

# 1. SPECIFICATIONS

R2-Series

|                                                        |                              |                        |                                                                                                                                                                                                                                                               |                                         |                |                       |
|--------------------------------------------------------|------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|-----------------------|
| Model                                                  |                              |                        | PURY-P350YNW-A2/TR2/RU2 (-BS)                                                                                                                                                                                                                                 |                                         |                |                       |
| Power source                                           |                              |                        | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |                                         |                |                       |
| Cooling capacity                                       |                              | *1                     | kW                                                                                                                                                                                                                                                            | 40.0                                    |                |                       |
|                                                        |                              |                        | BTU/h                                                                                                                                                                                                                                                         | 136,500                                 |                |                       |
|                                                        |                              |                        | Power input                                                                                                                                                                                                                                                   | kW                                      | 14.92          |                       |
|                                                        |                              |                        | Current input                                                                                                                                                                                                                                                 | A                                       | 25.1-23.9-23.0 |                       |
|                                                        |                              |                        | EER                                                                                                                                                                                                                                                           | kW/kW                                   | 2.68           |                       |
|                                                        |                              |                        | SEER                                                                                                                                                                                                                                                          | kW/kW                                   | 5.98           |                       |
| Temp. range of cooling                                 | *4                           | Indoor                 | W.B.                                                                                                                                                                                                                                                          | 15.0~24.0°C (59~75°F)                   |                |                       |
|                                                        |                              | Outdoor                | D.B.                                                                                                                                                                                                                                                          | -5.0~52.0°C (23~126°F)                  |                |                       |
| Heating capacity (Max)                                 |                              | *2                     | kW                                                                                                                                                                                                                                                            | 45.0                                    |                |                       |
|                                                        |                              |                        | BTU/h                                                                                                                                                                                                                                                         | 153,500                                 |                |                       |
|                                                        |                              |                        | Power input                                                                                                                                                                                                                                                   | kW                                      | 13.88          |                       |
|                                                        |                              |                        | Current input                                                                                                                                                                                                                                                 | A                                       | 23.4-22.2-21.4 |                       |
|                                                        |                              |                        | COP                                                                                                                                                                                                                                                           | kW/kW                                   | 3.24           |                       |
|                                                        |                              | (Nominal)              | *3                                                                                                                                                                                                                                                            | kW                                      | 40.0           |                       |
|                                                        |                              |                        |                                                                                                                                                                                                                                                               | BTU/h                                   | 136,500        |                       |
|                                                        |                              |                        |                                                                                                                                                                                                                                                               | Power input                             | kW             | 10.89                 |
|                                                        |                              |                        |                                                                                                                                                                                                                                                               | Current input                           | A              | 18.3-17.4-16.8        |
|                                                        |                              |                        |                                                                                                                                                                                                                                                               | COP                                     | kW/kW          | 3.67                  |
|                                                        |                              |                        |                                                                                                                                                                                                                                                               | SCOP                                    | kW/kW          | 3.53                  |
|                                                        |                              | Temp. range of heating | *4                                                                                                                                                                                                                                                            | Indoor                                  | D.B.           | 15.0~27.0°C (59~81°F) |
| Outdoor                                                | W.B.                         |                        |                                                                                                                                                                                                                                                               | -20.0~15.5°C (-4~60°F)                  |                |                       |
| Indoor unit connectable                                |                              | Total capacity         |                                                                                                                                                                                                                                                               | 50~150% of outdoor unit capacity        |                |                       |
|                                                        |                              | Model/Quantity         |                                                                                                                                                                                                                                                               | P10~P250, M20~M140/1~35                 |                |                       |
| Sound pressure level (measured in anechoic room) *5, 6 |                              |                        | dB <A>                                                                                                                                                                                                                                                        | 62.5/64.0                               |                |                       |
| Sound power level (measured in anechoic room) *5       |                              |                        | dB <A>                                                                                                                                                                                                                                                        | 81/83                                   |                |                       |
| Refrigerant piping diameter                            | High pressure                |                        | mm (in.)                                                                                                                                                                                                                                                      | 19.05 (3/4) Brazed                      |                |                       |
|                                                        | Low pressure                 |                        | mm (in.)                                                                                                                                                                                                                                                      | 28.58 (1-1/8) Brazed                    |                |                       |
| FAN                                                    | Type x Quantity              |                        | Propeller fan x 2                                                                                                                                                                                                                                             |                                         |                |                       |
|                                                        | Air flow rate                | m <sup>3</sup> /min    | 250                                                                                                                                                                                                                                                           |                                         |                |                       |
|                                                        |                              | L/s                    | 4,167                                                                                                                                                                                                                                                         |                                         |                |                       |
|                                                        |                              | cfm                    | 8,828                                                                                                                                                                                                                                                         |                                         |                |                       |
|                                                        | Control, Driving mechanism   |                        | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |                                         |                |                       |
|                                                        | Motor output                 |                        | kW                                                                                                                                                                                                                                                            | 0.46 x 2                                |                |                       |
|                                                        | *7 External static press.    |                        | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |                                         |                |                       |
|                                                        | Compressor                   | Type x Quantity        |                                                                                                                                                                                                                                                               | Inverter scroll hermetic compressor x 1 |                |                       |
| Starting method                                        |                              | Inverter               |                                                                                                                                                                                                                                                               |                                         |                |                       |
| Motor output                                           |                              | kW                     | 12.0                                                                                                                                                                                                                                                          |                                         |                |                       |
| Case heater                                            |                              | kW                     | -                                                                                                                                                                                                                                                             |                                         |                |                       |
| Lubricant                                              |                              | MEL32                  |                                                                                                                                                                                                                                                               |                                         |                |                       |
| External finish                                        |                              |                        | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |                                         |                |                       |
| External dimension H x W x D                           |                              | mm                     | 1,858 (1,798 without legs) x 1,240 x 740                                                                                                                                                                                                                      |                                         |                |                       |
|                                                        |                              | in.                    | 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16                                                                                                                                                                                                            |                                         |                |                       |
| Protection devices                                     | High pressure protection     |                        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |                                         |                |                       |
|                                                        | Inverter circuit (COMP./FAN) |                        | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |                                         |                |                       |
|                                                        | Compressor                   |                        | -                                                                                                                                                                                                                                                             |                                         |                |                       |
|                                                        | Fan motor                    |                        | -                                                                                                                                                                                                                                                             |                                         |                |                       |
| Refrigerant                                            | Type x original charge       |                        | R410A x 8.0 kg (18 lbs)                                                                                                                                                                                                                                       |                                         |                |                       |
|                                                        | Control                      |                        | Indoor LEV and BC controller                                                                                                                                                                                                                                  |                                         |                |                       |
| Net weight                                             |                              | kg (lbs)               | 269 (594)                                                                                                                                                                                                                                                     |                                         |                |                       |
| Heat exchanger                                         |                              |                        | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |                                         |                |                       |
| HIC circuit (HIC: Heat Inter-Changer)                  |                              |                        | -                                                                                                                                                                                                                                                             |                                         |                |                       |
| Defrosting method                                      |                              |                        | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |                                         |                |                       |
| Drawing                                                | External                     |                        | WKB94C4WE                                                                                                                                                                                                                                                     |                                         |                |                       |
|                                                        | Wiring                       |                        | WKE94L191                                                                                                                                                                                                                                                     |                                         |                |                       |
| Standard attachment                                    | Document                     |                        | Installation Manual                                                                                                                                                                                                                                           |                                         |                |                       |
|                                                        | Accessory                    |                        | -                                                                                                                                                                                                                                                             |                                         |                |                       |
| Optional parts                                         |                              |                        | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>BC controller: CMB-M104,106,108,1012,1016V-J1<br>Main BC controller: CMB-M108,1012,1016V-JA1,CMB-P1016V-KA1<br>Sub BC controller: CMB-M104,108V-KB1                                                         |                                         |                |                       |
| Remarks                                                |                              |                        | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |                                         |                |                       |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|
| Notes:                                                                                                                                                                                                                                    |  | Unit converter                                              |
| 1.Nominal cooling conditions (subject to JIS B8615-2)<br>Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB./24°CWB. (95°FDB./75°FWB.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                         |  | BTU/h =kW x 3,412                                           |
| 2.Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                                           |  | cfm =m <sup>3</sup> /min x 35.31                            |
| 3.Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)<br>Eurovent registered                    |  | lbs =kg/0.4536                                              |
| 4.-10 °CDB.(14 °FDB.)-11 °CWB.(12 °FWB.) to 21 °CDB.(70 °FDB.)/15.5 °CWB.(60 °FWB.)<br>with cooling/heating mixed operation.                                                                                                              |  |                                                             |
| 5.Cooling mode/Heating mode                                                                                                                                                                                                               |  |                                                             |
| 6.The sound pressure level measured by the conventional method in JIS for reference purpose.                                                                                                                                              |  |                                                             |
| 7.External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH <sub>2</sub> O, 6.1 mmH <sub>2</sub> O, 8.2 mmH <sub>2</sub> O).<br>Consult your dealer about the specification when setting External static pressure option. |  | *Above specification data is subject to rounding variation. |