

## Cooling mode:

(\*)If  $C_{dc}$  is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Heating mode:

| Information requirements for heat pumps                                                                                                                                                                                                       |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|----------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(s):MV8-400WV2RN1E(PRO)                                                                                                                                                                                                                  |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Test matching indoor units form, cassette: MIH45Q4N18×2+MIH80Q4N18×4                                                                                                                                                                          |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Outdoor side heat exchanger of air conditioner: air                                                                                                                                                                                           |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Indoor side heat exchanger of air conditioner: air                                                                                                                                                                                            |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| If the heater is equipped with a supplementary heater: no                                                                                                                                                                                     |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Driver of compressor: electric motor                                                                                                                                                                                                          |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.                                                                                                               |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Item                                                                                                                                                                                                                                          | Symbol               | Value | Unit                             |  | Item                                                                                                                                                 | Symbol           | Value | Unit |
| Rated heating capacity                                                                                                                                                                                                                        | P <sub>rated,h</sub> | 40.00 | kW                               |  | Seasonal space heating energy efficiency                                                                                                             | η <sub>s,h</sub> | 161.8 | %    |
| Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T <sub>j</sub>                                                                                                                                    |                      |       |                                  |  | Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> =-7°C                                                                                                                                                                                                                          | P <sub>dh</sub>      | 19.45 | kW                               |  | T <sub>j</sub> =-7°C                                                                                                                                 | COP <sub>d</sub> | 253   | %    |
| T <sub>j</sub> =+2°C                                                                                                                                                                                                                          | P <sub>dh</sub>      | 11.84 | kW                               |  | T <sub>j</sub> =+2°C                                                                                                                                 | COP <sub>d</sub> | 383   | %    |
| T <sub>j</sub> =+7°C                                                                                                                                                                                                                          | P <sub>dh</sub>      | 7.80  | kW                               |  | T <sub>j</sub> =+7°C                                                                                                                                 | COP <sub>d</sub> | 616   | %    |
| T <sub>j</sub> =+12°C                                                                                                                                                                                                                         | P <sub>dh</sub>      | 7.99  | kW                               |  | T <sub>j</sub> =+12°C                                                                                                                                | COP <sub>d</sub> | 785   | %    |
| T <sub>biv</sub> =bivalent temperature                                                                                                                                                                                                        | P <sub>dh</sub>      | 21.99 | kW                               |  | T <sub>biv</sub> =bivalent temperature                                                                                                               | COP <sub>d</sub> | 195   | %    |
| T <sub>OL</sub> =operation temperature                                                                                                                                                                                                        | P <sub>dh</sub>      | 21.99 | kW                               |  | T <sub>OL</sub> =operation temperature                                                                                                               | COP <sub>d</sub> | 195   | %    |
| Bivalent temperature                                                                                                                                                                                                                          | T <sub>biv</sub>     | -10   | °C                               |  |                                                                                                                                                      |                  |       |      |
|                                                                                                                                                                                                                                               |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Degradation co-efficient for heat pumps(**)                                                                                                                                                                                                   | C <sub>dh</sub>      | 0.25  | --                               |  |                                                                                                                                                      |                  |       |      |
| Power consumption in modes other than "active mode"                                                                                                                                                                                           |                      |       |                                  |  | Supplementary heater                                                                                                                                 |                  |       |      |
| Off mode                                                                                                                                                                                                                                      | P <sub>OFF</sub>     | 0.005 | kW                               |  | Back-up heating capacity(*)                                                                                                                          | el <sub>bu</sub> | 0     | kW   |
| Thermosat-off mode                                                                                                                                                                                                                            | P <sub>TO</sub>      | 0.005 | kW                               |  | Type of energy input                                                                                                                                 |                  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                         | P <sub>CK</sub>      | 0.05  | kW                               |  | Standby mode                                                                                                                                         | P <sub>SB</sub>  | 0.05  | kW   |
| Other items                                                                                                                                                                                                                                   |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Capacity control                                                                                                                                                                                                                              | variable             |       |                                  |  | For air-to-air heat pump: air flow rate, outdoor measured                                                                                            | --               | 15600 | m³/h |
| Sound power level,outdoor                                                                                                                                                                                                                     | L <sub>WA</sub>      | 86    | dB                               |  |                                                                                                                                                      |                  |       |      |
| GWP of the refrigerant                                                                                                                                                                                                                        |                      | 2088  | kg CO <sub>2</sub> eq (100years) |  |                                                                                                                                                      |                  |       |      |
| Contact details                                                                                                                                                                                                                               |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| (*)                                                                                                                                                                                                                                           |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| (**)If C <sub>dh</sub> is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.                                                                                                                |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |
| Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer. |                      |       |                                  |  |                                                                                                                                                      |                  |       |      |