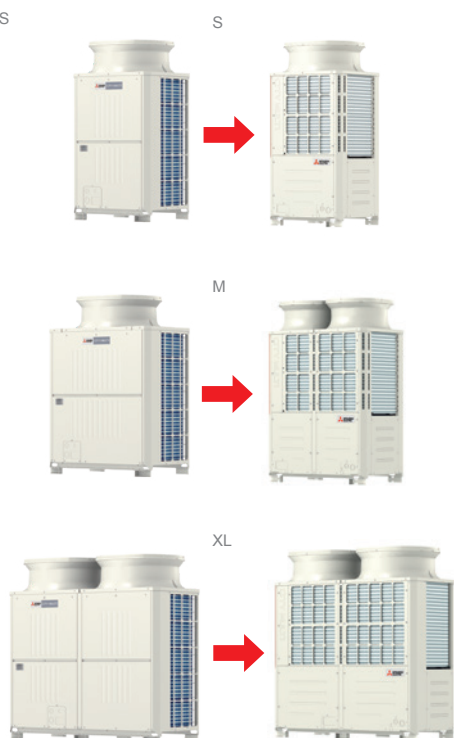
New design

The new outdoor units of the YNW series use a four-sided heat exchanger close to the top of the case near the fan. This technological and construction choice makes it possible to increase heat exchange efficiency.

NEW FOUR-SIDED BATTERY



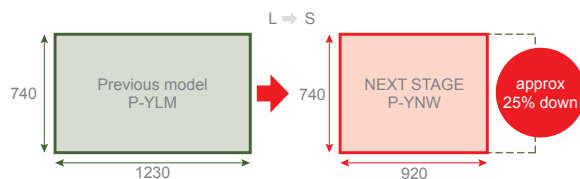
NEW MODULES



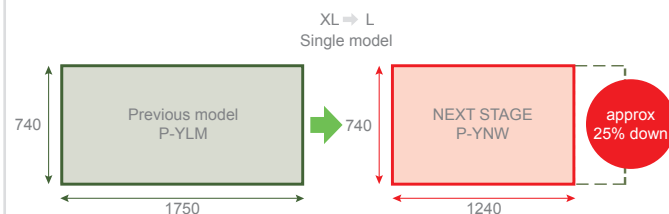
Single module

		Previous model	YNW
8HP	P200	S	S
10HP	P250	S	S
12HP	P300	L	S
14HP	P350	L	L
16HP	P400	L	L
18HP	P450	XL	L
20HP	P500	XL	XL

P300



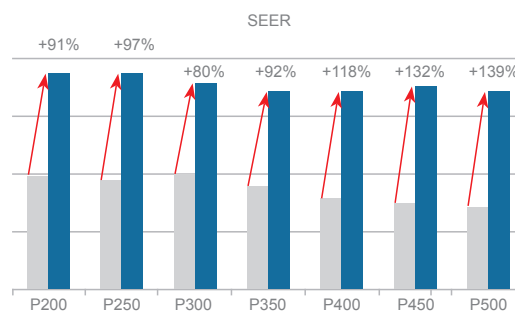
P450



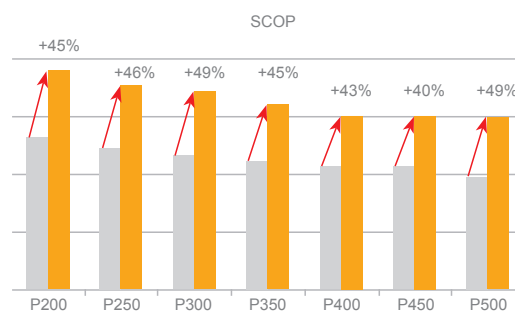
Energy saving

Energy efficiency has been further improved compared to YLM units and now hits top of the range performance values. SEER values have been raised by 139% (P500) compared to the previous model and SCOP values by 49% (P300 and P500). This allows the new YNW units to consume less energy in both cooling and heating. All year-round saving.

PREVIOUS MODEL
NEXT STAGE

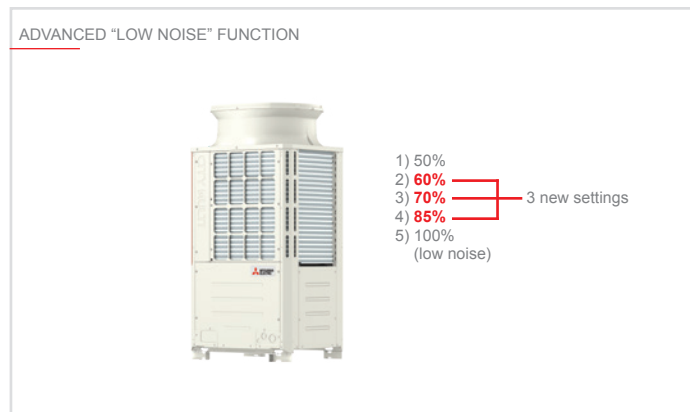


PREVIOUS MODEL
NEXT STAGE



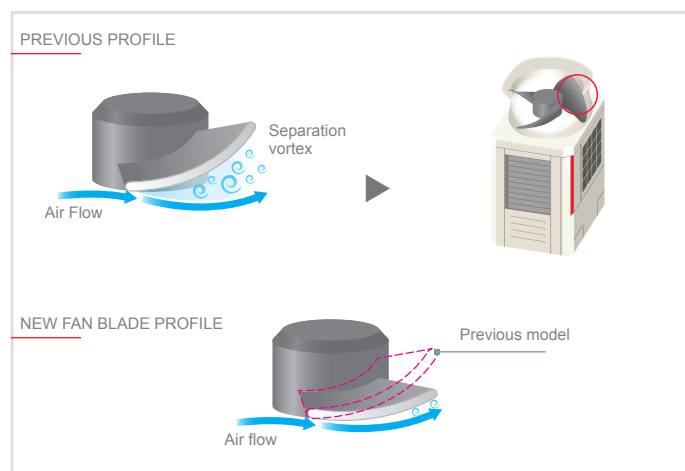
Advanced “Low Noise” function

“Low noise” mode can now be selected from five different settings: 85%, 70%, 60% and 50% (values referring to fan speed). Noise reduction is directly configurable from the control board of the outdoor unit. Different settings can be selected based on the installation requirements (in applications with special noise constraints).



Fan blade profile

The YNW series fan has been completely redesigned to match the new four-sided battery. The profile of the fins has been optimised to minimise fluid flow losses.



Key Technologies

Technical specifications

MODEL			PUHY-P200YNW-A2(-BS)	PUHY-P250YNW-A2(-BS)	PUHY-P300YNW-A2(-BS)	PUHY-P350YNW-A2(-BS)	PUHY-P400YNW-A2(-BS)
HP			8	10	12	14	16
Modules			PUHY-P200YNW-A2	PUHY-P250YNW-A2	PUHY-P300YNW-A2	PUHY-P350YNW-A2	PUHY-P400YNW-A2
Power supply	V/Hz/h°		3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW	22,4	28,0	33,5	40,0	45,0
	Power input (nominal)	kW	6,03	9,62	11,31	13,98	17,57
	SEER		7,65	6,90	6,70	6,35	5,85
	Temperature operating field						
	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW	22,4/25,0	28,0/31,5	33,5/37,5	40,0/45,0	45,0/50,0
	Power input (nominal)/ Power input (max)	kW	5,18/6,08	7,01/8,49	8,74/10,30	10,20/12,32	12,00/14,20
	SCOP		4,35	4,39	4,12	4,33	4,00
	Temperature operating field						
	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**4,5	Sound pression (Sound power) level	dB(A)	58/59 (75/77)	60/61 (78/80)	61/64,5 (80/84)	62/64,5 (80/84)	65/67 (82/86)
Connectable indoor units	Total Capacity		50~130% of outdoor unit capacity				
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/1~20	P10~P250, M20~M140/1~25	P10~P250, M20~M140/1~30	P10~P250, M20~M140/1~35	P10~P250, M20~M140/1~40
Ø Ref. piping diameter	Liquid	mm	9,52	9,52	9,52	12,7	12,7
	Gas	mm	22,2	22,2	22,2	28,58	28,58
Fan*6	Type x quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min	170	185	240	270	300
Compressor	Type		Inverter scroll hermetic				
	Motor output	kW	3,5	5,3	6,7	8,6	11,4
External dimentions	H(H*)xWxD	mm	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x1240x740	1858(1798)x1240x740
Net weight		kg	213	213	226	277	277
Refrigerant	Ref. Charge R410	kg	6,5	6,5	6,5	9,8	9,8
	CO ₂ eq.	Tons	13,57	13,57	13,57	20,46	20,46

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-P450YNW-A2(-BS)	PUHY-P500YNW-A2(-BS)	PUHY-P400YSNW-A2(-BS)	PUHY-P450YSNW-A2(-BS)	PUHY-P500YSNW-A2(-BS)
HP				18	20	16	18	20
Modules				PUHY-P450YNW-A2	PUHY-P500YNW-A2	PUHY-P(200+200)YNW-A2	PUHY-P(200+250)YNW-A2	PUHY-P(250+250)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		50,0	56,0	44,8	50,4	56,0
	Power input (nominal)	kW		18,86	21,05	12,47	15,94	19,85
	SEER			6,48	6,32	7,42	7,03	6,69
	Temperature operating field	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		50,0/56,0	56,0/63,0	44,8/50,0	50,4/56,5	56,0/63,0
	Power input (nominal)/ Power input (max)	kW		13,77/16,51	14,85/17,89	10,37/12,16	12,20/14,56	14,03/16,98
	SCOP			4,31	4,04	4,35	4,37	4,39
	Temperature operating field	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**5	Sound pressure (Sound power) level	dB(A)		65,5/71,0 (84/90)	63,5/66,5 (82/85)	61/62 (78/80)	62/63 (80/82)	63/64 (81/83)
Connectable indoor units	Total Capacity	50~130% of outdoor unit capacity						
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50	P10~P250, M20~M140/1~40	P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50
Ø Ref. piping diameter	Liquid	mm		15,88	15,88	12,7	15,88	15,88
	Gas	mm		28,58	28,58	28,58	28,58	28,58
Fan*6	Type x quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min		305	365	170+170	170+185	185+185
Compressor	Type	Inverter scroll hermetic						
	Motor output	kW		11,7	13,3	3,5+3,5	3,5+5,3	5,3+5,3
External dimensions	H(H*)xWxD	mm		1858(1798)x1240x740	1858(1798)x1750x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740
Net weight		kg		293	334	213+213	213+213	213+213
Refrigerant	Ref. Charge R410	kg		10,8	10,8	13	13	13
	CO ₂ eq.	Tons		22,55	22,55	27,14	27,14	27,14

Technical specifications

MODEL				PUHY-P550YSNW-A2(-BS)	PUHY-P600YSNW-A2(-BS)	PUHY-P650YSNW-A2(-BS)	PUHY-P700YSNW-A2(-BS)	PUHY-P750YSNW-A2(-BS)
HP				22	24	26	28	30
Modules				PUHY-P(250+300)YNW-A2	PUHY-P(300+300)YNW-A2	PUHY-P(250+400)YNW-A2	PUHY-P(350+350)YNW-A2	PUHY-P(350+400)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		61,5	67,0	73,0	80,0	85,0
	Power input (nominal)	kW		21,65	23,34	27,96	28,88	32,56
	SEER			6,59	6,50	6,08	6,15	5,90
	Temperature operating field	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		61,5/69,0	67,0/75,0	73,0/81,5	80,0/90,0	85,0/95,0
	Power input (nominal)/ Power input (max)	kW		15,76/18,80	17,49/20,60	19,01/22,70	20,40/24,65	22,25/26,53
	SCOP			4,24	4,12	4,14	4,33	4,14
	Temperature operating field	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**5	Sound pressure (Sound power) level	dB(A)		63,5/66 (82/85)	64/67,5 (83/87)	66,5/68 (83/87)	65/67,5 (83/87)	67/69 (84/88)
Connectable indoor units	Total Capacity	50~130% of outdoor unit capacity						
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		15,88	15,88	15,88	19,05	19,05
	Gas	mm		28,58	28,58	28,58	34,93	34,93
Fan*6	Type x quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 3	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min		185+240	240+240	185+300	270+270	270+300
Compressor	Type	Inverter scroll hermetic						
	Motor output	kW		5,3+6,7	6,7 + 6,7	5,3 + 11,4	8,6+8,6	8,6+11,4
External dimensions	H(H*)xWxD	mm		1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		213+226	226+226	213+277	277+277	277+277
Refrigerant	Ref. Charge R410	kg		13	13	16,3	19,6	19,6
	CO ₂ eq.	Tons		27,14	27,14	34,03	40,92	40,92

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-P800YSNW-A2(-BS)	PUHY-P850YSNW-A2(-BS)	PUHY-P900YSNW-A2(-BS)	PUHY-P950YSNW-A2(-BS)	PUHY-P1000YSNW-A2(-BS)
HP				32	34	36	38	40
Modules				PUHY-P(350+450)YNW-A2	PUHY-P(400+450)YNW-A2	PUHY-P(450+450)YNW-A2	PUHY-P (250+350+350)YNW-A2	PUHY-P (250+350+400)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		90	95,0	100,0	108,0	113,0
	Power input (nominal)	kW		33,96	37,69	38,91	38,84	42,48
	SEER			6,22	5,99	6,28	6,30	6,10
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW		90,0/101,0	95,0/106,0	100,0/112,0	108,0/121,5	113,0/126,5
	Power input (nominal)/ Power input (max)	kW		24,00/28,85	25,81/30,72	27,54/33,03	27,48/33,19	29,27/35,04
	SCOP			4,32	4,16	4,32	4,34	4,21
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**4,5	Sound pression (Sound power) level	dB(A)		67,5/71 (85/91)	68,5/73 (86/91)	68,5/74 (87/93)	66,5/68,5 (84/88)	68/70 (85/89)
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		19,05	19,05	19,05	19,05	19,05
	Gas	mm		34,93	41,28	41,28	41,28	41,28
Fan*6	Type x quantity			Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 5	Propeller fan x 5
	Air flow	m³/min		270+305	300+305	305+305	185+270+270	185+270+300
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		8,6+11,7	11,4+11,7	11,7+11,7	5,3+8,6+8,6	5,3+8,6+11,4
External dimentions	H(H*)xWxD	mm		1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		277+293	277+293	293+293	213+277+277	213+277+277
Refrigerant	Ref. Charge R410	kg		20,6	20,6	21,6	26,1	26,1
	CO ₂ eq.	Tons		43,01	43,01	45,10	54,49	54,49

Technical specifications

MODEL				PUHY-P1050YSNW-A2(-BS)	PUHY-P1100YSNW-A2(-BS)	PUHY-P1150YSNW-A2(-BS)	PUHY-P1200YSNW-A2(-BS)	PUHY-P1250YSNW-A2(-BS)
HP				42	44	46	48	50
Modules				PUHY-P (250+400+400)YNW-A2	PUHY-P (350+350+400)YNW-A2	PUHY-P (350+400+400)YNW-A2	PUHY-P (400+400+400)YNW-A2	PUHY-P (400+400+450)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		118,0	125,0	130,0	135,0	140,0
	Power input (nominal)	kW		46,09	46,99	50,58	54,43	55,77
	SEER			5,93	5,98	5,82	5,66	5,89
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *1/ Capacity (max) *2	kW		118,0/131,5	125,0/140,0	130,0/145,0	135,0/150,0	140,0/156,0
	Power input (nominal)/ Power input (max)	kW		31,05/36,93	32,46/38,88	34,21/40,84	36,00/42,61	37,83/44,95
	SCOP			4,09	4,20	4,09	4,00	4,11
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**4,5	Sound pression (Sound power) level	dB(A)		69,0/70,5 (86/90)	68,5/70,5 (86/90)	69,5/71,5 (86/90)	70/72 (87/91)	70/74 (88/93)
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50
Ø Ref. piping diameter	Liquid	mm		19,05	19,05	19,05	19,05	19,05
	Gas	mm		41,28	41,28	41,28	41,28	41,28
Fan*6	Type x quantity			Propeller fan x 5	Propeller fan x 6	Propeller fan x 6	Propeller fan x 6	Propeller fan x 6
	Air flow	m³/min		185+300+300	270+270+300	270+300+300	300+300+300	300+300+305
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		5,3+11,4+11,4	8,6+8,6+11,4	8,6+11,4+11,4	11,4+11,4+11,4	11,4+11,4+11,7
External dimentions	H(H*)xWxD	mm		1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		213+277+277	277+277+277	277+277+277	277+277+277	277+277+293
Refrigerant	Ref. Charge R410	kg		26,1	29,4	29,4	29,4	30,4
	CO ₂ eq.	Tons		54,49	61,38	61,38	61,38	63,47

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-P1300YSNW-A2(-BS)		PUHY-P1350YSNW-A2(-BS)	
HP				52		54	
Modules				PUHY-P (400+450+450)YNW-A2		PUHY-P (450+450+450)YNW-A2	
Power supply			V/Hz/n°	3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling	Capacity (nominal) *1		kW	145,0		150,0	
	Power input (nominal)		kW	57,08		58,36	
	SEER			6,09		6,28	
	Temperature operating field	Indoor WB	°C	15.0~24.0°C		15.0~24.0°C	
		Outdoor DB	°C	-5.0~52.0°C		-5.0~52.0°C	
Heating	Capacity (nominal) *2/ Capacity (max) *2		kW	145,0/162,0		150,0/168,0	
	Power input (nominal)/ Power input (max)		kW	39,61/47,23		41,32/49,55	
	SCOP			4,21		4,32	
	Temperature operating field	Indoor DB	°C	15.0~27.0°C		15.0~27.0°C	
		Outdoor WB	°C	-20.0~15.5°C		-20.0~15.5°C	
	Sound level*4*5	Sound pression (Sound power) level		dB(A)	70/75 (88/94)		70,5/76 (89/95)
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity			
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/3~50		P10~P250, M20~M140/3~50	
Ø Ref. piping diameter	Liquid		mm	19,05		19,05	
	Gas		mm	41,28		41,28	
Fan*6	Type x quantity			Propeller fan x 6		Propeller fan x 6	
	Air flow		m³/min	300+305+305		305+305+305	
Compressor	Type			Inverter scroll hermetic			
	Motor output		kW	11,4+11,7+11,7		11,7+11,7+11,7	
External dimintions	H(H*5)xWxD		mm	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740		1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	
Net weight			kg	277+293+293		293+293+293	
Refrigerant	Ref. Charge R410		kg	31,4		32,4	
	CO ₂ eq.		Tons	65,56		67,65	

Technical specifications

MODEL				PUHY-EP200YNW-A2 (-BS)	PUHY-EP250YNW-A2 (-BS)	PUHY-EP300YNW-A2 (-BS)	PUHY-EP350YNW-A2 (-BS)	PUHY-EP400YNW-A2 (-BS)
HP				8	10	12	14	16
Modules				PUHY-EP200YNW-A2	PUHY-EP250YNW-A2	PUHY-EP300YNW-A2	PUHY-EP350YNW-A2	PUHY-EP400YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) **	kW		22.4	28.0	33.5	40.0	45.0
	Power input (nominal)	kW		5,51	8,21	9,68	12,42	14,65
	SEER			7,76	7,51	7,26	7,03	6,83
	Temperature operating field	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) **/ Capacity (max) **	kW		22.4 / 25.0	28.0 / 31.5	33.5 / 37.5	40.0 / 45.0	45.0 / 50.0
	Power input (nominal)/ Power input (max)	kW		5,01 / 5,93	6,84 / 8,13	8,27 / 9,84	9,77 / 11,81	11,65 / 13,85
	SCOP			4,36	4,40	4,12	4,35	4,25
	Temperature operating field	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
	Sound level**4,5	Sound pressure (Sound power) level	dB(A)	58.0/59.0 (75/78)	60.0/61.0 (78/80)	61.0/64.5 (80/84)	62.0/64.0 (80/83)	65.0/65.5 (82/85)
Connectable indoor units	Total Capacity				50~130% of outdoor unit capacity			
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/1~20			P10~P250, M20~M140/1~25	P10~P250, M20~M140/1~30	P10~P250, M20~M140/1~35
Ø Ref. piping diameter	Liquid	mm		9.52	9.52	9.52	12.7	12.7
	Gas	mm		22.2	22.2	28.58	28.58	28.58
Fan*6	Type x quantity				Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow	m³/min		170	185	240	270	270
Compressor	Type				Inverter scroll hermetic compressor			
	Motor output	kW		3.4	5.1	6.1	7.7	9.8
External dimensions	H(H*5)xWxD	mm		1858(1798)x920x740	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x1240x740	1858(1798)x1240x740
Net weight		kg		228	228	231	282	303
Refrigerant	Ref. Charge R410	kg		6,5	6,5	6,5	9,8	10,8
	CO ₂ eq.	Tons		13,57	13,57	13,57	20,46	22,55

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-EP450YNW-A2 (-BS)	PUHY-EP500YNW-A2 (-BS)	PUHY-EP400YSNW-A2 (-BS)	PUHY-EP450YSNW-A2 (-BS)	PUHY-EP500YSNW-A2 (-BS)
HP				18	20	16	18	20
Modules				PUHY-EP450YNW-A2	PUHY-EP500YNW-A2	PUHY-EP(200+200)YNW-A2	PUHY-EP(200+250)YNW-A2	PUHY-EP(250+250)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		50.0	56.0	44.8	50.4	56.0
	Power input (nominal)	kW		17.73	20.51	11.39	14.07	16.96
	SEER			6.94	6.55	7.53	7.40	7.29
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
			Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW	50.0 / 56.0	56.0 / 63.0	44.8 / 50.0	50.4 / 56.5	56.0 / 63.0	
	Power input (nominal)/ Power input (max)	kW	12.85 / 16.18	14.73 / 17.74	10.02 / 11.87	11.85 / 14.05	13.69 / 16.27	
	SCOP		4.32	4.10	4.36	4.37	4.40	
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
			Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**4,5	Sound pression (Sound power) level	dB(A)	65.5/70.5 (84/90)	63.5/66.5 (82/85)	61.0/62.0 (78/81)	62.5/63.5 (80/82)	63.5/64.0 (81/83)	
Connectable indoor units	Total Capacity		50~130% of outdoor unit capacity					
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50	P10~P250, M20~M140/1~40	P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50	
Ø Ref. piping diameter	Liquid	mm	15.88	15.88	12.7	15.88	15.88	
	Gas	mm	28.58	28.58	28.58	28.58	28.58	
Fan*6	Type x quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow	m³/min	305	365	170 + 170	170 + 185	185 + 185	
Compressor	Type		Inverter scroll hermetic compressor					
	Motor output	kW	11.1	12.5	3.4 + 3.4	3.4 + 5.1	5.1 + 5.1	
External dimention	H(H*)xWxD	mm	1858(1798)x1240x740	1858(1798)x1750x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	
Net weight		kg	303	342	228 + 228	228 + 228	228 + 228	
Refrigerant	Ref. Charge R410	kg	10.8	10.8	13	13	13	
	CO ₂ eq.	Tons	22.55	22.55	27.14	27.14	27.14	

Technical specifications

MODEL				PUHY-EP550YSNW-A2 (-BS)	PUHY-EP600YSNW-A2 (-BS)	PUHY-EP650YSNW-A2 (-BS)	PUHY-EP700YSNW-A2 (-BS)	PUHY-EP750YSNW-A2 (-BS)
HP				22	24	26	28	30
Modules				PUHY-EP(250+300)YNW-A2	PUHY-EP(300+300)YNW-A2	PUHY-EP(250+400)YNW-A2	PUHY-EP(350+350)YNW-A2	PUHY-EP(350+400)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		61.5	67.0	73.0	80.0	85.0
	Power input (nominal)	kW		18.46	20.00	23.54	25.64	27.96
	SEER			7.16	7.04	6.89	6.82	6.72
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
			Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW	61.5 / 69.0	67.0 / 75.0	73.0 / 81.5	80.0 / 90.0	85.0 / 95.0	
	Power input (nominal)/ Power input (max)	kW	15.14 / 18.01	16.54 / 19.68	18.52 / 21.96	19.55 / 23.62	21.46 / 25.67	
	SCOP		4.24	4.12	4.30	4.35	4.29	
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
			Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**4,5	Sound pression (Sound power) level	dB(A)	64.0/66.5 (82/85)	64.0/67.5 (83/87)	66.5/67.0 (83/86)	65.0/67.0 (83/86)	67.0/68.0 (84/87)	
Connectable indoor units	Total Capacity		50~130% of outdoor unit capacity					
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	
Ø Ref. piping diameter	Liquid	mm	15.88	15.88	15.88	19.05	19.05	
	Gas	mm	28.58	28.58	28.58	34.93	34.93	
Fan*6	Type x quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 3	Propeller fan x 4	Propeller fan x 4	
	Air flow	m³/min	185 + 240	240 + 240	185 + 270	270 + 270	270 + 270	
Compressor	Type		Inverter scroll hermetic compressor					
	Motor output	kW	5.1 + 6.1	6.1 + 6.1	5.1 + 9.8	7.7 + 7.7	7.7 + 9.8	
External dimention	H(H*)xWxD	mm	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	
Net weight		kg	228 + 231	231 + 231	228 + 303	282 + 282	282 + 303	
Refrigerant	Ref. Charge R410	kg	13	13	17.3	19.6	20.6	
	CO ₂ eq.	Tons	27.14	27.14	36.12	40.92	43.01	

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m (0ft.)
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m (0ft.)

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O). Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-EP800YSNW-A2 (-BS)	PUHY-EP850YSNW-A2 (-BS)	PUHY-EP900YSNW-A2 (-BS)	PUHY-EP950YSNW-A2 (-BS)	PUHY-EP1000YSNW-A2 (-BS)
HP				32	34	36	38	40
Modules				PUHY-EP(350+450)YNW-A2	PUHY-EP(400+450)YNW-A2	PUHY-EP(450+450)YNW-A2	PUHY-EP(250+350+350)YNW-A2	PUHY-EP(250+350+400)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		90.0	95.0	100.0	108.0	113.0
	Power input (nominal)	kW		31.03	33.45	36.63	34.06	36.33
	SEER			6.77	6.68	6.73	6.95	6.87
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW		90.0 / 101.0	95.0 / 106.0	100.0 / 112.0	108.0 / 121.5	113.0 / 126.5
	Power input (nominal)/ Power input (max)	kW		22.67 / 27.97	24.54 / 30.02	25.70 / 32.36	26.40 / 31.80	28.32 / 33.82
	SCOP			4.33	4.28	4.32	4.36	4.32
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**5	Sound pressure (Sound power) level	dB(A)		67.5/70.5 (85/91)	68.5/72.0 (86/91)	69.0/73.5 (87/93)	66.5/68.0 (84/87)	68.0/68.5 (85/88)
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		19.05	19.05	19.05	19.05	19.05
	Gas	mm		34.93	41.28	41.28	41.28	41.28
Fan*6	Type x quantity			Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 5	Propeller fan x 5
	Air flow	m³/min		270 + 305	270 + 305	305 + 305	185 + 270 + 270	185 + 270 + 270
Compressor	Type			Inverter scroll hermetic compressor				
	Motor output	kW		7.7 + 11.1	9.8 + 11.1	11.1 + 11.1	5.1 + 7.7 + 7.7	5.1 + 7.7 + 9.8
External dimensions	H(H*5)xWxD	mm		1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		282 + 303	303 + 303	303 + 303	228 + 282 + 282	228 + 282 + 303
Refrigerant	Ref. Charge R410	kg		20.6	21.6	21.6	26.1	27.1
	CO ₂ eq.	Tons		43.01	45.1	45.1	54.49	56.58

Technical specifications

MODEL				PUHY-EP1050YSNW-A2 (-BS)	PUHY-EP1100YSNW-A2 (-BS)	PUHY-EP1150YSNW-A2 (-BS)	PUHY-EP1200YSNW-A2 (-BS)	PUHY-EP1250YSNW-A2 (-BS)
HP				42	44	46	48	50
Modules				PUHY-EP(250+400+400)YNW-A2	PUHY-EP(350+350+400)YNW-A2	PUHY-EP(350+400+400)YNW-A2	PUHY-EP(400+400+400)YNW-A2	PUHY-EP(400+400+450)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		118.0	125.0	130.0	135.0	140.0
	Power input (nominal)	kW		38.68	40.71	43.04	45.45	48.44
	SEER			6.79	6.75	6.69	6.62	6.66
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW		118.0 / 131.5	125.0 / 140.0	130.0 / 145.0	135.0 / 150.0	140.0 / 156.0
	Power input (nominal)/ Power input (max)	kW		30.17 / 35.83	31.25 / 37.53	33.07 / 39.50	34.97 / 41.55	36.17 / 43.94
	SCOP			4.28	4.31	4.27	4.25	4.27
	Temperature operating field	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level**5	Sound pressure (Sound power) level	dB(A)		68.5/69.0 (86/89)	68.0/69.5 (86/89)	69.0/70.0 (86/89)	70.0/70.5 (87/90)	70.0/73.0 (88/92)
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50
Ø Ref. piping diameter	Liquid	mm		19.05	19.05	19.05	19.05	19.05
	Gas	mm		41.28	41.28	41.28	41.28	41.28
Fan*6	Type x quantity			Propeller fan x 5	Propeller fan x 6	Propeller fan x 6	Propeller fan x 6	Propeller fan x 6
	Air flow	m³/min		185 + 270 + 270	270 + 270 + 270	270 + 270 + 270	270 + 270 + 270	270 + 270 + 305
Compressor	Type			Inverter scroll hermetic compressor				
	Motor output	kW		5.1 + 9.8 + 9.8	7.7 + 7.7 + 9.8	7.7 + 9.8 + 9.8	9.8 + 9.8 + 9.8	9.8 + 9.8 + 11.1
External dimensions	H(H*5)xWxD	mm		1858(1798)x920x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		282 + 303 + 303	282 + 282 + 303	282 + 303 + 303	303 + 303 + 303	303 + 303 + 303
Refrigerant	Ref. Charge R410	kg		28.1	30.4	31.4	32.4	32.4
	CO ₂ eq.	Tons		58.67	63.47	63.47	67.65	67.65

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m (0ft.)
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m (0ft.)

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PUHY-EP1300YSNW-A2 (-BS)		PUHY-EP1350YSNW-A2 (-BS)	
HP				52		54	
Modules				PUHY-EP(400+450+450)YNW-A2		PUHY-EP(450+450+450)YNW-A2	
Power supply			V/Hz/n°	3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling	Capacity (nominal) *1		kW	145.0		150.0	
	Power input (nominal)		kW	51,60		54,94	
	SEER			6,70		6,73	
	Temperature operating field	Indoor WB	°C	15.0~24.0°C		15.0~24.0°C	
		Outdoor DB	°C	-5.0~52.0°C		-5.0~52.0°C	
Heating	Capacity (nominal) *3/ Capacity (max) *2		kW	145.0 / 162.0		150.0 / 168.0	
	Power input (nominal)/ Power input (max)		kW	37,37 / 46,28		38,56 / 48,55	
	SCOP			4,29		4,32	
	Temperature operating field	Indoor DB	°C	15.0~27.0°C		15.0~27.0°C	
		Outdoor WB	°C	-20.0~15.5°C		-20.0~15.5°C	
Sound level**4,5	Sound pression (Sound power) level		dB(A)	70.0/74.0 (88/94)		70.5/75.5 (89/95)	
Connectable indoor units	Total Capacity			50~130% of outdoor unit capacity			
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/3~50		P10~P250, M20~M140/3~50	
Ø Ref. piping diameter	Liquid		mm	19.05		19.05	
	Gas		mm	41.28		41.28	
Fan*6	Type x quantity			Propeller fan x 6		Propeller fan x 6	
	Air flow		m³/min	270 + 305 + 305		305 + 305 + 305	
Compressor	Type			Inverter scroll hermetic compressor			
	Motor output		kW	9.8 + 11.1 + 11.1		11.1 + 11.1 + 11.1	
External dimentions	H(H**5)xWxD		mm	1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740		1858(1798)x1240x740 1858(1798)x1240x740 1858(1798)x1240x740	
Net weight			kg	303 + 303 + 303		303 + 303 + 303	
Refrigerant	Ref. Charge R410		kg	32,4		32,4	
	CO ₂ eq.		Tons	67,65		67,65	

**1, **2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 Cooling mode / Heating mode

*5 The sound pressure level measured by the conventional method in JIS for reference purpose.

*6 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.



R2 NEXT STAGE LINE

OUTDOOR UNITS - PURY-(E)P Y(S)NW-A2(-BS)



NEW FOUR-SIDED
BATTERY

STATIC PRESSURE OF FAN
INCREASED UP TO 80 PA.

CITY MULTI

NEW FAN WITH LOW
FRICTION PROFILE

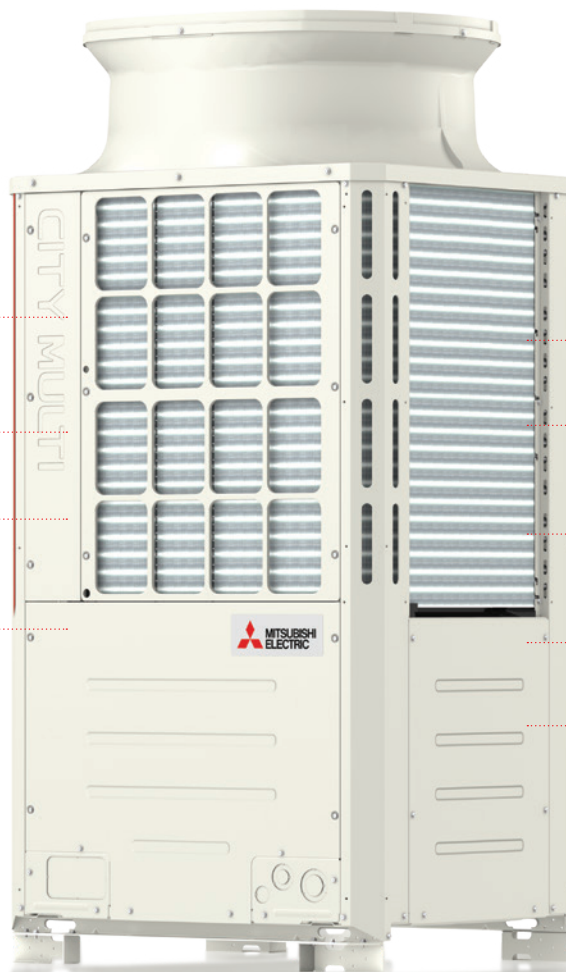
COMPRESSOR OPTIMISED
WITH "MULTI-PORT"
TECHNOLOGY

NEW AUTO-SHIFT MODE

NEW AUTO-SHIFT MODE
PREHEAT DEFROST FUNCTION

ADVANCED ETC CONTROL OF
EVAPORATION TEMPERATURE.

FLEXIBLE NOISE SETTING



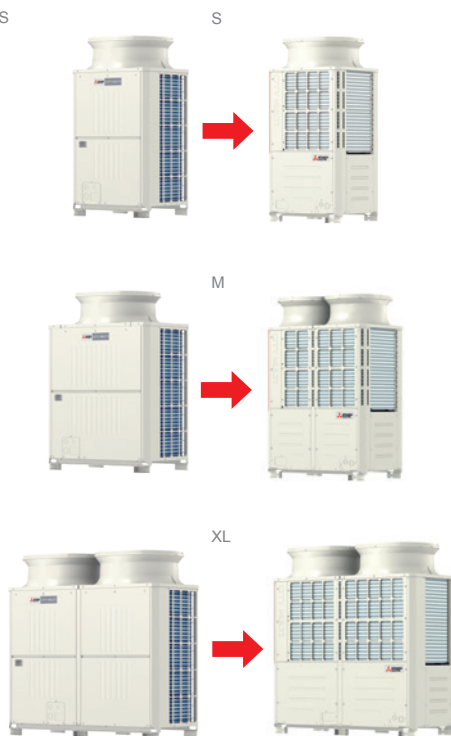
New design

The new outdoor units of the YNW series use a four-sided heat exchanger close to the top of the case near the fan. This technological and construction choice makes it possible to increase heat exchange efficiency.

NEW FOUR-SIDED BATTERY



NEW MODULES

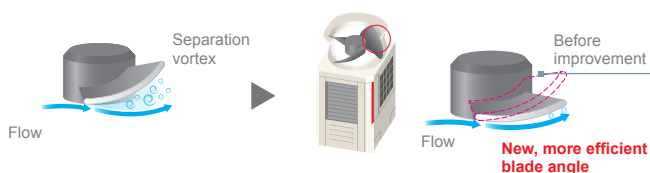


New fan with new blade profile

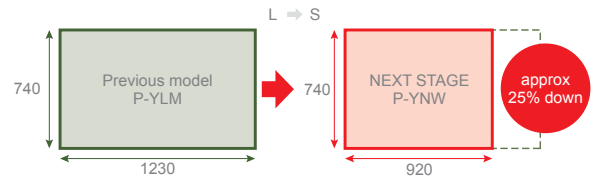
The fan of the new YNW series has been completely redesigned to fit with the new four-sided battery. The profile of the fins has been optimised to minimise fluid flow losses.

BEFORE IMPROVEMENT

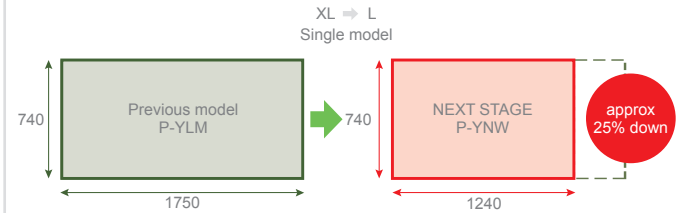
AFTER IMPROVEMENT



P300

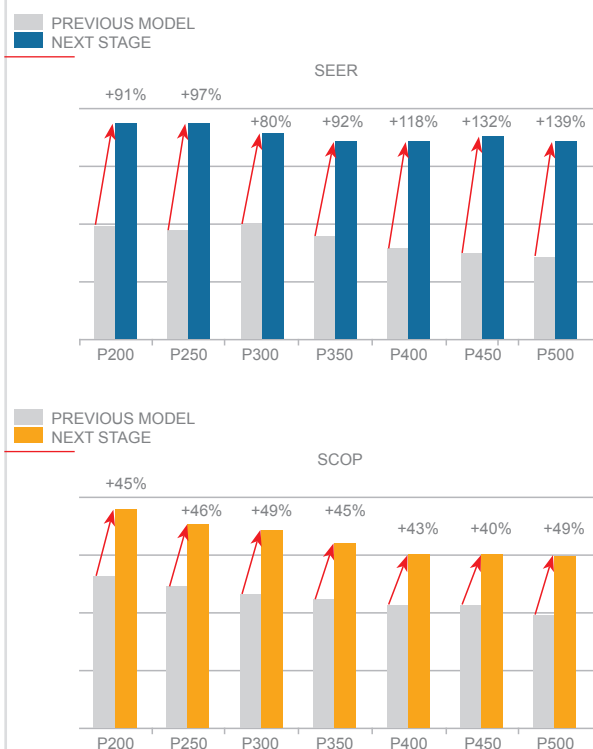


P450



Energy saving

Energy efficiency has been further improved compared to YLM units and now hits top of the range performance values. SEER values have been raised by 139% (P500) compared to the previous model and SCOP values by 49% (P300 and P500). This allows the new YNW units to consume less energy in both cooling and heating. All year-round saving.

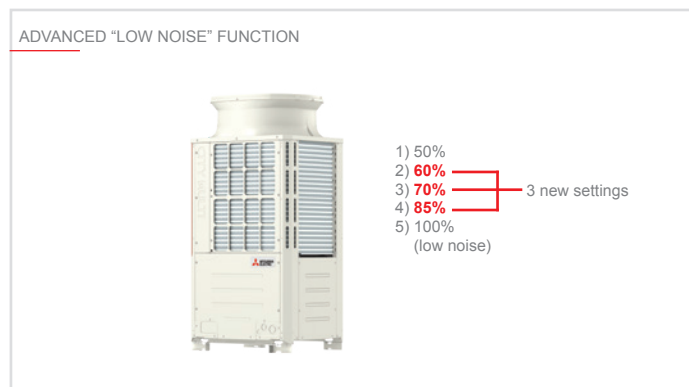


Single module

		Previous model	YNW
8HP	P200	S	S
10HP	P250	S	S
12HP	P300	L	S
14HP	P350	L	L
16HP	P400	L	L
18HP	P450	XL	L
20HP	P500	XL	XL

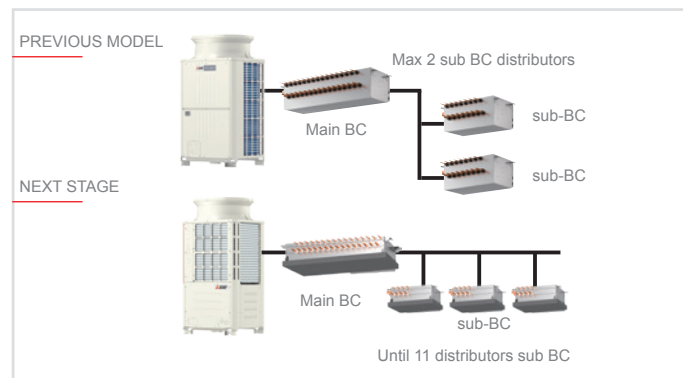
Advanced “Low Noise” function

Low noise” mode can now be selected using five different settings: 85%, 70%, 60% and 50% (values referring to ventilation speed). Noise reduction is directly configurable from the control board of the outdoor unit. Different settings can be selected depending on the installation requirements (in applications with special noise constraints).



New BC distributor

Increased number of connections (for systems with BC SUB distributor) and increased geometric limits. In the R2 heat recovery systems of the new YNW line, up to 11 BC SUB distributors can be connected to the BC Main distributor, thus allowing greater flexibility of configuration. The adoption of the new architecture allows a reduction of the refrigerant charge in the system.



Key Technologies

Technical specifications

MODEL			PURY-P200YNW-A2(-BS)	PURY-P250YNW-A2(-BS)	PURY-P300YNW-A2(-BS)	PURY-P350YNW-A2(-BS)	PURY-P400YNW-A2(-BS)
HP			8	10	12	14	16
Modules			PURY-P200YNW-A2	PURY-P250YNW-A2	PURY-P300YNW-A2	PURY-P350YNW-A2	PURY-P400YNW-A2
Power supply	V/Hz/n°		3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) **1	kW	22.4	28.0	33.5	40.0	45.0
	Power input (nominal)	kW	6.68	10.25	11.75	14.92	19.65
	SEER		7.27	6.85	6.34	5.98	5.82
	Temperature operating field	Indoor WB °C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
Heating		Outdoor DB °C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
	Capacity (nominal) **3/ Capacity (max) **2	kW	22.4/25.0	28.0/31.5	33.5/33.5	40.0/45.0	45.0/50.0
	Power input (nominal)/ Power input (max)	kW	5.38/6.79	7.36/9.57	9.62/9.62	10.89/13.88	13.39/16.66
	SCOP		4.01	4.01	4.01	3.53	3.51
Sound level **5/6	Temperature operating field**4	Indoor DB °C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB °C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level **5/6	Sound pressure (Sound power) level	dB(A)	59/59 (76/76)	60.5/64 (78/83)	61/67 (80/86)	62.5/64 (81/83)	65/69 (83/88)
Connectable indoor units	Total Capacity		50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/1~20	P10~P250, M20~M140/1~25	P10~P250, M20~M140/1~30	P10~P250, M20~M140/1~35	P10~P250, M20~M140/1~40
Ø Ref. piping diameter	Liquid	mm	15.88	19.05	19.05	19.05	22.2
	Gas	mm	19.05	22.2	22.2	28.58	28.58
Fan**7	Type x quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min	170	220	240	250	315
Compressor	Type		Inverter scroll hermetic				
	Motor output	kW	5.0	8.0	9.2	12.0	16.1
External dimensions	HxWxD	mm	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x1240x740	1858(1798)x1240x740
Net weight		kg	214	223	225	269	269
Refrigerant	Ref. Charge R410	kg	5.2	5.2	5.2	8.0	8.0
	CO ₂ eq.	Tons	10.85	10.85	10.85	16.70	16.70

**1,2,3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

**3 Eurovent registered

**4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

**5 Cooling mode / Heating mode

**6 The sound pressure level measured by the conventional method in JIS for reference purpose.

**7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PURY-P450YNW-A2(-BS)	PURY-P500YNW-A2(-BS)	PURY-P550YNW-A2(-BS)	PURY-P400YSNW-A2(-BS)	PURY-P450YSNW-A2(-BS)	PURY-P500YSNW-A2(-BS)
HP				18	20	22	16	18	20
Modules				PURY-P450YNW-A2	PURY-P500YNW-A2	PURY-P550YNW-A2	PURY-P(200+200)YNW-A2	PURY-P(200+250)YNW-A2	PURY-P(250+250)YNW-A2
Power supply		V/Hz/n°		3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling	Capacity (nominal) *1	kW		50.0	56.0	60.0	44.8	50.4	56.0
	Power input (nominal)	kW		19.84	22.22	25.86	13.78	17.08	21.13
	SEER			6.38	6.24	6.25	7.05	6.85	6.64
	Temperature operating field								
	Indoor WB	°C		15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C		-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		50.0/56.0	56.0/63.0	63.0/69.0	44.8/50.0	50.4/56.5	56.0/63.0
	Power input (nominal)/ Power input (max)	kW		15.33/18.79	16.76/21.14	20.00/24.55	11.08/14.00	13.05/16.71	15.17/19.74
	SCOP			3.51	3.51	3.51	4.01	4.01	4.01
	Temperature operating field**								
	Indoor DB	°C		15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C		-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level	dB(A)		65.5/70 (83/89)	63.5/64.5 (82/84)	70.0/70.0 (89/89)	62/62 (79/79)	63/65.5 (81/84)	63.5/67 (81/86)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity					
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/1~40	P10~P250, M20~M140/1~45	P10~P250, M20~M140/1~50
Ø Ref. piping diameter	Liquid	mm		22.2	22.2	22.2	22.2	22.2	22.2
	Gas	mm		28.58	28.58	28.58	28.58	28.58	28.58
Fan*7	Type x quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min		315	295	410	170+170	170+220	220+220
Compressor	Type			Inverter scroll hermetic					
	Motor output	kW		16.2	17.4	20.5	5.0+5.0	5.0+8.0	8.0+8.0
External dimentions	HxWxD	mm		1858(1798)x1240x740	1858(1798)x1750x740	1858(1798)x1750x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740
Net weight		kg		289	335	335	214+214	214+223	223+223
Refrigerant	Ref. Charge R410	kg		10.8	10.8	10.8	10.4	10.4	10.4
	CO ₂ eq.	Tons		22.55	22.55	22.55	21.71	21.71	21.71

Technical specifications

MODEL				PURY-P550YSNW-A2(-BS)	PURY-P600YSNW-A2(-BS)	PURY-P650YSNW-A2(-BS)	PURY-P700YSNW-A2(-BS)	PURY-P750YSNW-A2(-BS)
HP				22	24	26	28	30
Modules				PURY-P(250+300)YNW-A2	PURY-P(300+300)YNW-A2	PURY-P(300+350)YNW-A2	PURY-P(350+350)YNW-A2	PURY-P(350+400)YNW-A2
Power supply		V/Hz/n°		3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		61.5	67.0	73.5	80.0	85.0
	Power input (nominal)	kW		22.69	24.27	27.42	30.76	35.26
	SEER			6.40	6.15	5.98	5.80	5.72
	Temperature operating field							
	Indoor WB	°C		15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C		-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		61.5/65.0	67.0/67.0	73.5/78.5	80.0/90.0	85.0/95.0
	Power input (nominal)/ Power input (max)	kW		17.42/19.81	19.82/19.81	21.18/24.07	22.47/28.66	24.92/31.35
	SCOP			4.01	4.01	3.53	3.53	3.51
	Temperature operating field**							
	Indoor DB	°C		15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C		-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level	dB(A)		64/69 (83/88)	64/70 (83/89)	65/69 (84/88)	65.5/67 (84/86)	67/70.5 (86/90)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		22.2	22.2	28.58	28.58	28.58
	Gas	mm		28.58	28.58	28.58	34.93	34.93
Fan*7	Type x quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 3	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min		220+240	240+240	240+250	250+250	250+315
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		8.0+9.2	9.2+9.2	9.2+12.0	12.0+12.0	12.0+16.1
External dimentions	HxWxD	mm		1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		223+225	225+225	225+269	269+269	269+269
Refrigerant	Ref. Charge R410	kg		10.4	10.4	13.2	16	16
	CO ₂ eq.	Tons		21.71	21.71	27.56	33.40	33.40

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

*5 Cooling mode / Heating mode

*6 The sound pressure level measured by the conventional method in JIS for reference purpose.

*7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PURY-P800YSNW-A2(-BS)	PURY-P850YSNW-A2(-BS)	PURY-P900YSNW-A2(-BS)	PURY-P950YSNW-A2(-BS)	PURY-P1000YSNW-A2(-BS)
HP				32	34	36	38	40
Modules				PURY-P(400+400)YNW-A2	PURY-P(400+450)YNW-A2	PURY-P(450+450)YNW-A2	PURY-P(450+500)YNW-A2	PURY-P(500+500)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		90.0	95.0	100.0	106.0	112.0
	Power input (nominal)	kW		40.54	40.77	40.98	43.44	45.90
	SEER			5.65	5.92	6.19	6.12	6.05
	Temperature operating field							
	Indoor WB	°C		15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C		-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		90.0/100.0	95.0/106.0	100.0/112.0	106.0/119.0	112.0/126.0
	Power input (nominal)/ Power input (max)	kW		27.60/34.36	29.59/36.55	31.64/38.75	33.12/41.17	34.56/43.59
	SCOP			3.51	3.51	3.51	3.51	3.51
	Temperature operating field**4							
	Indoor DB	°C		15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C		-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level			68/72 (86/91)	68.5/72.5 (86/92)	68.5/73.0 (86/92)	68/71.5 (86/91)	66.5/67.5 (85/87)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		28.58	28.58	28.58	28.58	28.58
	Gas	mm		34.93	41.28	41.28	41.28	41.28
Fan*7	Type x quantity			Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min		315+315	315+315	315+315	315+295	295+295
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		16.1+16.1	16.1+16.2	16.2+16.2	16.2+17.4	17.4+17.4
External dimentions	HxWxD	mm		1858(1798)x1240x740	1858(1798)x1240x740	1858(1798)x1240x740	1858(1798)x1240x740	1858(1798)x1750x740
Net weight		kg		269+269	269+289	289+289	289+335	335+335
Refrigerant	Ref. Charge R410	kg		16	18.8	21.6	21.6	21.6
	CO ₂ eq.	Tons		33.40	39.25	45.1	45.1	45.1

Technical specifications

MODEL				PURY-P1050YSNW-A2(-BS)	PURY-P1100YSNW-A2(-BS)
HP				42	44
Modules				PURY-P(500+550)YNW-A2	PURY-P(550+550)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling	Capacity (nominal) *1	kW		116.0	120.0
	Power input (nominal)	kW		49.36	53.32
	SEER			6.06	6.06
	Temperature operating field				
	Indoor WB	°C		15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C		-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW		119.0/132.0	126.0/138.0
	Power input (nominal)/ Power input (max)	kW		37.77/46.97	41.17/50.54
	SCOP			3.51	3.51
	Temperature operating field**4				
	Indoor DB	°C		15.0~27.0°C (59~81°F)	15.0~27.0°C
	Outdoor WB	°C		-20.0~15.5°C (-4~60°F)	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level			71.0/71.5 (90/91)	73.0/73.0 (92/92)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity	
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/3~50	
Ø Ref. piping diameter	Liquid	mm		34.93	34.93
	Gas	mm		41.28	41.28
Fan*7	Type x quantity			Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min		295+410	410+410
Compressor	Type			Inverter scroll hermetic	
	Motor output	kW		17.4+20.5	20.5+20.5
External dimentions	HxWxD	mm		1858(1798)x1750x740 1858(1798)x1750x740	1858(1798)x1750x740 1858(1798)x1750x740
Net weight		kg		335+335	335+335
Refrigerant	Ref. Charge R410	kg		21.6	21.6
	CO ₂ eq.	Tons		45.1	45.1

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

*5 Cooling mode / Heating mode

*6 The sound pressure level measured by the conventional method in JIS for reference purpose.

*7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL			PURY-EP200YNW-A2(-BS)	PURY-EP250YNW-A2(-BS)	PURY-EP300YNW-A2(-BS)	PURY-EP350YNW-A2(-BS)	PURY-EP400YNW-A2(-BS)
HP			8	10	12	14	16
Modules			PURY-EP200YNW-A2	PURY-EP250YNW-A2	PURY-EP300YNW-A2	PURY-EP350YNW-A2	PURY-EP400YNW-A2
Power supply		V/Hz/n°	3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) **1	kW	22.4	28.0	33.5	40.0	45.0
	Power input (nominal)	kW	6.38	9.75	11.20	14.23	18.75
	SEER		7.45	7.05	6.48	6.03	6.10
	Temperature operating field						
	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) **3/ Capacity (max) **2	kW	22.4 / 25.0	28.0 / 31.5	33.5 / 37.5	40.0 / 45.0	45.0 / 50.0
	Power input (nominal)/ Power input (max)	kW	5.37 / 6.72	7.31 / 9.51	9.59 / 10.90	10.63 / 13.39	13.15 / 16.33
	SCOP		3.51	3.51	3.54	3.56	3.57
	Temperature operating field**4						
	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level **5#6	Sound pressure (Sound power) level	dB(A)	59.0/59.0 (76/76)	60.5/61.0 (78/80)	61.0/67.0 (80/86)	62.5/64.0 (81/83)	65.0/69.0 (83/88)
Connectable indoor units	Total Capacity		50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI	P10-P250, M20-M140/1-20	P10-P250, M20-M140/1-25	P10-P250, M20-M140/1-30	P10-P250, M20-M140/1-35	P10-P250, M20-M140/1-40
Ø Ref. piping diameter	Liquid	mm	15.88	19.05	19.05	19.05	22.2
	Gas	mm	19.05	22.2	22.2	28.58	28.58
Fan*7	Type x quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min	170	185	240	250	315
Compressor	Type		Inverter scroll hermetic				
	Motor output	kW	4.9	7.5	8.8	11.4	15.3
External dimensions	HxWxD	mm	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x920x740	1858(1798)x1240x740	1858(1798)x1240x740
Net weight		kg	219	228	230	275	276
Refrigerant	Ref. Charge R410	kg	5.2	5.2	5.2	8.0	8.0
	CO ₂ eq.	Tons	10.85	10.85	10.85	16.70	16.70

Technical specifications

MODEL			PURY-EP450YNW-A2(-BS)	PURY-EP500YNW-A2(-BS)	PURY-EP550YNW-A2(-BS)	PURY-EP400YSNW-A2(-BS)	PURY-EP450YSNW-A2(-BS)
HP			18	20	22	16	18
Modules			PURY-EP450YNW-A2	PURY-EP500YNW-A2	PURY-EP550YNW-A2	PURY-EP(200+200)YNW-A2	PURY-EP(200+250)YNW-A2
Power supply		V/Hz/n°	3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) **1	kW	50.0	56.0	60.0	44.8	50.4
	Power input (nominal)	kW	18.93	21.78	25.70	13.17	16.31
	SEER		6.58	6.38	6.40	7.23	7.03
	Temperature operating field						
	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) **3/ Capacity (max) **2	kW	50.0 / 56.0	56.0 / 63.0	63.0 / 69.0	44.8 / 50.0	50.4 / 56.5
	Power input (nominal)/ Power input (max)	kW	14.61 / 18.36	16.66 / 21.00	19.81 / 23.87	11.08 / 13.85	12.98 / 16.56
	SCOP		3.56	3.54	3.51	3.51	3.51
	Temperature operating field**4						
	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level **5#6	Sound pressure (Sound power) level	dB(A)	65.5/70.0 (83/89)	63.5/64.5 (82/84)	70.0/70.0 (89/89)	62.0/62.0 (79/79)	63.0/63.5 (81/82)
Connectable indoor units	Total Capacity		50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI	P10-P250, M20-M140/1-45	P10-P250, M20-M140/1-50	P10-P250, M20-M140/2-50	P10-P250, M20-M140/1-40	P10-P250, M20-M140/1-45
Ø Ref. piping diameter	Liquid	mm	22.2	22.2	22.2	22.2	22.2
	Gas	mm	28.58	28.58	28.58	28.58	28.58
Fan*7	Type x quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow	m³/min	315	295	410	170 + 170	170 + 185
Compressor	Type		Inverter scroll hermetic				
	Motor output	kW	15.5	17.0	20.4	4.9 + 4.9	4.9 + 7.5
External dimensions	HxWxD	mm	1858(1798)x1240x740	1858(1798)x1750x740	1858(1798)x1750x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740
Net weight		kg	301	346	346	219 + 219	219 + 228
Refrigerant	Ref. Charge R410	kg	10.8	10.8	10.8	10.4	10.4
	CO ₂ eq.	Tons	22.55	22.55	22.55	21.71	21.71

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

*5 Cooling mode / Heating mode

*6 The sound pressure level measured by the conventional method in JIS for reference purpose.

*7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL				PURY-EP500YSNW-A2(-BS)	PURY-EP550YSNW-A2(-BS)	PURY-EP600YSNW-A2(-BS)	PURY-EP650YSNW-A2(-BS)	PURY-EP700YSNW-A2(-BS)
HP				20	22	24	26	28
Modules				PURY-EP(250+250)YNW-A2	PURY-EP(250+300)YNW-A2	PURY-EP(300+300)YNW-A2	PURY-EP(300+350)YNW-A2	PURY-EP(350+350)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		56.0	61.5	67.0	73.5	80.0
	Power input (nominal)	kW		20.14	21.65	23.10	26.15	29.30
	SEER			6.84	6.56	6.29	6.07	5.85
	Temperature operating field	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW		56.0 / 63.0	61.5 / 69.0	67.0 / 75.0	73.5 / 82.5	80.0 / 90.0
	Power input (nominal)/ Power input (max)	kW		15.05 / 19.62	17.32 / 21.10	19.76 / 22.45	20.88 / 25.00	21.91 / 27.60
	SCOP			3.51	3.51	3.54	3.54	3.56
	Temperature operating field**	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level			63.5/64.0 (81/83)	64.0/68.0 (83/87)	64.0/70.0 (83/89)	65.0/69.0 (84/88)	65.5/67.0 (84/86)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/1~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		22.2	22.2	22.2	28.58	28.58
	Gas	mm		28.58	28.58	28.58	28.58	34.93
Fan*7	Type x quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 3	Propeller fan x 4
	Air flow	m³/min		185 + 185	185 + 240	240 + 240	240 + 250	250 + 250
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		7.5 + 7.5	7.5 + 8.8	8.8 + 8.8	8.8 + 11.4	11.4 + 11.4
External dimensions	HxWxD	mm		1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x920x740	1858(1798)x920x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740
Net weight		kg		228 + 228	228 + 230	230 + 230	230 + 275	275 + 275
Refrigerant	Ref. Charge R410	kg		10.4	10.4	10.4	13.2	16
	CO ₂ eq.	Tons		21.71	21.71	21.71	27.56	33.40

Technical specifications

MODEL				PURY-EP750YSNW-A2(-BS)	PURY-EP800YSNW-A2(-BS)	PURY-EP850YSNW-A2(-BS)	PURY-EP900YSNW-A2(-BS)	PURY-EP950YSNW-A2(-BS)
HP				30	32	34	36	38
Modules				PURY-EP(350+400)YNW-A2	PURY-EP(400+400)YNW-A2	PURY-EP(400+450)YNW-A2	PURY-EP(450+450)YNW-A2	PURY-EP(450+500)YNW-A2
Power supply	V/Hz/n°			3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling	Capacity (nominal) *1	kW		85.0	90.0	95.0	100.0	106.0
	Power input (nominal)	kW		33.59	38.62	38.93	39.06	41.89
	SEER			5.88	5.92	6.15	6.38	6.29
	Temperature operating field	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
		Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *2/ Capacity (max) *2	kW		85.0 / 95.0	90.0 / 100.0	95.0 / 106.0	100.0 / 112.0	106.0 / 119.0
	Power input (nominal)/ Power input (max)	kW		24.42 / 30.54	27.10 / 33.67	28.61 / 35.81	30.12 / 37.83	32.21 / 40.61
	SCOP			3.56	3.57	3.56	3.56	3.54
	Temperature operating field**	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
		Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level			67.0/70.5 (86/90)	68.0/72.0 (86/91)	68.5/72.5 (86/92)	68.5/73.0 (86/92)	68.0/71.5 (86/91)
Connectable indoor units	Total Capacity			50~150% of outdoor unit capacity				
	Model/Quantity	CITY MULTI		P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50	P10~P250, M20~M140/2~50
Ø Ref. piping diameter	Liquid	mm		28.58	28.58	28.58	28.58	28.58
	Gas	mm		34.93	34.93	41.28	41.28	41.28
Fan*7	Type x quantity			Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min		250 + 315	315 + 315	315 + 315	315 + 315	315 + 295
Compressor	Type			Inverter scroll hermetic				
	Motor output	kW		11.4 + 15.3	15.3 + 15.3	15.3 + 15.5	15.5 + 15.5	15.5 + 17.0
External dimensions	HxWxD	mm		1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1240x740	1858(1798)x1240x740 1858(1798)x1750x740
Net weight		kg		275 + 276	276 + 276	276 + 301	301 + 301	301 + 346
Refrigerant	Ref. Charge R410	kg		16	16	18.8	21.6	21.6
	CO ₂ eq.	Tons		33.40	37.58	39.25	45.1	45.1

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

*5 Cooling mode / Heating mode

*6 The sound pressure level measured by the conventional method in JIS for reference purpose.

*7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

Technical specifications

MODEL			PURY-EP1000YSNW-A2(-BS)	PURY-EP1050YSNW-A2(-BS)	PURY-EP1100YSNW-A2(-BS)
HP			40	42	44
Modules			PURY-EP(500+500)YNW-A2	PURY-EP(500+550)YNW-A2	PURY-EP(550+550)YNW-A2
Power supply	V/Hz/n°		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling	Capacity (nominal) *1	kW	112.0	116.0	120.0
	Power input (nominal)	kW	44.97	48.73	53.08
	SEER		6.19	6.20	6.21
	Temperature operating field				
	Indoor WB	°C	15.0~24.0°C	15.0~24.0°C	15.0~24.0°C
	Outdoor DB	°C	-5.0~52.0°C	-5.0~52.0°C	-5.0~52.0°C
Heating	Capacity (nominal) *3/ Capacity (max) *2	kW	112.0 / 126.0	119.0 / 132.0	126.0 / 138.0
	Power input (nominal)/ Power input (max)	kW	34.35 / 43.29	37.53 / 46.15	40.90 / 49.28
	SCOP		3.54	3.51	3.51
	Temperature operating field*4				
	Indoor DB	°C	15.0~27.0°C	15.0~27.0°C	15.0~27.0°C
	Outdoor WB	°C	-20.0~15.5°C	-20.0~15.5°C	-20.0~15.5°C
Sound level *5*6	Sound pressure (Sound power) level	dB(A)	66.5/67.5 (85/87)	71.0/71.5 (90/91)	73.0/73.0 (92/92)
Connectable indoor units	Total Capacity		50~150% of outdoor unit capacity		
	Model/Quantity	CITY MULTI	P10~P250, M20~M140/2~50	P10~P250, M20~M140/3~50	P10~P250, M20~M140/3~50
Ø Ref. piping diameter	Liquid	mm	28.58	34.93	34.93
	Gas	mm	41.28	41.28	41.28
Fan*7	Type x quantity		Propeller fan x 4	Propeller fan x 4	Propeller fan x 4
	Air flow	m³/min	295 + 295	295 + 410	410 + 410
Compressor	Type		Inverter scroll hermetic		
	Motor output	kW	17.0 + 17.0	17.0 + 20.4	20.4 + 20.4
External dimensions	HxWxD	mm	1858(1798)x1750x740 1858(1798)x1750x740	1858(1798)x1750x740 1858(1798)x1750x740	1858(1798)x1750x740 1858(1798)x1750x740
Net weight		kg	346 + 346	346 + 346	346 + 346
Refrigerant	Ref. Charge R410	kg	21.6	21.6	21.6
	CO ₂ eq.	Tons	45.1	45.1	45.1

*1,*2,*3 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB	7.5m	0m

*3 Eurovent registered

*4 -10°C D.B. (14°F D.B.)/-11°C W.B. (12°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.

*5 Cooling mode / Heating mode

*6 The sound pressure level measured by the conventional method in JIS for reference purpose.

*7 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH₂O, 6.1 mmH₂O, 8.2 mmH₂O).

Consult your dealer about the specification when setting External static pressure option.

*Due to continuing improvement, above specifications may be subject to change without notice.

WY WR2 LINE

OUTDOOR UNITS - Water condensed Heat pump and Heat recovery PQH(R)Y-P Y(S)LM-A1



WEIGHT REDUCED UP
TO -44% COMPARED TO
PREVIOUS MODEL

WIDER LINEUP
INTRODUCING 14HP SIZE

SINGLE MODULE UP TO
SIZE 24HP FOR EASIER
INSTALLATION AND LESS
ENCUMBRANCE

HIGHER EFFICIENCY THAN
PREVIOUS MODEL (UP TO
+20% EER AND +34% COP)



NEW CASE IN SMALL
AND LARGE VERSIONS

EVAPORATING
TEMPERATURE CONTROL
(ETC) FEATURE AVAILABLE

WATER FLOW
AUTOMATIC CONTROL
WITH 0-10V INPUT

FOR SIZES P700-P900
(28-36HP) REDUCED
OCCUPIED SURFACE.

*1 Values referring to the model PQHY-P600 YSLM-A compared to the same size as the previous series

*2 Value referred to the model P400 compared with the same size as the previous model

New Small and Large case

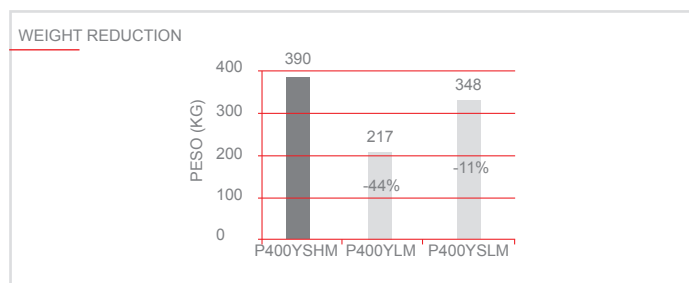
New water condensed outdoor units WY and WR2 are available in two module types: Small and Large. Large module allows capacity up to 24HP (69 kW in Cooling and 76,5 kW in Heating) with just one module, reducing occupied surface in installation site up to 50% compared to previous model. For double module configuration room saving can be up to 33%.

Weight reduction

A significant weight reduction compared to previous model, up to 44% with Large module, allows an easier installation and transportation of the unit.

Higher energy efficiency

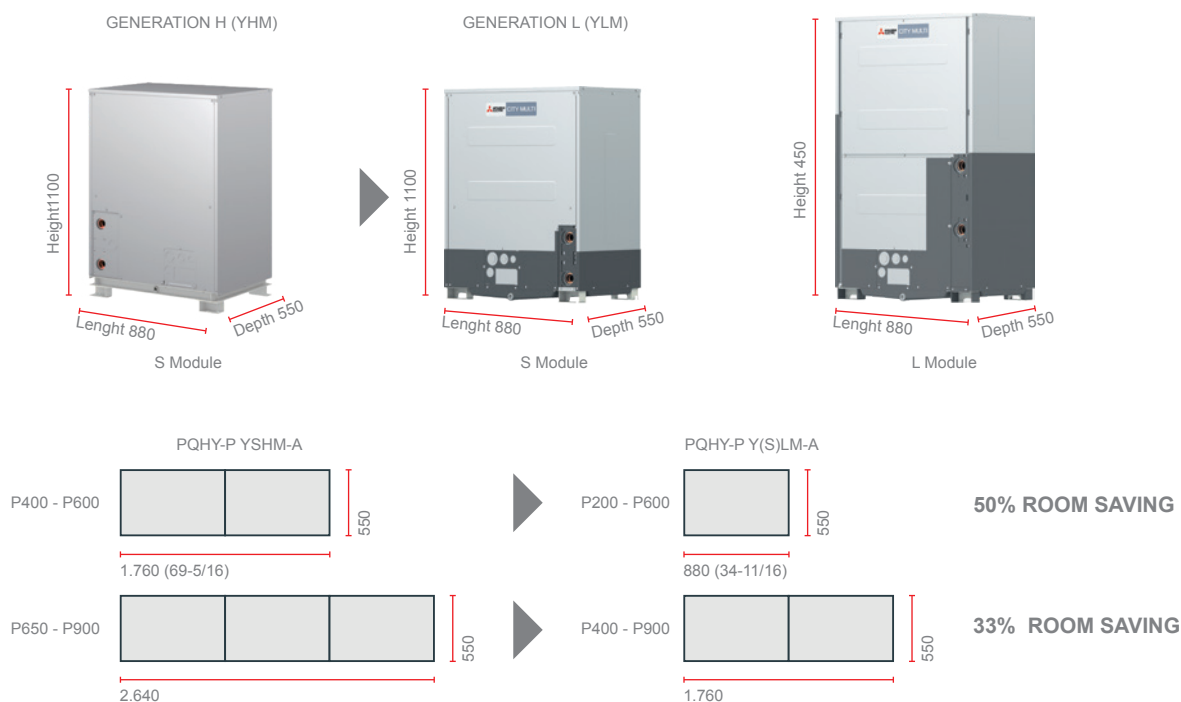
New WY and WR2 model grants top of the class EER and COP performances. Energy efficiency has been improved for both single and double module, in Cooling and Heating, up to +34%. This type of systems are among the most efficient in the world, thanks to high performances and constant temperature attributes of geothermal application.



	PQHY		PQRY	
	Y(S)HM	Y(S)LM	Y(S)HM	Y(S)LM
P200	195	174	181	172
P250	195	174	181	172
P300	195	174	181	172
P350	-	217	-	216
P400	390	217 ^{*1}	362	216 ^{*1}
		348		344 ^{*2}
P450	390	217 ^{*1}	362	216 ^{*1}
		348		344 ^{*2}
P500	390	217 ^{*1}	362	216 ^{*1}
		348		344 ^{*2}
P550	390	246 ^{*1}	362	246 ^{*1}
		348 ^{*2}		344 ^{*2}
P600	390	246 ^{*1}	362	246 ^{*1}
		348 ^{*2}		344 ^{*2}
P700	585	434	-	432
P750	585	434	-	432
P800	585	434	-	432
P850	585	434	-	432
P900	585	434	-	432

*1 Single module
*2 Double module

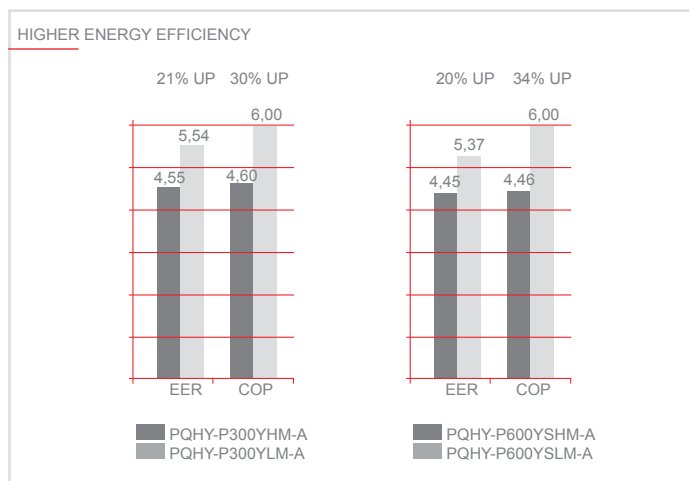
NEW CASE



Water flow rate control

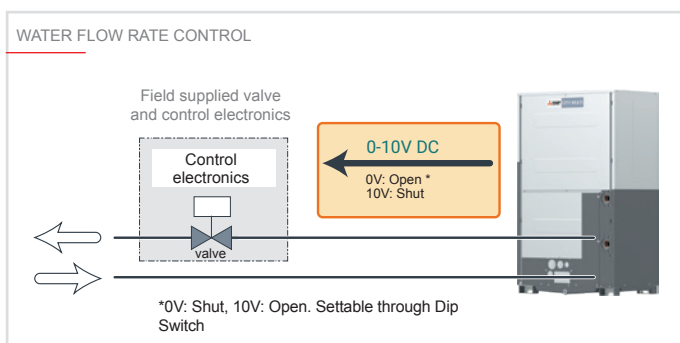
New YLM water condensed outdoor units are equipped with an automatic flow rate control system, which allows reduction of pumping consumption when the system works in partial load conditions. Flow rate control is performed by a 0-10V signal, which controls the regulation valve by shutting or opening it (field supplied).

Thanks to factory setting water circulation pumping is performed even during temporary blackout.



Advantages

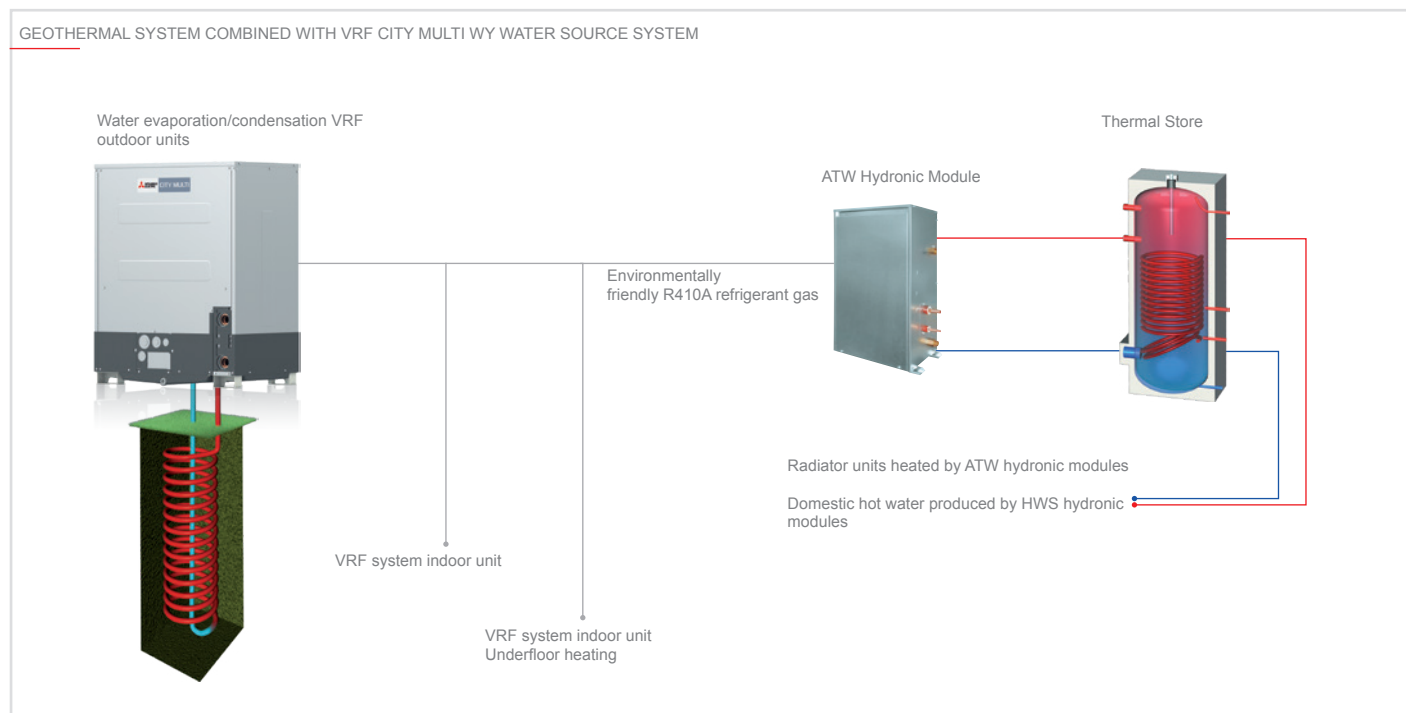
WY and WR2 lines VRF CITY MULTI systems have all the benefits of the Y series, using water evaporation condensing units. Water heat source condensing units offer the advantage of being installable inside the building, for even greater installation flexibility with practically no limitations for the dimensions of the infrastructure. Depending on the capacity of the outdoor unit, up to 26 indoor units can be connected to a single condensing unit, while up to 50 indoor units can be connected to a modular system with individual user and/or centralized control. The two-pipe system allows the system to transition from heating to cooling mode and vice versa, for superior comfort in all zones.



Geothermal applications

WY and WR2 lines outdoor units are perfectly suited for geothermal applications as they use water as the thermal medium fluid which, at depths from 10 m below ground, maintains a practically constant temperature with no significant excursions all year round.

A geothermal installation uses the ground as a heat source in winter and as a heat sink in summer. Using geothermal probes (heat exchangers) together with VRF CITY MULTI WY and WR2 systems, heat may be extracted from the ground to warm in winter, and dissipated into the ground to cool in summer.



Key Technologies

Technical specifications WY LINE

MODEL Single				PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P300YLM-A1
HP				8	10	12
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3-phase 380-400-415V 50Hz			
Cooling	Capacity*1	kW		22.4	28.0	33.5
	Power input	kW		3.71	4.90	6.04
	SEER			8.12	8.16	7.42
	Temperature operating field	Indoor WB °C		15.0~24.0	15.0~24.0	15.0~24.0
Heating	Capacity*2	kW		25.0	31.5	37.5
	Power input	kW		3.97	5.08	6.25
	SCOP			4.90	4.61	4.55
	Temperature operating field	Indoor DB °C		15.0~27.0	15.0~27.0	15.0~27.0
Sound power level*3			dB(A)	46	48	54
Connectable indoor units	Total capacity			50 to 130% of O.U. capacity	50 to 130% of O.U. capacity	50 to 130% of O.U. capacity
	Model/Quantity			P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Ø Ref. piping	Liquid	mm		9.52	9.52	9.52
	Gas	mm		19.05	22.2	22.2
Circulating Water	Flow rate	m³/h		5.76	5.76	5.76
	Operating volume range			3.0~7.2	3.0~7.2	3.0~7.2
	Pressure drop	kPa		24	24	24
	Heat exchanger volume	l		5.0	5.0	5.0
External dimensions		mm		1100 x 880 x 550	1100 x 880 x 550	1100 x 880 x 550
Net weight		kg		170	170	170
Ref. Charge R410A/CO ₂ Eq		kg/Tons		5.0 / 10.44	5.0 / 10.44	5.0 / 10.44

*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*2 Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*3 Values measured in anechoic chamber.

*4 GWP value of HFC R410A 2088 according to 517 / 2014.

Technical specifications WY LINE

MODEL Single				PQHY-P350YLM-A1	PQHY-P400YLM-A1	PQHY-P450YLM-A1	PQHY-P500YLM-A1	PQHY-P550YLM-A1	PQHY-P600YLM-A1
HP				14	16	18	20	22	24
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3-phase 380-400-415V 50Hz						
Cooling	Capacity*1	kW		40.0	45.0	50.0	56.0	63.0	69.0
	Power input	kW		7.14	8.03	9.29	11.17	12.54	14.49
	SEER			7.44	7.40	6.62	6.30	6.89	6.89
	Temperature operating field	Indoor WB °C		15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
Heating	Capacity*2	kW		45.0	50.0	56	63.0	69.0	76.5
	Power input	kW		7.53	8.37	9.79	11.43	12.27	14.51
	SCOP			4.29	4.25	4.17	4.04	3.77	3.51
	Temperature operating field	Indoor DB °C		15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
Sound power level*3			dB(A)	52	52	54	54	56.5	56.5
Connectable indoor units	Total capacity			50 to 130% of O.U. capacity	50 to 130% of O.U. capacity	50 to 130% of O.U. capacity	50 to 130% of O.U. capacity	50 to 130% of O.U. capacity	50 to 130% of O.U. capacity
	Model/Quantity			P15~P250/1~30	P15~P250/1~34	P15~P250/1~39	P15~P250/1~43	P15~P250/2~47	P15~P250/2~50
Ø Ref. piping	Liquid	mm		12.7	15.88	15.88	15.88	15.88	15.88
	Gas	mm		28.58	28.58	28.58	28.58	28.58	28.58
Circulating Water	Flow rate	m³/h		7.20	7.20	7.20	7.20	11.52	11.52
	Operating volume range			4.5~11.6	4.5~11.6	4.5~11.6	4.5~11.6	6.0~14.4	6.0~14.4
	Pressure drop	kPa		44	44	44	44	45	45
	Heat exchanger volume	l		5.0	5.0	5.0	5.0	10.0	10.0
External dimensions		mm		1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550
Net weight		kg		214	214	214	214	243	243
Ref. Charge R410A/CO ₂ Eq		kg/Tons		6.0 / 12.53	6.0 / 12.53	6.0 / 12.53	6.0 / 12.53	11.7 / 24.43	11.7 / 24.43

*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*2 Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*3 Values measured in anechoic chamber.

*4 GWP value of HFC R410A 2088 according to 517 / 2014.

Technical specifications WY LINE

MODEL Double			PQHY-P400YSLM-A1	PQHY-P450YSLM-A1	PQHY-P500YSLM-A1	PQHY-P550YSLM-A1	PQHY-P600YSLM-A1
HP			16	18	20	22	24
Modules			PQHY-P200YLM-A1 PQHY-P200YLM-A1	PQHY-P250YLM-A1 PQHY-P200YLM-A1	PQHY-P250YLM-A1 PQHY-P250YLM-A1	PQHY-P300YLM-A1 PQHY-P250YLM-A1	PQHY-P300YLM-A1 PQHY-P300YLM-A1
Twinning joint			CMY-Y100VBK3				
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3 phase 380-400-415V 50Hz				
Cooling	Capacity* ¹	kW	45.0	50.0	56.0	63.0	69.0
	Power input	kW	7.70	8.78	10.12	11.55	12.84
	SEER		-	-	-	-	-
	Temperature operating field	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Heating	Capacity* ²	kW	50.0	56.0	63.0	69.0	76.5
	Power input	kW	7.94	8.97	10.16	11.31	12.75
	SCOP		-	-	-	-	-
	Temperature operating field	Indoor DB	°C	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level* ³		dB(A)	49	50	51	55	57
Connectable indoor units	Total capacity		50 to 130% of O.U. capacity				
	Model/Quantity		P15~P250/1~34	P15~P250/1~39	P15~P250/1~43	P15~P250/2~47	P15~P250/2~50
Ø Ref. piping	Liquid/Gas	mm	15.88/28.58	15.88/28.58	15.88/28.58	15.88/28.58	15.88/28.58
Circulating Water	Flow rate	m³/h	5.76+5.76	5.76+5.76	5.76+5.76	5.76+5.76	5.76+5.76
	Operating volume range		3+3~7.2+7.2	3+3~7.2+7.2	3+3~7.2+7.2	3+3~7.2+7.2	3+3~7.2+7.2
	Pressure drop	kPa	24+24	24+24	24+24	24+24	24+24
	Heat exchanger volume	l	5.0+5.0	5.0+5.0	5.0+5.0	5.0+5.0	5.0+5.0
External dimentions		mm	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550
Net weight		kg	170+170	170+170	170+170	170+170	170+170
Ref. Charge R410**/CO ₂ Eq		kg/Tons	5.0+5.0/20.88	5.0+5.0/20.88	5.0+5.0/20.88	5.0+5.0/20.88	5.0+5.0/20.88

*¹ Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*² Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*³ Values measured in anechoic chamber.

** GWP value of HFC R410A 2088 according to 517 / 2014.

Technical specifications WY LINE

MODEL Double			PQHY-P700YSLM-A1	PQHY-P750YSLM-A1	PQHY-P800YSLM-A1	PQHY-P850YSLM-A1	PQHY-P900YSLM-A1
HP			28	30	32	34	36
Modules			PQHY-P350YLM-A1 PQHY-P350YLM-A1	PQHY-P400YLM-A1 PQHY-P350YLM-A1	PQHY-P400YLM-A1 PQHY-P400YLM-A1	PQHY-P450YLM-A1 PQHY-P400YLM-A1	PQHY-P450YLM-A1 PQHY-P450YLM-A1
Twinning joint			CMY-Y200VBK2				
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3 phase 380-400-415V 50Hz				
Cooling	Capacity* ¹	kW	80.0	85.0	90.0	96.0	101.0
	Power input	kW	14.73	15.64	16.57	18.03	19.38
	SEER		-	-	-	-	-
	Temperature operating field	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Heating	Capacity* ²	kW	88.0	95.0	100.0	108.0	113.0
	Power input	kW	14.73	15.90	16.75	18.49	19.74
	SCOP		-	-	-	-	-
	Temperature operating field	Indoor DB	°C	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level* ³		dB(A)	55	55	55	56	57
Connectable indoor units	Total capacity		50 to 130% of O.U. capacity				
	Model/Quantity		P15~P250/2~50	P15~P250/2~50	P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Ø Ref. piping	Liquid/Gas	mm	19.05/34.93	19.05/34.93	19.05/34.93	19.05/41.28	19.05/41.28
Circulating Water	Flow Rate	m³/h	7.20+7.20	7.20+7.20	7.20+7.20	7.20+7.20	7.20+7.20
	Operating volume range		4.5+4.5~11.6+11.6	4.5+4.5~11.6+11.6	4.5+4.5~11.6+11.6	4.5+4.5~11.6+11.6	4.5+4.5~11.6+11.6
	Pressure drop	kPa	44+44	44+44	44+44	44+44	44+44
	Heat exchanger volume	l	5.0+5.0	5.0+5.0	5.0+5.0	5.0+5.0	5.0+5.0
External dimentions		mm	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550
Net weight		kg	214+214	214+214	214+214	214+214	214+214
Ref. Charge R410**/CO ₂ Eq		kg/Tons	6.0+6.0/25.06	6.0+6.0/25.06	6.0+6.0/25.06	6.0+6.0/25.06	6.0+6.0/25.06

*¹ Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*² Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*³ Values measured in anechoic chamber.

** GWP value of HFC R410A 2088 according to 517 / 2014.

Technical specifications WR2 LINE

MODEL Single			PQRY-P200YLM-A1	PQRY-P250YLM-A1	PQRY-P300YLM-A1
HP			8	10	12
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3 phase 380-400-415V 50Hz		
Cooling	Capacity*1	kW	22.4	28.0	33.5
	Power input	kW	3.71	4.90	6.04
	SEER		7.91	7.99	7.30
	Temperature operating field	Indoor WB °C	15.0~24.0	15.0~24.0	15.0~24.0
Heating		Water °C	10.0~45.0	10.0~45.0	10.0~45.0
	Capacity*2	kW	25.0	31.5	37.5
	Power input	kW	3.97	5.08	6.25
	SCOP		4.90	4.61	4.55
	Temperature operating field	Indoor DB °C	15.0~27.0	15.0~27.0	15.0~27.0
		Water °C	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level*3		dB(A)	46	48	54
Connectable indoor units	Total capacity		50 to 150% of O.U. capacity	50 to 150% of O.U. capacity	50 to 150% of O.U. capacity
	Model/Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30
Ø Ref. piping	Liquid	mm	15.88	19.05	19.05
	Gas	mm	19.05	22.2	22.2
Circulating Water	Flow Rate	m³/h	5.76	5.76	5.76
	Operating volume range		3.0~7.2	3.0~7.2	3.0~7.2
	Pressure drop	kPa	24	24	24
	Heat exchanger volume	l	5.0	5.0	5.0
External dimensions		mm	1100 x 880 x 550	1100 x 880 x 550	1100 x 880 x 550
Net weight		kg	173	173	173
Ref. Charge R410**/CO ₂ Eq		kg/Tons	5.0/10.44	5.0/10.44	5.0/10.44

*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*2 Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*3 Values measured in anechoic chamber.

*4 GWP value of HFC R410A 2088 according to 517 / 2014.

Technical specifications WR2 LINE

MODEL Single			PQRY-P350YLM-A1	PQRY-P400YLM-A1	PQRY-P450YLM-A1	PQRY-P500YLM-A1	PQRY-P550YLM-A1	PQRY-P600YLM-A1
HP			14	16	18	20	22	24
Power supply	Phases/Voltage/Freq.	V/Hz/n°	3 phase 380-400-415V 50Hz					
Cooling	Capacity*1	kW	40.0	45.0	50.0	56.0	63.0	69.0
	Power input	kW	7.14	8.03	9.29	11.17	12.54	14.49
	SEER		7.34	7.31	6.56	6.25	6.84	6.84
	Temperature operating field	Indoor WB °C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
Heating		Water °C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
	Capacity*2	kW	45.0	50.0	56.0	63.0	69.0	76.5
	Power input	kW	7.53	8.37	9.79	11.43	12.27	14.51
	SCOP		4.29	4.25	4.17	4.04	3.77	3.51
	Temperature operating field	Indoor DB °C	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
		Water °C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level*3		dB(A)	52	52	54	54	56.5	56.5
Connectable indoor units	Total capacity		50 to 150% of O.U. capacity					
	Model/Quantity		P15~P250/1~35	P15~P250/1~40	P15~P250/1~45	P15~P250/1~50	P15~P250/2~50	P15~P250/2~50
Ø Ref. piping	Liquid	mm	22.2	22.2	22.2	22.2	22.2	22.2
	Gas	mm	28.58	28.58	28.58	28.58	28.58	34.93
Circulating Water	Flow Rate	m³/h	7.20	7.20	7.20	7.20	11.52	11.52
	Operating volume range		4.5~11.6	4.5~11.6	4.5~11.6	4.5~11.6	6.0~14.4	6.0~14.4
	Pressure drop	kPa	44	44	44	44	45	45
	Heat exchanger volume	l	5.0	5.0	5.0	5.0	10.0	10.0
External dimensions		mm	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550	1450 x 880 x 550
Net weight		kg	217	217	217	217	247	247
Ref. Charge R410**/CO ₂ Eq		kg/Tons	6.0/12.53	6.0/12.53	6.0/12.53	6.0/12.53	11.7/24.43	11.7/24.43

*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*2 Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*3 Values measured in anechoic chamber.

*4 GWP value of HFC R410A 2088 according to 517 / 2014

Technical specifications WR2 LINE

MODEL Double				PQRY-P400YSLM-A1	PQRY-P450YSLM-A1	PQRY-P500YSLM-A1	PQRY-P550YSLM-A1	PQRY-P600YSLM-A1
HP				16	18	20	22	24
Modules				PQRY-P200YLM-A1 PQRY-P200YLM-A1	PQRY-P250YLM-A1 PQRY-P200YLM-A1	PQRY-P250YLM-A1 PQRY-P250YLM-A1	PQRY-P300YLM-A1 PQRY-P250YLM-A1	PQRY-P300YLM-A1 PQRY-P300YLM-A1
Twinning joint				CMY-Q100VBK				
Power supply	Phases/Voltage/Freq.	V/Hz/n°		3-phase 380-400-415V 50Hz				
Cooling	Capacity* ¹	kW		45.0	50.0	56.0	63.0	69.0
	Power input	kW		7.70	8.78	10.12	11.55	12.84
	SEER			-	-	-	-	-
	Temperature operating field	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Heating	Capacity* ²	kW		50.0	56.0	63.0	69.0	76.5
	Power input	kW		7.94	8.97	10.16	11.31	12.75
	SCOP			-	-	-	-	-
	Temperature operating field	Indoor DB	°C	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level* ³	dB(A)			49	50	51	55	57
Connectable indoor units	Total capacity				50 to 150% of O.U. capacity	50 to 150% of O.U. capacity	50 to 150% of O.U. capacity	50 to 150% of O.U. capacity
	Model/Quantity				P15~P250/1~40	P15~P250/1~45	P15~P250/1~50	P15~P250/2~50
Ø Ref. piping	Liquid/Gas	mm			22.2/28.58	22.2/28.58	22.2/28.58	22.2/34.93
Circulating Water	Flow Rate	m³/h			5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76
	Operating volume range				3+3 ~ 7.2+7.2	3+3 ~ 7.2+7.2	3+3 ~ 7.2+7.2	3+3 ~ 7.2+7.2
	Pressure drop	kPa			24 + 24	24 + 24	24 + 24	24 + 24
	Heat exchanger volume	l			5.0 + 5.0	5.0 + 5.0	5.0 + 5.0	5.0 + 5.0
External dimentions	mm			1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550	1100 x 880 x 550 1100 x 880 x 550
Net weight	kg			173+173	173+173	173+173	173+173	173+173
Ref. Charge R410**/CO ₂ Eq	kg/Tons			5.0+5.0 /20.88	5.0+5.0 /20.88	5.0+5.0 /20.88	5.0+5.0 /20.88	5.0+5.0 /20.88

*¹ Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*² Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*³ Values measured in anechoic chamber.

** GWP value of HFC R410A 2088 according to 517 / 2014

Technical specifications WR2 LINE

MODEL Double				PQRY-P700YSLM-A1	PQRY-P750YSLM-A1	PQRY-P800YSLM-A1	PQRY-P850YSLM-A1	PQRY-P900YSLM-A1
HP				28	30	32	34	36
Modules				PQRY-P350YLM-A1 PQRY-P350YLM-A1	PQRY-P400YLM-A1 PQRY-P350YLM-A1	PQRY-P400YLM-A1 PQRY-P400YLM-A1	PQRY-P450YLM-A1 PQRY-P400YLM-A1	PQRY-P450YLM-A1 PQRY-P450YLM-A1
Twinning joint				CMY-Q100VBK				
Power supply	Phases/Voltage/Freq.	V/Hz/n°		3-phase 380-400-415V 50Hz				
Cooling	Capacity* ¹	kW		80.0	85.0	90.0	96.0	101.0
	Power input	kW		14.73	15.64	16.57	18.03	19.38
	SEER			-	-	-	-	-
	Temperature operating field	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Heating	Capacity* ²	kW		88.0	95.0	100.0	108.0	113.0
	Power input	kW		14.73	15.90	16.75	18.49	19.74
	SCOP			-	-	-	-	-
	Temperature operating field	Indoor DB	°C	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0	15.0~27.0
		Water	°C	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0	10.0~45.0
Sound power level* ³	dB(A)			55	55	55	56	57
Connectable indoor units	Total capacity				50 to 150% of O.U. capacity	50 to 150% of O.U. capacity	50 to 150% of O.U. capacity	50 to 150% of O.U. capacity
	Model/Quantity				P15~P250/2~50	P15~P250/2~50	P15~P250/2~50	P15~P250/2~50
Ø Ref. piping	Liquid/Gas	mm			28.58/34.93	28.58/34.93	28.58/34.93	28.58/41.28
Circulating Water	Flow Rate	m³/h			7.20 + 7.20	7.20 + 7.20	7.20 + 7.20	7.20 + 7.20
	Operating volume range				4.5+4.5 ~ 11.6+11.6	4.5+4.5 ~ 11.6+11.6	4.5+4.5 ~ 11.6+11.6	4.5+4.5 ~ 11.6+11.6
	Pressure drop	kPa			44 + 44	44 + 44	44 + 44	44 + 44
	Heat exchanger volume	l			5.0 + 5.0	5.0 + 5.0	5.0 + 5.0	5.0 + 5.0
External dimentions	mm			1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550	1450 x 880 x 550 1450 x 880 x 550
Net weight	kg			217+217	217+217	217+217	217+217	217+217
Ref. Charge R410**/CO ₂ Eq	kg/Tons			6.0+6.0 /25.06	6.0 + 6.0 /25.06	6.0 + 6.0 /25.06	6.0 + 6.0 /25.06	6.0 + 6.0 /25.06

*¹ Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Water temperature 30°C. Piping length 7.5 m, vertical difference 0 m.

*² Nominal heating conditions: Indoor 20°C DB. Water temperature 20°C. Piping length 7.5 m, vertical difference 0 m.

*³ Values measured in anechoic chamber.

** GWP value of HFC R410A 2088 according to 517 / 2014



BC CONTROLLERS FOR R2 LINES

CMB-M V-J1/V-JA1/V-KB1, CMB-P V-KA1



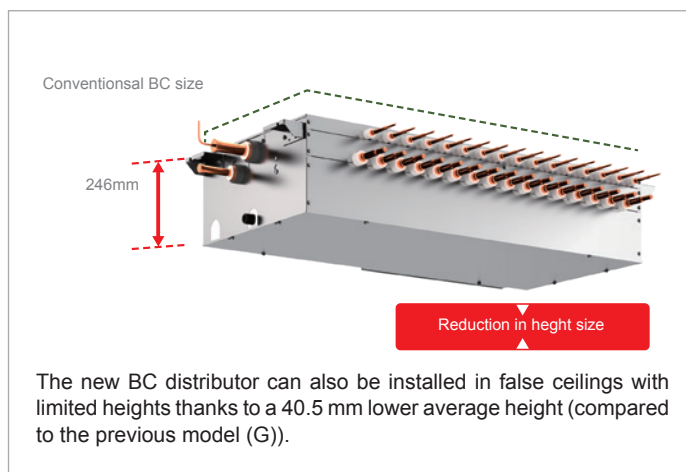
BC Distributors

The new BC distributor of the CMB-P(M)-V-J(1) series effectively distributes the refrigerant depending on the operating mode of the indoor units (heating or cooling). It contains the highly efficient gas/liquid separator developed by Mitsubishi Electric and carefully separates the gas for heating from the cooling liquid. For a greater height difference and an increase in the maximum pipe length, it uses a subcooling heat exchanger that further chills the coolant destined for the indoor units in cooling mode.

New BC controller

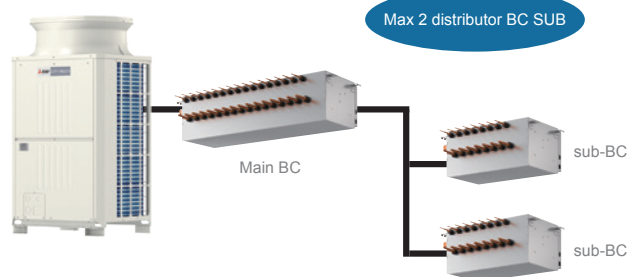
Increased number of connections (for systems with BC SUB distributor) and increase of geometric limits. In the R2 heat recovery systems of the new YNW-A1 line it is possible to connect up to 11 BC SUB distributors to the BC MAIN distributor thus allowing greater configuration flexibility. The adoption of the new architecture allows a reduction of the refrigerant charge adopted in the system.

Reduced height

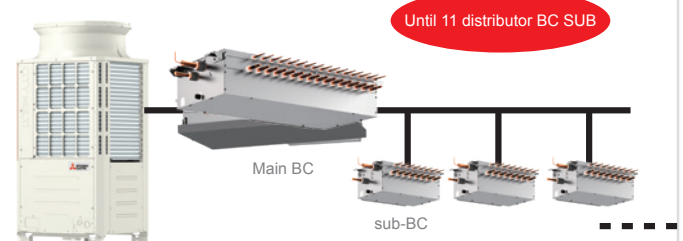


SYSTEM LAYOUT R2

PREVIOUS MODEL (G)



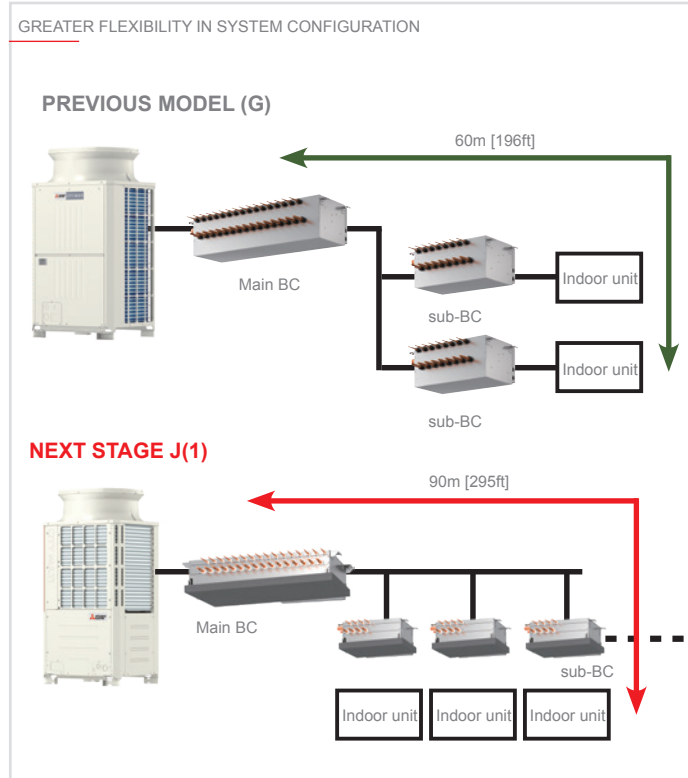
NEXT STAGE J (1)



Greater flexibility in system configuration

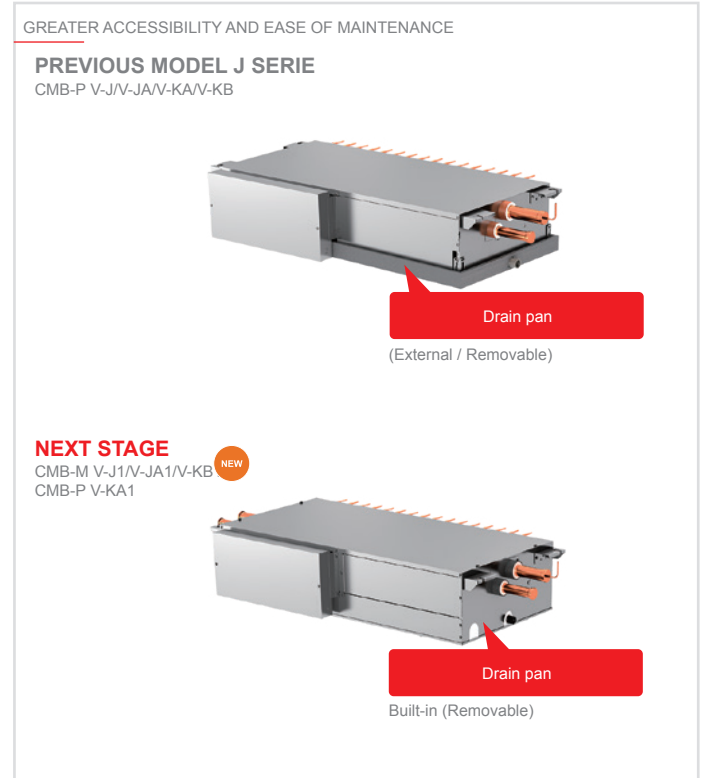
The maximum length of the refrigeration line between the BC MAIN distributor unit and the indoor unit has been increased to 90 metres* (compared to 60 metres for the previous model) for greater flexibility of system design.

*If the indoor unit is connected to an SUB BC Controller unit



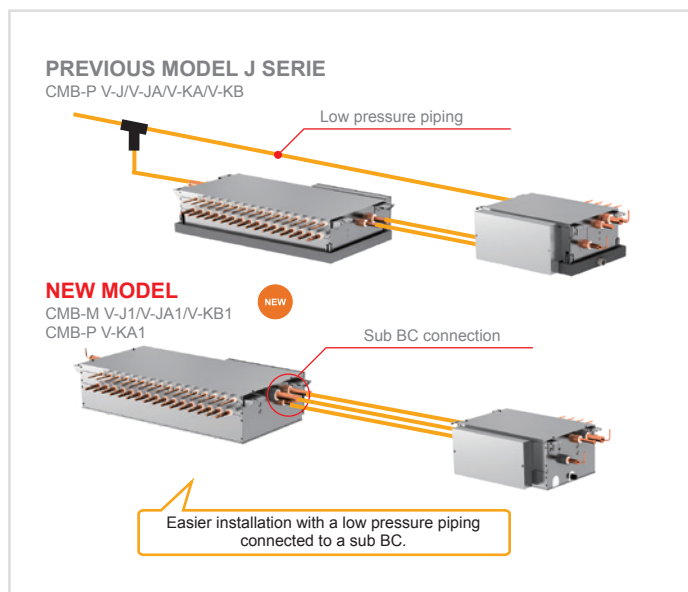
Greater accessibility and ease of maintenance

In the previous model, the drainage panel was on the lower side of the distributor. In the new model it is instead installed on the lower side of the structure, making it easy to remove from the lower part for maintenance access.



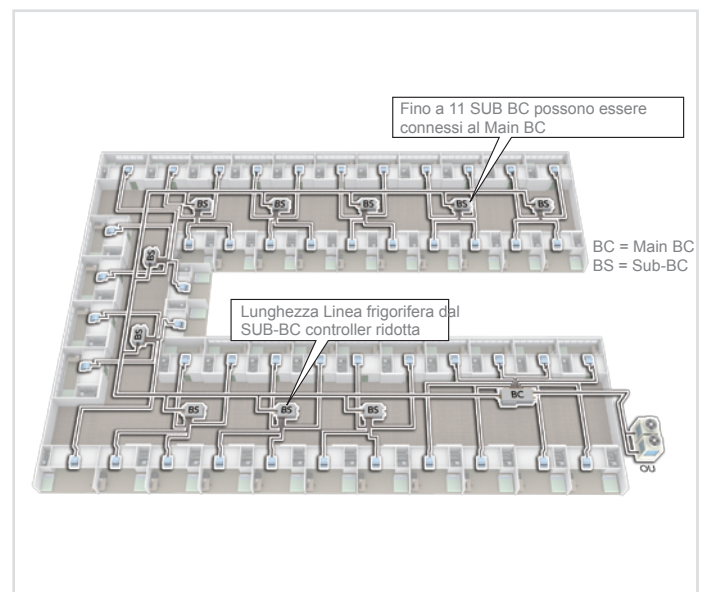
Sub-BC controller connections increased

Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design. The line-branching method enables the creation of system designs that use less refrigerant.



The line-branching method with a main BC controller and sub-BC controllers

The sub-BC controller can be installed near the indoor units, so the branch piping can be greatly reduced. This also reduces the length of system piping, enabling using less refrigerant design.



Technical specifications

MODEL Single				CMB-M104V-J1	CMB-M106V-J1	CMB-M108V-J1	CMB-M1012V-J1	CMB-M1016V-J1			
Number of branch				4	6	8	12	16			
Power source				1-phase 220-230-240 V							
Power input	kW	50Hz	Cooling	0.067/0.076/0.085	0.097/0.110/0.123	0.127/0.144/0.161	0.186/0.211/0.236	0.246/0.279/0.312			
			Heating	0.030/0.034/0.038	0.045/0.051/0.057	0.060/0.068/0.076	0.090/0.102/0.114	0.119/0.135/0.151			
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)							
Connectable outdoor/heat source unit capacity				P200 to P350							
Height	mm			250	250	250	252	252			
Width	mm			596	596	596	911	1,135			
Depth	mm			476	476	476	622	622			
Refrigerant piping diameter	To outdoor/heat source unit			Connectable unit capacity							
				P200		P250/P300		P350			
				15.88 (5/8) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed or 22.2 (7/8) Brazed			
	To indoor unit			19.05 (3/4) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed			
				Liquid pipe			Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed				
				Gas pipe			Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2(7/8) with optional joint pipe used.)				
Drain pipe		mm (in.)		O.D. 32 (1-1/4)	O.D. 32 (1-1/4)	O.D. 32 (1-1/4)	O.D. 32 (1-1/4)	O.D. 32 (1-1/4)			
Net weight		kg (lbs)		26 (58)	29 (64)	33 (73)	49 (109)	59 (131)			

Technical specifications

MODEL Main				CMB-M108V-JA1			CMB-M1012V-JA1			CMB-M1016V-JA1			
Number of branch				8			12			16			
Power source				1-phase 220-230-240 V									
Power input		kW	50Hz	Cooling	0.127/0.144/0.161		0.186/0.211/0.236		0.246/0.279/0.312				
				Heating	0.060/0.068/0.076		0.090/0.102/0.114		0.119/0.135/0.151				
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)									
Connectable outdoor/heat source unit capacity				P200 to P900									
Height		mm		252			252			252			
Width		mm		911			1,135			1,135			
Depth		mm		622			622			622			
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity										
			P200	P250/P300	P350	P400 to P500	P550	P600	P650	P700 to P800	P850 to P900		
			15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed	
	Low press. pipe		19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed or 34.93 (1-3/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed		
			To indoor unit		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed								
					Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)								
	To other BC controller		Total down-stream Indoor unit capacity										
			to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above		
	High press. pipe		15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed		
			19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed		
Liquid pipe		9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed			
Drain pipe		mm (in.)		O.D. 32 (1-1/4)			O.D. 32 (1-1/4)			O.D. 32 (1-1/4)			
Net weight		kg (lbs)		48 (106)			60 (133)			68 (150)			

★ Combination chart of BC Controller for R2 series (YNW)

	P200-P350	P400-P900	P950-P1100
CMB-M V-J1	•	N/A	N/A
CMB-M V-JA1	•	•	N/A
CMB-P V-KA1	•	•	•
CMB-M V-KB1 (Sub)	CMB-M108/1012/1016V-JA1, CMB-P1016V-KA1		

Technical specifications

MODEL Main				CMB-P1016V-KA1							
Number of branch				16							
Power source				1-phase 220-230-240 V							
Power input	kW	50Hz	Cooling	0.246/0.279/0.312							
			Heating	0.119/0.135/0.151							
Indoor unit capacity connectable to 1 branch				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)							
The maximum number of connectable Sub BC controllers				-							
The maximum connectable capacity of indoor units				-							
Connectable outdoor/heat source unit capacity				P200 to P1100							
Connectable Main BC controller				-							
Height		mm		250							
Width		mm		1,135							
Depth		mm		622							
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity									
		P200	P250/P300	P350	P400 to P500	P550	P600	P650	P700 to P800	P850 to P1000	
		15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
	To indoor unit	Liquid pipe	Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed								
			Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)								
		To other BC controller	Total down-stream Indoor unit capacity								
	to P200		P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above	
	15.88 (5/8) Brazed		19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
	19.05 (3/4) Brazed		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed	
	9.52 (3/8) Brazed		9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	
Drain pipe		mm (in.)		O.D. 32 (1-1/4)							
Net weight		kg (lbs)		69 (153)							

Technical specifications

MODEL Sub				CMB-M104V-KB1									
Number of branch				4									
Power source				1-phase 220-230-240 V									
Power input	kW	50Hz	Cooling	0.060/0.068/0.076									
			Heating	0.030/0.034/0.038									
The maximum number of connectable Sub BC controllers				11									
The maximum connectable capacity of indoor units				P350 for each									
Connectable Main BC controller				CMB-M108/1012/1016V-JA1, CMB-P1016V-KA1									
Height		mm		250									
Width		mm		596									
Depth		mm		476									
Refrigerant piping diameter	To outdoor/heat source unit			-									
				-									
	High press. pipe			-									
	Low press. pipe			-									
	To indoor unit	Liquid pipe		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed									
		Gas pipe		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)									
	To other BC controller			Total down-stream Indoor unit capacity									
				to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above	
	High press. pipe			15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
	Low press. pipe			19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed	41.28(1-5/8) Brazed	
Liquid pipe			9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed		
Drain pipe		mm (in.)		O.D. 32 (1-1/4)									
Net weight		kg (lbs)		23 (51)									

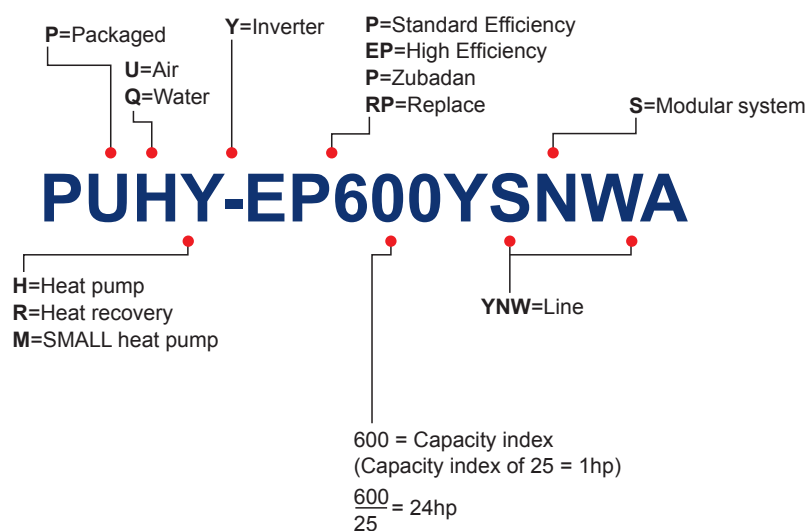
Technical specifications

MODEL Sub				CMB-M108V-KB1										
Number of branch				8										
Power source				1-phase 220-230-240 V										
Power input	kW	50Hz	Cooling	0.119/0.135/0.151										
			Heating	0.060/0.068/0.076										
The maximum number of connectable Sub BC controllers				11										
The maximum connectable capacity of indoor units				P350 for each										
Connectable Main BC controller				CMB-M108/1012/1016V-JA1, CMB-P1016V-KA1										
Height		mm		246										
Width		mm		596										
Depth		mm		495										
Refrigerant piping diameter	To outdoor/heat source unit			-										
	High press. pipe			-										
	Low press. pipe			-										
	To indoor unit	Liquid pipe			Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed									
		Gas pipe			Gas pipe Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed(19.05 (3/4) with optional joint pipe used.)									
	To other BC controller			Total down-stream Indoor unit capacity										
				to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above		
	High press. pipe			15.88	19.05	19.05	22.2	22.2	28.58	28.58	28.58	34.93		
	Low press. pipe			19.05	22.2	28.58	28.58	28.58	28.58	34.93	41.28	41.28		
	Liquid pipe			9.52	9.52	12.7	12.7	15.88	15.88	19.05	19.05	19.05		
Drain pipe		mm (in.)		O.D. 32 (1-1/4)										
Net weight		kg (lbs)		31 (69)										

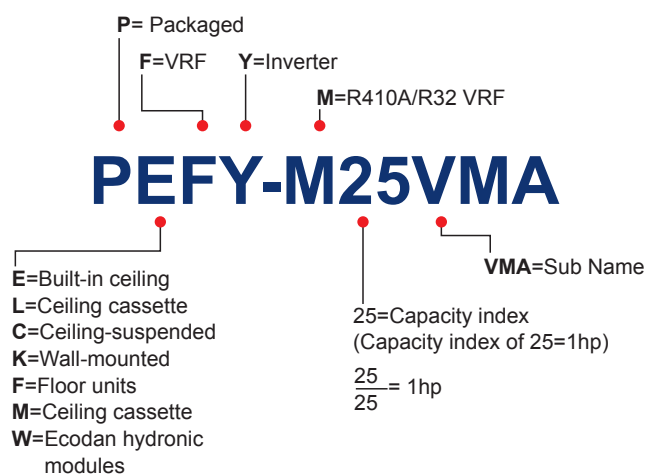


Model code

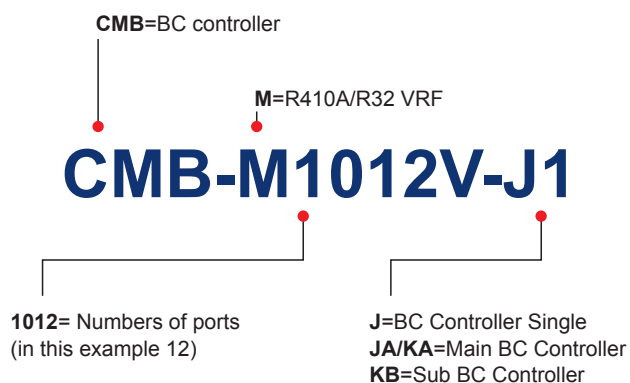
CITY MULTI outdoor units



CITY MULTI indoor units

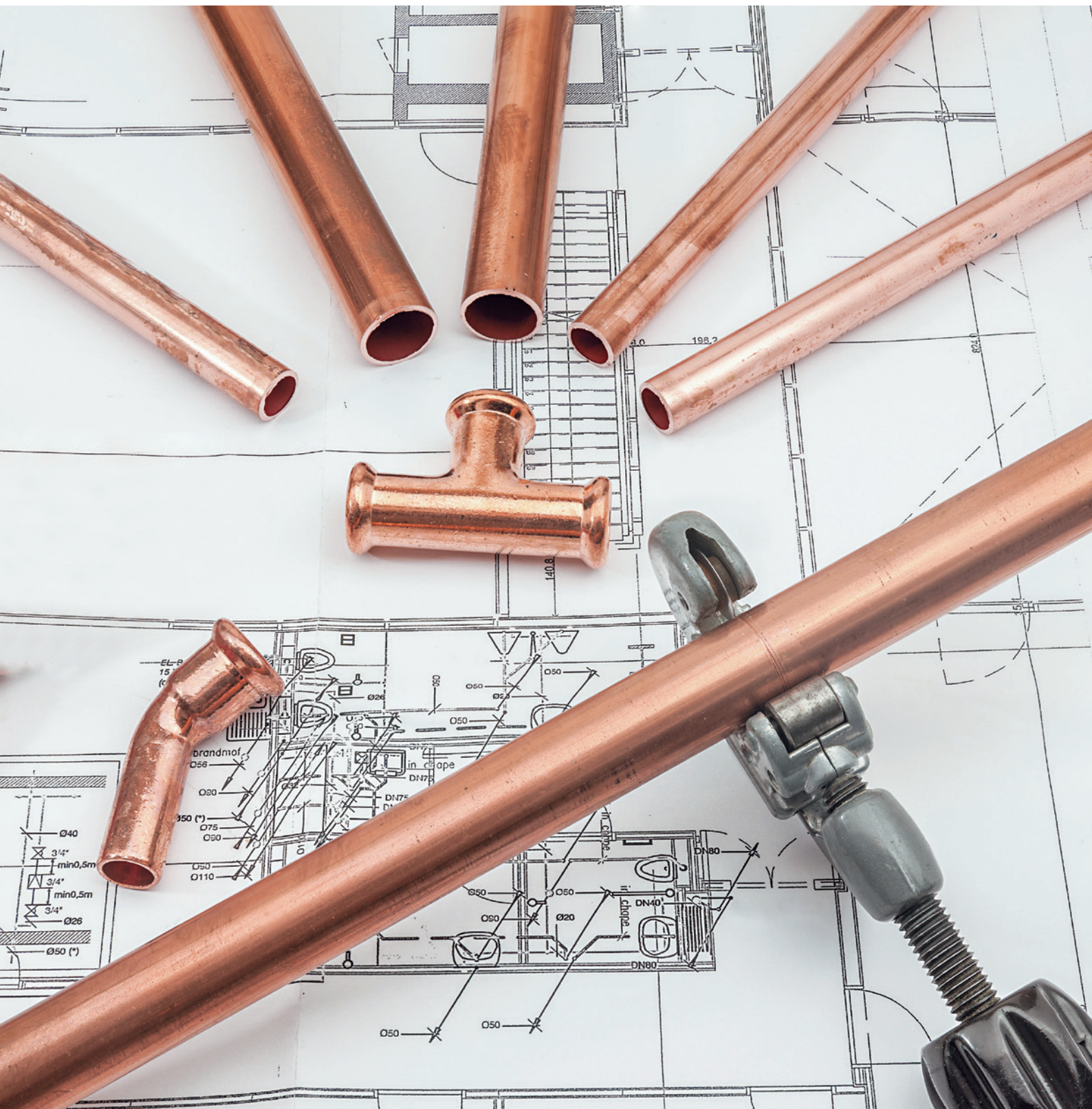


BC Controller





Refrigerant piping lenght

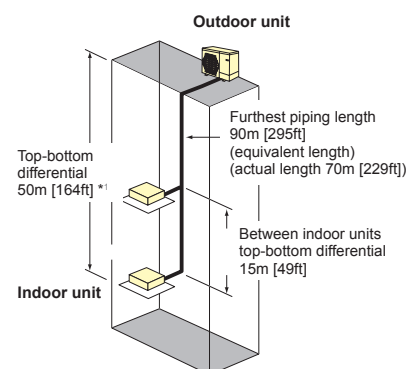


PUMY-SM112~140 Y(V)KM2

SMALL Y COMPACT LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	120 m max.
Effective length of a single circuit	70 m (90 m equivalent) max.
Effective length after first branch	50 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.

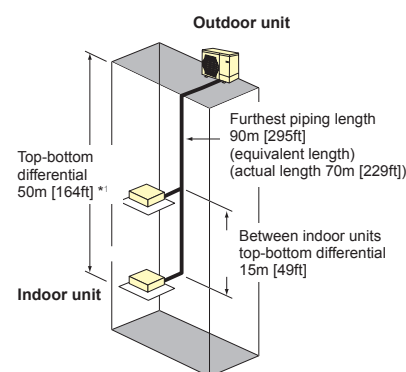


PUMY-SP112~140 Y(V)KM2

SMALL Y COMPACT LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	120 m max.
Effective length of a single circuit	70 m (90 m equivalent) max.
Effective length after first branch	50 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	30 m max.
Indoor/Indoor	15 m max.

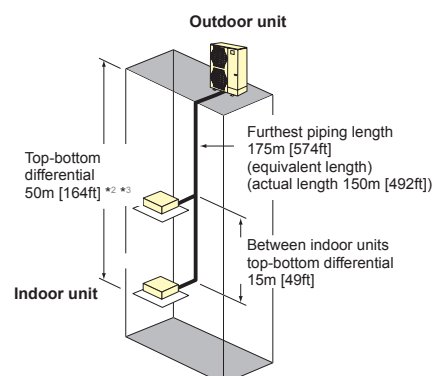


PUMY-P112~140 Y(V)KM5(6)

SMALL Y LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	300 m max.
Effective length of a single circuit	150 m (175 m equivalent) max.
Effective length after first branch	30 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.

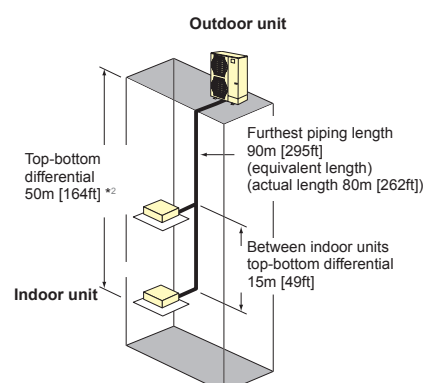


PUMY-P200 YKM3

SMALL Y (HIGH CAPACITY) LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	150 m max.
Effective length of a single circuit	80 m (90 m equivalent) max.
Effective length after first branch	30 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.



Indicative values only – See technical handbook for installation details.

*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 30m [98ft].

*2 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

*3 30m [98ft] or less if PKFY-P10/15/20/25/32/VLM, PFFY-P*VKM, PFFY-P*VCM, PFFY-P*VL* type of indoor units are included.

PUMY-P250/300 YBM2

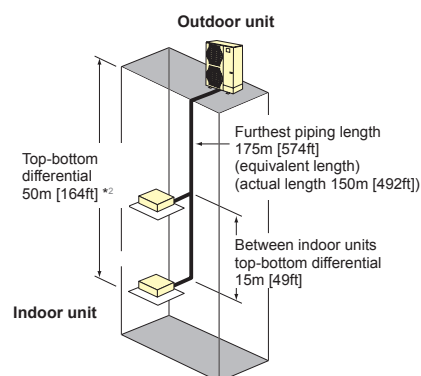
SMALL Y (HIGH CAPACITY) LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	310 m max.
Effective length of a single circuit	150 m (175 m equivalent) max.
Effective length after first branch	30 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.

Indicative values only – See technical handbook for installation details.

*2 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].



PUHY-P200-1350Y(S)NW-A2

PUHY-EP200-1350Y(S)NW-A2

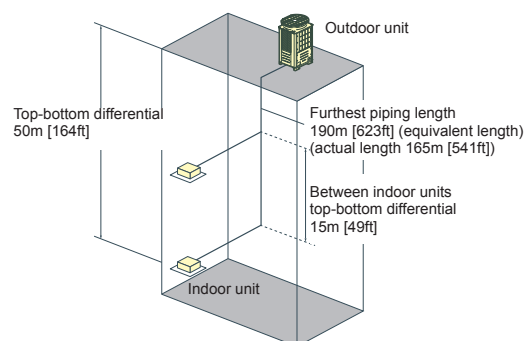
Y NEXT STAGE LINE

Y NEXT STAGE HIGH EFFICIENCY LINE

GEOMETRIC PIPING LIMITATIONS WITH ONE OR MORE BC CONTROLLERS	
Total effective length	1000 m max.
Effective length of a single circuit	165 m max.
Equivalent length of a single circuit	190 m max.
Effective length after first branch	90 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	30 m max.

Indicative values only – See technical handbook for installation details.



PUHY-HP200-500Y(S)NW-A

Y ZUBADAN LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	1000 m max.
Effective length of a single circuit	165 m (190 m equivalent) max.
Effective length after first branch	40 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.

Indicative values only – See technical handbook for installation details.

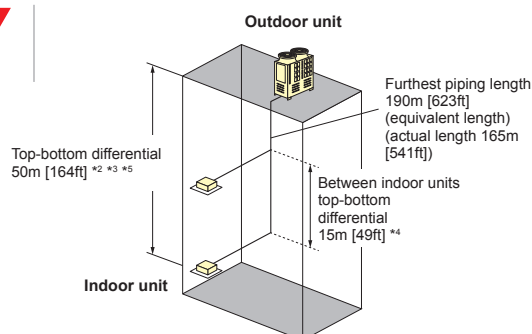
*1 90m is available. When the piping length exceeds 40m, use one size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.

*2 90m is available depending on installation conditions. For more detailed information, contact your local distributor.

*3 60m is available depending on installation conditions. For more detailed information, contact your local distributor.

*4 30m is available. If the height difference between indoor units exceeds 15m (but does not exceed 30m), use one size larger pipes for indoor unit liquid pipes.

*5 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m.



PURY-P200-1100Y(S)NW-A2

PURY-EP200-1100Y(S)NW-A2

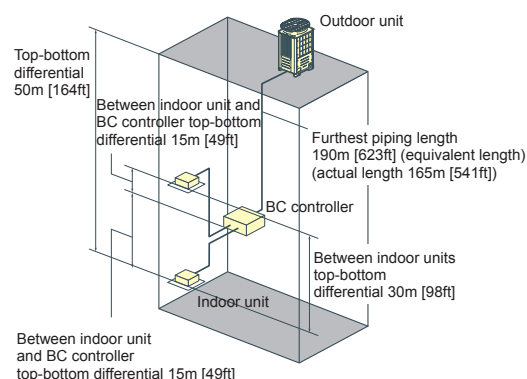
R2 NEXT STAGE LINE

R2 NEXT STAGE HIGH EFFICIENCY LINE

GEOMETRIC PIPING LIMITATIONS WITH ONE OR MORE BC CONTROLLERS	
Total effective length	500-1000 m max.
Effective length of a single circuit	165 m max.
Equivalent length of a single circuit	190 m max.
Effective length between outdoor unit and BC controller	110 m max.
Effective length between BC controller and indoor unit	60 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/BC Controller	15 m max.
Indoor/Indoor	30 m max.
Effective length between outdoor unit and BC controller	15 m max.

Indicative values only – See technical handbook for installation details.



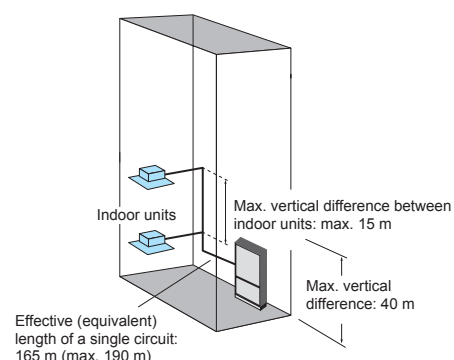
PQHY-P200-900Y(S)LM-A1

WY LINE

GEOMETRIC LIMITS OF REFRIGERATION PIPELINES	
Total effective length	300-500 m max.
Effective length of a single circuit	165 m max.
Equivalent length of a single circuit	190 m max.
Effective length after first branch	40 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/Indoor	15 m max.

Indicative values only – See technical handbook for installation details.
 *500 m max per PQHY-P350-600YLM



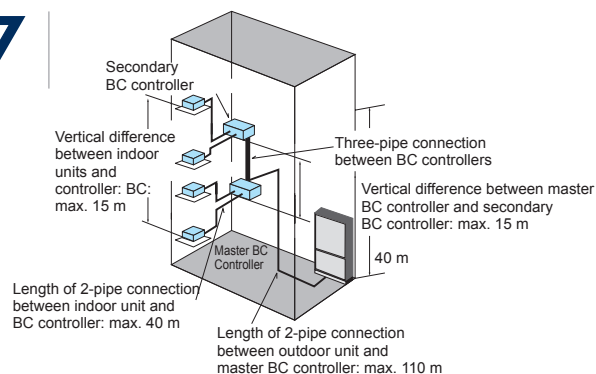
PQRY-P200~900Y(S)LM-A1

WR2 LINE

GEOMETRIC PIPING LIMITATIONS WITH ONE OR MORE BC CONTROLLERS	
Total effective length	300-750 m max.
Effective length of a single circuit	165 m max.
Equivalent length of a single circuit	190 m max.
Effective length between outdoor unit and BC controller	110 m max.
Effective length between BC controller and indoor unit	40-60 m max.

VERTICAL DIFFERENCE BETWEEN UNITS	
Indoor/outdoor (outdoor unit in higher position)	50 m max.
Indoor/outdoor (indoor unit in higher position)	40 m max.
Indoor/BC Controller	15 m max.
Indoor/Indoor	30 m max.
BC Controller and SUB BC Controller	15 m max.

Indicative values only – See technical handbook for installation details.



VRF Systems

Indoor units

Ceiling cassette

PLFY-MS VFM-E 4-way cassette 600x600	NEW	114
PLFY-P VFM-E1 4-way cassette 600x600		116
PLFY-MS VEM-E 4 way cassette 900x900	NEW	118
PLFY-M VEM6-E 4 way cassette 900x900		122
PLFY-P VLMD-E 2 way cassette		128
PMFY-P VBM-E 1 way cassette		132

Ceiling concealed

PEFY-P VMS1-E Medium to low static pressure		134
PEFY-MS VMA-A Medium to high static pressure	NEW	136
PEFY-M VMA-A1 Medium to high static pressure		138
PEFY-P VMHS-E High static pressure		142
PEFY-P VMHS-E High static pressure		144

Ceiling suspended

PCFY-P VKM-E	146
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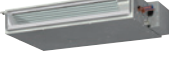
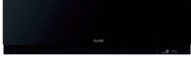
Wall mounted

PKFY-P VLM-E	148
PKFY-P VKM-E	150
PAC-LV11-E Wall mounted design indoor unit LEV-KIT	152



Floor standing

PFFY-P VKM-E Design unit	154
PFFY-P VEM-E Freestanding	NEW 156
PFFY-P VCM-E Concealed type	160

Type		Model		P10	P15	P20	P25	P32	
				1.2 kW ¹	1.7 kW ¹	2.2 kW ¹	2.8 kW ¹	3.6 kW ¹	
Ceiling cassette	4 way flow	PLFY-MS VFM-E	 NEW		•	•	•	•	
		PLFY-P VFM-E1			•	•	•	•	
		PLFY-MS VEM-E	 NEW			•	•	•	
		PLFY-M VEM6-E				•	•	•	
	2 way cassette	PLFY-P VLMD-E				•	•	•	
	1 way cassette	PMFY-P VBM-E				•	•	•	
Ceiling concealed indoor units	Middle-high static pressure	PEFY-P VMS1-E			•	•	•	•	
	Middle-high static pressure	PEFY-MS VMA-A	 NEW			•	•	•	
	Middle-high static pressure	PEFY-M VMA-A1				•	•	•	
	High static pressure	PEFY-P VMHS-E							
	High static pressure	PEFY-P VMHS-E							
Ceiling Suspended indoor units		PCFY-P VKM-E							
Wall mounted indoor units		PKFY-P VLM		•	•	•	•	•	
		PKFY-P VKM							
	Wall mounted design with LEV-KIT	LEV KIT MSZ-EF			•	•	•	•	
		LEV KIT MSZ-LN					•	•	
Floor standing indoor units		PFFY-P VKM-E				•	•	•	
		PFFY-P VEM-E	 NEW			•	•	•	
	Concealed type	PFFY-P VCM-E				•	•	•	

¹Nominal cooling capacity

	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	4.5 kW ¹	5.6 kW ¹	7.1 kW ¹	8.0 kW ¹	9.0 kW ¹	11.2 kW ¹	14.0 kW ¹	16.0 kW ¹	22.4 kW ¹	28.0 kW ¹
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