

|                     | DE DIETRICH Alezio S V200 R32 6/8 MR        | Reg. No. | 21HK0010/00 |
|---------------------|---|----------|-------------|
| Certificate Holder  |   |          |             |
|                     | BDR Thermea FR (DE DIETRICH)                |          |             |
|                     | 57 rue de la Gare                           |          | 67580       |
|                     | Mertzwiller                                 |          | France      |
| Certification Body  | Kiwa Nederland B.V.                         |          |             |
| Subtype title       | DE DIETRICH Alezio S V200 R32 6/8 MR        |          |             |
| Heat Pump Type      | Outdoor Air/Water                           |          |             |
| Refrigerant         | R32   |          |             |
| Mass of Refrigerant | 1.2 kg                                      |          |             |
| Certification Date  | 12.11.2021                                  |          |             |
| Testing basis       | European KEYMARK Scheme for Heat Pumps (v9) |          |             |



# Model: AWHPR 6 MR + MIV-S/E 4-8 V200 R32

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | AWHPR 6 MR + MIV-S/E 4-8 V200 R32 |
| Application                         | Heating + DHW + low temp          |
| Units                               | Indoor + Outdoor                  |
| Climate Zone                        | n/a                               |
| Reversibility                       | Yes                               |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C         |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

## Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 6.40 kW         | 5.70 kW            |
| El input    | 1.28 kW         | 1.97 kW            |
| СОР         | 5.00            | 2.90               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

# Cooling





| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.30 kW    | 1.43 kW     |
| Cooling capacity | 6.50       | 7.00        |
| EER              | 2.83       | 4.88        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.00 kW     |
| SEER                          | 3.95       | 5.99        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.00 kW     |
| EER Tj = 35°C                 | 2.83       | 4.88        |
| Pdc Tj = 30°C                 | 4.90 kW    | 5.39 kW     |
| EER Tj = 30°C                 | 3.99       | 6.65        |
| Cdc Tj = 30 °C                | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 3.10 kW    | 3.32 kW     |
| EER Tj = 25°C                 | 4.55       | 4.93        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.37 kW    | 1.78 kW     |
| EER Tj = 20°C                 | 3.96       | 9.48        |
| Cdc Tj = 20 °C                | 0.960      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 987 kWh    | 701 kWh     |



|                           | EN 12102-1      |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 31 dB(A)        | 31 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 57 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 177 %           | 132 %              |
| Prated                  | 6.50 kW         | 6.00 kW            |
| SCOP                    | 4.50            | 3.37               |
| Tbiv                    | -10 °C          | -7 °C              |
| TOL                     | -10 °C          | -10 °C             |
| Pdh Tj = -7°C           | 5.90 kW         | 5.50 kW            |
| COP Tj = -7°C           | 3.16            | 2.22               |
| Cdh Tj = -7 °C          | 0.990           | 0.990              |
| Pdh Tj = $+2$ °C        | 3.50 kW         | 3.40 kW            |
| COP Tj = +2°C           | 4.48            | 3.37               |
| Cdh Tj = +2 °C          | 0.980           | 0.980              |
| Pdh Tj = $+7^{\circ}$ C | 2.30 kW         | 2.10 kW            |
| COP Tj = +7°C           | 5.61            | 4.07               |
| Cdh Tj = +7 °C          | 0.960           | 0.970              |

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| 2.50 kW     | 2.50 kW  |
|-------------|--|
| 6.92        | 6.58   |
| 0.960       | 0.970  |
| 6.50 kW     | 5.50 kW  |
| 2.68        | 2.22   |
| 6.50 kW     | 5.30 kW  |
| 2.68        | 1.82   |
| 0.990       | 0.990  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| o w         | 0 W  |
| Electricity | Electricity  |
| 0.00 kW     | 0.70 kW  |
| 2986 kWh    | 3679 kWh   |
|             | 6.92  0.960  6.50 kW  2.68  6.50 kW  2.68  0.990  60 °C  15 W  15 W  0 W  Electricity  0.00 kW |

Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency ηDHW                 | 128 %       |
| СОР                             | 3.07        |
| Heating up time                 | 01:32 h:min |
| Standby power input             | 28.3 W      |
| Reference hot water temperature | 54.1 °C     |
| Mixed water at 40°C             | 255 I       |



## Model: AWHPR 6 MR + MIV-S/H 4-8 V200 R32

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | AWHPR 6 MR + MIV-S/H 4-8 V200 R32 |  |
| Application                         | Heating + DHW + low temp          |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone                        | n/a                               |  |
| Reversibility                       | Yes                               |  |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C         |  |

| General Data             |  |  |  |
|--------------------------|--|--|--|
| Power supply 1x230V 50Hz |  |  |  |

## Heating

| EN 14511-2                         |         |                    |
|------------------------------------|---------|--------------------|
| Low temperature Medium temperature |         | Medium temperature |
| Heat output                        | 6.40 kW | 5.70 kW            |
| El input                           | 1.28 kW | 1.97 kW            |
| СОР                                | 5.00    | 2.90               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

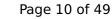
# Cooling





| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.30 kW    | 1.43 kW     |
| Cooling capacity | 6.50       | 7.00        |
| EER              | 2.83       | 4.88        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.00 kW     |
| SEER                          | 3.95       | 5.99        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.00 kW     |
| EER Tj = 35°C                 | 2.83       | 4.88        |
| Pdc Tj = 30°C                 | 4.90 kW    | 5.39 kW     |
| EER Tj = 30°C                 | 3.99       | 6.65        |
| Cdc Tj = 30 °C                | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 3.10 kW    | 3.32 kW     |
| EER Tj = 25°C                 | 4.55       | 4.93        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.37 kW    | 1.78 kW     |
| EER Tj = 20°C                 | 3.96       | 9.48        |
| Cdc Tj = 20 °C                | 0.960      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | 0 W        | 0 W         |
| Annual energy consumption Qce | 987 kWh    | 701 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 31 dB(A)        | 31 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 57 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 177 %           | 132 %              |
| Prated         | 6.50 kW         | 6.00 kW            |
| SCOP           | 4.50            | 3.37               |
| Tbiv           | -10 °C          | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 5.90 kW         | 5.50 kW            |
| COP Tj = -7°C  | 3.16            | 2.22               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 3.50 kW         | 3.40 kW            |
| COP Tj = +2°C  | 4.48            | 3.37               |
| Cdh Tj = +2 °C | 0.980           | 0.980              |
| Pdh Tj = +7°C  | 2.30 kW         | 2.10 kW            |
| COP Tj = +7°C  | 5.61            | 4.07               |
| Cdh Tj = +7 °C | 0.960           | 0.970              |

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Page 12 of 49

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| 2.50 kW     | 2.50 kW  |
|-------------|--|
| 6.92        | 6.58   |
| 0.960       | 0.970  |
| 6.50 kW     | 5.50 kW  |
| 2.68        | 2.22   |
| 6.50 kW     | 5.30 kW  |
| 2.68        | 1.82   |
| 0.990       | 0.990  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| o w         | 0 W  |
| Electricity | Electricity  |
| 0.00 kW     | 0.70 kW  |
| 2986 kWh    | 3679 kWh   |
|             | 6.92  0.960  6.50 kW  2.68  6.50 kW  2.68  0.990  60 °C  15 W  15 W  0 W  Electricity  0.00 kW |

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 13$$  of 49 This information was generated by the HP KEYMARK database on 25 Feb 2023

| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 128 %       |  |
| СОР                             | 3.07        |  |
| Heating up time                 | 01:32 h:min |  |
| Standby power input             | 28.3 W      |  |
| Reference hot water temperature | 54.1 °C     |  |
| Mixed water at 40°C             | 255 I       |  |



# Model: AWHPR 6 MR + MIV-S/E 4-8 V200 R32

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | AWHPR 6 MR + MIV-S/E 4-8 V200 R32 |  |
| Application                         | Heating + DHW + low temp          |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone                        | n/a                               |  |
| Reversibility                       | Yes                               |  |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C         |  |

| General Data             |  |  |  |
|--------------------------|--|--|--|
| Power supply 1x230V 50Hz |  |  |  |

## Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 6.40 kW | 5.70 kW |  |
| El input                           | 1.28 kW | 1.97 kW |  |
| СОР                                | 5.00    | 2.90    |  |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

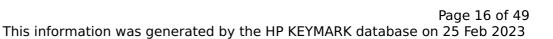
# Cooling





| EN 14511-2             |         |         |  |
|------------------------|---------|---------|--|
| +7°C/+12°C +18°C/+23°C |         |         |  |
| El input               | 2.30 kW | 1.43 kW |  |
| Cooling capacity       | 6.50    | 7.00    |  |
| EER                    | 2.83    | 4.88    |  |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.00 kW     |
| SEER                          | 3.95       | 5.99        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.00 kW     |
| EER Tj = 35°C                 | 2.83       | 4.88        |
| Pdc Tj = 30°C                 | 4.90 kW    | 5.39 kW     |
| EER Tj = 30°C                 | 3.99       | 6.65        |
| Cdc Tj = 30 °C                | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 3.10 kW    | 3.32 kW     |
| EER Tj = 25°C                 | 4.55       | 4.93        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.37 kW    | 1.78 kW     |
| EER Tj = 20°C                 | 3.96       | 9.48        |
| Cdc Tj = 20 °C                | 0.960      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | 0 W        | 0 W         |
| Annual energy consumption Qce | 987 kWh    | 701 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 31 dB(A)        | 31 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 57 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 177 %           | 132 %              |
| Prated         | 6.50 kW         | 6.00 kW            |
| SCOP           | 4.50            | 3.37               |
| Tbiv           | -10 °C          | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 5.90 kW         | 5.50 kW            |
| COP Tj = -7°C  | 3.16            | 2.22               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 3.50 kW         | 3.40 kW            |
| COP Tj = +2°C  | 4.48            | 3.37               |
| Cdh Tj = +2 °C | 0.980           | 0.980              |
| Pdh Tj = +7°C  | 2.30 kW         | 2.10 kW            |
| COP Tj = +7°C  | 5.61            | 4.07               |
| Cdh Tj = +7 °C | 0.960           | 0.970              |

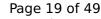
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Page 18 of 49

|   | · · · · · · · · · · · · · · · · · · · |             |
|---|---------------------------------------|-------------|
| Pdh Tj = 12°C                                       | 2.50 kW                               | 2.50 kW     |
| COP Tj = 12°C                                       | 6.92                                  | 6.58        |
| Cdh Tj = +12 °C                                     | 0.960                                 | 0.970       |
| Pdh Tj = Tbiv                                       | 6.50 kW                               | 5.50 kW     |
| COP Tj = Tbiv                                       | 2.68                                  | 2.22        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.50 kW                               | 5.30 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.68                                  | 1.82        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990                                 | 0.990       |
| WTOL  | 60 °C                                 | 60 °C       |
| Poff  | 15 W                                  | 15 W        |
| РТО   | 15 W                                  | 15 W        |
| PSB   | 15 W                                  | 15 W        |
| PCK   | o w                                   | o w         |
| Supplementary Heater: Type of energy input          | Electricity                           | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW                               | 0.70 kW     |
| Annual energy consumption Qhe                       | 2986 kWh                              | 3679 kWh    |

Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | М           |
| Efficiency ηDHW                 | 122 %       |
| СОР                             | 2.88        |
| Heating up time                 | 01:32 h:min |
| Standby power input             | 20.4 W      |
| Reference hot water temperature | 54.2 °C     |
| Mixed water at 40°C             | 261         |



## Model: AWHPR 6 MR + MIV-S/H 4-8 V200 R32

| Configure model   |                                   |  |
|---|-----------------------------------|--|
| Model name  | AWHPR 6 MR + MIV-S/H 4-8 V200 R32 |  |
| Application   | Heating + DHW + low temp          |  |
| Units   | Indoor + Outdoor                  |  |
| Climate Zone  | n/a                               |  |
| Reversibility   | Yes                               |  |
| Cooling mode application (optional) +7°C/12°C and +18°C/+23°C |                                   |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

## Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 6.40 kW         | 5.70 kW            |
| El input    | 1.28 kW         | 1.97 kW            |
| СОР         | 5.00            | 2.90               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

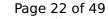
# Cooling





| EN 14511-2             |         |         |  |
|------------------------|---------|---------|--|
| +7°C/+12°C +18°C/+23°C |         |         |  |
| El input               | 2.30 kW | 1.43 kW |  |
| Cooling capacity       | 6.50    | 7.00    |  |
| EER                    | 2.83    | 4.88    |  |

#### EN 14825





This information was generated by the HP KEYMARK database on 25 Feb 2023 +7°C/+12°C +18°C/+23°C 6.50 kW 7.00 kW **Pdesignc SEER** 3.95 5.99  $Pdc Tj = 35^{\circ}C$ 6.50 kW 7.00 kW 2.83 4.88 EER Tj = 35°C  $Pdc Tj = 30^{\circ}C$ 4.90 kW 5.39 kW EER Tj = 30°C 3.99 6.65 Cdc Tj = 30 °C0.990 0.980  $Pdc Tj = 25^{\circ}C$ 3.10 kW 3.32 kW EER Tj = 25°C 4.55 4.93 Cdc Tj = 25 °C0.980 0.980  $Pdc Tj = 20^{\circ}C$ 1.37 kW 1.78 kW 3.96 9.48 EER Tj = 20°C Cdc Tj = 20 °C0.960 0.930 Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W

## Average Climate

Annual energy consumption Qce

**PCK** 

0 W

987 kWh

0 W

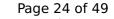
701 kWh



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 31 dB(A)        | 31 dB(A)           |
| Sound power level outdoor | 57 dB(A)        | 57 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 177 %           | 132 %              |
| Prated                  | 6.50 kW         | 6.00 kW            |
| SCOP                    | 4.50            | 3.37               |
| Tbiv                    | -10 °C          | -7 °C              |
| TOL                     | -10 °C          | -10 °C             |
| Pdh Tj = -7°C           | 5.90 kW         | 5.50 kW            |
| COP Tj = -7°C           | 3.16            | 2.22               |
| Cdh Tj = -7 °C          | 0.990           | 0.990              |
| Pdh Tj = $+2$ °C        | 3.50 kW         | 3.40 kW            |
| COP Tj = +2°C           | 4.48            | 3.37               |
| Cdh Tj = +2 °C          | 0.980           | 0.980              |
| Pdh Tj = $+7^{\circ}$ C | 2.30 kW         | 2.10 kW            |
| COP Tj = +7°C           | 5.61            | 4.07               |
| Cdh Tj = +7 °C          | 0.960           | 0.970              |

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#### This information was generated by the HP KEYMARK database on 25 Feb 2023 Pdh Tj = $12^{\circ}$ C 2.50 kW 2.50 kW 6.92 6.58 $COP Tj = 12^{\circ}C$ Cdh Tj = +12 °C 0.960 0.970 Pdh Tj = Tbiv6.50 kW 5.50 kW 2.68 COP Tj = Tbiv2.22 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.50 kW 5.30 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 1.82 2.68 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.990 0.990 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity 0.70 kW Supplementary Heater: PSUP 0.00 kW

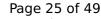
### Domestic Hot Water (DHW)

Annual energy consumption Qhe

### **Average Climate**

2986 kWh

3679 kWh





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | М           |  |
| Efficiency ηDHW                 | 122 %       |  |
| СОР                             | 2.88        |  |
| Heating up time                 | 01:32 h:min |  |
| Standby power input             | 20.4 W      |  |
| Reference hot water temperature | 54.2 °C     |  |
| Mixed water at 40°C             | 261         |  |



# Model: AWHPR 8 MR + MIV-S/E 4-8 V200 R32

| Configure model   |                          |  |
|---|--------------------------|--|
| Model name AWHPR 8 MR + MIV-S/E 4-8 V200 R32                  |                          |  |
| Application   | Heating + DHW + low temp |  |
| Units Indoor + Outdoor  |                          |  |
| Climate Zone n/a  |                          |  |
| Reversibility Yes   |                          |  |
| Cooling mode application (optional) +7°C/12°C and +18°C/+23°C |                          |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

## Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 7.67 kW         | 8.18 kW            |
| El input    | 1.62 kW         | 2.88 kW            |
| СОР         | 4.73            | 2.84               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

# Cooling





| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.33 kW    | 1.45 kW     |
| Cooling capacity | 6.50       | 7.10        |
| EER              | 2.79       | 4.88        |

#### EN 14825





This information was generated by the HP KEYMARK database on 25 Feb 2023 +7°C/+12°C +18°C/+23°C 6.50 kW 7.10 kW **Pdesignc SEER** 4.32 5.82  $Pdc Tj = 35^{\circ}C$ 6.50 kW 7.10 kW 2.79 4.88 EER Tj = 35°C  $Pdc Tj = 30^{\circ}C$ 4.97 kW 5.65 kW EER Tj = 30°C 3.96 6.71 Cdc Tj = 30 °C0.990 0.990  $Pdc Tj = 25^{\circ}C$ 3.35 kW 3.18 kW 4.74 5.26 EER Tj = 25°C Cdc Tj = 25 °C0.980 0.980  $Pdc Tj = 20^{\circ}C$ 1.55 kW 1.67 kW 5.50 7.40 EER Tj = 20°C Cdc Tj = 20 °C0.950 0.930 Poff 15 W 15 W PTO 15 W 15 W **PSB** 15 W 15 W

## Average Climate

Annual energy consumption Qce

**PCK** 

0 W

904 kWh

0 W

732 kWh



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 32 dB(A)        | 32 dB(A)           |
| Sound power level outdoor | 59 dB(A)        | 59 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 125 %              |
| Prated         | 7.00 kW         | 7.00 kW            |
| SCOP           | 4.48            | 3.21               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 6.06 kW         | 6.19 kW            |
| COP Tj = -7°C  | 2.97            | 1.95               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 4.12 kW         | 3.79 kW            |
| COP Tj = +2°C  | 4.46            | 3.24               |
| Cdh Tj = +2 °C | 0.980           | 0.990              |
| Pdh Tj = +7°C  | 2.78 kW         | 2.49 kW            |
| COP Tj = +7°C  | 5.70            | 4.10               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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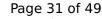


Page 30 of 49

#### This information was generated by the HP KEYMARK database on 25 Feb 2023

|   | -           | ,           |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 2.67 kW     | 2.55 kW     |
| COP Tj = 12°C                                       | 7.80        | 6.10        |
| Cdh Tj = +12 °C                                     | 0.960       | 0.960       |
| Pdh Tj = Tbiv                                       | 6.06 kW     | 6.19 kW     |
| COP Tj = Tbiv                                       | 2.97        | 1.95        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.64 kW     | 4.90 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.58        | 1.66        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990       | 0.990       |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| РТО   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.36 kW     | 2.10 kW     |
| Annual energy consumption Qhe                       | 3225 kWh    | 4504 kWh    |
|   |             |             |

Domestic Hot Water (DHW)





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 125 %       |  |
| СОР                             | 2.99        |  |
| Heating up time                 | 01:41 h:min |  |
| Standby power input             | 30.0 W      |  |
| Reference hot water temperature | 54.9 °C     |  |
| Mixed water at 40°C             | 264 I       |  |



# Model: AWHPR 8 MR + MIV-S/H 4-8 V200 R32

| Configure model                              |                           |  |
|--|---------------------------|--|
| Model name AWHPR 8 MR + MIV-S/H 4-8 V200 R32 |                           |  |
| Application                                  | Heating + DHW + low temp  |  |
| Units  | Indoor + Outdoor          |  |
| Climate Zone                                 | n/a                       |  |
| Reversibility                                | Yes                       |  |
| Cooling mode application (optional)          | +7°C/12°C and +18°C/+23°C |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

## Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 7.67 kW         | 8.18 kW            |
| El input    | 1.62 kW         | 2.88 kW            |
| СОР         | 4.73            | 2.84               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

# Cooling

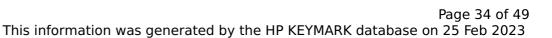


Page 33 of 49

This information was generated by the HP KEYMARK database on 25 Feb 2023

| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.33 kW    | 1.45 kW     |
| Cooling capacity | 6.50       | 7.10        |
| EER              | 2.79       | 4.88        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.10 kW     |
| SEER                          | 4.32       | 5.82        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.10 kW     |
| EER Tj = 35°C                 | 2.79       | 4.88        |
| Pdc Tj = 30°C                 | 4.97 kW    | 5.65 kW     |
| EER Tj = 30°C                 | 3.96       | 6.71        |
| Cdc Tj = 30 °C                | 0.990      | 0.990       |
| Pdc Tj = 25°C                 | 3.35 kW    | 3.18 kW     |
| EER Tj = 25°C                 | 4.74       | 5.26        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.55 kW    | 1.67 kW     |
| EER Tj = 20°C                 | 5.50       | 7.40        |
| Cdc Tj = 20 °C                | 0.950      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| PTO                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 904 kWh    | 732 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 32 dB(A)        | 32 dB(A)           |
| Sound power level outdoor | 59 dB(A)        | 59 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 125 %              |
| Prated         | 7.00 kW         | 7.00 kW            |
| SCOP           | 4.48            | 3.21               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 6.06 kW         | 6.19 kW            |
| COP Tj = -7°C  | 2.97            | 1.95               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 4.12 kW         | 3.79 kW            |
| COP Tj = +2°C  | 4.46            | 3.24               |
| Cdh Tj = +2 °C | 0.980           | 0.990              |
| Pdh Tj = +7°C  | 2.78 kW         | 2.49 kW            |
| COP Tj = +7°C  | 5.70            | 4.10               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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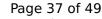


Page 36 of 49

### This information was generated by the HP KEYMARK database on 25 Feb 2023

| 2.67 kW     | 2.55 kW  |
|-------------|--|
| 7.80        | 6.10   |
| 0.960       | 0.960  |
| 6.06 kW     | 6.19 kW  |
| 2.97        | 1.95   |
| 6.64 kW     | 4.90 kW  |
| 2.58        | 1.66   |
| 0.990       | 0.990  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 0 W         | 0 W  |
| Electricity | Electricity  |
| 0.36 kW     | 2.10 kW  |
| 3225 kWh    | 4504 kWh   |
|             | 7.80  0.960  6.06 kW  2.97  6.64 kW  2.58  0.990  60 °C  15 W  15 W  0 W  Electricity  0.36 kW |

Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency ηDHW                 | 125 %       |
| СОР                             | 2.99        |
| Heating up time                 | 01:41 h:min |
| Standby power input             | 30.0 W      |
| Reference hot water temperature | 54.9 °C     |
| Mixed water at 40°C             | 264         |



# Model: AWHPR 8 MR + MIV-S/E 4-8 V200 R32

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | AWHPR 8 MR + MIV-S/E 4-8 V200 R32 |  |
| Application                         | Heating + DHW + low temp          |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone n/a                    |                                   |  |
| Reversibility Yes                   |                                   |  |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C         |  |

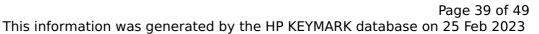
| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

#### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 7.67 kW         | 8.18 kW            |
| El input    | 1.62 kW         | 2.88 kW            |
| СОР         | 4.73            | 2.84               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

# Cooling





| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.33 kW    | 1.45 kW     |
| Cooling capacity | 6.50       | 7.10        |
| EER              | 2.79       | 4.88        |

### EN 14825





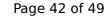
|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.10 kW     |
| SEER                          | 4.32       | 5.82        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.10 kW     |
| EER Tj = 35°C                 | 2.79       | 4.88        |
| Pdc Tj = 30°C                 | 4.97 kW    | 5.65 kW     |
| EER Tj = 30°C                 | 3.96       | 6.71        |
| Cdc Tj = 30 °C                | 0.990      | 0.990       |
| Pdc Tj = 25°C                 | 3.35 kW    | 3.18 kW     |
| EER Tj = 25°C                 | 4.74       | 5.26        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.55 kW    | 1.67 kW     |
| EER Tj = 20°C                 | 5.50       | 7.40        |
| Cdc Tj = 20 °C                | 0.950      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 904 kWh    | 732 kWh     |



|                           | EN 12102-1      |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 32 dB(A)        | 32 dB(A)           |
| Sound power level outdoor | 59 dB(A)        | 59 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 125 %              |
| Prated         | 7.00 kW         | 7.00 kW            |
| SCOP           | 4.48            | 3.21               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 6.06 kW         | 6.19 kW            |
| COP Tj = -7°C  | 2.97            | 1.95               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 4.12 kW         | 3.79 kW            |
| COP Tj = +2°C  | 4.46            | 3.24               |
| Cdh Tj = +2 °C | 0.980           | 0.990              |
| Pdh Tj = +7°C  | 2.78 kW         | 2.49 kW            |
| COP Tj = +7°C  | 5.70            | 4.10               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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| Pdh Tj = 12°C                                       | 2.67 kW     | 2.55 kW     |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.80        | 6.10        |
| Cdh Tj = +12 °C                                     | 0.960       | 0.960       |
| Pdh Tj = Tbiv                                       | 6.06 kW     | 6.19 kW     |
| COP Tj = Tbiv                                       | 2.97        | 1.95        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.64 kW     | 4.90 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.58        | 1.66        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990       | 0.990       |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| PTO   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | o w         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.36 kW     | 2.10 kW     |
| Annual energy consumption Qhe                       | 3225 kWh    | 4504 kWh    |
|   |             |             |

### Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | М           |
| Efficiency ηDHW                 | 121 %       |
| СОР                             | 2.84        |
| Heating up time                 | 01:41 h:min |
| Standby power input             | 22.0 W      |
| Reference hot water temperature | 55.2 °C     |
| Mixed water at 40°C             | 272         |



## Model: AWHPR 8 MR + MIV-S/H 4-8 V200 R32

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | AWHPR 8 MR + MIV-S/H 4-8 V200 R32 |  |
| Application                         | Heating + DHW + low temp          |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone                        | n/a                               |  |
| Reversibility Yes                   |                                   |  |
| Cooling mode application (optional) | +7°C/12°C and +18°C/+23°C         |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

#### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 7.67 kW         | 8.18 kW            |
| El input    | 1.62 kW         | 2.88 kW            |
| СОР         | 4.73            | 2.84               |

| EN 14511-4                                 |        |  |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed |  |
| Complete power supply failure              | passed |  |
| Defrost test                               | passed |  |
| Starting and operating test                | passed |  |

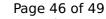
# Cooling





| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 2.33 kW    | 1.45 kW     |
| Cooling capacity | 6.50       | 7.10        |
| EER              | 2.79       | 4.88        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 6.50 kW    | 7.10 kW     |
| SEER                          | 4.32       | 5.82        |
| Pdc Tj = 35°C                 | 6.50 kW    | 7.10 kW     |
| EER Tj = 35°C                 | 2.79       | 4.88        |
| Pdc Tj = 30°C                 | 4.97 kW    | 5.65 kW     |
| EER Tj = 30°C                 | 3.96       | 6.71        |
| Cdc Tj = 30 °C                | 0.990      | 0.990       |
| Pdc Tj = 25°C                 | 3.35 kW    | 3.18 kW     |
| EER Tj = 25°C                 | 4.74       | 5.26        |
| Cdc Tj = 25 °C                | 0.980      | 0.980       |
| Pdc Tj = 20°C                 | 1.55 kW    | 1.67 kW     |
| EER Tj = 20°C                 | 5.50       | 7.40        |
| Cdc Tj = 20 °C                | 0.950      | 0.930       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 904 kWh    | 732 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 32 dB(A)        | 32 dB(A)           |
| Sound power level outdoor | 59 dB(A)        | 59 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 125 %              |
| Prated         | 7.00 kW         | 7.00 kW            |
| SCOP           | 4.48            | 3.21               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 6.06 kW         | 6.19 kW            |
| COP Tj = -7°C  | 2.97            | 1.95               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 4.12 kW         | 3.79 kW            |
| COP Tj = +2°C  | 4.46            | 3.24               |
| Cdh Tj = +2 °C | 0.980           | 0.990              |
| Pdh Tj = +7°C  | 2.78 kW         | 2.49 kW            |
| COP Tj = +7°C  | 5.70            | 4.10               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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| 2.67 kW     | 2.55 kW  |
|-------------|--|
| 7.80        | 6.10   |
| 0.960       | 0.960  |
| 6.06 kW     | 6.19 kW  |
| 2.97        | 1.95   |
| 6.64 kW     | 4.90 kW  |
| 2.58        | 1.66   |
| 0.990       | 0.990  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 0 W         | 0 W  |
| Electricity | Electricity  |
| 0.36 kW     | 2.10 kW  |
| 3225 kWh    | 4504 kWh   |
|             | 7.80  0.960  6.06 kW  2.97  6.64 kW  2.58  0.990  60 °C  15 W  15 W  0 W  Electricity  0.36 kW |

Domestic Hot Water (DHW)





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | М           |  |
| Efficiency ηDHW                 | 121 %       |  |
| СОР                             | 2.84        |  |
| Heating up time                 | 01:41 h:min |  |
| Standby power input             | 22.0 W      |  |
| Reference hot water temperature | 55.2 °C     |  |
| Mixed water at 40°C             | 272         |  |