



# Samsung MSP Duct S Inverter Range

9 cooling/heating models from ACO35 to ACO160

- Cooling from 0.98Kw to 16.12kW; heating from 0.99kW to 19.34kW
- Samsung's Smart Digital Inverter saves both energy and money
- Air flow rates from 5.8 CMM up to 49 CMM
- Compact dimensions of internal unit ensure easy fitment
- Max pipe length to outdoor unit 20m to 50m (model-dependent)
- EER up to 10.63 (model dependent)
- Backed nationwide by Fourways Group South Africa

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**SAMSUNG**

## 9 cooling/heating models from ACO35 to ACO160

| Type               |                         | Duct S              | Duct S              | Duct S              | Duct S              | Duct S               | Duct S               | Duct S               | Duct S               | Duct S               | Duct S               | Duct S               |
|--------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Model Name         |                         | Indoor Unit         | AC035JNIDEH         | AC052JNIDEH         | AC071JNIDEH         | AC080JNIDEH          | AC100JNIDEH          | AC100JNIDEH          | AC100JNIDEH          | AC120JNIDEH          | AC140JNIDEH          | AC160JNIDEH          |
| Outdoor Unit       |                         | AC035JXNIDEH        | AC052JXNIDEH        | AC071JXNIDEH        | AC080JXNIDEH        | AC100JXNIDEH         | AC100JXNIDEH         | AC100JXNIDEH         | AC100JXNIDEH         | AC120JXNIDEH         | AC140JXNIDEH         | AC160JXNIDEH         |
| Mode               |                         | -                   | Heat Pump           | Heat Pump           | Heat Pump           | Heat Pump            | Heat Pump            | Heat Pump            | Heat Pump            | Heat Pump            | Heat Pump            | Heat Pump            |
| Capacity           | Cooling(Min/St/Max)     | kW                  | 0.98/3.50/4.10      | 1.46/4.98/5.27      | 1.84/7.18/7.62      | 2.93/8.79/9.96       | 3.02/10.26/10.84     | 3.02/10.26/10.84     | 3.02/10.26/10.84     | 2.93/12.31/12.46     | 3.19/13.77/13.92     | 3.22/15.63/16.12     |
|                    | Btu/h                   |                     | 3,300/12,000/14,000 | 5,000/17,000/18,000 | 6,300/24,500/26,000 | 10,000/30,000/34,000 | 10,300/35,000/37,000 | 10,300/35,000/37,000 | 10,300/35,000/37,000 | 10,000/42,000/42,500 | 10,900/47,000/47,500 | 11,000/54,000/55,000 |
|                    | Heating(Min/St/Max)     | kW                  | 0.99/3.98/4.98      | 0.73/4.98/6.45      | 1.67/7.18/8.00      | 1.29/9.23/10.26      | 2.17/10.26/11.58     | 2.17/10.26/11.58     | 2.17/10.26/11.58     | 3.81/13.48/16.41     | 3.52/14.07/18.46     | 2.34/15.63/19.34     |
|                    | Btu/h                   |                     | 3,400/13,600/17,000 | 2,500/17,000/22,000 | 5,700/24,500/27,300 | 4,400/31,500/35,000  | 7,400/35,000/39,500  | 7,400/35,000/39,500  | 7,400/35,000/39,500  | 13,000/46,000/56,000 | 12,000/48,000/63,000 | 8,000/54,000/66,000  |
| Power              | Power Input (Normal)    | Cooling(Min/St/Max) | 0.33/1.15/1.35      | 0.35/1.60/1.70      | 0.47/2.50/3.23      | 0.90/3.37/4.60       | 0.80/3.05/4.90       | 0.80/3.05/4.90       | 0.80/3.05/4.90       | 1.05/4.74/5.90       | 1.30/5.50/6.50       | 1.08/6.07/6.35       |
|                    | Current (Normal)        | Heating(Min/St/Max) | 0.24/1.18/1.50      | 0.25/1.23/2.20      | 0.31/1.95/2.90      | 0.65/2.80/4.20       | 0.50/2.90/4.43       | 0.50/2.90/4.43       | 0.50/2.90/4.43       | 0.88/4.40/7.30       | 0.90/4.62/7.50       | 0.88/5.16/6.94       |
|                    | Input (Normal)          | Cooling(Min/St/Max) | 2.10/5.30/6.20      | 2.20/7.30/8.00      | 2.80/11.80/14.10    | 4.70/15.00/20.00     | 2.50/16.10/9.70      | 2.50/16.10/9.70      | 2.50/16.10/9.70      | 2.10/8.00/9.20       | 2.90/9.00/10.00      | 2.80/9.70/10.00      |
|                    | Heating(Min/St/Max)     | A                   | 1.60/5.40/6.80      | 1.60/5.60/9.00      | 1.90/8.70/12.60     | 3.70/12.50/18.00     | 1.60/4.70/8.00       | 1.60/4.70/8.00       | 1.60/4.70/8.00       | 1.80/7.00/12.00      | 2.00/7.20/12.20      | 1.80/8.00/12.70      |
|                    | MCA                     |                     | A                   | 10.00               | 12.70               | 22.70                | 24.70                | 14.70                | 24.70                | 14.70                | 14.70                | 15.50                |
| Energy Efficiency  | EER                     | A                   | 11.00               | 13.97               | 25.00               | 27.50                | 16.20                | 27.50                | 16.20                | 16.20                | 16.20                | 17.10                |
|                    | EEER (Nominal Cooling)  | (Btu/h)/W           | 10.63               | 10.63               | 9.80                | 8.90                 | 9.10                 | 8.97                 | 8.86                 | 8.87                 | 8.87                 | 8.90                 |
|                    | COP (Nominal Heating)   | (Btu/h)/W           | 11.52               | 13.82               | 12.56               | 11.25                | 12.07                | 10.94                | 10.45                | 10.39                | 10.39                | 10.47                |
|                    | Liquid Pipe             | Ø mm                | 6.35                | 6.35                | 6.35                | 9.52                 | 9.52                 | 9.52                 | 9.52                 | 9.52                 | 9.52                 | 9.52                 |
|                    | Ø inch                  | 1/4"                | 1/4"                | 1/4"                | 1/4"                | 3/8"                 | 3/8"                 | 3/8"                 | 3/8"                 | 3/8"                 | 3/8"                 | 3/8"                 |
| Piping Connections | Gas Pipe                | Ø mm                | 9.52                | 12.70               | 15.88               | 15.88                | 15.88                | 15.88                | 15.88                | 15.88                | 15.88                | 19.05                |
|                    | Ø inch                  | 3/8"                | 3/8"                | 1/2"                | 5/8"                | 5/8"                 | 5/8"                 | 5/8"                 | 5/8"                 | 5/8"                 | 5/8"                 | 3/4"                 |
|                    | Installation Limitation | Max. Length         | m                   | 20                  | 30                  | 30                   | 50                   | 50                   | 50                   | 50                   | 50                   | 50                   |
| Refrigerant        | Max. Height             | m                   | 15                  | 15                  | 15                  | 30                   | 30                   | 30                   | 30                   | 30                   | 30                   | 30                   |
|                    | Type                    | -                   | R410A               | R410A               | R410A               | R410A                | R410A                | R410A                | R410A                | R410A                | R410A                | R410A                |
| Power Supply       | Factory Charging        | kg                  | 0.90                | 1.00                | 1.30                | 2.50                 | 2.50                 | 2.50                 | 2.20                 | 2.20                 | 2.20                 | 3.50                 |
|                    | Ø # V. Hz               | 1.2/220-240/50      | 1.2/220-240/50      | 1.2/220-240/50      | 1.2/220-240/50      | 1.2/220-240/50       | 1.2/220-240/50       | 1.2/220-240/50       | 1.2/220-240/50       | 1.2/220-240/50       | 1.2/220-240/50       | 1.2/220-240/50       |
|                    | CM/M                    | 9.20/7.40/5.80      | 18.70/16.50/14.00   | 23.20/20.00/17.00   | 29.00/26.00/22.00   | 33.00/27.00/22.00    | 33.00/27.00/22.00    | 33.00/27.00/22.00    | 33.00/27.00/22.00    | 38.00/32.00/25.0     |                      |                      |

\* Specifications may be subject to change without prior notice.

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