

Y Series VRF

Standard Efficiency (22-45kW)

Heat Pump Outdoor Unit (Heating or Cooling)

CITY MULTI

City Multi **Y Series VRF** Heat Pump technology provides a simple and flexible solution where there is demand for one outdoor unit to provide all or selected indoor units with heating or cooling at a given time.

These modular Heat Pump systems provide complete design flexibility for applications such as open-plan offices, call centres and retail spaces.



Key Features & Benefits:

- Energy efficient Heat Pump system
- Delivers high levels of thermal and acoustic comfort
- 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application
- Connectable to a broad choice of indoor unit types and capacities



Air Conditioning Product Information

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



OUTDOOR UNITS		PUHY-P200YNW-A2	PUHY-P250YNW-A2	PUHY-P300YNW-A2	PUHY-P350YNW-A2	PUHY-P400YNW-A2	PUHY-P400YSNW-A2
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	44.8
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)	20.0	25.1	30.0	35.8	40.3	40.1
POWER INPUT (kW)	Heating (nominal)	6.08	8.49	10.30	12.32	14.20	12.16
	Cooling (nominal)	6.03	9.62	11.31	13.98	17.57	12.47
	High Performance Heating (UK)	7.66	10.70	13.70	16.39	16.05	15.56
	COP Priority Heating (UK)	6.08	8.49	10.30	12.32	13.77	12.16
	Cooling (UK)	3.50	5.58	6.56	8.11	11.24	7.23
COP / EER (nominal)		4.11 / 3.71	3.71 / 2.91	3.64 / 2.96	3.65 / 2.86	3.52 / 2.56	4.11 / 3.59
MAX NO. OF CONNECTABLE INDOOR UNITS		20	25	30	35	40	40
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
	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")
PIPE SIZE mm (in)	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")
	Heating / Cooling	59.0 / 58.0	61.0 / 60.0	64.5 / 61.0	64.5 / 62.0	67.0 / 65.0	62.0 / 61.0
SOUND PRESSURE LEVEL (dBA)		77.0 / 75.0	80.0 / 78.0	84.0 / 80.0	84.0 / 80.0	86.0 / 82.0	80.0 / 78.0
WEIGHT (kg)	Heating / Cooling	213	213	226	277	277	213 + 213
	Heating / Cooling	213	213	226	277	277	213 + 213
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920
	Depth	740	740	740	740	740	740
	Height	1858	1858	1858	1858	1858	1858
	(1798mm without legs)	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*2		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE*2		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*2		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*2		Heating / Cooling [MAX]	9.7 / 9.6 [16.1]	13.6 / 15.4 [17.8]	16.5 / 18.1 [22.7]	19.7 / 22.4 [26.4]	22.7 / 28.1 [31.9]
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2		1 x 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 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)		6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	9.8 / 24.0	9.8 / 20.5	13 / 27.1
MAX ADDITIONAL REFRIGERANT (Kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)		15.9 / 33.2	22.9 / 47.8	23.4 / 48.9	24 / 50.1	24.4 / 51.0	32 / 66.8

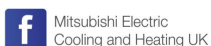
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

*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.

PUHY-P200/250/300YNW-A2 DIMENSIONS			PUHY-P350/400YNW-A2 DIMENSIONS			PUHY-P400YSNW-A2 DIMENSIONS		
SIDE VIEW	FRONT VIEW	UPPER VIEW	SIDE VIEW	FRONT VIEW	UPPER VIEW	SIDE VIEW	FRONT VIEW	UPPER VIEW



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and 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), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *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).

Effective as of September 2022



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Air Conditioning Product Information

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



OUTDOOR UNITS		PUHY-P600YSNW-A2	PUHY-P650YSNW-A2	PUHY-P700YSNW-A2	PUHY-P750YSNW-A2	PUHY-P800YSNW-A2	PUHY-P850YSNW-A2
CAPACITY (kW)	Heating (nominal)	75.0	81.5	90.0	95.0	101.0	106.0
	Cooling (nominal)	67.0	73.0	80.0	85.0	90.0	95.0
	High Performance Heating (UK)	71.3	77.4	85.5	90.3	96.0	95.4
	COP Priority Heating (UK)	68.3	74.2	81.9	86.5	91.9	91.2
	Cooling (UK)	60.0	65.3	71.6	76.1	80.6	85.0
POWER INPUT (kW)	Heating (nominal)	20.60	22.70	24.65	26.53	28.85	30.72
	Cooling (nominal)	23.34	27.96	28.88	32.56	33.96	37.69
	High Performance Heating (UK)	27.40	30.19	32.78	35.28	38.37	34.71
	COP Priority Heating (UK)	20.60	22.70	24.65	26.53	28.85	29.80
	Cooling (UK)	13.54	16.22	16.75	18.88	19.70	24.12
COP / EER (nominal)		3.64 / 2.87	3.59 / 2.61	3.65 / 2.77	3.58 / 2.61	3.50 / 2.65	3.45 / 2.52
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)		Heating / Cooling 67.5 / 64.0	68.5 / 66.5	67.5 / 65.0	69.0 / 67.0	71.0 / 67.5	73.0 / 68.5
SOUND POWER LEVEL (dBA)		Heating / Cooling 87.0 / 83.0	87.0 / 83.0	87.0 / 83.0	88.0 / 84.0	91.0 / 85.0	91.0 / 86.0
WEIGHT (kg)		226 + 226	213 + 277	277 + 277	277 + 277	277 + 293	277 + 293
DIMENSIONS (mm)	Width	920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
	Depth	740	740	740	740	740	740
	Height (1798mm without legs)	1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1		Heating / Cooling [MAX] 33.0 / 37.4 [22.7 + 22.7]	36.4 / 44.8 [17.8 + 31.9]	39.5 / 46.3 [26.4 + 26.4]	42.5 / 52.2 [26.4 + 31.9]	46.2 / 54.4 [26.4 + 37.1]	49.2 / 60.4 [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 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)		13 / 27.1	16.3 / 34.0	19.6 / 40.9	19.6 / 40.9	20.6 / 43.0	20.6 / 43.0
MAX ADDITIONAL REFRIGERANT (Kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)		34.7 / 72.5	35.2 / 73.5	44.8 / 93.5	44.8 / 93.5	44.7 / 93.3	46.5 / 97.1

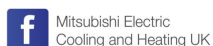
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 2/16 to EN14825 standard.

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PUHY-P600YSNW-A2 DIMENSIONS		PUHY-P650YSNW-A2 DIMENSIONS		PUHY-P700/750/800/850YSNW-A2 DIMENSIONS	
SIDE VIEW	FRONT VIEW	SIDE VIEW	FRONT VIEW	SIDE VIEW	FRONT VIEW



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