



# Samsung Underceiling R410 Inverter

AC052 · AC071 · AC100 · AC140 & AC160

- Samsung quality with Inverter efficiency
- 5 Models: AC100 to AC160
- Max. cooling: 17.3kW/max. heating 19.00kW (AC 160 model)
- Airflow rate up to 34 CMM
- Max. piping length indoor to outdoor 75m

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# Samsung Underceiling Range - R410A Inverter

AC052, AC071, AC100, AC120, AC140 & AC160

With its sleek elegant new design, the high-powered Samsung Underceiling range blends in with any décor. Inverter efficiency and an A+ Energy Grade (Cooling) ensures maximum electricity savings. Ideal for boardrooms, conference rooms, hotel lobbies and other commercial applications, an indoor-to-outdoor piping length of up to 75 metres allows for convenient placement of outdoor unit.



## Specifications

| Model Code                                | Indoor                                    | AC052MNC DKH/EU         | AC071MNC DKH/EU         | AC100MNC DKH/EU          | AC100MNC DKH/EU          |
|-------------------------------------------|-------------------------------------------|-------------------------|-------------------------|--------------------------|--------------------------|
|                                           | Outdoor                                   | AC052MXADKH/EU          | AC071MXADKH/EU          | AC100MXADKH/EU           | AC100MXADNH/EU           |
| System                                    | Mode                                      | Heat Pump               | Heat Pump               | Heat Pump                | Heat Pump                |
| Capacity                                  | Cooling (Min / Std / Max) [kW]            | 1.70/5.00/5.60          | 2.20/7.10/8.00          | 3.00/10.00/12.00         | 3.00/10.00/12.00         |
|                                           | Cooling (Min / Std / Max) [Btu/h]         | 5,800 / 17,100 / 19,100 | 7,500 / 24,200 / 27,300 | 10,200 / 34,100 / 40,900 | 10,200 / 34,100 / 40,900 |
|                                           | Heating (Min / Std / Max) [kW]            | 1.70/6.00/7.70          | 1.90/8.00/9.00          | 2.20/11.20/15.50         | 2.20/11.20/15.50         |
|                                           | Heating (Min / Std / Max) [Btu/h]         | 5,800 / 20,500 / 26,300 | 6,500 / 27,300 / 30,700 | 7,500 / 38,200 / 52,900  | 7,500 / 38,200 / 52,900  |
| Power Input (Nominal)                     | Cooling (Min / Std / Max) [kW]            | 0.48/1.64/1.90          | 0.35/2.93/3.95          | 0.60/3.40/4.70           | 0.60/3.40/4.70           |
|                                           | Heating (Min / Std / Max) [kW]            | 0.43/1.78/3.05          | 0.35/2.92/3.95          | 0.46/3.20/5.40           | 0.46/3.20/5.40           |
| Energy Efficiency                         | EER (Nominal Cooling) [W/W]               | 3.05                    | 2.42                    | 2.94                     | 2.94                     |
|                                           | COP (Nominal Heating) [W/W]               | 3.37                    | 2.74                    | 3.50                     | 3.50                     |
|                                           | SEER                                      | 6.10                    | 5.60                    | 5.80                     | 5.80                     |
| Piping Connections                        | Installation Max. Length [m]              | 30                      | 50                      | 50                       | 50                       |
|                                           | Installation Max. Height [m]              | 20                      | 30                      | 30                       | 30                       |
| Refrigerant                               | Type                                      | R410A                   | R410A                   | R410A                    | R410A                    |
| Power Supply [Indoor Unit] [Φ, #, V, Hz]  |                                           | 1Φ, 2, 220-240V, 50Hz   | 1Φ, 2, 220-240V, 50Hz   | 1Φ, 2, 220-240V, 50Hz    | 1Φ, 2, 220-240V, 50Hz    |
| Fan                                       | Air Flow Rate (High / Mid / Low) [CMM]    | 12.6/11.3/10.0          | 15.2/14.1/13.1          | 26.0/23.0/19.0           | 26.0/23.0/19.0           |
| Sound                                     | Sound Pressure (High / Mid / Low) [dB(A)] | 41/39/36                | 46/44/42                | 42/38/34                 | 42/38/34                 |
|                                           | Sound Power (Cooling) [dB(A)]             | 60                      | 64                      | 60                       | 60                       |
| External Dimension (Indoor Unit)          | Net Weight (kg)                           | 20.0                    | 20.0                    | 41.4                     | 41.4                     |
|                                           | Net Dimensions (WxHxD) [mm]               | 1000 x 200 x 650        | 1000 x 200 x 650        | 1650 x 235 x 675         | 1650 x 235 x 675         |
| Power Supply [Outdoor Unit] [Φ, #, V, Hz] |                                           | 1Φ, 2, 220-240V, 50Hz   | 1Φ, 2, 220-240V, 50Hz   | 1Φ, 2, 220-240V, 50Hz    | 3Φ, 4, 380-415V, 50Hz    |
| Fan                                       | Air Flow Rate (Cooling) [CMM]             | 40                      | 51                      | 78                       | 78                       |
| Sound                                     | Sound Pressure (Cooling/Heating) [dB(A)]  | 48/48                   | 49/51                   | 52/54                    | 52/54                    |
|                                           | Sound Power (Cooling) [dB(A)]             | 62                      | 65                      | 69                       | 69                       |
| External Dimension (Outdoor Unit)         | Net Weight (kg)                           | 43.8                    | 53.0                    | 72.0                     | 72.0                     |
|                                           | Net Dimensions (WxHxD) [mm]               | 880 x 638 x 310         | 880 x 798 x 310         | 940 x 998 x 330          | 940 x 998 x 330          |
| Operating Temp. Range                     | Cooling [°C]                              | -15 ~ 50                | -15 ~ 50                | -15 ~ 50                 | -15 ~ 50                 |
|                                           | Heating [°C]                              | -20 ~ 24                | -20 ~ 24                | -20 ~ 24                 | -20 ~ 24                 |

| Model Code                                | Indoor                                    | AC140MNC DKH/EU          | AC140MNC DKH/EU          | AC160JNCDEH/EU       |
|-------------------------------------------|-------------------------------------------|--------------------------|--------------------------|----------------------|
|                                           | Outdoor                                   | AC140MXADKH/EU           | AC140MXADNH/EU           | AC160JXADGH/EU       |
| System                                    | Mode                                      | Heat Pump                | Heat Pump                | Heat Pump            |
| Capacity                                  | Cooling (Min / Std / Max) [kW]            | 3.50/13.40/15.50         | 3.50/13.40/15.50         | 4.30/15.00/17.30     |
|                                           | Cooling (Min / Std / Max) [Btu/h]         | 11,900 / 45,700 / 52,900 | 11,900 / 45,700 / 52,900 | 14,700/51,200/59,000 |
|                                           | Heating (Min / Std / Max) [kW]            | 3.50/15.50/18.00         | 3.50/15.50/18.00         | 4.70/17.50/19.00     |
|                                           | Heating (Min / Std / Max) [Btu/h]         | 11,900 / 52,900 / 61,400 | 11,900 / 52,900 / 61,400 | 16,000/59,700/64,800 |
| Power Input (Nominal)                     | Cooling (Min / Std / Max) [kW]            | 0.80/4.45/6.44           | 0.80/4.45/7.90           | 0.90/5.28/6.40       |
|                                           | Heating (Min / Std / Max) [kW]            | 0.70/4.54/7.36           | 0.70/4.54/7.90           | 0.80/4.86/6.50       |
| Energy Efficiency                         | EER (Nominal Cooling) [W/W]               | 3.01                     | 3.01                     | 2.84                 |
|                                           | COP (Nominal Heating) [W/W]               | 3.41                     | 3.41                     | 3.60                 |
|                                           | SEER                                      | 3.00                     | 3.00                     | -                    |
| Piping Connections                        | Installation Max. Length [m]              | 75                       | 75                       | 75                   |
|                                           | Installation Max. Height [m]              | 30                       | 30                       | 30.0                 |
| Refrigerant                               | Type                                      | R410A                    | R410A                    | R410A                |
| Power Supply [Indoor Unit] [Φ, #, V, Hz]  |                                           | 1Φ, 2, 220-240V, 50Hz    | 1Φ, 2, 220-240V, 50Hz    | 1,2,220-240,50       |
| Fan                                       | Air Flow Rate (High / Mid / Low) [CMM]    | 34.0/27.0/23.0           | 34.0/27.0/23.0           | 37.00/31.00/26.00    |
| Sound                                     | Sound Pressure (High / Mid / Low) [dB(A)] | 46/42/38                 | 46/42/38                 | 51.0 / 47.0 / 44.0   |
|                                           | Sound Power (Cooling) [dB(A)]             | 64                       | 64                       | 68.0                 |
| External Dimension (Indoor Unit)          | Net Weight (kg)                           | 41.4                     | 41.4                     | 42.00                |
|                                           | Net Dimensions (WxHxD) [mm]               | 1650 x 235 x 675         | 1650 x 235 x 675         | 1650 x 675 x 235     |
| Power Supply [Outdoor Unit] [Φ, #, V, Hz] |                                           | 1Φ, 2, 220-240V, 50Hz    | 3Φ, 4, 380-415V, 50Hz    | 3,4,380-415,50       |
| Fan                                       | Air Flow Rate (Cooling) [CMM]             | 111                      | 111                      | 115.00               |
| Sound                                     | Sound Pressure (Cooling/Heating) [dB(A)]  | 53/54                    | 53/54                    | 56.0 / 58.0          |
|                                           | Sound Power (Cooling) [dB(A)]             | 69                       | 69                       | 73.0                 |
| External Dimension (Outdoor Unit)         | Net Weight (kg)                           | 87.0                     | 87.0                     | 96.00                |
|                                           | Net Dimensions (WxHxD) [mm]               | 940 x 1210 x 330         | 940 x 1210 x 330         | 940 x 1420 x 330     |
| Operating Temp. Range                     | Cooling [°C]                              | -15 ~ 50                 | -15 ~ 50                 | -15~50               |
|                                           | Heating [°C]                              | -20 ~ 24                 | -20 ~ 24                 | -20~24               |

Due to Samsung's policy of constant improvement, specifications are subject to change without notice. E&OE.

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