Y Series High COP (8-18hp)

Heat Pump Outdoor Unit







New and Improved for even higher efficiency

The City Multi Y Series makes use of a two pipe refrigerant circuit throughout, with branch pipes feeding indoor units, allowing manual changeover from cooling to heating to ensure that a constant indoor climate is maintained.

Key Features

- Optimised for seasonal performance providing up to 15% improvement in efficiency over YJM-EP High COP models
- Automatic refrigerant temperature control function for even further efficiency and comfort, with optional external change over control signal
- Branch pipes feeding indoor units
- New and improved high efficiency inverter driven compressor with very low start currents
- No requirement for plant rooms or bulky service shafts
- Pipe run of 165m, with a total system pipe length of 1000m, with improved indoor unit height difference and furthest indoor unit pipe lengths
- 100% inverter control
- High Sensible Cooling Function - by raising the off coil temperature, a 10% increase in sensible cooling capacity over standard operation is achievable, the result being greater comfort for occupants
- High Performance Heating Mode for low ambient conditions

NR DC COP HPH HS

MODEL REFERENCE		PUHY-EP200YKM-A	PUHY-EP250YKM-A	PUHY-EP300YKM-A	PUHY-EP400YSKM-A	PUHY-EP450YSKM-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	50.0	56.0
	Cooling (nominal)	22.4	28.0	33.5	45.0	50.0
	High Performance Heating (UK)	25.0	31.5	35.6	47.5	50.7
	COP Priority Heating (UK)	22.8	28.7	32.3	43.0	48.7
	Cooling (UK)	21.3	26.6	31.5	42.3	46.0
POWER INPUT (kW)	Heating (nominal)	5.76	7.50	9.30	12.3	13.82
	Cooling (nominal)	5.50	6.89	8.17	11.65	12.95
	High Performance Heating (UK)	6.68	8.70	11.25	14.68	14.51
	COP Priority Heating (UK)	5.18	6.75	8.28	10.80	11.61
	Cooling (UK)	3.19	4.00	5.29	7.54	8.12
COP / EER (nominal)		4.34 / 4.07	4.20 / 4.06	4.03 / 4.10	4.12 / 3.86	4.05 / 3.86
SCOP / SEER		5.94 / 8.96	5.75 / 8.75	5.59 / 7.89	5.75 / 8.18	5.74 / 7.91
Max No. OF CONNECTABLE INDOOR UNITS		17	21	26	34	39
Max CONNECTABLE CAPACITY		50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity	50~130% OU Capacity
AIRFLOW (m^3/min)	High	175	175	320	175 / 175	175 / 175
SOUND PRESSURE LEVEL (dBA)		57	60	61	60	62
SOUND POWER LEVEL (dBA)		77	80	81	80	82
WEIGHT (kg)		201	229	314	201 + 201	229 + 201
DIMENSIONS (mm)	Width	920	1220	1750	920 + 920	1220 + 920
	Depth	740	740	740	740	740
(1650mm without legs)	Height	1710	1710	1710	1710	1710
ELECTRICAL SUPPLY *		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*		Three	Three	Three	Three	Three
STARTING CURRENT (A)*		8	8	8	8 / 8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*	Heating / Cooling	8.9 / 8.5	11.5 / 10.6	14.3 / 12.6	18.7 / 18	21.3 / 20
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46	-20~15.5 / -5~46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 20	1 x 20	1 x 25	1 x 20 / 1 x 20	1 x 20 / 1 x 20
MAINS CABLE No. Cores*		4	4	4	4	4

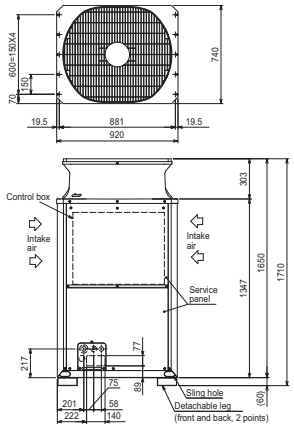
Note: * A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

PIPING RESTRICTIONS	PUHY-EP200-450Y(S)KM-A
TOTAL PIPING LENGTH	1000m max
FURTHEST PIPING LENGTH	165m max
FURTHEST PIPING LENGTH AFTER 1st BRANCH	40m*1 max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50 max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m*2 max

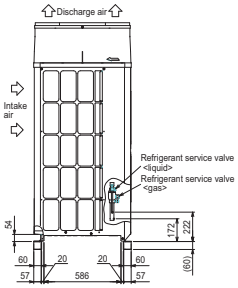
Notes: *1 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the first joint all the way to all indoor units greater than 40m from first joint.
*2 30m is available. When the piping length is 15m or longer, use the one size larger liquid pipe between the first joint all the way to all indoor units greater than 15m from first joint.

Product Dimensions PUHY-EP200YKM-A

Upper View



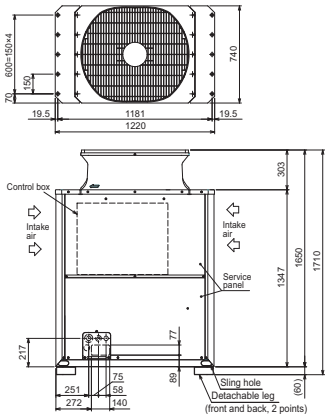
Front View



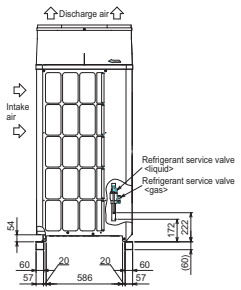
Side View

Product Dimensions PUHY-EP250YKM-A

Upper View



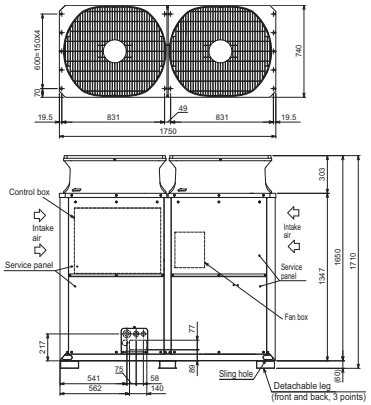
Front View



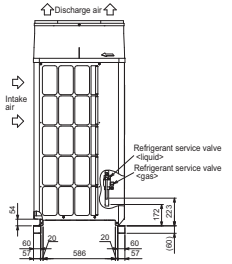
Side View

Product Dimensions PUHY-EP300YKM-A

Upper View



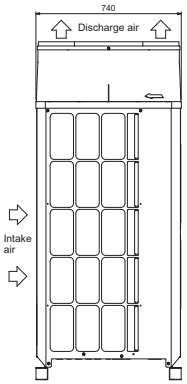
Front View



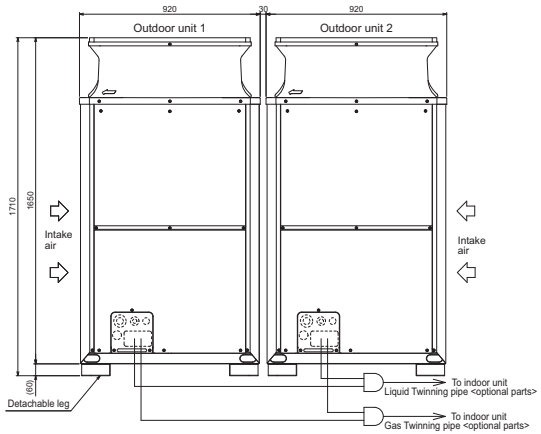
Side View

Product Dimensions PUHY-EP400YSKM-A

Side View

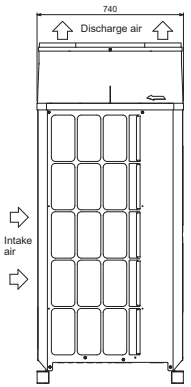


Front View



Product Dimensions PUHY-EP450YSKM-A

Side View



Front View

