

## Subtipo MDV A Series 4 6kW with 240L tank

|                            |  |
|----------------------------|--|
| Poseedor del certificado   | GD Midea Heating & Ventilating Equipment Co., Ltd.           |
| Adressa                    | Penglai Industry Road  |
| Código postal              | 528311   |
| Ciudad                     | Beijiao, Shunde, Foshan                                      |
| País                       | CN   |
| Cuerpo de la certificación | BRE  |
| Título subtítulo           | MDV A Series 4 6kW with 240L tank                            |
| Número de registro         | 041-K007-23  |
| Tipo de bomba de calor     | Aire exterior / agua   |
| Refrigerante               | R32  |
| Cantidad de refrigerante   | 1.5 kg   |
| Fecha de certificación     | 13.11.2023   |
| Fundamentos de ensayo      | Heat Pump KEYMARK certification Scheme rules v08             |
| Laboratorio de ensayo      | Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN |

**Modelo AHPS-V4W/D2N8-B+AHBT-A100/240C\*\*\*\*GN8-B**

|  |   |
|--|---|
| Nombre del modelo                        | AHPS-V4W/D2N8-B+AHBT-A100/240C****GN8-B |
| Aplicación                               | Calefacción + ACS + baja temperatura    |
| Unidades                                 | Interior, Exterior                      |
| zona climatica (para calefacción)        | Clima cálido, Clima frío                |
| Reversibilidad                           | Sí                                      |
| aplicación para refrigeración (optional) | n/a                                     |
| Otras fuentes de calor                   | n/a                                     |

**Datos generales**

|                             |             |
|-----------------------------|-------------|
| Alimentación eléctrica      | 1x230V 50Hz |
| Producto fuera de selección | n/a         |

**Aire exterior / agua**
**EN 16147 | Clima medio**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 3.34       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 136 %      |
| Tiempo de calentamiento              | 2:21 h:min |
| Entrada de alimentación ( stand By ) | 22 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 16147 | Clima frío**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 2.63       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 107 %      |
| Tiempo de calentamiento              | 2:38 h:min |
| Entrada de alimentación ( stand By ) | 24 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 16147 | Clima cálido**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 4.24       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 174 %      |
| Tiempo de calentamiento              | 2:09 h:min |
| Entrada de alimentación ( stand By ) | 22 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 14511-4 | Calefacción**

|   |          |
|---|----------|
| Starting and operating test                       | aprobado |
| cortando la trasferencia de calor de caudal medio | aprobado |

Fallo completo de alimentación eléctrica      aprobado

Test de desescarche      aprobado

#### EN 14511-2 | Calefacción

|                    | Baja temperatura | Media temperatura |
|--------------------|------------------|-------------------|
| COP                | 5.2              | 2.95              |
| Salida calefacción | 4.25 kW          | 4.4 kW            |
| Entrada EI         | 0.82 kW          | 1.49 kW           |

#### EN 12102-1 | Clima medio

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 56 dB(A)         | 56 dB(A)          |

#### EN 14825 | Clima medio

|   | Baja temperatura | Media temperatura |
|---|------------------|-------------------|
| $\eta_s$  | 191 %            | 130 %             |
| Prated  | 5.52 kW          | 4.4 kW            |
| SCOP  | 4.85             | 3.31              |
| Tbiv  | -7 °C            | -7 °C             |
| TOL   | -10 °C           | -10 °C            |
| Pdh Tj = -7°C                                       | 4.88 kW          | 3.89 kW           |
| COP Tj = -7°C                                       | 3.19             | 2.17              |
| Cdh Tj = -7 °C                                      | 0.9              | 0.9               |
| Pdh Tj = +2°C                                       | 3.06 kW          | 2.38 kW           |
| COP Tj = +2°C                                       | 4.78             | 3.3               |
| Cdh Tj = +2 °C                                      | 0.9              | 0.9               |
| Pdh Tj = +7°C                                       | 1.93 kW          | 2.95 kW           |
| COP Tj = +7°C                                       | 6.13             | 4.41              |
| Cdh Tj = +7 °C                                      | 0.9              | 0.9               |
| Pdh Tj = 12°C                                       | 1.48 kW          | 1.32 kW           |
| COP Tj = 12°C                                       | 8.05             | 5.66              |
| Cdh Tj = +12 °C                                     | 0.9              | 0.9               |
| Pdh Tj = Tbiv                                       | 4.88 kW          | 3.89 kW           |
| COP Tj = Tbiv                                       | 3.19             | 2.17              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.42 kW          | 3.42 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86             | 1.91              |
| WTOL  | 65 °C            | 65 °C             |
| Poff  | 14 W             | 14 W              |
| PTO   | 24 W             | 24 W              |
| PSB   | 14 W             | 14 W              |
| PCK   | 0 W              | 0 W               |

|  |              |              |
|--|--------------|--------------|
| Calentador suplementario: tipo de energía de entrada | Electricidad | Electricidad |
| Calentador suplementario: PSUP                       | 1.11 kW      | 0.98 kW      |
| Consumo anual de energía QHE                         | 2351 kWh     | 2744 kWh     |

**EN 12102-1 | Clima frío**

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 56 dB(A)         | 56 dB(A)          |

**EN 14825 | Clima frío**

|  | Baja temperatura | Media temperatura |
|--|------------------|-------------------|
| $\eta_s$   | 159 %            | 102 %             |
| Prated   | 4.57 kW          | 3.37 kW           |
| SCOP   | 4.06             | 2.63              |
| Tbiv   | -15 °C           | -15 °C            |
| TOL  | -22 °C           | -22 °C            |
| Pdh Tj = -7°C  | 2.76 kW          | 2.14 kW           |
| COP Tj = -7°C  | 3.49             | 2.32              |
| Cdh Tj = -7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +2°C  | 1.77 kW          | 1.28 kW           |
| COP Tj = +2°C  | 4.95             | 2.99              |
| Cdh Tj = +2 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +7°C  | 1.17 kW          | 1.01 kW           |
| COP Tj = +7°C  | 5.53             | 3.86              |
| Cdh Tj = +7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = 12°C  | 1.43 kW          | 1.36 kW           |
| COP Tj = 12°C  | 7.67             | 6.28              |
| Cdh Tj = +12 °C                                      | 0.9              | 0.9               |
| Pdh Tj = Tbiv  | 3.72 kW          | 2.75 kW           |
| COP Tj = Tbiv  | 2.57             | 1.74              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  | 2.8 kW           | 1.64 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  | 1.97             | 1.02              |
| WTOL   | 65 °C            | 65 °C             |
| Poff   | 14 W             | 14 W              |
| PTO  | 24 W             | 24 W              |
| PSB  | 14 W             | 14 W              |
| PCK  | 0 W              | 0 W               |
| Pdh Tj = -15°C (if TOL                               | 3.72             | 2.75              |
| COP Tj = -15°C (if TOL                               | 2.57             | 1.74              |
| Cdh Tj = -15 °C                                      | 0.9              | 0.9               |
| Calentador suplementario: tipo de energía de entrada | Electricidad     | Electricidad      |
| Calentador suplementario: PSUP                       | 1.76 kW          | 1.73 kW           |
| Consumo anual de energía QHE                         | 2770 kWh         | 3159 kWh          |

**EN 12102-1 | Clima cálido**

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 56 dB(A)         | 56 dB(A)          |

**EN 14825 | Clima cálido**

|  | Baja temperatura | Media temperatura |
|--|------------------|-------------------|
| $\eta_s$   | 254 %            | 162 %             |
| Prated   | 5.54 kW          | 5.02 kW           |
| SCOP   | 6.52             | 4.14              |
| Tbiv   | 7 °C             | 7 °C              |
| TOL  | 2 °C             | 2 °C              |
| Pdh Tj = +2°C  | 5.35 kW          | 4.84 kW           |
| COP Tj = +2°C  | 3.94             | 2.51              |
| Cdh Tj = +2 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +7°C  | 3.56 kW          | 3.23 kW           |
| COP Tj = +7°C  | 5.92             | 3.68              |
| Cdh Tj = +7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = 12°C  | 1.64 kW          | 1.47 kW           |
| COP Tj = 12°C  | 7.91             | 5.15              |
| Cdh Tj = +12 °C                                      | 0.9              | 0.9               |
| Pdh Tj = Tbiv  | 3.56 kW          | 3.23 kW           |
| COP Tj = Tbiv  | 5.92             | 3.68              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  | 5.35 kW          | 4.84 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  | 3.94             | 2.51              |
| WTOL   | 65 °C            | 65 °C             |
| Poff   | 14 W             | 14 W              |
| PTO  | 24 W             | 24 W              |
| PSB  | 14 W             | 14 W              |
| PCK  | 0 W              | 0 W               |
| Calentador suplementario: tipo de energía de entrada | Electricidad     | Electricidad      |
| Calentador suplementario: PSUP                       | 0.19 kW          | 0.18 kW           |
| Consumo anual de energía QHE                         | 1152 kWh         | 1621 kWh          |

**Modelo AHPS-V6W/D2N8-B+AHBT-A100/240C\*\*\*\*GN8-B**

|  |   |
|--|---|
| Nombre del modelo                        | AHPS-V6W/D2N8-B+AHBT-A100/240C****GN8-B |
| Aplicación                               | Calefacción + ACS + baja temperatura    |
| Unidades                                 | Interior, Exterior                      |
| zona climatica (para calefacción)        | Clima cálido, Clima frío                |
| Reversibilidad                           | Sí                                      |
| aplicación para refrigeración (optional) | n/a                                     |
| Otras fuentes de calor                   | n/a                                     |

**Datos generales**

|                             |             |
|-----------------------------|-------------|
| Alimentación eléctrica      | 1x230V 50Hz |
| Producto fuera de selección | n/a         |

**Aire exterior / agua**
**EN 16147 | Clima medio**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 3.34       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 136 %      |
| Tiempo de calentamiento              | 2:21 h:min |
| Entrada de alimentación ( stand By ) | 22 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 16147 | Clima frío**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 2.63       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 107 %      |
| Tiempo de calentamiento              | 2:38 h:min |
| Entrada de alimentación ( stand By ) | 24 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 16147 | Clima cálido**

|                                      |            |
|--------------------------------------|------------|
| COP                                  | 4.24       |
| Perfil de carga declarado            | XL         |
| Eficiencia $\eta_{dhw}$              | 174 %      |
| Tiempo de calentamiento              | 2:09 h:min |
| Entrada de alimentación ( stand By ) | 22 W       |
| Temperatura de referencia ACS        | 48 °C      |
| Mezcla de agua a 40°C                | 275 l      |

**EN 14511-4 | Calefacción**

|   |          |
|---|----------|
| Starting and operating test                       | aprobado |
| cortando la trasferencia de calor de caudal medio | aprobado |

Fallo completo de alimentación eléctrica      aprobado

Test de desescarche      aprobado

#### EN 14511-2 | Calefacción

|                    | Baja temperatura | Media temperatura |
|--------------------|------------------|-------------------|
| COP                | 5                | 3                 |
| Salida calefacción | 6.2 kW           | 6 kW              |
| Entrada EI         | 1.24 kW          | 2 kW              |

#### EN 12102-1 | Clima medio

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 58 dB(A)         | 58 dB(A)          |

#### EN 14825 | Clima medio

|   | Baja temperatura | Media temperatura |
|---|------------------|-------------------|
| $\eta_s$  | 195 %            | 138 %             |
| Prated  | 6.82 kW          | 5.7 kW            |
| SCOP  | 4.95             | 3.52              |
| Tbiv  | -7 °C            | -7 °C             |
| TOL   | -10 °C           | -10 °C            |
| Pdh Tj = -7°C                                       | 6.03 kW          | 5.05 kW           |
| COP Tj = -7°C                                       | 3.09             | 2.17              |
| Cdh Tj = -7 °C                                      | 0.9              | 0.9               |
| Pdh Tj = +2°C                                       | 3.88 kW          | 3.12 kW           |
| COP Tj = +2°C                                       | 4.85             | 3.51              |
| Cdh Tj = +2 °C                                      | 0.9              | 0.9               |
| Pdh Tj = +7°C                                       | 2.4 kW           | 2.09 kW           |
| COP Tj = +7°C                                       | 6.63             | 4.54              |
| Cdh Tj = +7 °C                                      | 0.9              | 0.9               |
| Pdh Tj = 12°C                                       | 1.39 kW          | 1.28 kW           |
| COP Tj = 12°C                                       | 7.83             | 5.59              |
| Cdh Tj = +12 °C                                     | 0.9              | 0.9               |
| Pdh Tj = Tbiv                                       | 6.03 kW          | 5.05 kW           |
| COP Tj = Tbiv                                       | 3.09             | 2.17              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.36 kW          | 4.52 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76             | 1.91              |
| WTOL  | 65 °C            | 65 °C             |
| Poff  | 14 W             | 14 W              |
| PTO   | 24 W             | 24 W              |
| PSB   | 14 W             | 14 W              |
| PCK   | 0 W              | 0 W               |

|  |              |              |
|--|--------------|--------------|
| Calentador suplementario: tipo de energía de entrada | Electricidad | Electricidad |
| Calentador suplementario: PSUP                       | 1.45 kW      | 1.18 kW      |
| Consumo anual de energía QHE                         | 2846 kWh     | 3345 kWh     |

**EN 12102-1 | Clima frío**

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 58 dB(A)         | 58 dB(A)          |

**EN 14825 | Clima frío**

|  | Baja temperatura | Media temperatura |
|--|------------------|-------------------|
| $\eta_s$   | 165 %            | 111 %             |
| Prated   | 5.63 kW          | 4.26 kW           |
| SCOP   | 4.21             | 2.85              |
| Tbiv   | -15 °C           | -15 °C            |
| TOL  | -22 °C           | -22 °C            |
| Pdh Tj = -7°C  | 3.42 kW          | 2.7 kW            |
| COP Tj = -7°C  | 3.59             | 2.46              |
| Cdh Tj = -7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +2°C  | 2.06 kW          | 1.61 kW           |
| COP Tj = +2°C  | 5.21             | 3.36              |
| Cdh Tj = +2 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +7°C  | 1.47 kW          | 1.02 kW           |
| COP Tj = +7°C  | 6.24             | 3.94              |
| Cdh Tj = +7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = 12°C  | 1.44 kW          | 1.37 kW           |
| COP Tj = 12°C  | 7.66             | 6.35              |
| Cdh Tj = +12 °C                                      | 0.9              | 0.9               |
| Pdh Tj = Tbiv  | 4.6 kW           | 3.48 kW           |
| COP Tj = Tbiv  | 2.53             | 1.86              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  | 3.48 kW          | 2.1 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  | 1.96             | 1.13              |
| WTOL   | 65 °C            | 65 °C             |
| Poff   | 20 W             | 20 W              |
| PTO  | 24 W             | 24 W              |
| PSB  | 14 W             | 14 W              |
| PCK  | 0 W              | 0 W               |
| Pdh Tj = -15°C (if TOL                               | 4.6              | 3.48              |
| COP Tj = -15°C (if TOL                               | 2.53             | 1.86              |
| Cdh Tj = -15 °C                                      | 0.9              | 0.9               |
| Calentador suplementario: tipo de energía de entrada | Electricidad     | Electricidad      |
| Calentador suplementario: PSUP                       | 2.15 kW          | 2.16 kW           |
| Consumo anual de energía QHE                         | 3301 kWh         | 3681 kWh          |

**EN 12102-1 | Clima cálido**

|                                       | Baja temperatura | Media temperatura |
|---------------------------------------|------------------|-------------------|
| Potencia sonora de la unidad interior | 38 dB(A)         | 38 dB(A)          |
| Potencia sonora de la unidad exterior | 58 dB(A)         | 58 dB(A)          |

**EN 14825 | Clima cálido**

|  | Baja temperatura | Media temperatura |
|--|------------------|-------------------|
| $\eta_s$   | 258 %            | 165 %             |
| Prated   | 6.12 kW          | 5.15 kW           |
| SCOP   | 6.63             | 4.19              |
| Tbiv   | 7 °C             | 7 °C              |
| TOL  | 2 °C             | 2 °C              |
| Pdh Tj = +2°C  | 5.94 kW          | 5.03 kW           |
| COP Tj = +2°C  | 3.91             | 2.48              |
| Cdh Tj = +2 °C                                       | 0.9              | 0.9               |
| Pdh Tj = +7°C  | 3.93 kW          | 3.31 kW           |
| COP Tj = +7°C  | 5.89             | 3.67              |
| Cdh Tj = +7 °C                                       | 0.9              | 0.9               |
| Pdh Tj = 12°C  | 1.8 kW           | 1.6 kW            |
| COP Tj = 12°C  | 8.2              | 5.29              |
| Cdh Tj = +12 °C                                      | 0.9              | 0.9               |
| Pdh Tj = Tbiv  | 3.93 kW          | 3.31 kW           |
| COP Tj = Tbiv  | 5.89             | 3.67              |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  | 5.94 kW          | 5.03 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  | 3.91             | 2.48              |
| WTOL   | 65 °C            | 65 °C             |
| Poff   | 14 W             | 14 W              |
| PTO  | 24 W             | 24 W              |
| PSB  | 14 W             | 14 W              |
| PCK  | 0 W              | 0 W               |
| Calentador suplementario: tipo de energía de entrada | Electricidad     | Electricidad      |
| Calentador suplementario: PSUP                       | 0.18 kW          | 0.12 kW           |
| Consumo anual de energía QHE                         | 1251 kWh         | 1640 kWh          |