

other

# MCAT 0501÷1422



## Versions

|    |   |
|----|---|
| B  | base version                                      |
| HT | high efficiency, high outdoor temperature version |
| LN | low noise version                                 |
| SL | super-low noise version                           |

## Features

### TOTAL VERSATILITY

Condensing units with scroll compressors in 4 versions, designed to satisfy all service system and application requirements.

### SEMI-HERMETIC RECIPROCATING COMPRESSORS

The MCAT units are fitted with semi-hermetic reciprocating compressors with the possibility of extra capacity control step

### INCORPORATED LIQUID RECEIVER

Standard units are all fitted with liquid receiver to ensure best operation of the condensing section

## Condensing unit

119 - 325 kW

### Unit Description

Outdoor split-system unit for connection with direct expansion coils or remote exchangers. Semi-hermetic reciprocating compressors, axial-flow fans, liquid receiver, compressor inlet and outlet valves with servicing plugs and liquid tap. External panels in Peraluman and base in galvanised sheet steel with paint finish. Refrigerant R407C, units with 1 or 2 compressors, single or double circuits.



## MCAT / B

| Models                       |       | 0501 | 0601 | 0502 | 0602 | 0702 | 0802 | 0822 | 1002 | 1202 | 1222 | 1422 |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| <b>COOLING</b>               |       |      |      |      |      |      |      |      |      |      |      |      |
| Cooling capacity (1)         | kW    | 119  | 141  | 115  | 134  | 160  | 188  | 203  | 236  | 282  | 297  | 325  |
| Total power input (1)        | kW    | 46,7 | 55,9 | 42,8 | 51,2 | 68,2 | 81,0 | 80,3 | 93,9 | 112  | *    | *    |
| <b>COMPRESSORS</b>           |       |      |      |      |      |      |      |      |      |      |      |      |
| No. Compressors/No. Circuits | N.    | 1/1  | 1/1  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  |
| <b>NOISE LEVELS</b>          |       |      |      |      |      |      |      |      |      |      |      |      |
| Sound power (2)              | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| Sound pressure (3)           | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    |
| <b>SIZE</b>                  |       |      |      |      |      |      |      |      |      |      |      |      |
| A                            | mm    | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 4110 | *    | *    |
| B                            | mm    | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | *    | *    |
| H                            | mm    | 1540 | 1540 | 1540 | 1540 | 1540 | 1540 | 1990 | 1990 | 1990 | *    | *    |
| Operating weight             | kg    | 1260 | 1310 | 1350 | 1420 | 1500 | 1610 | 1690 | 1870 | 2060 | *    | *    |

Note:

- 1 Saturated intake temperature = 5°C; Condenser air (n) = 35°C.
- 2 Sound power on the basis of measurements made in compliance with ISO 9814 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.
- 3 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

## MCAT / HT

| Models                       |       | 0501 | 0601 | 0502 | 0602 | 0702 | 0802 | 0822 | 1002 | 1202 | 1222 | 1422 |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| <b>COOLING</b>               |       |      |      |      |      |      |      |      |      |      |      |      |
| Cooling capacity (1)         | kW    | 127  | 149  | 122  | 143  | 174  | 211  | 223  | 256  | 305  | 321  | 351  |
| Total power input (1)        | kW    | 46,6 | 55,5 | 43,2 | 51,5 | 63,9 | 76,5 | 77,3 | 89,5 | 109  |      |      |
| <b>COMPRESSORS</b>           |       |      |      |      |      |      |      |      |      |      |      |      |
| No. Compressors/No. Circuits | N.    | 1/1  | 1/1  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  |
| <b>NOISE LEVELS</b>          |       |      |      |      |      |      |      |      |      |      |      |      |
| Sound power (2)              | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| Sound pressure (3)           | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| <b>SIZE</b>                  |       |      |      |      |      |      |      |      |      |      |      |      |
| A                            | mm    | 3110 | 3110 | 3110 | 3110 | 3110 | 4110 | 4110 | 4110 | 5110 |      |      |
| B                            | mm    | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 |      |      |
| H                            | mm    | 1540 | 1540 | 1540 | 1540 | 1990 | 1990 | 1990 | 1990 | 1990 |      |      |
| Operating weight             | kg    | 1330 | 1390 | 1430 | 1500 | 1640 | 1880 | 1890 | 2100 | 2340 |      |      |

Note:

- 1 Saturated intake temperature = 5°C; Condenser air (n) = 35°C.
- 2 Sound power on the basis of measurements made in compliance with ISO 9814 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.
- 3 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

## MCAT / LN

| Models                       |       | 0501 | 0601 | 0502 | 0602 | 0702 | 0802 | 0822 | 1002 | 1202 | 1222 | 1422 |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| <b>COOLING</b>               |       |      |      |      |      |      |      |      |      |      |      |      |
| Cooling capacity (1)         | kW    | 115  | 135  | 111  | 129  | 154  | 179  | 195  | 226  | 271  | 285  | 312  |
| Total power input (1)        | kW    | 48,0 | 57,7 | 43,9 | 52,6 | 70,2 | 83,7 | 82,5 | 97,4 | 115  |      |      |
| <b>COMPRESSORS</b>           |       |      |      |      |      |      |      |      |      |      |      |      |
| No. Compressors/No. Circuits | N.    | 1/1  | 1/1  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  |
| <b>NOISE LEVELS</b>          |       |      |      |      |      |      |      |      |      |      |      |      |
| Sound power (2)              | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| Sound pressure (3)           | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| <b>SIZE</b>                  |       |      |      |      |      |      |      |      |      |      |      |      |
| A                            | mm    | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 4110 |      |      |
| B                            | mm    | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 |      |      |
| H                            | mm    | 1540 | 1540 | 1540 | 1540 | 1540 | 1540 | 1990 | 1990 | 1990 |      |      |
| Operating weight             | kg    | 1260 | 1310 | 1350 | 1420 | 1500 | 1610 | 1690 | 1870 | 2060 |      |      |

Note:

- 1 Saturated intake temperature = 5°C; Condenser air (n) = 35°C.
- 2 Sound power on the basis of measurements made in compliance with ISO 9814 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.
- 3 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

## MCAT / SL

| Models                       |       | 0501 | 0601 | 0502 | 0602 | 0702 | 0802 | 0822 | 1002 | 1202 | 1222 | 1422 |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| <b>COOLING</b>               |       |      |      |      |      |      |      |      |      |      |      |      |
| Cooling capacity (1)         | kW    | 114  | 140  | 110  | 129  | 154  | 187  | 203  | 230  | 280  | 295  | 323  |
| Total power input (1)        | kW    | 49,0 | 56,7 | 44,9 | 53,3 | 67,9 | 80,9 | 79,9 | 95,4 | 113  |      |      |
| <b>COMPRESSORS</b>           |       |      |      |      |      |      |      |      |      |      |      |      |
| No. Compressors/No. Circuits | N.    | 1/1  | 1/1  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  | 2/2  |
| <b>NOISE LEVELS</b>          |       |      |      |      |      |      |      |      |      |      |      |      |
| Sound power (2)              | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| Sound pressure (3)           | dB(A) | *    | *    | *    | *    | *    | *    | *    | *    | *    |      |      |
| <b>SIZE</b>                  |       |      |      |      |      |      |      |      |      |      |      |      |
| A                            | mm    | 3110 | 3110 | 3110 | 3110 | 4110 | 4110 | 4110 | 4110 | 5110 |      |      |
| B                            | mm    | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 |      |      |
| H                            | mm    | 1540 | 1990 | 1540 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 |      |      |
| Operating weight             | kg    | 1370 | 1450 | 1460 | 1560 | 1780 | 1880 | 1890 | 2100 | 2340 |      |      |

Note:

1 Saturated intake temperature = 5°C; Condenser air (in) = 35°C.

2 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent B/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

3 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

### Minimum clearance required

|                           |    | 0501-1422 |
|---------------------------|----|-----------|
| Switchboard side          | mm | 1500      |
| Switchboard opposite side | mm | 1100      |
| Condensation coil side    | mm | 2000      |

