

## Subtype REMEHA Effenca MT 40

|                     |  |
|---------------------|--|
| Certificate Holder  | Remeha ND                                    |
| Address             | Marchantstraat 55                            |
| ZIP                 | 7332   |
| City                | AZ Apeldoorn                                 |
| Country             | NL   |
| Certification Body  | Kiwa Nederland B.V.                          |
| Subtype title       | REMEHA Effenca MT 40                         |
| Registration number | 007-DO0165                                   |
| Heat Pump Type      | Outdoor Air/Water                            |
| Refrigerant         | R32  |
| Mass of Refrigerant | 5.6 kg                                       |
| Certification Date  | 09.04.2025                                   |
| Testing basis       | European KEYMARK Scheme for Heat Pumps (v14) |

## Model Effenca MT 40

|                                     |                        |
|-------------------------------------|------------------------|
| Model name                          | Effenca MT 40          |
| Application                         | Heating (medium temp)  |
| Units                               | Outdoor                |
| Climate zone (for heating)          | n/a                    |
| Reversibility                       | Yes                    |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources         | n/a                    |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

|                               |        |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test                  | passed |
| Starting and operating test   | passed |

### EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 40.20 kW        | 29.00 kW           |
| El input    | 9.50 kW         | 9.67 kW            |
| COP         | 4.30            | 3.00               |

### EN 14511-2 | Cooling

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 9.75 kW    | 8.84 kW     |
| Cooling capacity | 30.60      | 37.70       |
| EER              | 3.10       | 4.26        |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 189 %           | 142 %              |
| Prated   | 30.00 kW        | 23.70 kW           |
| SCOP     | 4.80            | 3.61               |
| Tbiv     | -5 °C           | -5 °C              |
| TOL      | -10 °C          | -10 °C             |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = -7°C                                       | 26.20 kW    | 20.50 kW    |
| COP Tj = -7°C                                       | 2.75        | 2.15        |
| Cdh Tj = -7 °C                                      | 1.000       | 1.000       |
| Pdh Tj = +2°C                                       | 16.59 kW    | 12.52 kW    |
| COP Tj = +2°C                                       | 5.00        | 3.77        |
| Cdh Tj = +2 °C                                      | 1.000       | 1.000       |
| Pdh Tj = +7°C                                       | 10.34 kW    | 8.39 kW     |
| COP Tj = +7°C                                       | 6.28        | 4.50        |
| Cdh Tj = +7 °C                                      | 1.000       | 1.000       |
| Pdh Tj = 12°C                                       | 10.40 kW    | 9.77 kW     |
| COP Tj = 12°C                                       | 8.34        | 6.85        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 24.20 kW    | 18.73 kW    |
| COP Tj = Tbiv                                       | 2.99        | 2.32        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 29.12 kW    | 22.80 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.46        | 1.83        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000       | 1.000       |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 0 W         | 0 W         |
| PTO   | 58 W        | 58 W        |
| PSB   | 58 W        | 58 W        |
| PCK   | 60 W        | 60 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.88 kW     | 0.90 kW     |
| Annual energy consumption Qhe                       | 13545 kWh   | 13692 kWh   |

#### EN 14825 | Cooling

|                |            |             |
|----------------|------------|-------------|
|                | +7°C/+12°C | +18°C/+23°C |
| Pdesignc       | 30.60 kW   | 37.70 kW    |
| SEER           | 5.18       | 6.61        |
| Pdc Tj = 35°C  | 30.60 kW   | 37.70 kW    |
| EER Tj = 35°C  | 3.10       | 4.26        |
| Cdc Tj = 35 °C | 1.000      | 1.000       |
| Pdc Tj = 30°C  | 22.20 kW   | 27.70 kW    |
| EER Tj = 30°C  | 4.37       | 5.51        |
| Cdc Tj = 30 °C | 1.000      | 1.000       |
| Pdc Tj = 25°C  | 14.20 kW   | 16.85 kW    |
| EER Tj = 25°C  | 5.85       | 7.17        |
| Cdc Tj = 25 °C | 1.000      | 1.000       |
| Pdc Tj = 20°C  | 8.82 kW    | 9.44 kW     |
| EER Tj = 20°C  | 7.43       | 9.67        |
| Cdc Tj = 20 °C | 0.900      | 0.900       |
| Poff           | 0 W        | 0 W         |

|                               |           |           |
|-------------------------------|-----------|-----------|
| PTO                           | 58 W      | 58 W      |
| PSB                           | 58 W      | 58 W      |
| PCK                           | 60 W      | 60 W      |
| Annual energy consumption Qce | 18360 kWh | 22620 kWh |

## Model Effenca MT 40 EC

|                                     |                        |
|-------------------------------------|------------------------|
| Model name                          | Effenca MT 40 EC       |
| Application                         | Heating (medium temp)  |
| Units                               | Outdoor                |
| Climate zone (for heating)          | n/a                    |
| Reversibility                       | Yes                    |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources         | n/a                    |

## General data

|                  |     |
|------------------|-----|
| Power supply     | n/a |
| Off-peak product | n/a |

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

|                               |        |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test                  | passed |
| Starting and operating test   | passed |

### EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 40.20 kW        | 29.00 kW           |
| El input    | 9.50 kW         | 9.67 kW            |
| COP         | 4.30            | 3.00               |

### EN 14511-2 | Cooling

|                  | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input         | 9.75 kW    | 8.84 kW     |
| Cooling capacity | 30.60      | 37.70       |
| EER              | 3.10       | 4.26        |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 189 %           | 142 %              |
| Prated   | 30.00 kW        | 23.70 kW           |
| SCOP     | 4.80            | 3.61               |
| Tbiv     | -5 °C           | -5 °C              |
| TOL      | -10 °C          | -10 °C             |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = -7°C                                       | 26.20 kW    | 20.50 kW    |
| COP Tj = -7°C                                       | 2.75        | 2.15        |
| Cdh Tj = -7 °C                                      | 1.000       | 1.000       |
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| COP Tj = +2°C                                       | 5.00        | 3.77        |
| Cdh Tj = +2 °C                                      | 1.000       | 1.000       |
| Pdh Tj = +7°C                                       | 10.34 kW    | 8.39 kW     |
| COP Tj = +7°C                                       | 6.28        | 4.50        |
| Cdh Tj = +7 °C                                      | 1.000       | 1.000       |
| Pdh Tj = 12°C                                       | 10.40 kW    | 9.77 kW     |
| COP Tj = 12°C                                       | 8.34        | 6.85        |
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| Pdh Tj = Tbiv                                       | 24.20 kW    | 18.73 kW    |
| COP Tj = Tbiv                                       | 2.99        | 2.32        |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000       | 1.000       |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 0 W         | 0 W         |
| PTO   | 58 W        | 58 W        |
| PSB   | 58 W        | 58 W        |
| PCK   | 60 W        | 60 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.88 kW     | 0.90 kW     |
| Annual energy consumption Qhe                       | 13545 kWh   | 13692 kWh   |

#### EN 14825 | Cooling

|                |            |             |
|----------------|------------|-------------|
|                | +7°C/+12°C | +18°C/+23°C |
| Pdesignc       | 30.60 kW   | 37.70 kW    |
| SEER           | 5.18       | 6.61        |
| Pdc Tj = 35°C  | 30.60 kW   | 37.70 kW    |
| EER Tj = 35°C  | 3.10       | 4.26        |
| Cdc Tj = 35 °C | 1.000      | 1.000       |
| Pdc Tj = 30°C  | 22.20 kW   | 27.70 kW    |
| EER Tj = 30°C  | 4.37       | 5.51        |
| Cdc Tj = 30 °C | 1.000      | 1.000       |
| Pdc Tj = 25°C  | 14.20 kW   | 16.85 kW    |
| EER Tj = 25°C  | 5.85       | 7.17        |
| Cdc Tj = 25 °C | 1.000      | 1.000       |
| Pdc Tj = 20°C  | 8.82 kW    | 9.44 kW     |
| EER Tj = 20°C  | 7.43       | 9.67        |
| Cdc Tj = 20 °C | 0.900      | 0.900       |
| Poff           | 0 W        | 0 W         |

|                               |           |           |
|-------------------------------|-----------|-----------|
| PTO                           | 58 W      | 58 W      |
| PSB                           | 58 W      | 58 W      |
| PCK                           | 60 W      | 60 W      |
| Annual energy consumption Qce | 18360 kWh | 22620 kWh |