

# Air Conditioning

## Product Information

**Y Series Standard (22-45kW)**  
Heat Pump Outdoor Unit (Heating or Cooling)

Making a  
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CITY MULTI

**NEXT**  
GENERATION VRF



VRF 2 pipe technology and efficiency providing a simple and flexible solution where there is a demand for a changeover capability between heating and cooling for all indoor units, helping to ensure a constant and comfortable indoor climate.

### Key Features

- Effective, efficient solution meeting all the market needs
- Delivers the highest levels of comfort, both thermally and acoustically
- Cost effective delivery



Cooling | Heating | Ventilation | Controls

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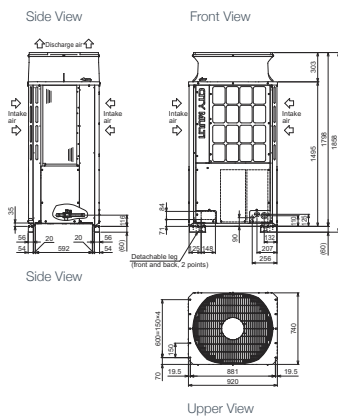


OUTDOOR UNITS		PUHY-P200YNW-A	PUHY-P250YNW-A	PUHY-P300YNW-A	PUHY-P350YNW-A	PUHY-P400YNW-A	PUHY-P400YSNW-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)	21.4	26.7	32.0	38.2	42.5	42.9
POWER INPUT (kW)	Heating (nominal)	4.58	6.04	7.86	10.51	13.40	9.45
	Cooling (nominal)	4.24	5.78	7.66	9.87	11.47	8.77
	High Performance Heating (UK)	5.77	7.61	10.45	13.98	15.14	12.10
	COP Priority Heating (UK)	4.58	6.04	7.86	10.51	13.00	9.45
	Cooling (UK)	2.46	3.35	4.44	5.72	7.34	5.09
COP / EER (nominal)		5.45 / 5.28	5.21 / 4.84	4.77 / 4.37	4.28 / 4.05	3.73 / 3.92	5.29 / 5.13
SCOP / SEER (system)*1		4.70 / 8.44	4.42 / 8.47	4.24 / 8.00	3.97 / 7.72	3.77 / 7.75	- / -
MAX No. OF CONNECTABLE INDOOR UNITS		17	21	26	30	34	34
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High	170	185	240	270	300	170 / 170
	Low	170	185	240	270	300	170 / 170
PIPE SIZE mm (in)	Gas	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	9.52 (3/8")	9.52 (3/8")*1	9.52 (3/8")*1	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
SOUND PRESSURE LEVEL (dBA)		59.0	61.0	64.5	64.0	67.0	62.0
SOUND POWER LEVEL (dBA)		78.0	80.0	83.5	83.0	86.0	81.0
WEIGHT (kg)		225	225	228	278	278	225 + 225
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920
	Depth	740	740	740	740	740	740
	Height	1858	1858	1858	1858	1858	1858
(1650mm without legs)							
ELECTRICAL SUPPLY*2		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE*2		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2 Heating / Cooling [MAX]		7.0 / 6.5 [16.1]	9.3 / 8.9 [17.8]	12.1 / 11.8 [22.7]	16.2 / 15.2 [26.4]	20.7 / 17.7 [31.9]	14.6 / 13.5 [16.1]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2		1 x 20	1 x 20	1 x 25	1 x 32	1 x 32	1 x 20 / 1 x 20
MAINS CABLE No. Cores*2		4	4	4	4	4	4 / 4
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	9.8 / 20.5	9.8 / 20.5	13 / 27.1
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		15.9 / 33.2	22.9 / 47.8	23.4 / 48.9	24 / 50.1	24.4 / 51.0	32 / 66.8

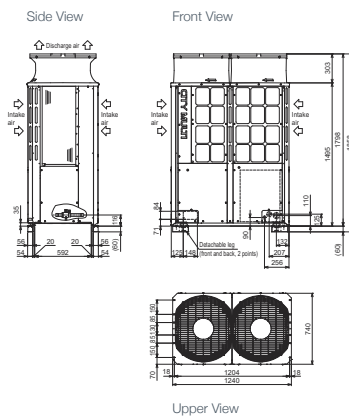
Note: ERP Lot 6 calculation method to EN14825. \*1 12.7mm(1/2") if P250 furthest length ≥ 90m, P300 furthest length ≥ 40m. \*2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

### PRODUCT DIMENSIONS

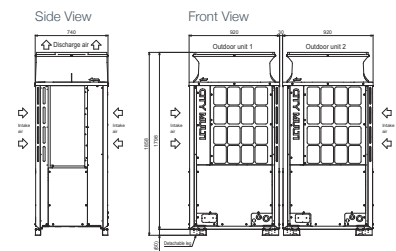
#### PUHY-P200/250/300YNW-A



#### PUHY-P350/400YNW-A



#### PUHY-P400YSNW-A



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).



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Effective as of November 2017

# Air Conditioning

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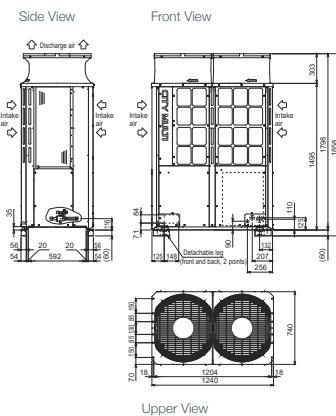


OUTDOOR UNITS		PUHY-P450YNW-A	PUHY-P450YSNW-A	PUHY-P500YNW-A	PUHY-P500YSNW-A	PUHY-P550YSNW-A
CAPACITY (kW)	Heating (nominal)	56.0	56.0	63.0	63.0	69.0
	Cooling (nominal)	50.0	50.0	56.0	56.0	63.0
	High Performance Heating (UK)	50.4	56.0	56.7	63.0	65.6
	COP Priority Heating (UK)	48.2	51.0	54.2	57.3	62.8
	Cooling (UK)	47.2	47.7	52.8	53.4	60.1
POWER INPUT (kW)	Heating (nominal)	13.42	10.85	14.61	12.45	14.26
	Cooling (nominal)	12.22	10.22	12.52	11.91	14.15
	High Performance Heating (UK)	15.16	13.89	16.51	15.94	18.97
	COP Priority Heating (UK)	13.02	10.85	14.17	12.45	14.26
	Cooling (UK)	7.82	5.93	8.01	6.91	8.21
COP / EER (nominal)		4.17 / 4.09	5.16 / 4.89	4.31 / 4.47	5.06 / 4.70	4.83 / 4.45
SCOP / SEER		3.68 / 7.86	- / -	3.69 / 7.66	- / -	- / -
MAX No. OF CONNECTABLE INDOOR UNITS		39	39	43	43	47
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High	305	170 / 185	365	185 / 185	185 / 240
	Low	285	170 / 185	365	185 / 185	185 / 240
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
SOUND PRESSURE LEVEL (dBA)		69.5	63.0	66.5	64.0	66.0
SOUND POWER LEVEL (dBA)		88.5	82.0	85.5	83.0	85.0
WEIGHT (kg)		294	225 + 225	337	225 + 225	225 + 228
DIMENSIONS (mm)	Width	1240	920 + 920	1750	920 + 920	920 + 920
	Depth	740	740	740	740	740
	Height	1858	1858	1858	1858	1858
(1798mm without legs)						
ELECTRICAL SUPPLY*1		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE*1		Three	Three	Three	Three	Three
STARTING CURRENT (A)*1		8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating/Cooling [MAX]		20.7 / 18.8 [37.1]	16.7 / 15.7 [16.1 + 17.8]	22.5 / 19.3 [43.7]	19.2 / 18.4 [17.8 + 17.8]	22.0 / 21.8 [17.8 + 22.7]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20/-15.5 / -5/-52	-20/-15.5 / -5/-52	-20/-15.5 / -5/-52	-20/-15.5 / -5/-52	-20/-15.5 / -5/-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1		1 x 40	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 20 / 1 x 25
MAINS CABLE No. Cores*1		4	4 / 4	4	4 / 4	4 / 4
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		10.8 / 22.6	13 / 27.1	10.8 / 22.6	13 / 27.1	13 / 27.1
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		32.2 / 67.2	32 / 66.8	33.1 / 69.1	32.9 / 68.7	34.7 / 72.5

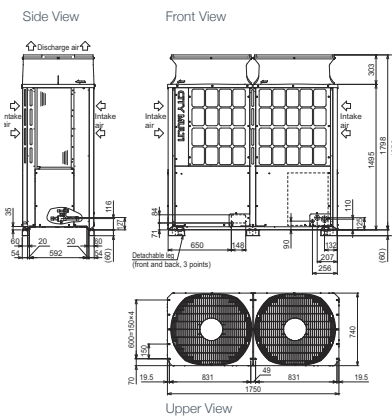
Note: ErP Lot 6 calculation method to EN14825. \*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

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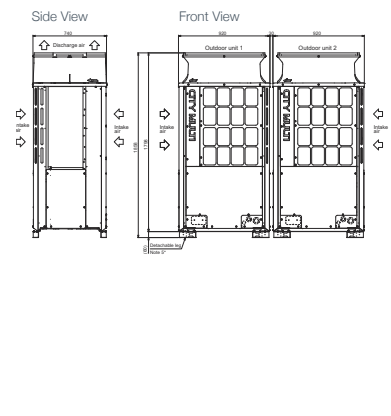
#### PUHY-P450YNW-A



#### PUHY-P500YNW-A



#### PUHY-P450/500/550YSNW-A



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Effective as of November 2017

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OUTDOOR UNITS		PUHY-P600YSNW-A	PUHY-P650YSNW-A	PUHY-P700YSNW-A	PUHY-P750YSNW-A	PUHY-P800YSNW-A	PUHY-P850YSNW-A
CAPACITY (kW)	Heating (nominal)	76.5	81.5	88.0	95.0	100	108
	Cooling (nominal)	69.0	73.0	80.0	85.0	90.0	96.0
	High Performance Heating (UK)	72.7	77.4	83.6	90.3	95.0	97.2
	COP Priority Heating (UK)	69.6	74.2	80.1	86.5	91.0	92.9
	Cooling (UK)	65.8	69.6	76.3	81.1	85.9	90.6
POWER INPUT (kW)	Heating (nominal)	16.52	19.53	21.15	24.54	24.39	28.05
	Cooling (nominal)	16.26	17.59	20.35	21.99	22.76	24.66
	High Performance Heating (UK)	21.97	25.97	28.13	32.64	32.44	31.70
	COP Priority Heating (UK)	16.52	19.53	21.15	24.54	24.39	27.21
	Cooling (UK)	9.43	10.20	11.80	12.75	13.20	15.78
COP / EER (nominal)	4.63 / 4.24	4.17 / 4.15	4.16 / 3.93	3.87 / 3.87	4.10 / 3.95	3.85 / 3.89	
SCOP / SEER	- / -	- / -	- / -	- / -	- / -	- / -	- / -
MAX No. OF CONNECTABLE INDOOR UNITS		50	50	50	50	50	50
MAX CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m³/min)	High	240 / 240	185 / 300	270 / 270	270 / 300	270 / 305	300 / 305
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		67.5	68.0	67.0	68.5	71.0	71.5
SOUND POWER LEVEL (dBA)		86.5	87.0	86.0	88.0	89.5	90.5
WEIGHT (kg)		228 + 228	225 + 278	278 + 278	278 + 278	278 + 294	278 + 294
DIMENSIONS (mm)	Width	950 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth	740	740	740	740	740	740
	Height	1858	1858	1858	1858	1858	1858
(1798mm without legs)							
ELECTRICAL SUPPLY*1		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE*1		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1	Heating / Cooling [MAX]	25.5 / 25.1 [22.7 + 22.7]	30.1 / 27.1 [17.8 + 31.9]	32.6 / 31.4 [26.4 + 26.4]	37.9 / 33.9 [26.4 + 31.9]	37.7 / 35.1 [26.4 + 37.1]	43.3 / 38.1 [31.9 + 37.1]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~-52	-20~15.5 / -5~-52	-20~15.5 / -5~-52	-20~15.5 / -5~-52	-20~15.5 / -5~-52	-20~15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1		1 x 25 / 1 x 25	1 x 20 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 32 / 1 x 40
MAINS CABLE No. Cores*1		4 / 4	4 / 4	4 / 4	4 / 4	4 / 4	4 / 4
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		13 / 27.1	16.3 / 34.0	19.6 / 40.9	19.6 / 40.9	20.6 / 43.0	20.6 / 43.0
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R410A (GWP 2088)		34.7 / 72.5	35.2 / 73.5	44.8 / 93.5	44.8 / 93.5	44.7 / 93.3	46.5 / 97.1

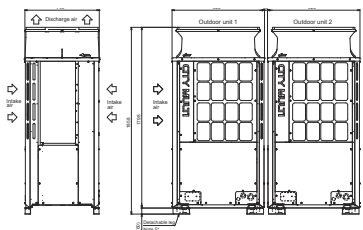
Note: ErP Lot 6 calculation method to EN14825. \*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

## PRODUCT DIMENSIONS

### PUHY-P600YSNW-A

Side View

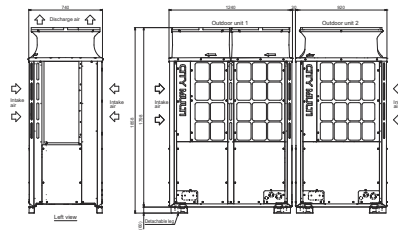
Front View



### PUHY-P650YSNW-A

Side View

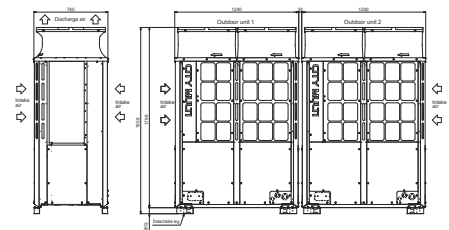
Front View



### PUHY-P700/750/800/850YSNW-A

Side View

Front View



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[mitsubishielectric2](https://www.youtube.com/mitsubishielectric2)

[thehub.mitsubishielectric.co.uk](http://thehub.mitsubishielectric.co.uk)

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