## Air Conditioning

## **Product Information**

PUHY-P450YJM-A: Standard Y Series 18hp

**Outdoor Unit** 

R410A Heat Pump





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.



## **FEATURES**















Heating Capacity (kW) (nominal) 56 Cooling Capacity (kW) (nominal) 56 High Performance Heating Capacity (kW) (UK) 50.7 COP Priority Heating Capacity (kW) (UK) 48.7 Cooling Capacity (kW) (UK) 48.7 Cooling Capacity (kW) (UK) 48.7 Cooling Power Input (kW) (nominal) 14.62 Cooling Power Input (kW) (nominal) 15.47 High Performance Heating Power Input (kW) (UK) 16.67 COP Priority Heating Power Input (kW) (UK) 16.67 COP Priority Heating Power Input (kW) (UK) 16.67 COP Priority Heating Power Input (kW) (UK) 17.3 Cooling Power Input (kW) (UK) 17.3 Cooling Power Input (kW) (UK) 17.3 COO / EER (nominal) 17.3 COO / SEER 17.3 CO		
Cooling Capacity (kW) (nominal) 50 High Performance Heating Capacity (kW) (UK) 50.7 COP Priority Heating Capacity (kW) (UK) 48.7 Cooling Capacity (kW) (UK) 48.7 Cooling Power Input (kW) (nominal) 14.62 Heating Power Input (kW) (nominal) 15.47 High Performance Heating Power Input (kW) (UK) 16.67 COP Priority Heating Power Input (kW) (UK) 13.3 Cooling Power Input (kW) (UK) 9.75 COP / EER (nominal) 3.83 / 3.23 SCOP / SEER 4.96 / 5.82 Max No. of Connectable Indoor Units 33 Airflow (m³/min) 370 Sound Pressure Level (dBA) 62 Sound Power Level (dBA) 82 Weight (kg) 290 Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710 Electrical Supply 380-415V, 50H2 Phase 35 Starting Current (A) - Heating 22.5 Running Current (A) - Heating 22.5 Running Current (A) - Cooling 23.5 Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40 Mains Cable No. Cores 4 + EARTH PIPING RESTRICTIONS Total Piping Length (m) 1000 Furthest Piping Length (m) 165 Furthest Piping Length After First Branch (m) 40 Between Indoor and Outdoor units - Height (m) 50	OUTDOOR	
High Performance Heating Capacity (kW) (UK)  COP Priority Heating Capacity (kW) (UK)  48.7  Cooling Capacity (kW) (UK)  Heating Power Input (kW) (nominal)  14.62  Cooling Power Input (kW) (nominal)  High Performance Heating Power Input (kW) (UK)  COP Priority Heating Power Input (kW) (UK)  13.3  Cooling Power Input (kW) (UK)  COP Priority Heating Power Input (kW) (UK)  3.83 / 3.23  SCOP / EER (nominal)  3.83 / 3.23  SCOP / SEER  4.96 / 5.82  Max No. of Connectable Indoor Units  Airflow (m³/min)  Sound Pressure Level (dBA)  Sound Power Level (dBA)  Sound Power Level (dBA)  Weight (kg)  Dimensions (mm) Width x Depth x Height  1750 x 760 x 1710  Electrical Supply  Phase  Starting Current (A) - Heating  Running Current (A) - Heating  Running Current (A) - Cooling  Fuse Rating (MCB sizes BS EN 60947-2) - (A)  Mains Cable No. Cores  4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m)  Furthest Piping Length (fm)  Furthest Piping Length After First Branch (m)  Between Indoor and Outdoor units - Height (m)  500  500  500  500  500  500  500  5	Heating Capacity (kW) (nominal)	56
COP Priority Heating Capacity (kW) (UK) 48.7  Cooling Capacity (kW) (UK) 48.7  Cooling Power Input (kW) (nominal) 14.62  Cooling Power Input (kW) (nominal) 15.47  High Performance Heating Power Input (kW) (UK) 16.67  COP Priority Heating Power Input (kW) (UK) 13.3  Cooling Power Input (kW) (UK) 9.75  COP / EER (nominal) 3.83 / 3.23  SCOP / SEER 4.96 / 5.82  Max No. of Connectable Indoor Units 38  Airflow (m³/min) 370  Sound Pressure Level (dBA) 62  Sound Power Level (dBA) 82  Weight (kg) 290  Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710  Electrical Supply 380-415V, 50H2  Phase 35  Starting Current (A) - Heating 22.5  Running Current (A) - Cooling 33.5  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length (fm) 165  Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 500	Cooling Capacity (kW) (nominal)	50
Cooling Capacity (kW) (UK) 44  Heating Power Input (kW) (nominal) 14.62  Cooling Power Input (kW) (nominal) 15.47  High Performance Heating Power Input (kW) (UK) 16.67  COP Priority Heating Power Input (kW) (UK) 13.3  Cooling Power Input (kW) (UK) 9.75  COP / EER (nominal) 3.83 / 3.23  SCOP / SEER 4.96 / 5.82  Max No. of Connectable Indoor Units 38  Airflow (m³/min) 370  Sound Pressure Level (dBA) 62  Sound Power Level (dBA) 82  Weight (kg) 290  Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710  Electrical Supply 380-415V, 50H2  Phase 35  Starting Current (A) - Heating 22.5  Running Current (A) - Cooling 3.35  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length (fm) 165  Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 50	High Performance Heating Capacity (kW) (UK)	50.7
Heating Power Input (kW) (nominal)	COP Priority Heating Capacity (kW) (UK)	48.7
Cooling Power Input (kW) (nominal)  High Performance Heating Power Input (kW) (UK)  COP Priority Heating Power Input (kW) (UK)  13.3  Cooling Power Input (kW) (UK)  9.75  COP / EER (nominal)  3.83 / 3.23  SCOP / SEER  4.96 / 5.82  Max No. of Connectable Indoor Units  38  Airflow (m³/min)  370  Sound Pressure Level (dBA)  Sound Power Level (dBA)  Weight (kg)  Dimensions (mm) Width x Depth x Height  1750 x 760 x 1710  Electrical Supply  Phase  38  Starting Current (A) - Heating  Running Current (A) - Cooling  Fuse Rating (MCB sizes BS EN 60947-2) - (A)  Mains Cable No. Cores  4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m)  Furthest Piping Length (ff)  Between Indoor and Outdoor units - Height (m)  50  13.3  13	Cooling Capacity (kW) (UK)	46
High Performance Heating Power Input (kW) (UK) 16.67  COP Priority Heating Power Input (kW) (UK) 13.3  Cooling Power Input (kW) (UK) 9.75  COP / EER (nominal) 3.83 / 3.23  SCOP / SEER 4.96 / 5.82  Max No. of Connectable Indoor Units 38  Airflow (m³/min) 370  Sound Pressure Level (dBA) 62  Sound Power Level (dBA) 82  Weight (kg) 290  Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710  Electrical Supply 380-415V, 50H2  Phase 3  Starting Current (A) 8  Running Current (A) - Cooling 23.5  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length (fm) 40  Between Indoor and Outdoor units - Height (m) 500	Heating Power Input (kW) (nominal)	14.62
COP Priority Heating Power Input (kW) (UK)  Cooling Power Input (kW) (UK)  COP / EER (nominal)  3.83 / 3.23  SCOP / SEER  4.96 / 5.82  Max No. of Connectable Indoor Units  Airflow (m³/min)  Sound Pressure Level (dBA)  Sound Power Level (dBA)  Weight (kg)  Dimensions (mm) Width x Depth x Height  1750 x 760 x 1710  Electrical Supply  Phase  Starting Current (A)  Running Current (A) - Heating  Running Current (A) - Cooling  Fuse Rating (MCB sizes BS EN 60947-2) - (A)  Mains Cable No. Cores  4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m)  Furthest Piping Length (fm)  Furthest Piping Length After First Branch (m)  Between Indoor and Outdoor units - Height (m)  500	Cooling Power Input (kW) (nominal)	15.47
Cooling Power Input (kW) (UK)         9.75           COP / EER (nominal)         3.83 / 3.23           SCOP / SEER         4.96 / 5.82           Max No. of Connectable Indoor Units         38           Airflow (m³/min)         370           Sound Pressure Level (dBA)         62           Sound Power Level (dBA)         82           Weight (kg)         290           Dimensions (mm) Width x Depth x Height         1750 x 760 x 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         8           Running Current (A) - Heating         22.5           Running Current (A) - Cooling         23.8           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         40           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	High Performance Heating Power Input (kW) (UK)	16.67
COP / EER (nominal)       3.83 / 3.23         SCOP / SEER       4.96 / 5.82         Max No. of Connectable Indoor Units       38         Airflow (m³/min)       370         Sound Pressure Level (dBA)       62         Sound Power Level (dBA)       82         Weight (kg)       290         Dimensions (mm) Width x Depth x Height       1750 x 760 x 1710         Electrical Supply       380-415V, 50Hz         Phase       3         Starting Current (A)       8         Running Current (A) - Heating       22.5         Running Current (A) - Cooling       23.5         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS       1000         Furthest Piping Length (m)       165         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	COP Priority Heating Power Input (kW) (UK)	13.3
SCOP / SEER       4.96 / 5.82         Max No. of Connectable Indoor Units       38         Airflow (m³/min)       370         Sound Pressure Level (dBA)       62         Sound Power Level (dBA)       82         Weight (kg)       290         Dimensions (mm) Width x Depth x Height       1750 x 760 x 1710         Electrical Supply       380-415V, 50Hz         Phase       3         Starting Current (A)       8         Running Current (A) - Heating       22.5         Running Current (A) - Cooling       23.9         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS         Total Piping Length (m)       1000         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	Cooling Power Input (kW) (UK)	9.75
Max No. of Connectable Indoor Units       38         Airflow (m³/min)       370         Sound Pressure Level (dBA)       62         Sound Power Level (dBA)       82         Weight (kg)       290         Dimensions (mm) Width x Depth x Height       1750 x 760 x 1710         Electrical Supply       380-415V, 50Hz         Phase       3         Starting Current (A)       8         Running Current (A) - Heating       22.5         Running Current (A) - Cooling       23.5         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS         Total Piping Length (m)       165         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	COP / EER (nominal)	3.83 / 3.23
Airflow (m³/min) 370  Sound Pressure Level (dBA) 62  Sound Power Level (dBA) 82  Weight (kg) 290  Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710  Electrical Supply 380-415V, 50Hz  Phase 3  Starting Current (A) 8  Running Current (A) - Heating 22.5  Running Current (A) - Cooling 23.5  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 50	SCOP / SEER	4.96 / 5.82
Sound Pressure Level (dBA)  Sound Power Level (dBA)  Sound Power Level (dBA)  Weight (kg)  Dimensions (mm) Width x Depth x Height  1750 x 760 x 1710  Electrical Supply  380-415V, 50Hz  Phase  Starting Current (A)  Running Current (A) - Heating  22.5  Running Current (A) - Cooling  23.5  Fuse Rating (MCB sizes BS EN 60947-2) - (A)  Mains Cable No. Cores  4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m)  1000  Furthest Piping Length (m)  165  Furthest Piping Length After First Branch (m)  Between Indoor and Outdoor units - Height (m)	Max No. of Connectable Indoor Units	39
Sound Power Level (dBA)         82           Weight (kg)         290           Dimensions (mm) Width x Depth x Height         1750 x 760 x 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         6           Running Current (A) - Heating         22.5           Running Current (A) - Cooling         23.5           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         4           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length (m)         168           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	Airflow (m³/min)	370
Weight (kg)         290           Dimensions (mm) Width x Depth x Height         1750 x 760 x 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         8           Running Current (A) - Heating         22.5           Running Current (A) - Cooling         23.5           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         4           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length (m)         168           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	Sound Pressure Level (dBA)	62
Dimensions (mm) Width x Depth x Height 1750 x 760 x 1710  Electrical Supply 380-415V, 50Hz  Phase 3  Starting Current (A) 6  Running Current (A) - Heating 22.5  Running Current (A) - Cooling 23.5  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length (m) 165  Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 50	Sound Power Level (dBA)	82
Electrical Supply 380-415V, 50Hz Phase 3 Starting Current (A) 8 Running Current (A) - Heating 22.5 Running Current (A) - Cooling 23.5 Fuse Rating (MCB sizes BS EN 60947-2) - (A) 40 Mains Cable No. Cores 4 + EARTH PIPING RESTRICTIONS Total Piping Length (m) 1000 Furthest Piping Length (m) 165 Furthest Piping Length After First Branch (m) 40 Between Indoor and Outdoor units - Height (m) 500	Weight (kg)	290
Phase         3           Starting Current (A)         8           Running Current (A) - Heating         22.5           Running Current (A) - Cooling         23.5           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         4           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length (m)         165           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	Dimensions (mm) Width x Depth x Height	1750 x 760 x 1710
Starting Current (A)         8           Running Current (A) - Heating         22.5           Running Current (A) - Cooling         23.5           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         4           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length (m)         165           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	Electrical Supply	380-415V, 50HZ
Running Current (A) - Heating       22.5         Running Current (A) - Cooling       23.5         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS         Total Piping Length (m)       1000         Furthest Piping Length (m)       165         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	Phase	3
Running Current (A) - Cooling       23.5         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS         Total Piping Length (m)       1000         Furthest Piping Length (m)       165         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	Starting Current (A)	8
Fuse Rating (MCB sizes BS EN 60947-2) - (A)       40         Mains Cable No. Cores       4 + EARTH         PIPING RESTRICTIONS         Total Piping Length (m)       1000         Furthest Piping Length (m)       165         Furthest Piping Length After First Branch (m)       40         Between Indoor and Outdoor units - Height (m)       50	Running Current (A) - Heating	22.5
Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         1000           Furthest Piping Length (m)         168           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50	Running Current (A) - Cooling	23.9
PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length (m) 166  Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 50	Fuse Rating (MCB sizes BS EN 60947-2) - (A)	40
Total Piping Length (m)  Furthest Piping Length (m)  Furthest Piping Length After First Branch (m)  Between Indoor and Outdoor units - Height (m)  1000  400  500	Mains Cable No. Cores	4 + EARTH
Furthest Piping Length (m) 168 Furthest Piping Length After First Branch (m) 40 Between Indoor and Outdoor units - Height (m) 50	PIPING RESTRICTIONS	
Furthest Piping Length After First Branch (m) 40  Between Indoor and Outdoor units - Height (m) 50	Total Piping Length (m)	1000
Between Indoor and Outdoor units - Height (m) 50	Furthest Piping Length (m)	165
	Furthest Piping Length After First Branch (m)	40
Between Indoor and Indoor units - Height (m)	Between Indoor and Outdoor units - Height (m)	50
	Between Indoor and Indoor units - Height (m)	15

## **DIMENSIONS**

PUHY-P450YJM-A





