

HYPER-HEATING INVERTER UNITS

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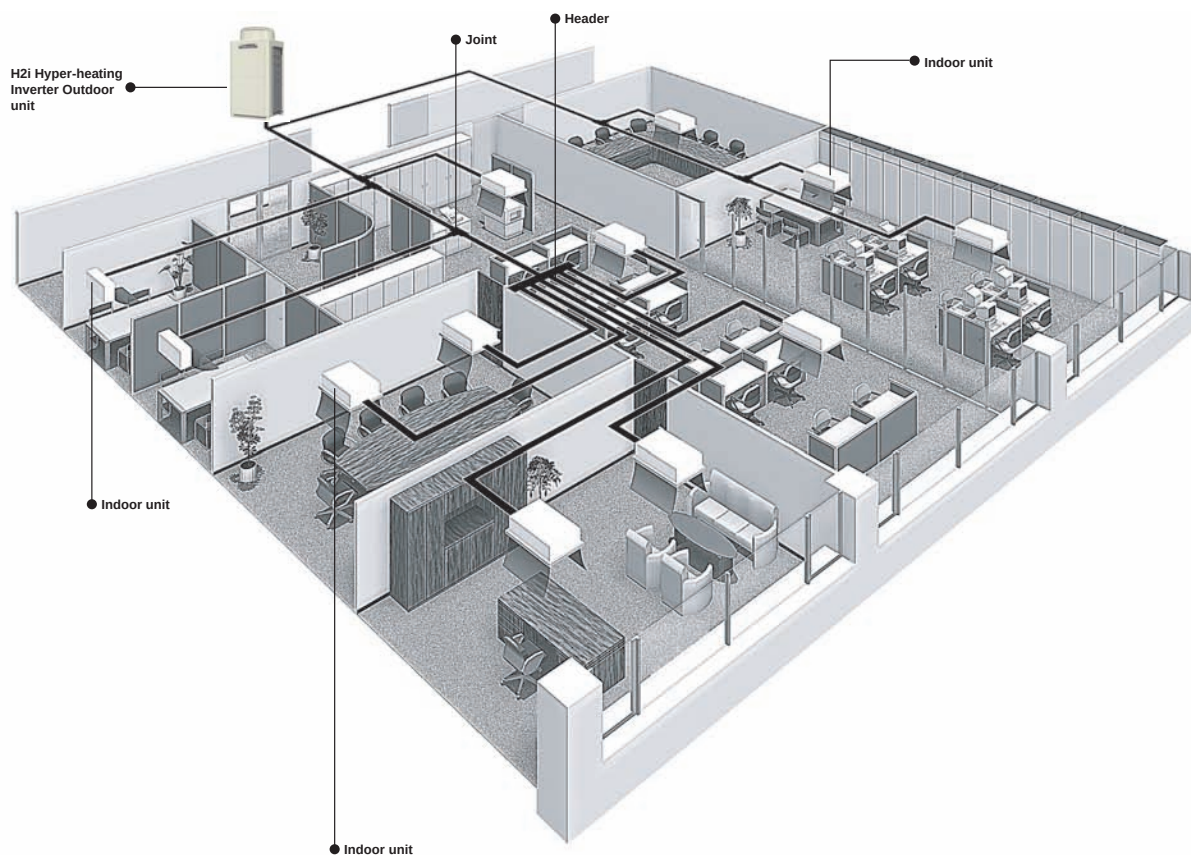
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H2i  
Y-Series

# CITY MULTI® HYPER-HEATING INVERTER OUTDOOR UNITS

# H2i Y-SERIES

H2i  
Y-Series



Heat pump: PUHY-HP-THMU-A (-BS), PUHY-HP-TSHMU-A (-BS)

|                              | PUHY-HP-THMU-A (-BS) |         | PUHY-HP-TSHMU-A (-BS) |         |
|------------------------------|----------------------|---------|-----------------------|---------|
| Model size                   | P72                  | P96     | P144                  | P192    |
| Nominal HP                   | 8HP                  | 10HP    | 16HP                  | 20HP    |
| Nominal cooling cap.*1 BTU/h | 72,000               | 96,000  | 144,000               | 192,000 |
| Nominal heating cap.*2 BTU/h | 80,000               | 108,000 | 160,000               | 216,000 |
| H2i Y-Series                 | ●                    | ●       | ●                     | ●       |

\* Nominal conditions \*1, \*2 are referred to in the Specification sheet.

# 1. SPECIFICATIONS

DATA U3

| Model                                               |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PUHY-HP72THMU-A(-BS)                                                                             |                                              | PUHY-HP96THMU-A(-BS) |  |
|-----------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------|--|
| Power source                                        |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 208-230V +/-10%, 3-phase, 60Hz                                                                   |                                              |                      |  |
| Cooling capacity<br>(Nominal)                       | *1                         | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21.1                                                                                             |                                              | 28.1                 |  |
|                                                     |                            | Btu / h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 72,000                                                                                           |                                              | 96,000               |  |
|                                                     | Power input                | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.90 *3                                                                                          |                                              | 8.73 *3              |  |
|                                                     | Current input              | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 18.2-16.5 *3                                                                                     |                                              | 27.0-24.4 *3         |  |
| Temp. range of<br>cooling                           | Indoor                     | W.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 59 to 75degF(15 to 24degC)                                                                       |                                              |                      |  |
|                                                     | Outdoor                    | D.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23 to 109degF(-5 to 43degC); 32 to 109degFD.B. (0 to 43degCD.B.) Outdoor units below Indoor Unit |                                              |                      |  |
| Heating capacity<br>(Nominal)                       | *2                         | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 23.4                                                                                             |                                              | 31.7                 |  |
|                                                     |                            | Btu / h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80,000                                                                                           |                                              | 108,000              |  |
|                                                     | Power input                | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6.28 *3                                                                                          |                                              | 9.13 *3              |  |
|                                                     | Current input              | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19.4-17.6 *3                                                                                     |                                              | 28.2-25.5 *3         |  |
| Temp. range of<br>heating                           | Indoor temp.               | D.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 59 to 81degF(15 to 27degC)                                                                       |                                              |                      |  |
|                                                     | Outdoor temp.              | W.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -13 to 60degF(-25 to 15.5degC)                                                                   |                                              |                      |  |
| Indoor unit                                         | Total capacity             | 50 to 130 % of outdoor unit capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |                                              |                      |  |
|                                                     | Model / Quantity           | P06 to P72 / 1 to 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  | P06 to P96 / 1 to 16                         |                      |  |
| Sound pressure level<br>(measured in anechoic room) | dB <A>                     | 56.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  | 57.0                                         |                      |  |
|                                                     |                            | 61.0(at outdoor temp -5degF W.B. in heating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  | 62.0(at outdoor temp -5degF W.B. in heating) |                      |  |
| Refrigerant                                         | Liquid pipe                | in.(mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1/2"(12.7) Brazed + Flare                                                                        |                                              |                      |  |
| piping diameter                                     | Gas pipe                   | in.(mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3/4"(19.05) Brazed + Flare                                                                       |                                              | 7/8"(22.22) Brazed   |  |
| External finish                                     |                            | Pre-coated galvanized sheets (+powder coating for -BS type) *4<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                              |                      |  |
| External dimension HxWxD                            | mm                         | 1,650 x 920 x 760                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |                                              |                      |  |
|                                                     |                            | in. 64-31/32" x 36-1/4" x 29-15/16"                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                              |                      |  |
| Net weight                                          | lbs(kg)                    | 486(220)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                              |                      |  |
| Heat exchanger                                      |                            | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |                                              |                      |  |
| Compressor                                          | Type x Quantity            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Inverter scroll hermetic compressor x 1                                                          |                                              |                      |  |
|                                                     | Manufacturer               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                      |                                              |                      |  |
|                                                     | Starting method            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Inverter                                                                                         |                                              |                      |  |
|                                                     | Motor output               | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.3                                                                                              |                                              | 6.7                  |  |
|                                                     | Case heater                | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.057                                                                                            |                                              |                      |  |
|                                                     | Lubricant                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MEL32                                                                                            |                                              |                      |  |
| FAN                                                 | Airflow rate               | m <sup>3</sup> / min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 225                                                                                              |                                              |                      |  |
|                                                     |                            | L/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3,750                                                                                            |                                              |                      |  |
|                                                     |                            | cfm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7,950                                                                                            |                                              |                      |  |
|                                                     | External static pressure   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 in.WG (0 Pa) *5                                                                                |                                              |                      |  |
|                                                     | Type x Quantity            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Propeller fan x 1                                                                                |                                              |                      |  |
|                                                     | Control, Driving mechanism |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Inverter-control, Direct-driven by motor                                                         |                                              |                      |  |
|                                                     | Motor output               | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.92                                                                                             |                                              |                      |  |
| HIC circuit (HIC: Heat Inter-Changer)               |                            | Copper, tube-in-tube structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                                              |                      |  |
| Protection<br>devices                               | High pressure protection   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | High pressure sensor, High pressure switch at 4.15MPa (601 psi)                                  |                                              |                      |  |
|                                                     | Inverter                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Over-heat protection, Over-current protection, Thermal switch                                    |                                              |                      |  |
|                                                     | Compressor / Fan           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Discharge thermo protection, Over-current protection                                             |                                              |                      |  |
| Defrost method                                      |                            | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                                              |                      |  |
| Refrigerant                                         | Type x original charge     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R410A x 19 lbs + 13 oz (9.0kg)                                                                   |                                              |                      |  |
|                                                     | Control                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Indoor LEV and HIC circuit (injection circuit)                                                   |                                              |                      |  |
| Drawing                                             | External                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WKB94L264                                                                                        |                                              |                      |  |
|                                                     | Wiring                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WKE94C183                                                                                        |                                              |                      |  |
|                                                     | Refrigerant cycle          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                |                                              |                      |  |
| Standard<br>attachment                              | Document                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Installation Manual                                                                              |                                              |                      |  |
|                                                     | Accessory                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Details refer to External Drw WKB94L264                                                          |                                              |                      |  |
| Optional parts                                      |                            | Joint: CMY-Y102S/L-G2<br>Header: CMY-Y104/108-G                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                                              |                      |  |
| Remark                                              |                            | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br><br>*3 For details on the electrical data needed for installing these units, see the System Design section, page SD-3 to 6.<br>*4 For information on specifications for -BS treatment, see the System Design section, page SD-34.<br><br>*5 Dip Switch 3-9 and 3-10 adjusts static pressure to 0.12" or 0.24" for ductwork. Field selected. |                                                                                                  |                                              |                      |  |

|        |                                                                                                                                                                                               |                                                                                                                                           |                                                                                                                                                                      |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note : | *1 Nominal cooling conditions                                                                                                                                                                 | *2 Nominal heating conditions                                                                                                             | Unit converter                                                                                                                                                       |
|        | Indoor : 80degF D.B. / 67degF W.B.<br>(26.7degC D.B. / 19.4degC W.B.)<br><br>Outdoor : 95degF D.B.<br>(35degC D.B.)<br><br>Pipe length : 25 ft. (7.6 m)<br><br>Level difference : 0 ft. (0 m) | 70degF D.B.<br>(21.1degC D.B.)<br><br>47degF D.B. / 43degF W.B.<br>(8.3degC D.B. / 6.1degC W.B.)<br><br>25 ft. (7.6 m)<br><br>0 ft. (0 m) | kcal/h = kW x 860<br>BTU/h = kW x 3,412<br>cfm = m <sup>3</sup> /min x 35.31<br>lbs = kg / 0.4536<br><br>*Above specification data is subject to rounding variation. |

\*Due to continuing improvement, above specification may be subject to change without notice.

Ref.: PUHY\_THMU-A\_SPC\_EUDB\_HP72-HP96

PUHY-HP72THMU-A: MCA = 53A, Max. Fuse = 60A.

PUHY-HP96THMU-A: MCA = 71A, Max. Fuse = 75A.

These electrical specifications also apply to the individual units that make up the twinned module sets (PUHY-HP144 and 192TSHMU-A) on p. H2i-4 to 5.

# 1. SPECIFICATIONS

DATA U3

H2i  
Y-Series

| Model                                               |                  | PUHY-HP144TSHMU-A(-BS)                       |                                                                                                     |
|-----------------------------------------------------|------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Power source                                        |                  | 208-230V +/-10%, 3-phase, 60Hz               |                                                                                                     |
| Cooling capacity<br>(Nominal)                       | *1               | kW                                           | 42.2                                                                                                |
|                                                     |                  | Btu / h                                      | 144,000                                                                                             |
|                                                     | Power input      | kW                                           | 12.15 *3                                                                                            |
|                                                     | Current input    | A                                            | 37.5-33.9 *3                                                                                        |
| Temp. range of<br>cooling                           | Indoor           | W.B.                                         | 59 to 75degF(15 to 24degC)                                                                          |
|                                                     | Outdoor          | D.B.                                         | 23 to 109degF(-5 to 43degC); 32 to 109degF(D.B. (0 to 43degC.D.B.)) Outdoor units below Indoor Unit |
| Heating capacity<br>(Nominal)                       | *2               | kW                                           | 46.9                                                                                                |
|                                                     |                  | Btu / h                                      | 160,000                                                                                             |
|                                                     | Power input      | kW                                           | 12.94 *3                                                                                            |
|                                                     | Current input    | A                                            | 40.0-36.1 *3                                                                                        |
| Temp. range of<br>heating                           | Indoor temp.     | D.B.                                         | 59 to 81degF(15 to 27degC)                                                                          |
|                                                     | Outdoor temp.    | W.B.                                         | -13 to 60degF(-25 to 15.5degC)                                                                      |
| Indoor unit                                         | Total capacity   | 50 to 130 % of outdoor unit capacity         |                                                                                                     |
|                                                     | Model / Quantity | P06 to P96 / 1 to 22                         |                                                                                                     |
| Sound pressure level<br>(measured in anechoic room) | dB <A>           | 59.0                                         |                                                                                                     |
|                                                     |                  | 64.0(at outdoor temp -5degF W.B. in heating) |                                                                                                     |
| Refrigerant piping diameter<br>from twinning kit    | Liquid pipe      | in.(mm)                                      | 5/8"(15.88) Brazed                                                                                  |
|                                                     | Gas pipe         | in.(mm)                                      | 1-1/8"(28.58) Brazed                                                                                |

## Set Model

| Model                       |                                       |                      | PUHY-HP72THMU-A(-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | PUHY-HP72THMU-A(-BS)                                                                           |                                |
|-----------------------------|---------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------|--------------------------------|
| External finish             |                                       |                      | Pre-coated galvanized sheets (+ powder coating for -BS type) *4<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | Pre-coated galvanized sheets (+ powder coating for -BS type) *4<br><MUNSELL 5Y 8/1 or similar> |                                |
| External dimension HxWxD    |                                       | mm                   | 1,650 x 920 x 760                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | 1,650 x 920 x 760                                                                              |                                |
|                             |                                       | in.                  | 64-31/32" x 36-1/4" x 29-15/16"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                | 64-31/32" x 36-1/4" x 29-15/16"                                                                |                                |
| Net weight                  |                                       | lbs(kg)              | 486(220)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | 486(220)                                                                                       |                                |
| Heat exchanger              |                                       |                      | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Salt-resistant cross fin & copper tube                                                         |                                |
| Compressor                  | Type x Quantity                       |                      | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | Inverter scroll hermetic compressor x 1                                                        |                                |
|                             | Manufacturer                          |                      | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                    |                                |
|                             | Starting method                       |                      | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | Inverter                                                                                       |                                |
|                             | Motor output                          | kW                   | 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | 5.3                                                                                            |                                |
|                             | Case heater                           | kW                   | 0.057                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 0.057                                                                                          |                                |
|                             | Lubricant                             |                      | MEL32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | MEL32                                                                                          |                                |
| FAN                         | Airflow rate                          | m <sup>3</sup> / min | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | 225                                                                                            |                                |
|                             |                                       | L/s                  | 3,750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 3,750                                                                                          |                                |
|                             |                                       | cfm                  | 7,950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 7,950                                                                                          |                                |
|                             | External static pressure              |                      | 0 in.WG (0 Pa) *5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | 0 in.WG (0 Pa) *5                                                                              |                                |
|                             | Type x Quantity                       |                      | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | Propeller fan x 1                                                                              |                                |
|                             | Control, Driving mechanism            |                      | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | Inverter-control, Direct-driven by motor                                                       |                                |
|                             | Motor output                          | kW                   | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | 0.92                                                                                           |                                |
|                             | HIC circuit (HIC: Heat Inter-Changer) |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Copper, tube-in-tube structure |                                                                                                | Copper, tube-in-tube structure |
| Protection devices          | High pressure protection              |                      | High pressure sensor, High pressure switch at 4.15MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                | High pressure sensor, High pressure switch at 4.15MPa (601 psi)                                |                                |
|                             | Inverter                              |                      | Over-heat protection, Over-current protection, Thermal switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                | Over-heat protection, Over-current protection, Thermal switch                                  |                                |
|                             | Compressor / Fan                      |                      | Discharge thermo protection,Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | Discharge thermo protection,Over-current protection                                            |                                |
| Defrost method              |                                       |                      | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                                |                                |
| Refrigerant                 | Type x original charge                |                      | R410A x 19 lbs + 13 oz (9.0kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | R410A x 19 lbs + 13 oz (9.0kg)                                                                 |                                |
|                             | Control                               |                      | Indoor LEV and HIC circuit (injection circuit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                                |                                |
| Refrigerant piping diameter | Liquid pipe                           | in.(mm)              | 3/8"(9.52)Brazed + Flare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | 3/8"(9.52)Brazed + Flare                                                                       |                                |
|                             | Gas pipe                              | in.(mm)              | 3/4"(19.05)Brazed + Flare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 3/4"(19.05)Brazed + Flare                                                                      |                                |
| Drawing                     | External                              |                      | WKB94L264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                |                                |
|                             | Wiring                                |                      | WKE94C183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                |                                |
|                             | Refregerant cycle                     |                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                                                                                |                                |
| Standard attachment         | Document                              |                      | Installation Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                                                                                                |                                |
|                             | Accessory                             |                      | Details refer to External Drw WKB94L264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                                                                                |                                |
| Optional parts              |                                       |                      | Outdoor Twinning kit: CMY-Y100VBK2 (Required)<br>Joint: CMY-Y102S/L-G2,CMY-Y202-G2<br>Header: CMY-Y104/108/1010-G                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                                                                                |                                |
| Remark                      |                                       |                      | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>*3 Each individual outdoor unit requires a separate electrical connection.<br>For details on the electrical data needed for installing these units, see the System Design section, page SD-3 to 6.<br>*4 For information on specifications for -BS treatment, see the System Design section, page SD-34.<br>*5 Dip Switch 3-9 and 3-10 adjusts static pressure to 0.12" or 0.24" for ductwork. Field selected. |                                |                                                                                                |                                |

|                                                             |  |                                 |                               |                      |
|-------------------------------------------------------------|--|---------------------------------|-------------------------------|----------------------|
| Note :                                                      |  | *1 Nominal cooling conditions   | *2 Nominal heating conditions | Unit convertor       |
| Indoor : 80degF D.B. / 67degF W.B.                          |  | (26.7degC D.B. / 19.4degC W.B.) | 70degF D.B.                   | kcal/h = kW x 860    |
| Outdoor : 95degF D.B.                                       |  | (35degC D.B.)                   | (21.1degC D.B.)               | BTU/h = kW x 3,412   |
| Pipe length : 25 ft. (7.6 m)                                |  |                                 | 47degF D.B. / 43degF W.B.     | cfm = m3/min x 35.31 |
| Level difference : 0 ft. (0 m)                              |  |                                 | (8.3degC D.B. / 6.1degC W.B.) | lbs = kg / 0.4536    |
|                                                             |  |                                 | 25 ft. (7.6 m)                |                      |
|                                                             |  |                                 | 0 ft. (0 m)                   |                      |
| *Above specification data is subject to rounding variation. |  |                                 |                               |                      |

\*Due to continuing improvement, above specification may be subject to change without notice.

PUHY-HP72THMU-A: MCA = 53A, Max. Fuse = 60A.

PUHY-HP96THMU-A: MCA = 71A, Max. Fuse = 75A.

These electrical specifications also apply to the individual units that make up the twinned module sets (PUHY-HP144 and 192TSHMU-A).

Ref.:PUHY\_THMU-A\_SPC\_EUDB\_HP144

# 1. SPECIFICATIONS

DATA U3

H2i  
Y-Series

| Model                                               |                  |               | PUHY-HP192TSHMU-A(-BS)                                                                             |
|-----------------------------------------------------|------------------|---------------|----------------------------------------------------------------------------------------------------|
| Power source                                        |                  |               | 208-230V +/-10%, 3-phase, 60Hz                                                                     |
| Cooling capacity<br>(Nominal)                       | *1               | kW            | 56.3                                                                                               |
|                                                     |                  | Btu / h       | 192,000                                                                                            |
|                                                     | Power input      | kW            | 17.98 *3                                                                                           |
|                                                     |                  | Current input | 55.5-50.2 *3                                                                                       |
| Temp. range of<br>cooling                           | Indoor           | W.B.          | 59 to 75degF(15 to 24degC)                                                                         |
|                                                     | Outdoor          | D.B.          | 23 to 109degF(-5 to 43degC); 32 to 109degF D.B. (0 to 43degC D.B.) Outdoor units below Indoor Unit |
| Heating capacity<br>(Nominal)                       | *2               | kW            | 63.3                                                                                               |
|                                                     |                  | Btu / h       | 216,000                                                                                            |
|                                                     | Power input      | kW            | 18.81 *3                                                                                           |
|                                                     |                  | Current input | 58.1-52.5 *3                                                                                       |
| Temp. range of<br>heating                           | Indoor temp.     | D.B.          | 59 to 81degF(15 to 27degC)                                                                         |
|                                                     | Outdoor temp.    | W.B.          | -13 to 60degF(-25 to 15.5degC)                                                                     |
| Indoor unit                                         | Total capacity   |               | 50 to 130 % of outdoor unit capacity                                                               |
|                                                     | Model / Quantity |               | P06 to P96 / 1 to 24                                                                               |
| Sound pressure level<br>(measured in anechoic room) | dB <A>           |               | 60.0                                                                                               |
|                                                     |                  |               | 65.0(at outdoor temp -5degF W.B. in heating)                                                       |
| Refrigerant piping diameter<br>from twinning kit    | Liquid pipe      | in.(mm)       | 5/8"(15.88) Brazed                                                                                 |
|                                                     | Gas pipe         | in.(mm)       | 1-1/8"(28.58) Brazed                                                                               |

## Set Model

| Model                    |                                       |                      | PUHY-HP96THMU-A(-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | PUHY-HP96THMU-A(-BS)                                                                          |                                |
|--------------------------|---------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|
| External finish          |                                       |                      | Pre-coated galvanized sheets (+powder coating for -BS type) *4<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                | Pre-coated galvanized sheets (+powder coating for -BS type) *4<br><MUNSELL 5Y 8/1 or similar> |                                |
| External dimension HxWxD |                                       | mm                   | 1,650 x 920 x 760                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | 1,650 x 920 x 760                                                                             |                                |
|                          |                                       | in.                  | 64-31/32" x 36-1/4" x 29-15/16"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                | 64-31/32" x 36-1/4" x 29-15/16"                                                               |                                |
| Net weight               |                                       | lbs(kg)              | 486(220)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | 486(220)                                                                                      |                                |
| Heat exchanger           |                                       |                      | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Salt-resistant cross fin & copper tube                                                        |                                |
| Compressor               | Type x Quantity                       |                      | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | Inverter scroll hermetic compressor x 1                                                       |                                |
|                          | Manufacturer                          |                      | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                   |                                |
|                          | Starting method                       |                      | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | Inverter                                                                                      |                                |
|                          | Motor output                          | kW                   | 6.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | 6.7                                                                                           |                                |
|                          | Case heater                           | kW                   | 0.057                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 0.057                                                                                         |                                |
|                          | Lubricant                             |                      | MEL32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | MEL32                                                                                         |                                |
| FAN                      | Airflow rate                          | m <sup>3</sup> / min | 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | 225                                                                                           |                                |
|                          |                                       | L/s                  | 3,750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 3,750                                                                                         |                                |
|                          |                                       | cfm                  | 7,950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 7,950                                                                                         |                                |
|                          | External static pressure              |                      | 0 in.WG (0 Pa) *5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | 0 in.WG (0 Pa) *5                                                                             |                                |
|                          | Type x Quantity                       |                      | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | Propeller fan x 1                                                                             |                                |
|                          | Control, Driving mechanism            |                      | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | Inverter-control, Direct-driven by motor                                                      |                                |
|                          | Motor output                          | kW                   | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | 0.92                                                                                          |                                |
|                          | HIC circuit (HIC: Heat Inter-Changer) |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Copper, tube-in-tube structure |                                                                                               | Copper, tube-in-tube structure |
| Protection devices       | High pressure protection              |                      | High pressure sensor, High pressure switch at 4.15MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                | High pressure sensor, High pressure switch at 4.15MPa (601 psi)                               |                                |
|                          | Inverter                              |                      | Over-heat protection, Over-current protection, Thermal switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                | Over-heat protection, Over-current protection, Thermal switch                                 |                                |
|                          | Compressor / Fan                      |                      | Discharge thermo protection,Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | Discharge thermo protection,Over-current protection                                           |                                |
| Defrost method           |                                       |                      | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                               |                                |
| Refrigerant              | Type x original charge                |                      | R410A x 19 lbs + 13 oz (9.0kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | R410A x 19 lbs + 13 oz (9.0kg)                                                                |                                |
|                          | Control                               |                      | Indoor LEV and HIC circuit (injection circuit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                               |                                |
| Refrigerant              | Liquid pipe                           | in.(mm)              | 3/8"(9.52)Brazed + Flare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | 3/8"(9.52)Brazed + Flare                                                                      |                                |
| piping diameter          | Gas pipe                              | in.(mm)              | 7/8"(22.22)Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | 7/8"(22.22)Brazed                                                                             |                                |
| Drawing                  | External                              |                      | WKB94L264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                               |                                |
|                          | Wiring                                |                      | WKE94C183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                               |                                |
|                          | Refregerant cycle                     |                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                                                                               |                                |
| Standard attachment      | Document                              |                      | Installation Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                                                                                               |                                |
|                          | Accessory                             |                      | Details refer to External Drw WKB94L264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                                                                               |                                |
| Optional parts           |                                       |                      | Outdoor Twinning kit: CMY-Y100VBK2 (Required)<br>Joint: CMY-Y102S/L-G2,CMY-Y202-G2<br>Header: CMY-Y104/108/1010-G                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                                                                               |                                |
| Remark                   |                                       |                      | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>*3 Each individual outdoor unit requires a separate electrical connection.<br>For details on the electrical data needed for installing these units, see the System Design section, page SD-3 to 6.<br>*4 For information on specifications for -BS treatment, see the System Design section, page SD-34.<br>*5 Dip Switch 3-9 and 3-10 adjusts static pressure to 0.12" or 0.24" for ductwork. Field selected. |                                |                                                                                               |                                |

|                                                                                              |  |                                                                       |                                                            |                                                                                      |
|----------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Note :                                                                                       |  | *1 Nominal cooling conditions                                         | *2 Nominal heating conditions                              | Unit convertor                                                                       |
|                                                                                              |  | Indoor : 80degF D.B. / 67degF W.B.<br>(26.7degC D.B. / 19.4degC W.B.) | 70degF D.B.<br>(21.1degC D.B.)                             | kcal/h = kW x 860<br>BTU/h = kW x 3,412<br>cfm = m3/min x 35.31<br>lbs = kg / 0.4536 |
|                                                                                              |  | Outdoor : 95degF D.B.<br>(35degC D.B.)                                | 47degF D.B. / 43degF W.B.<br>(8.3degC D.B. / 6.1degC W.B.) |                                                                                      |
|                                                                                              |  | Pipe length : 25 ft. (7.6 m)                                          | 25 ft. (7.6 m)                                             |                                                                                      |
|                                                                                              |  | Level difference : 0 ft. (0 m)                                        | 0 ft. (0 m)                                                |                                                                                      |
| *Due to continuing improvement, above specification may be subject to change without notice. |  |                                                                       |                                                            |                                                                                      |

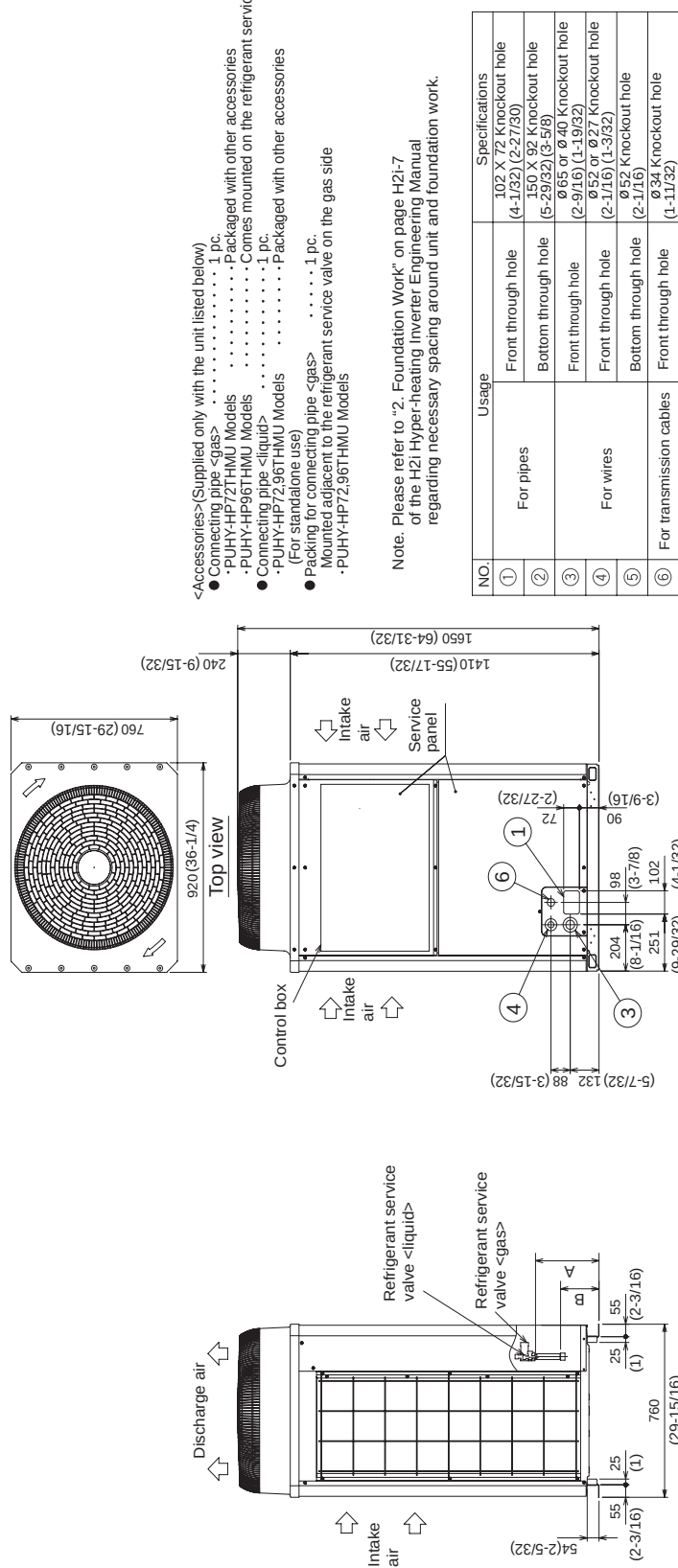
PUHY-HP72THMU-A: MCA = 53A, Max. Fuse = 60A.

PUHY-HP96THMU-A: MCA = 71A, Max. Fuse = 75A.

These electrical specifications also apply to the individual units that make up the twinned module sets (PUHY-HP144 and 192TSHMU-A).

Ref.:PUHY\_THMU-A\_SPC\_EUDB\_HP192

Ref.:PUHY\_THMU-A\_EXD\_USDB\_HP72-HP96\_1  
Unit : mm(in)

H2i  
Y-Series

| Connecting pipe specifications |                                                       |                  |                  |                                                                                                                    |
|--------------------------------|-------------------------------------------------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------|
| Model                          | Position dimensions for the refrigerant service valve |                  |                  | Connection specifications for the refrigerant service valve                                                        |
|                                | A                                                     | B-1              | C                |                                                                                                                    |
| PURH-HP72THMU                  | 290<br>(11-7/16)                                      | 161<br>(6-11/32) | 145<br>(5-23/32) | Liquid<br>Multiple unit Ø9.52 Flare<br>inlet (3/4)                                                                 |
| PURH-HP96THMU                  | 242 (242 3/4)<br>(9-1/2)                              | 165<br>(6-1/2)   | 142<br>(5-19/32) | Liquid<br>Single unit (Ø12.7 Brazed<br>installation) (1 1/2)<br>Ø19.05 Brazed<br>(3/4)<br>Ø19.05 Brazed<br>(1 1/2) |

1 Indicates the dimensions for use with the pipe that is supplied.  
2 Indicates dimensions and connection specifications appropriate to installing the unit as a single unit.

## PUHY-HP72,96THMU-A(-BS)

Ref.:PUHY\_THMU-A\_EXD\_USDB\_HP72-HP96\_2

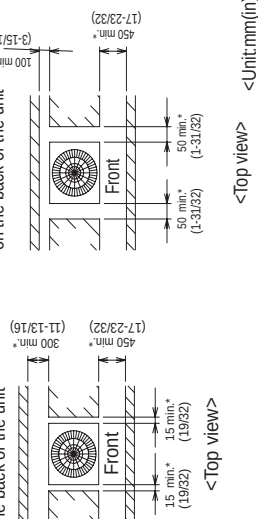
Unit : mm(in)

## 1.Required space around the unit

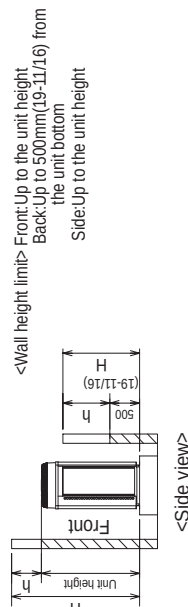
## ● In case of single installation

- Secure enough space around the unit as shown in the figure below.

- With a space of at least 300mm(11-13/16) to the wall on the back of the unit

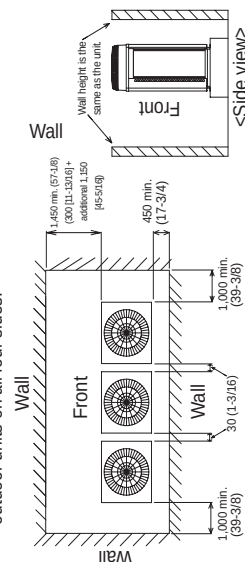


- When the height of the walls on the front,back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



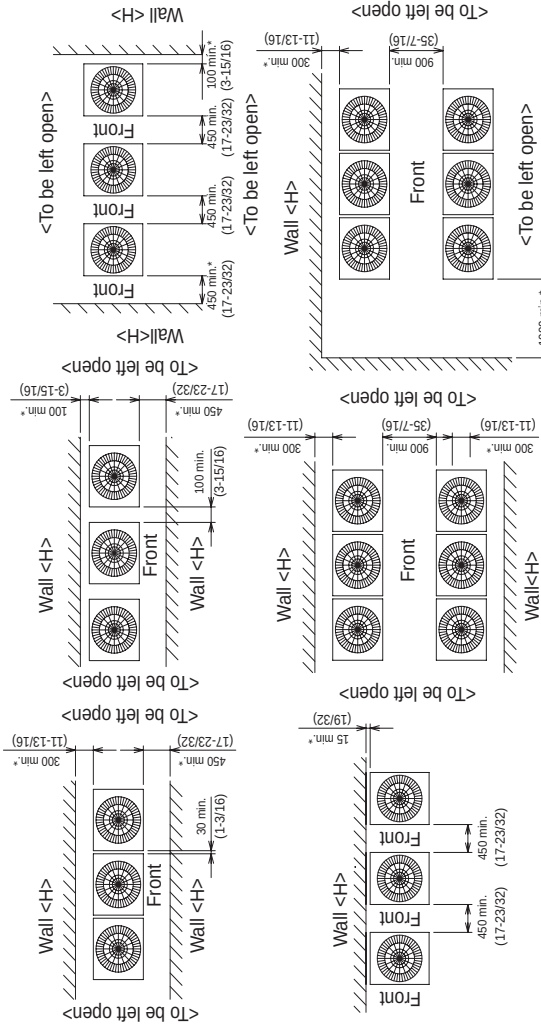
## ● Installation in which an enclosure is built around the outdoor units

- No ceiling; wall height is the same as the height of the outdoor units on all four sides.



## ● In case of collective installation

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



## 2.Foundation work

- Take into consideration the surface strength,water drainage route, piping route,and wiring route when preparing the installation site.  
<Note that the drain water comes out of the unit during operation.>
- Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
- The protrusion length of the anchor bolt must not exceed 30mm(1-3/16). (Fig.A)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.B)
- To prevent small animals and water from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- Refer to the Installation Manual when installing units on an installation base.

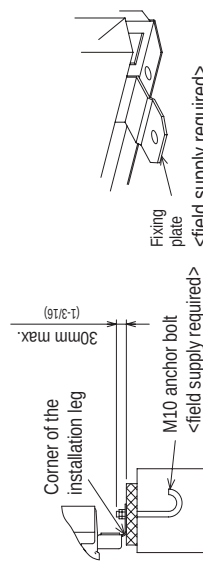


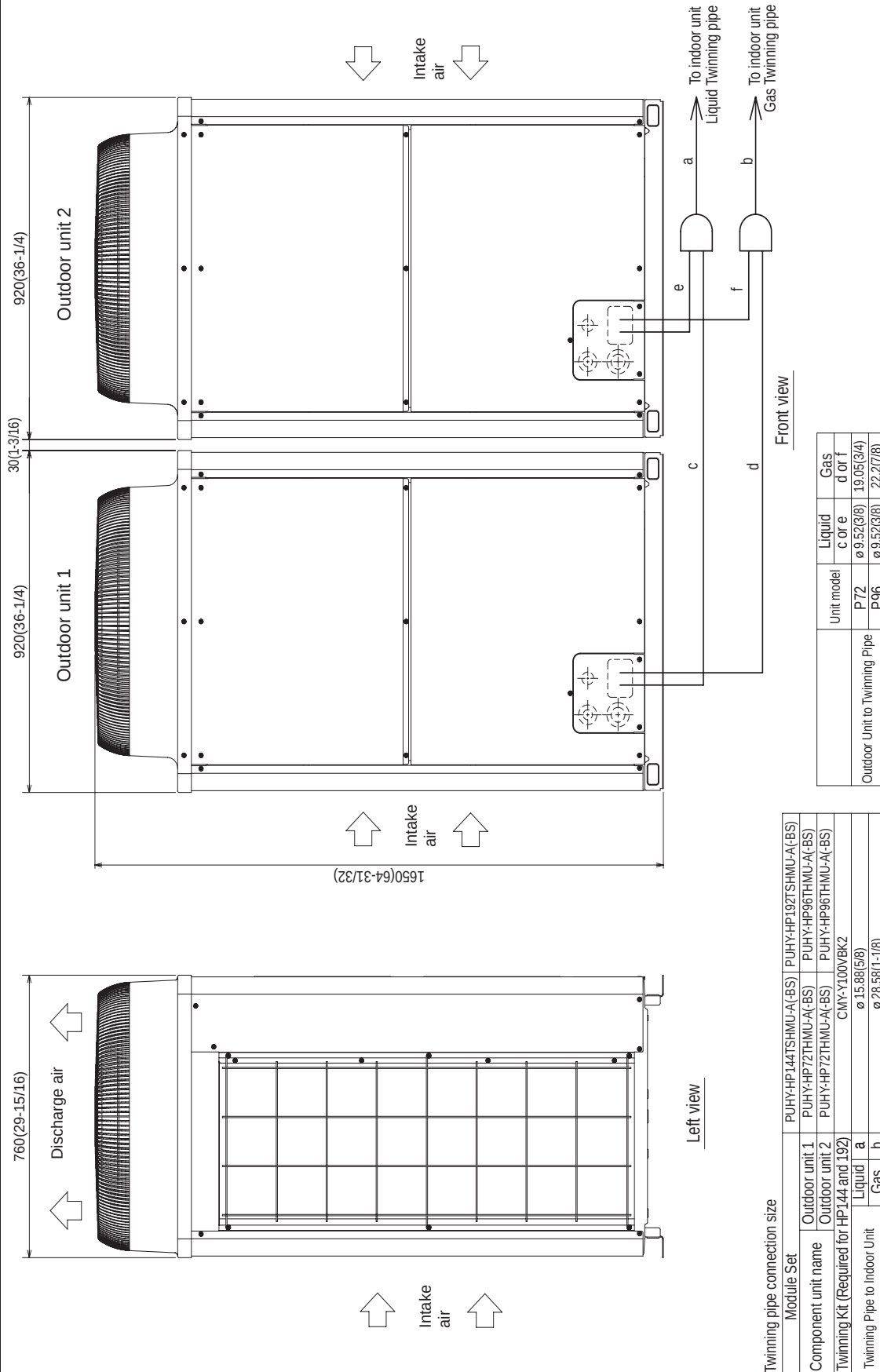
Fig.B (without detachable legs)

Fig.A (without detachable legs)

PUHY-HP144,192TSHMU-A(-BS)

Ref.:PUHY\_TSHMU-A\_EXD\_USDB\_HP144-HP192

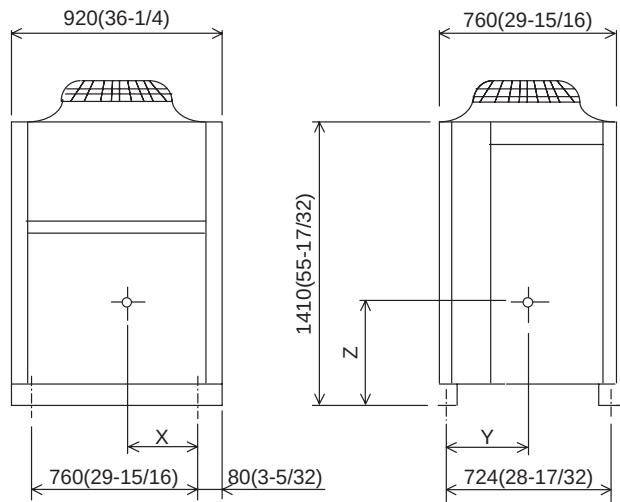
Unit : mm(in)



Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.  
 2. Twinning pipes should not be tilted more than 15 degrees from the ground. See the Installation Manual for details.

PUHY-HP72,96THMU-A

Unit : mm[in.]

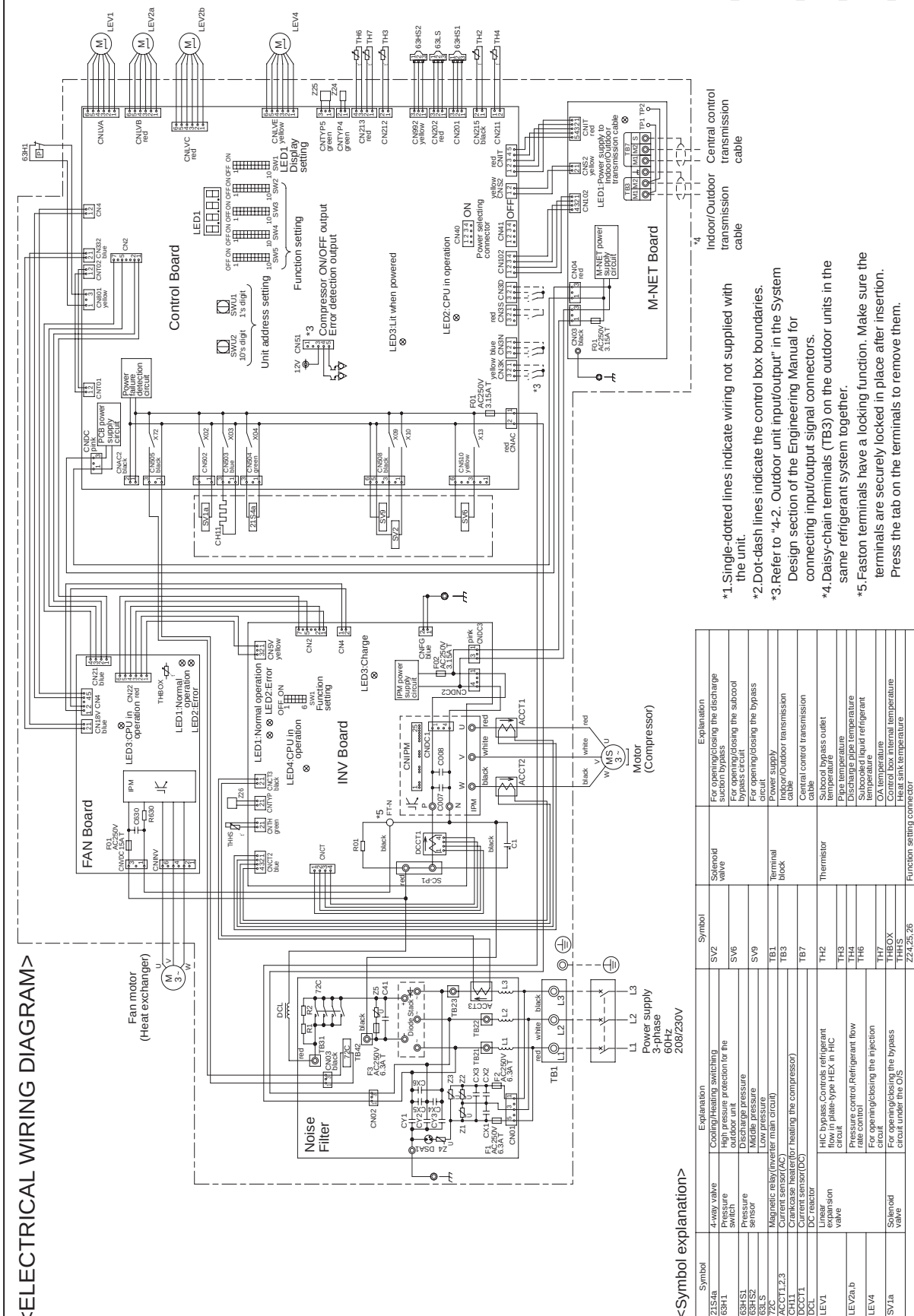


| Model           | X             | Y            | Z             |
|-----------------|---------------|--------------|---------------|
| PUHY-HP72THMU-A | 325(12-13/16) | 307(12-3/32) | 590(23-1/4)   |
| PUHY-HP96THMU-A | 315(12-13/32) | 317(12-1/2)  | 575(22-21/32) |

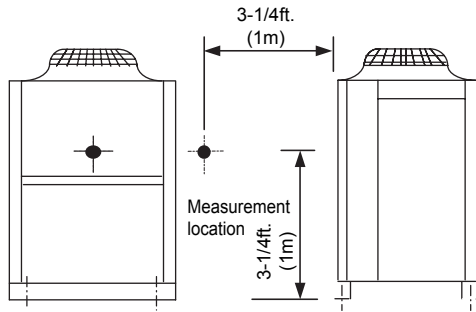
H2i  
Y-Series

Ref. : PUHY\_THMU\_COG\_USDB\_HP

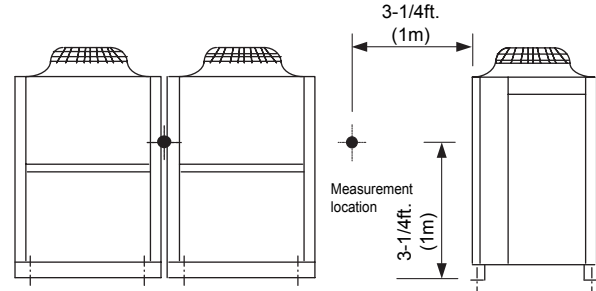
Ref.:PUHY\_THMU-A\_EWD\_USDB\_ALL



**Measurement condition**  
PUHY-HP72,96THMU-A(-BS)

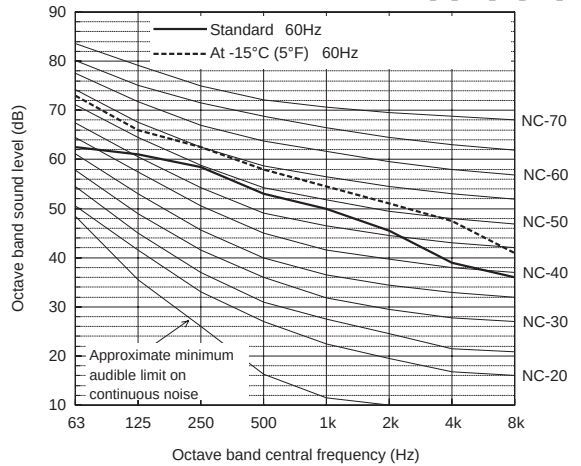


**Measurement condition**  
PUHY-HP144,192TSHMU-A(-BS)



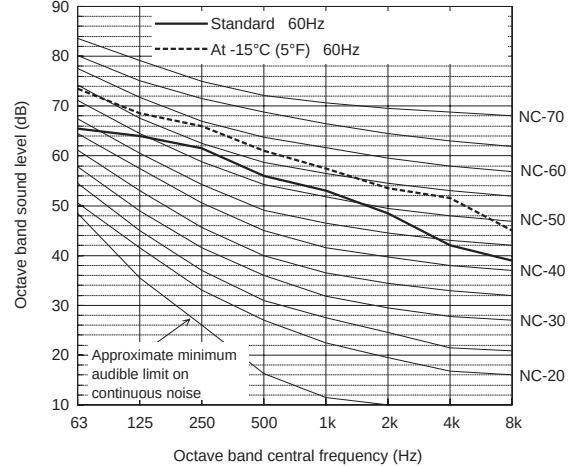
H2i  
Y-Series

**Sound Pressure Level of PUHY-HP72THMU** Ref.:PUHY\_HP\_THMU\_NCC\_USDB\_HP72



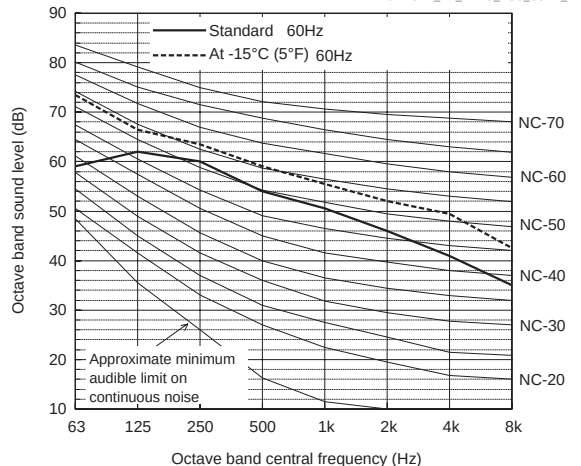
|                |      | 63   | 125  | 250  | 500  | 1k   | 2k   | 4k   | 8k   | dB(A) |
|----------------|------|------|------|------|------|------|------|------|------|-------|
| Standard       | 60Hz | 62.5 | 61.0 | 58.5 | 53.0 | 50.0 | 45.5 | 39.0 | 36.0 | 56.0  |
| At -15°C (5°F) | 60Hz | 73.0 | 66.0 | 62.5 | 58.0 | 54.5 | 51.0 | 47.5 | 41.0 | 61.0  |

**Sound Pressure Level of PUHY-HP144TSHMU** Ref.:PUHY\_HP\_THMU\_NCC\_USDB\_HP144



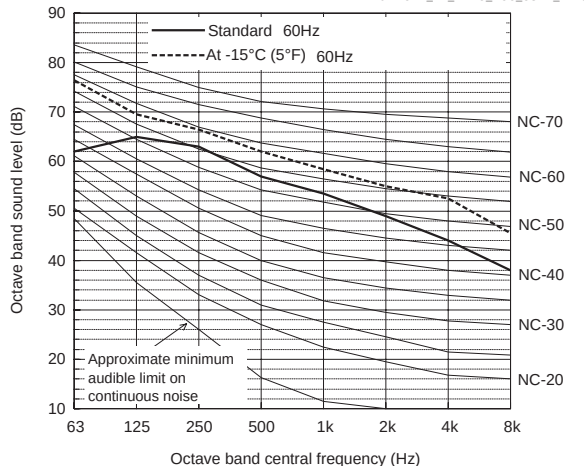
|                |      | 63   | 125  | 250  | 500  | 1k   | 2k   | 4k   | 8k   | dB(A) |
|----------------|------|------|------|------|------|------|------|------|------|-------|
| Standard       | 60Hz | 65.5 | 64.0 | 61.5 | 56.0 | 53.0 | 48.5 | 42.0 | 39.0 | 59.0  |
| At -15°C (5°F) | 60Hz | 73.5 | 68.5 | 66.0 | 61.0 | 57.5 | 53.5 | 51.5 | 45.0 | 64.0  |

**Sound Pressure Level of PUHY-HP96THMU** Ref.:PUHY\_HP\_THMU\_NCC\_USDB\_HP96



|                |      | 63   | 125  | 250  | 500  | 1k   | 2k   | 4k   | 8k   | dB(A) |
|----------------|------|------|------|------|------|------|------|------|------|-------|
| Standard       | 60Hz | 59.0 | 62.0 | 60.0 | 54.0 | 50.5 | 46.0 | 41.0 | 35.0 | 57.0  |
| At -15°C (5°F) | 60Hz | 73.5 | 66.5 | 63.5 | 59.0 | 55.5 | 52.0 | 49.5 | 42.5 | 62.0  |

**Sound Pressure Level of PUHY-HP192TSHMU** Ref.:PUHY\_HP\_THMU\_NCC\_USDB\_HP192

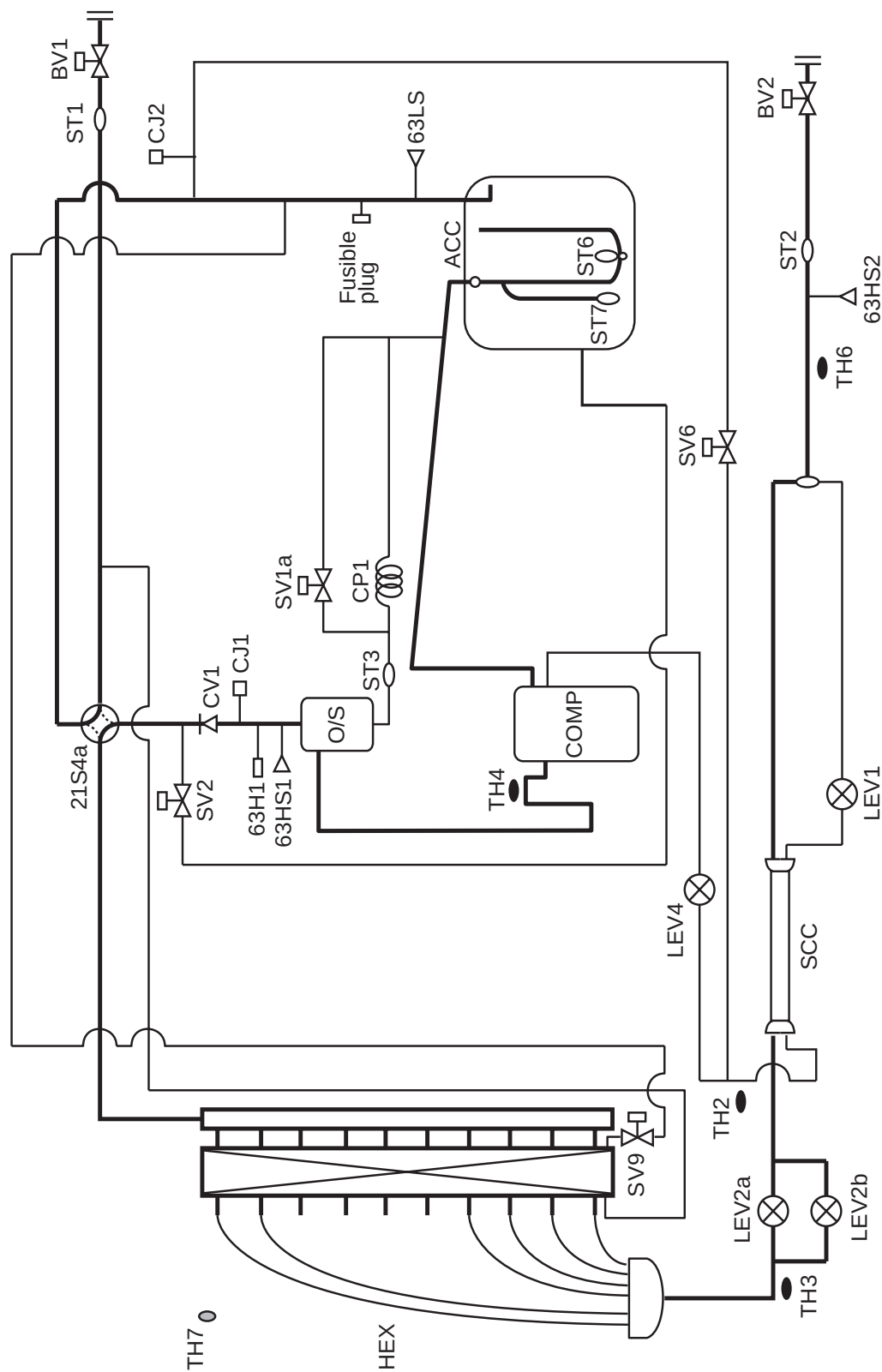


|                |      | 63   | 125  | 250  | 500  | 1k   | 2k   | 4k   | 8k   | dB(A) |
|----------------|------|------|------|------|------|------|------|------|------|-------|
| Standard       | 60Hz | 62.0 | 65.0 | 63.0 | 57.0 | 53.5 | 49.0 | 44.0 | 38.0 | 60.0  |
| At -15°C (5°F) | 60Hz | 76.5 | 69.5 | 66.5 | 62.0 | 58.5 | 55.0 | 52.5 | 45.5 | 65.0  |

H2i  
Y-Series

PUHY-HP72,96THMU-A

Ref.: PUHY\_THMU-A\_RC\_USDB

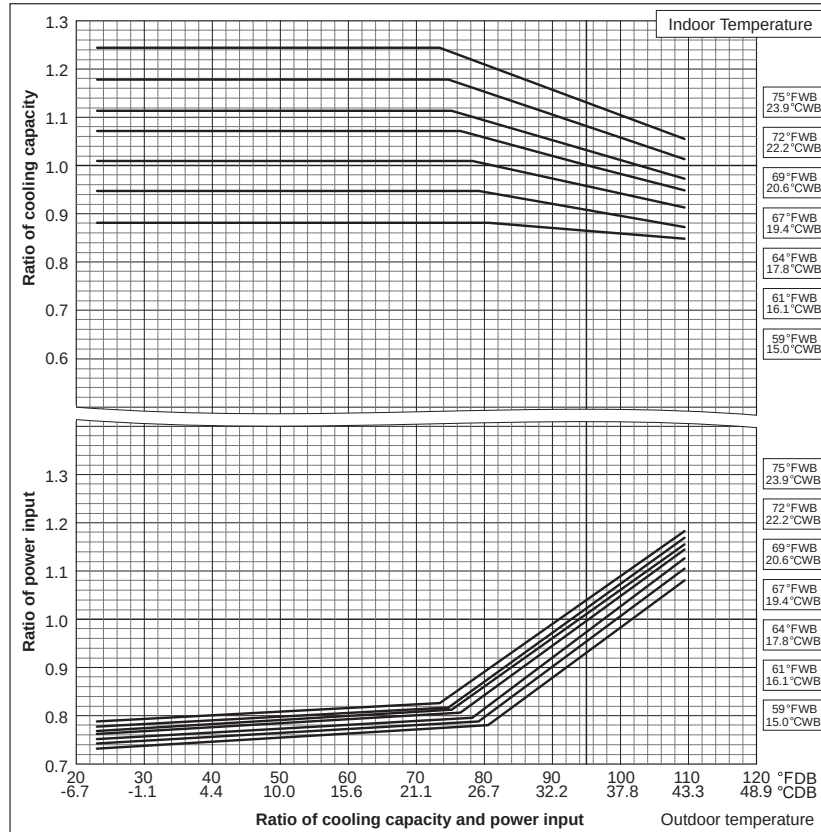


## 7-1. Correction by Temperature

CITY MULTI® has various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

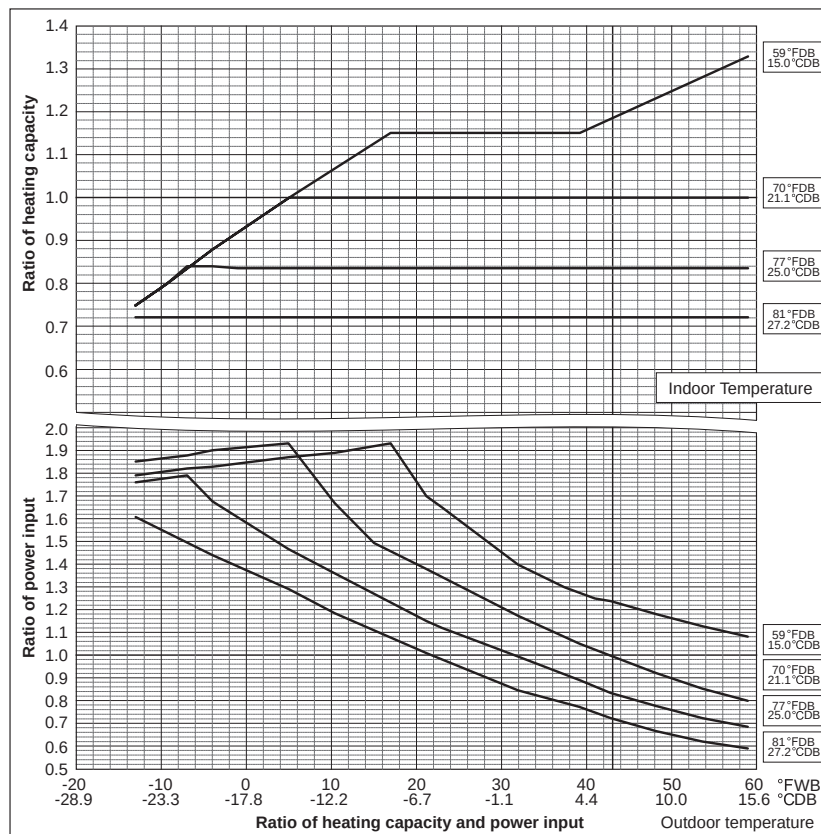
| PUHY-                    |       | HP72THMU | HP96THMU |
|--------------------------|-------|----------|----------|
| Nominal Cooling Capacity | kW    | 21.1     | 28.1     |
|                          | BTU/h | 72,000   | 96,000   |
| Input                    | kW    | 5.90     | 8.73     |

| PUHY-                    |       | HP144TSHMU | HP192TSHMU |
|--------------------------|-------|------------|------------|
| Nominal Cooling Capacity | kW    | 42.2       | 56.3       |
|                          | BTU/h | 144,000    | 192,000    |
| Input                    | kW    | 12.15      | 17.98      |



| PUHY-                    |       | HP72THMU | HP96THMU |
|--------------------------|-------|----------|----------|
| Nominal Heating Capacity | kW    | 23.4     | 31.7     |
|                          | BTU/h | 80,000   | 108,000  |
| Input                    | kW    | 6.28     | 9.13     |

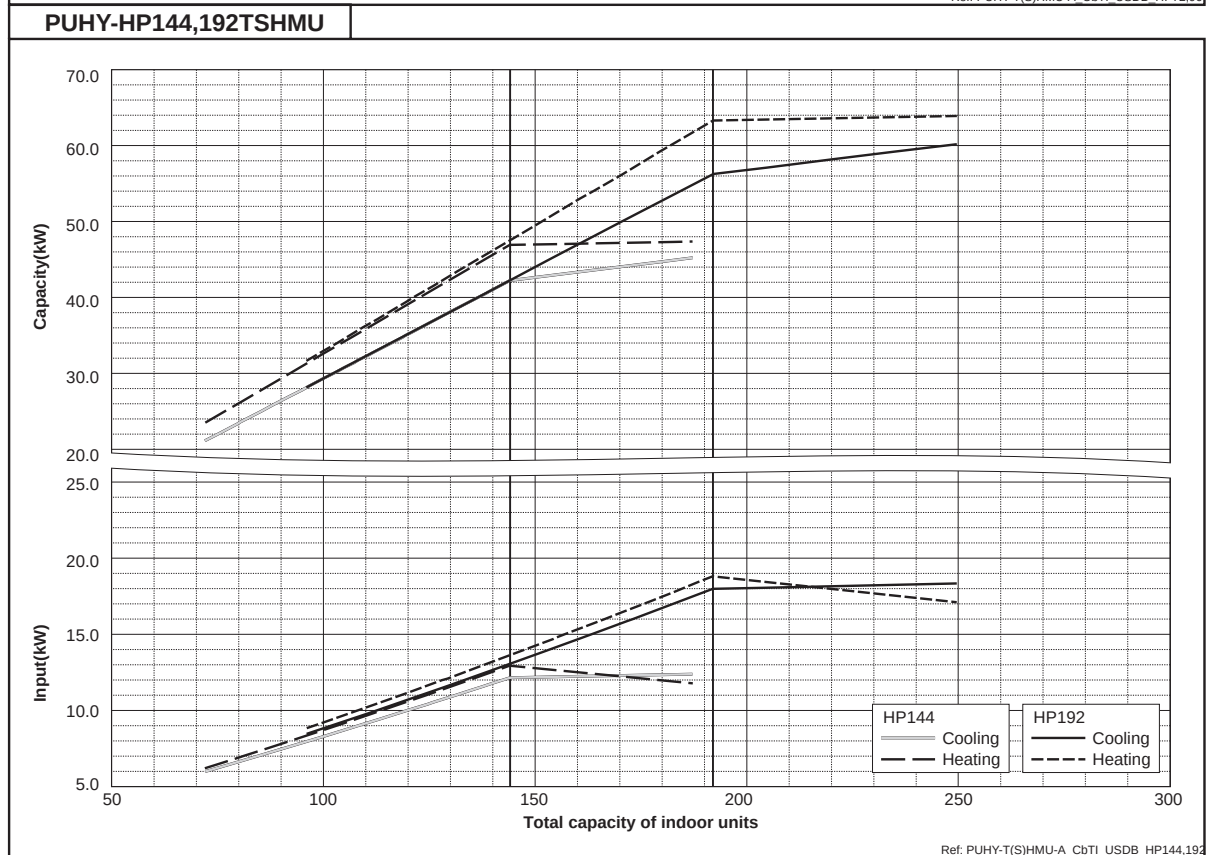
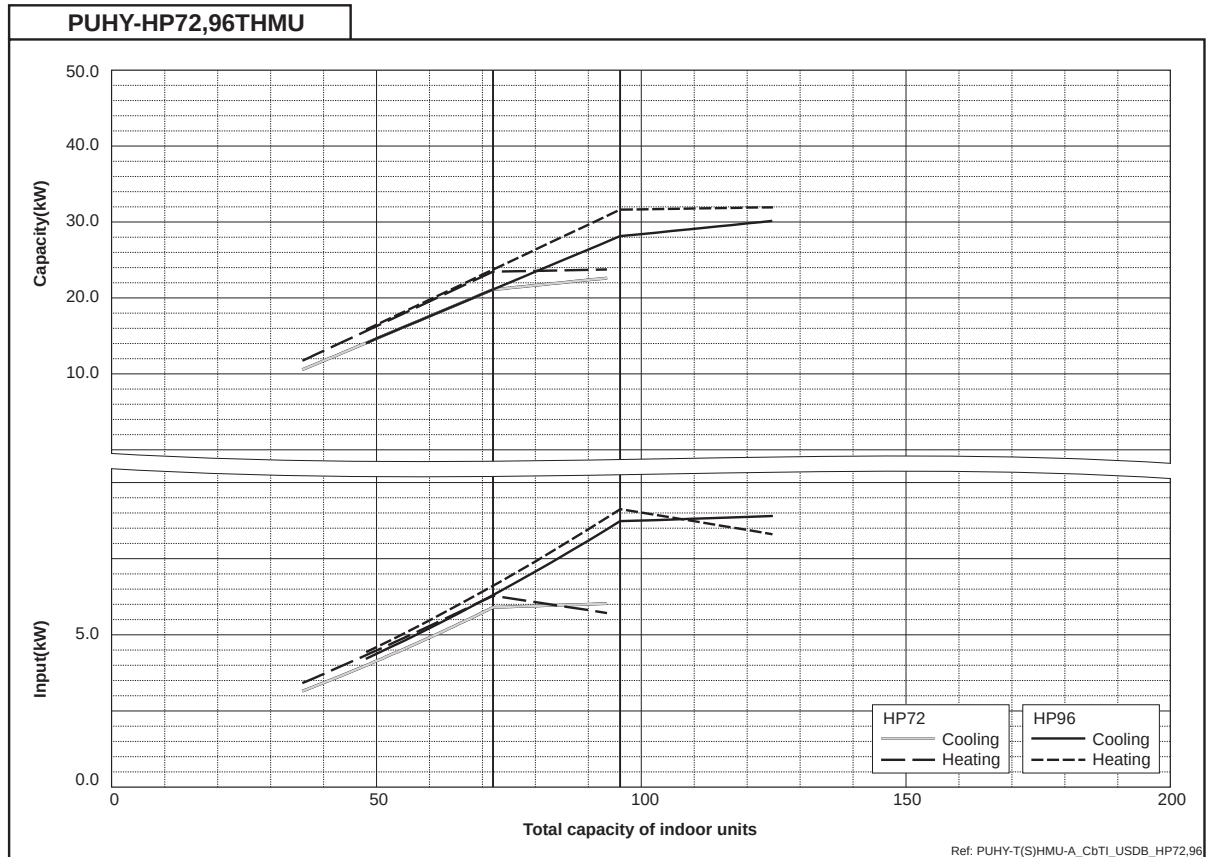
| PUHY-                    |       | HP144TSHMU | HP192TSHMU |
|--------------------------|-------|------------|------------|
| Nominal Heating Capacity | kW    | 46.9       | 63.3       |
|                          | BTU/h | 160,000    | 216,000    |
| Input                    | kW    | 12.94      | 18.81      |



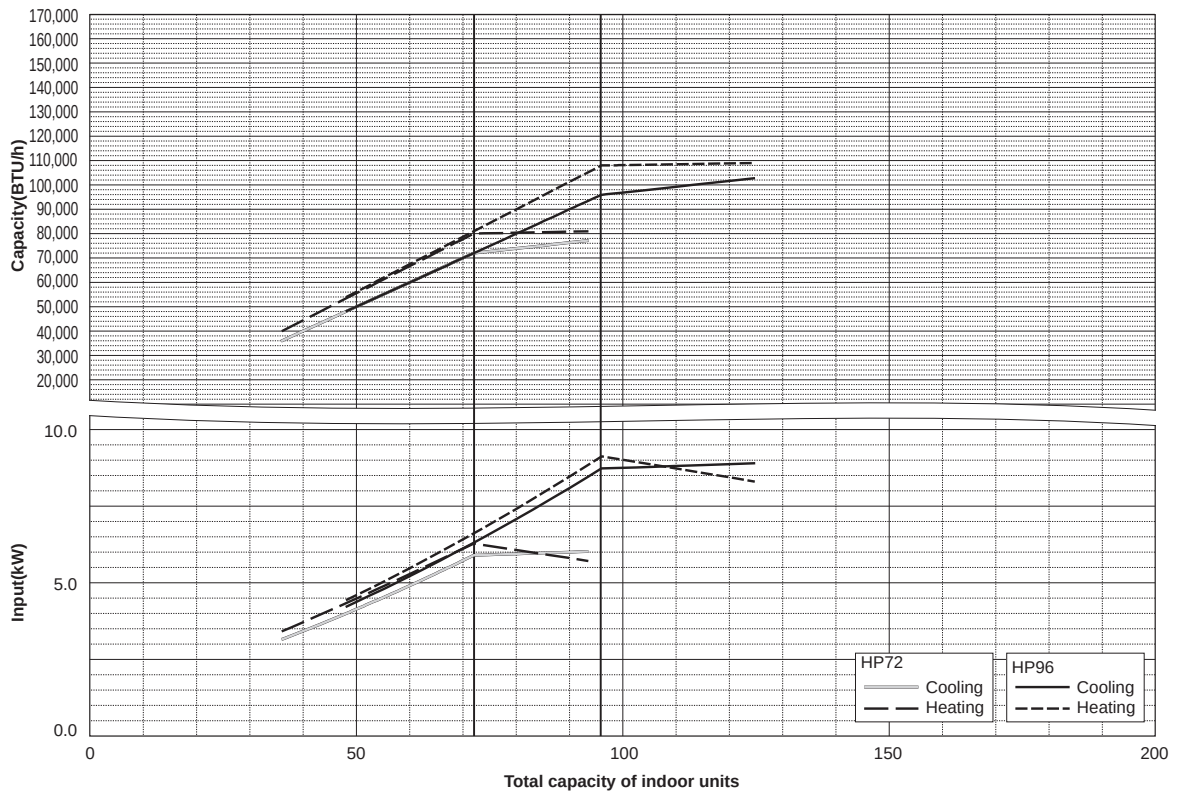
Ref: PUHY\_T(S)H MU-A\_CbT\_USDB-HP72-192

## 7-2. Correction by Total Indoor

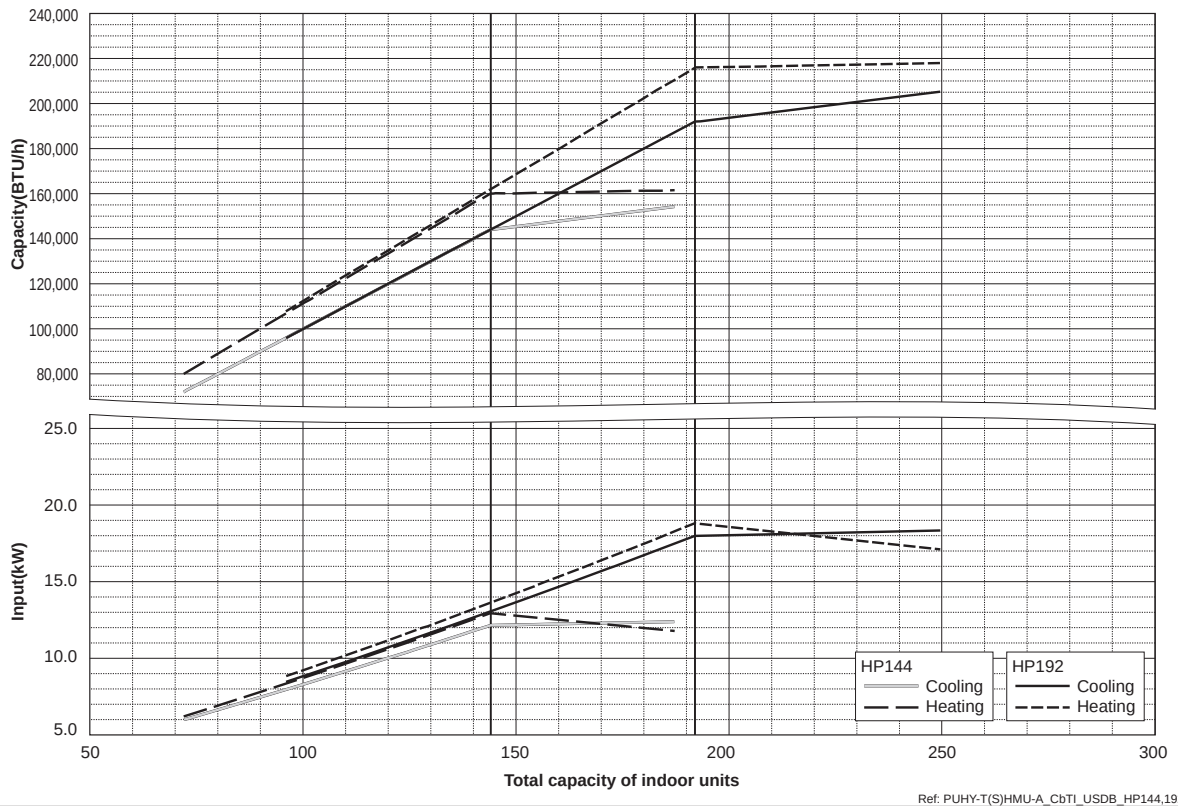
CITY MULTI® system has different capacity and input at different total capacity of indoor units connected. Using the following tables, the maximum capacity can be observed to ensure the system's capacity level.



PUHY-HP72,96THMU



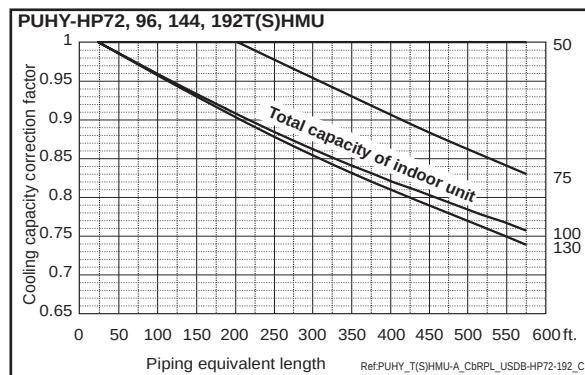
PUHY-HP144,192TSHMU



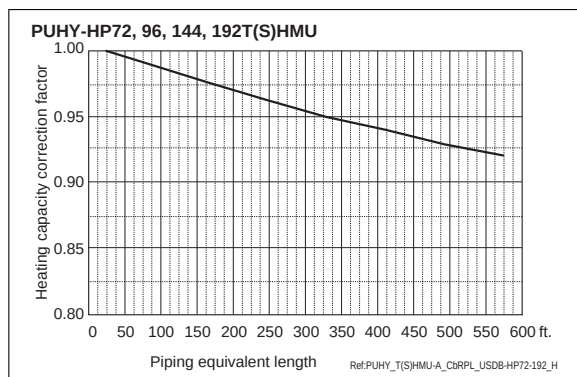
### 7-3. Correction by Refrigerant Piping Length

CITY MULTI® systems can extend the piping flexibly within the limitation for the actual situation, yet, a decrease of cooling/heating capacity could happen correspondingly. Using the following correction factor according to the equivalent piping length shown at 7-3-1 and 7-3-2, the capacity can be observed. 7-3-3 shows how to obtain the equivalent piping length.

#### 7-3-1. Cooling capacity correction



#### 7-3-2. Heating capacity correction



#### 7-3-3. How to obtain the equivalent piping length

##### 1 PUHY-HP72TH MU-A

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bends in the piping) m  
+ (1.15 x number of bends in the piping) ft.

##### 2 PUHY-HP96TH MU-A

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m  
+ (1.38 x number of bends in the piping) ft.

##### 3 PUHY-HP144,192TSH MU-A

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) m  
+ (1.64 x number of bends in the piping) ft.

Ref.: EPL\_T(S)H MU

### 7-4. Correction at Frost and Defrost

Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

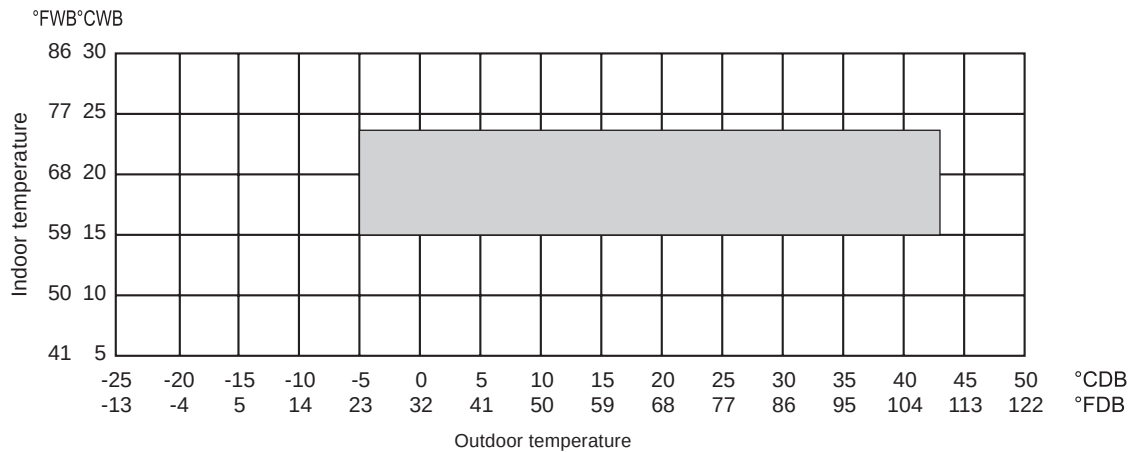
Table of correction factor at frost and defrost

| Outdoor inlet air temp. °CWB | 6    | 4    | 2    | 1    | 0    | -2   | -4   | -6   | -8   | -10  | -25  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Outdoor inlet air temp. °FWB | 43   | 39   | 36   | 34   | 32   | 28   | 25   | 21   | 18   | 14   | -13  |
| PUHY-HP72,96,144,192THMU     | 1.00 | 0.95 | 0.84 | 0.83 | 0.83 | 0.87 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |

Ref.: CaF\_THMU

### 7-5. Operation Temperature Range

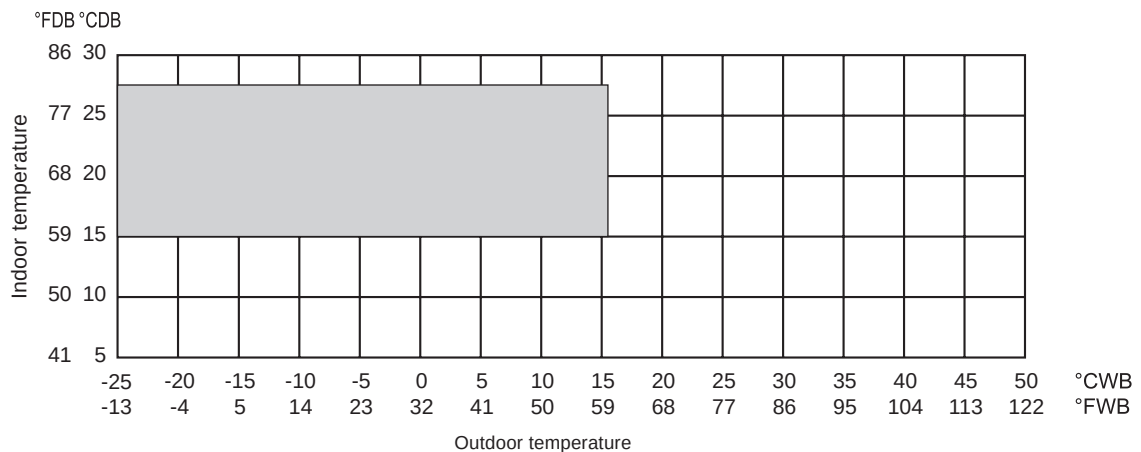
#### • Cooling



\* The operation temperature of the outdoor unit is limited to 0~43°CDB (32~109°FDB) when the outdoor unit is installed in a location that is positioned lower than the indoor units.

\*\* If cooling operation is desired when the H2i Y-Series outdoor air temperature is below 10°C (50°F) and the H2i Y-Series is lower than the indoor units, then the maximum height between the H2i Y-Series outdoor unit and any indoor unit is 4m (13ft). See System Design Section 3-2. This caution applies particularly to situations where less than 35% of the indoor units will be operating in cooling at any one time. Please contact your Mitsubishi Sales Manager if you have any additional questions.

#### • Heating



Ref.: tr-thmu-y

