## Air Conditioning

## **Product Information**

PUHY-EP900YSKM-A: High COP Y Series

**36hp 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**













| Cooling Capacity (kW) (nominal) 101  High Performance Heating Capacity (kW) (UK) 107.4  COP Priority Heating Capacity (kW) (UK) 99.4  Cooling Capacity (kW) (UK) 92.5  Heating Power Input (kW) (nominal) 25.96  High Performance Heating Power Input (kW) (UK) 35.75  Cooling Power Input (kW) (nominal) 25.96  High Performance Heating Power Input (kW) (UK) 35.75  COP Priority Heating Power Input (kW) (UK) 24.85  Cooling Power Input (kW) (UK) 15.84  COP / EER (nominal) 3.82 / 3.85  SCOP / SEER 5.35 / 8.44  Max No. of Connectable Indoor Units 55  Airflow (m³/min) 320 / 320 | OUTDOOR  |                                 |
|--|--|---------------------------------|
| High Performance Heating Capacity (kW) (UK) 107.4  COP Priority Heating Capacity (kW) (UK) 99.5  Cooling Capacity (kW) (UK) 92.5  Heating Power Input (kW) (nominal) 29.56  Cooling Power Input (kW) (nominal) 25.96  High Performance Heating Power Input (kW) (UK) 35.75  COP Priority Heating Power Input (kW) (UK) 24.85  Cooling Power Input (kW) (UK) 15.84  Cooling Power Input (kW) (UK) 15.84  COP / SEER 5.35 / 8.44  Max No. of Connectable Indoor Units 5.0  Airflow (m³/min) 320 / 320 / 320  Sound Pressure Level (dBA) 66  Sound Power Level (dBA) 86  Weight (kg) 314 + 314 + 314  Dimensions (mm) Width x Depth x Height 1750 + 1750 + 1750 + 1750 x 740 x 1710  Electrical Supply 380-415V, 50H2  Phase 3  Starting Current (A) - Heating 45.7  Running Current (A) - Cooling 40.7  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 25 / 25 / 25  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000  Furthest Piping Length f(m) 40  Between Indoor and Outdoor units - Height (m) 50   | Heating Capacity (kW) (nominal)                | 113                             |
| COP Priority Heating Capacity (kW) (UK) 99.5 Cooling Capacity (kW) (UK) 92.5 Heating Power Input (kW) (nominal) 29.56 Cooling Power Input (kW) (nominal) 25.96 High Performance Heating Power Input (kW) (UK) 35.75 COP Priority Heating Power Input (kW) (UK) 24.85 Cooling Power Input (kW) (UK) 15.84 COP / EER (nominal) 3.82 / 3.85 SCOP / SEER 5.35 / 8.44 Max No. of Connectable Indoor Units 50 Airflow (m³/min) 320 / 320 / 320 Sound Pressure Level (dBA) 66 Sound Power Level (dBA) 86 Weight (kg) 314 + 314 + 314 Dimensions (mm) Width x Depth x Height 1750 + 1750 + 1750 x 740 x 171 Electrical Supply 380-415V, 50H2 Phase 3 Starting Current (A) - Heating 45.7 Running Current (A) - Heating 45.7 Running Current (A) - Cooling 40.7 Fuse Rating (MCB sizes BS EN 60947-2) - (A) 25 / 25 / 25 Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 1000 Furthest Piping Length (m) 500  | Cooling Capacity (kW) (nominal)                | 101                             |
| Cooling Capacity (kW) (UK)         92.5           Heating Power Input (kW) (nominal)         29.58           Cooling Power Input (kW) (nominal)         25.96           High Performance Heating Power Input (kW) (UK)         35.75           COP Priority Heating Power Input (kW) (UK)         24.88           Cooling Power Input (kW) (UK)         15.84           COP / EER (nominal)         3.82 / 3.88           SCOP / SEER         5.35 / 8.44           Max No. of Connectable Indoor Units         50           Airflow (m³/min)         320 / 320 / 320           Sound Pressure Level (dBA)         66           Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 or 1710           Electrical Supply         380-415V, 50H2           Phase         3           Starting Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         168           Furthest Piping Length After First Branch (m)         40     <   | High Performance Heating Capacity (kW) (UK)    | 107.4                           |
| Heating Power Input (kW) (nominal)   29.58   | COP Priority Heating Capacity (kW) (UK)        | 99.4                            |
| Cooling Power Input (kW) (nominal)         25.96           High Performance Heating Power Input (kW) (UK)         35.73           COP Priority Heating Power Input (kW) (UK)         24.85           Cooling Power Input (kW) (UK)         15.84           COP / EER (nominal)         3.82 / 3.85           SCOP / SEER         5.35 / 8.44           Max No. of Connectable Indoor Units         50           Airflow (m³/min)         320 / 320 / 320           Sound Pressure Level (dBA)         66           Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 or 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A) - Heating         45.73           Running Current (A) - Gooling         40.73           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           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   | Cooling Capacity (kW) (UK)                     | 92.9                            |
| High Performance Heating Power Input (kW) (UK)       35.75         COP Priority Heating Power Input (kW) (UK)       24.85         Cooling Power Input (kW) (UK)       15.84         COP / EER (nominal)       3.82 / 3.85         SCOP / SEER       5.35 / 8.44         Max No. of Connectable Indoor Units       50         Airflow (m³/min)       320 / 320 / 320         Sound Pressure Level (dBA)       86         Sound Power Level (dBA)       86         Weight (kg)       314 + 314 + 314         Dimensions (mm) Width x Depth x Height       1750 + 1750 + 1750 x 740 or 1710         Electrical Supply       380-415V, 50Hz         Phase       3         Starting Current (A)       8 / 8 / 8         Running Current (A) - Heating       45.7         Running Current (A) - Cooling       40.7         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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  | Heating Power Input (kW) (nominal)             | 29.58                           |
| COP Priority Heating Power Input (kW) (UK)  24.85 Cooling Power Input (kW) (UK)  15.84 COP / EER (nominal)  3.82 / 3.85 SCOP / SEER  5.35 / 8.44 Max No. of Connectable Indoor Units Airflow (m³/min)  320 / 320 / 320 Sound Pressure Level (dBA) Sound Power Level (dBA)  86 Sound Power Level (dBA)  Weight (kg)  314 + 314 + 314  Dimensions (mm) Width x Depth x Height  1750 + 1750 + 1750 x 740  1710 Electrical Supply  380-415V, 50Hz Phase  30 Starting Current (A)  Running Current (A) - Heating  45.7 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 (m)  Furthest Piping Length After First Branch (m)  Between Indoor and Outdoor units - Height (m)   | Cooling Power Input (kW) (nominal)             | 25.96                           |
| Cooling Power Input (kW) (UK)         15.84           COP / EER (nominal)         3.82 / 3.88           SCOP / SEER         5.35 / 8.44           Max No. of Connectable Indoor Units         5.35 / 8.44           Airflow (m³/min)         320 / 320 / 320           Sound Pressure Level (dBA)         66           Sound Power Level (dBA)         314 + 314 + 314           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 x 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Gooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS           Total Piping Length (m)         100           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50   | High Performance Heating Power Input (kW) (UK) | 35.79                           |
| COP / EER (nominal) 3.82 / 3.88  SCOP / SEER 5.35 / 8.44  Max No. of Connectable Indoor Units 5.00  Airflow (m³/min) 320 / 320 / 320  Sound Pressure Level (dBA) 66  Sound Power Level (dBA) 86  Weight (kg) 314 + 314 + 314  Dimensions (mm) Width x Depth x Height 1750 + 1750 + 1750 x 740 x 1710  Electrical Supply 380-415V, 50Hz  Phase 3  Starting Current (A) 8 / 8 / 8  Running Current (A) - Heating 45.7  Running Current (A) - Cooling 40.7  Fuse Rating (MCB sizes BS EN 60947-2) - (A) 25 / 25 / 25  Mains Cable No. Cores 4 + EARTH  PIPING RESTRICTIONS  Total Piping Length (m) 165  Furthest Piping Length (m) 56  Between Indoor and Outdoor units - Height (m) 56  | COP Priority Heating Power Input (kW) (UK)     | 24.85                           |
| SCOP / SEER         5.35 / 8.44           Max No. of Connectable Indoor Units         50           Airflow (m³/min)         320 / 320 / 320           Sound Pressure Level (dBA)         86           Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 or 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           Mains Cable No. Cores         4 + EARTH           PIPING RESTRICTIONS         100           Total Piping Length (m)         100           Furthest Piping Length After First Branch (m)         40           Between Indoor and Outdoor units - Height (m)         50  | Cooling Power Input (kW) (UK)                  | 15.84                           |
| Max No. of Connectable Indoor Units         50           Airflow (m³/min)         320 / 320 / 320           Sound Pressure Level (dBA)         66           Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 or 1710           Electrical Supply         380-415V, 50Hz           Phase         3           Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           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 / EER (nominal)                            | 3.82 / 3.89                     |
| Airflow (m³/min) 320 / 3 | SCOP / SEER                                    | 5.35 / 8.44                     |
| Sound Pressure Level (dBA)         66           Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740   | Max No. of Connectable Indoor Units            | 50                              |
| Sound Power Level (dBA)         86           Weight (kg)         314 + 314 + 314           Dimensions (mm) Width x Depth x Height         1750 + 1750 + 1750 x 740 x 740 x 7410           Electrical Supply         380-415V, 50HZ           Phase         3           Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           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)                               | 320 / 320 / 320                 |
| Weight (kg)       314 + 314 + 314         Dimensions (mm) Width x Depth x Height       1750 + 1750 + 1750 x 740 x 740 x 7710         Electrical Supply       380-415V, 50HZ         Phase       3         Starting Current (A)       8 / 8 / 8         Running Current (A) - Heating       45.7         Running Current (A) - Cooling       40.7         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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)                     | 66                              |
| Dimensions (mm) Width x Depth x Height       1750 + 1750 + 1750 x 740 x 1710         Electrical Supply       380-415V, 50HZ         Phase       3         Starting Current (A)       8 / 8 / 8         Running Current (A) - Heating       45.7         Running Current (A) - Cooling       40.7         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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 Power Level (dBA)                        | 86                              |
| 1710   | Weight (kg)                                    | 314 + 314 +314                  |
| Phase         3           Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           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  | Dimensions (mm) Width x Depth x Height         | 1750 + 1750 + 1750 x 740 > 1710 |
| Starting Current (A)         8 / 8 / 8           Running Current (A) - Heating         45.7           Running Current (A) - Cooling         40.7           Fuse Rating (MCB sizes BS EN 60947-2) - (A)         25 / 25 / 25           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  | Electrical Supply                              | 380-415V, 50HZ                  |
| Running Current (A) - Heating       45.7         Running Current (A) - Cooling       40.7         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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       40.7         Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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)                           | 8/8/8                           |
| Fuse Rating (MCB sizes BS EN 60947-2) - (A)       25 / 25 / 25         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                  | 45.7                            |
| 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) - Cooling                  | 40.7                            |
| 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  | Fuse Rating (MCB sizes BS EN 60947-2) - (A)    | 25 / 25 / 25                    |
| 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  | 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) 30  | Between Indoor and Outdoor units - Height (m)  | 50                              |
|  | Between Indoor and Indoor units - Height (m)   | 30                              |

## **DIMENSIONS**

PUHY-EP900YSKM-A





