



### Technical documentation-1/3

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| General description of the appliance |                                   |
|                                      | Multi-split                       |
| Outdoor side heat exchanger          |                                   |
|                                      | air                               |
| Type of compressor driven            |                                   |
|                                      | Vapor compression                 |
| Outdoor unit (1)                     |                                   |
| TypeName                             | XCT8 4HP<br>38VS121188JCEE        |
| Indoor unit (1)                      |                                   |
| TypeName                             | 4-way Cassette<br>40VU012S-8S-TEE |
| Indoor unit (3)                      |                                   |
| TypeName                             | 4-way Cassette<br>40VU009S-8S-TEE |

|                            |                                   |
|----------------------------|-----------------------------------|
| Indoor side heat exchanger |                                   |
|                            | air                               |
| Driver of compressor       |                                   |
|                            | electric motor                    |
| Outdoor unit (2)           |                                   |
| TypeName                   | -<br>-                            |
| Indoor unit (2)            |                                   |
| TypeName                   | 4-way Cassette<br>40VU009S-8S-TEE |
| Indoor unit (4)            |                                   |
| TypeName                   | 4-way Cassette<br>40VU009S-8S-TEE |

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|          |   |
|----------|---|
| Function |   |
| cooling  | Y |
| heating  | Y |

|         |   |
|---------|---|
| Average | Y |
| Warmer  | N |
| Colder  | N |

| Item            | symbol   | value | unit |
|-----------------|----------|-------|------|
| Design load     |          |       |      |
| Cooling         | Pdesignc | 12.1  | kW   |
| Heating         | Pratedh  | 12.5  | kW   |
| heating/Average | Pdesignh | 8.8   | kW   |
| heating/Warmer  | Pdesignh | -     | kW   |
| heating/Colder  | Pdesignh | -     | kW   |

| Item                | symbol         | value  | unit |
|---------------------|----------------|--------|------|
| Seasonal efficiency |                |        |      |
| Cooling             | $\eta_{sc}$    | 354.20 | %    |
|                     | SEER           | 8.93   | -    |
| heating/Average     | $\eta_{sh(A)}$ | 163.40 | %    |
|                     | SCOP(A)        | 4.16   | -    |
| heating/Warmer      | $\eta_{sh(W)}$ | -      | %    |
|                     | SCOP(W)        | -      | -    |
| heating/Colder      | $\eta_{sh(C)}$ | -      | %    |
|                     | SCOP(C)        | -      | -    |

|   |     |       |    |
|---|-----|-------|----|
| Declared capacity for cooling at indoor temperature 27(19)°C and outdoor temperature Tj |     |       |    |
| Tj=35°C   | Pdc | 12.10 | kW |
| Tj=30°C   | Pdc | 9.02  | kW |
| Tj=25°C   | Pdc | 6.16  | kW |
| Tj=20°C   | Pdc | 6.04  | kW |
| Degradation co-efficient  | Cdc | 0.25  |    |

|  |      |       |   |
|--|------|-------|---|
| Declared Energy efficiency ratio for cooling at indoor temperature 27(19)°C and outdoor temperature Tj |      |       |   |
| Tj=35°C  | EERd | 4.03  | - |
| Tj=30°C  | EERd | 6.45  | - |
| Tj=25°C  | EERd | 10.99 | - |
| Tj=20°C  | EERd | 17.60 | - |

|  |     |      |    |
|--|-----|------|----|
| Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj |     |      |    |
| Tj=-7°C  | Pdh | 7.80 | kW |
| Tj=2°C   | Pdh | 4.78 | kW |
| Tj=7°C   | Pdh | 3.89 | kW |
| Tj=12°C  | Pdh | 4.30 | kW |
| Tj=bivalent temperature  | Pdh | 7.80 | kW |
| Tj=operation limit   | Pdh | 5.43 | kW |
| Degradation co-efficient   | Cdh | 0.25 |    |

|   |      |      |   |
|---|------|------|---|
| Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj |      |      |   |
| Tj=-7°C   | COPd | 3.00 | - |
| Tj=2°C  | COPd | 3.66 | - |
| Tj=7°C  | COPd | 6.42 | - |
| Tj=12°C   | COPd | 7.74 | - |
| Tj=bivalent temperature   | COPd | 3.00 | - |
| Tj=operation limit  | COPd | 2.50 | - |

|                      |      |    |    |
|----------------------|------|----|----|
| Bivalent temperature |      |    |    |
| heating/Average      | Tbiv | -7 | °C |
| heating/Warmer       | Tbiv | -  | °C |
| heating/Colder       | Tbiv | -  | °C |

|                             |     |     |    |
|-----------------------------|-----|-----|----|
| Operation limit temperature |     |     |    |
| heating/Average             | Tol | -20 | °C |
| heating/Warmer              | Tol | -   | °C |
| heating/Colder              | Tol | -   | °C |

|  |      |       |    |
|--|------|-------|----|
| Electric power input in power modes other than active mode |      |       |    |
| off mode   | Poff | 0.015 | kW |
| standby mode   | Psb  | 0.015 | kW |
| thermostat-off mode  | Pto  | 0.000 | kW |
| crankcase heater mode                                      | Pck  | 0.000 | kW |

|                      |  |   |    |
|----------------------|--|---|----|
| Supplementary heater |  |   |    |
| elbu                 |  | - | kW |

|                  |   |
|------------------|---|
| Capacity control |   |
| Fixed            | N |
| Strage           | N |
| Variable         | Y |

|                              |              |
|------------------------------|--------------|
| Refrigerant                  |              |
| Type                         | R410A        |
| Weight                       | 6.40 kg      |
| Global warming potential GWP | 2088 kgCO2eq |

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|                        |    |       |
|------------------------|----|-------|
| Sound power level      |    |       |
| outdoor unit (cooling) | 67 | dB(A) |
| outdoor unit (heating) | 67 | dB(A) |
| outdoor unit (cooling) |    | dB(A) |
| outdoor unit (heating) |    | dB(A) |
| outdoor unit (cooling) |    | dB(A) |
| outdoor unit (heating) |    | dB(A) |

|                        |      |      |      |
|------------------------|------|------|------|
| Rated air flow         |      |      |      |
| outdoor unit (cooling) | elbu | 5660 | m3/h |
| outdoor unit (heating) | elbu | 5660 | m3/h |
| outdoor unit (cooling) | elbu |      | m3/h |
| outdoor unit (heating) | elbu |      | m3/h |
| outdoor unit (cooling) | elbu |      | m3/h |
| outdoor unit (heating) | elbu |      | m3/h |

|                        |      |    |  |
|------------------------|------|----|--|
| Outdoor unit dimension |      |    |  |
| height                 | 1235 | mm |  |
| width                  | 990  | mm |  |
| depth                  | 390  | mm |  |
| weight                 | 125  | kg |  |

|                        |  |    |  |
|------------------------|--|----|--|
| Outdoor unit dimension |  |    |  |
| height                 |  | mm |  |
| width                  |  | mm |  |
| depth                  |  | mm |  |
| weight                 |  | kg |  |

|                        |  |    |  |
|------------------------|--|----|--|
| Outdoor unit dimension |  |    |  |
| height                 |  | mm |  |
| width                  |  | mm |  |
| depth                  |  | mm |  |
| weight                 |  | kg |  |

|                     |                 |
|---------------------|-----------------|
| Harmonised standard | EN 14511-3:2013 |
|---------------------|-----------------|

|                       |                 |
|-----------------------|-----------------|
| Calculation methods   | PrEN 14825:2016 |
| Measurement standards |                 |

|  |   |
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| Contact details for obtaining more information | Carrier HVAC Equipment(Hangzhou)Co.,Ltd<br>No.181, Weiken Street, Baiyang Block, Hangzhou Qiantang Area, Zhejiang Province, China |
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