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#### **Login**

| Summary of  | OERTLI OENOVIAPAC-C COLONNE R32 4.5 MR | Reg. No. | 21HK0013/00 |
|---|--|----------|-------------|
| Certificate Holder  | Certificate Holder                     |          |             |
| Name  | BDR Thermea FR (OERTLI)                |          |             |
| Address   | 57 rue de la Gare                      | Zip      | 67580       |
| City  | Mertzwiller                            | Country  | France      |
| Certification Body  | Kiwa Nederland B.V.                    |          |             |
| Subtype title   | OERTLI OENOVIAPAC-C COLONNE R32 4.5 MR |          |             |
| Heat Pump Type  | Outdoor Air/Water                      |          |             |
| Refrigerant   | R32                                    |          |             |
| Mass of Refrigerant                                       | gerant 1.2 kg                          |          |             |
| Certification Date  | ate 12.11.2021                         |          |             |
| Testing basis European KEYMARK Scheme for Heat Pumps (v9) |  |          |             |



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

| Configure model   |                                 |  |
|---|---------------------------------|--|
| Model name  | AWHPR 4 MR + MHC-V200/E 4-8 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 | 4.60 kW         | 4.10 kW            |
| El input    | 0.88 kW         | 1.55 kW            |
| СОР         | 5.20            | 2.65               |

| 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               | 1.33 kW | 1.16 kW |
| Cooling capacity       | 4.50    | 6.00    |
| EER                    | 3.39    | 5.18    |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 4.50 kW    | 6.00 kW     |
| SEER                          | 4.61       | 7.99        |
| Pdc Tj = 35°C                 | 4.50 kW    | 6.00 kW     |
| EER Tj = 35°C                 | 3.39       | 5.18        |
| Pdc Tj = 30°C                 | 3.32 kW    | 4.50 kW     |
| EER Tj = 30°C                 | 3.97       | 7.09        |
| Cdc                           | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 2.30 kW    | 2.80 kW     |
| EER Tj = 25°C                 | 5.23       | 9.20        |
| Cdc                           | 0.980      | 0.950       |
| Pdc Tj = 20°C                 | 1.85 kW    | 2.85 kW     |
| EER Tj = 20°C                 | 6.40       | 12.23       |
| Cdc                           | 0.950      | 0.940       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 586 kWh    | 450 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 29 dB(A)        | 29 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 134 %              |
| Prated         | 5.00 kW         | 5.00 kW            |
| SCOP           | 4.48            | 3.43               |
| Tbiv           | -10 °C          | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 4.40 kW         | 4.50 kW            |
| COP Tj = -7°C  | 3.18            | 2.15               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 2.70 kW         | 2.70 kW            |
| COP Tj = +2°C  | 4.44            | 3.39               |
| Cdh Tj = +2 °C | 0.990           | 0.990              |
| Pdh Tj = +7°C  | 1.75 kW         | 1.74 kW            |
| COP Tj = +7°C  | 5.37            | 4.44               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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| 2.70 kW     | 2.10 kW  |
|-------------|--|
| 8.78        | 7.29   |
| 0.960       | 0.960  |
| 5.00 kW     | 4.50 kW  |
| 3.00        | 2.15   |
| 5.00 kW     | 4.30 kW  |
| 3.00        | 1.83   |
| 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  |
| 0.00 kW     | 0.70 kW  |
| 2305 kWh    | 3009 kWh   |
|             | 8.78  0.960  5.00 kW  3.00  5.00 kW  3.00  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                 | 133 %      |
| СОР                             | 3.17       |
| Heating up time                 | 1:37 h:min |
| Standby power input             | 27.9 W     |
| Reference hot water temperature | 53.8 °C    |
| Mixed water at 40°C             | 255 I      |



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

| Configure model   |                                 |  |
|---|---------------------------------|--|
| Model name  | AWHPR 4 MR + MHC-V200/H 4-8 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 n/a |  |  |

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4.60 kW | 4.10 kW |  |
| El input                           | 0.88 kW | 1.55 kW |  |
| СОР                                | 5.20    | 2.65    |  |

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

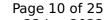
# Cooling





| EN 14511-2             |         |         |  |
|------------------------|---------|---------|--|
| +7°C/+12°C +18°C/+23°C |         |         |  |
| El input               | 1.33 kW | 1.16 kW |  |
| Cooling capacity       | 4.50    | 6.00    |  |
| EER                    | 3.39    | 5.18    |  |

#### EN 14825





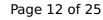
|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 4.50 kW    | 6.00 kW     |
| SEER                          | 4.61       | 7.99        |
| Pdc Tj = 35°C                 | 4.50 kW    | 6.00 kW     |
| EER Tj = 35°C                 | 3.39       | 5.18        |
| Pdc Tj = 30°C                 | 3.32 kW    | 4.50 kW     |
| EER Tj = 30°C                 | 3.97       | 7.09        |
| Cdc                           | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 2.30 kW    | 2.80 kW     |
| EER Tj = 25°C                 | 5.23       | 9.20        |
| Cdc                           | 0.980      | 0.950       |
| Pdc Tj = 20°C                 | 1.85 kW    | 2.85 kW     |
| EER Tj = 20°C                 | 6.40       | 12.23       |
| Cdc                           | 0.950      | 0.940       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 586 kWh    | 450 kWh     |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 29 dB(A)        | 29 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 176 %           | 134 %              |
| Prated         | 5.00 kW         | 5.00 kW            |
| SCOP           | 4.48            | 3.43               |
| Tbiv           | -10 °C          | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 4.40 kW         | 4.50 kW            |
| COP Tj = -7°C  | 3.18            | 2.15               |
| Cdh Tj = -7 °C | 0.990           | 0.990              |
| Pdh Tj = +2°C  | 2.70 kW         | 2.70 kW            |
| COP Tj = +2°C  | 4.44            | 3.39               |
| Cdh Tj = +2 °C | 0.990           | 0.990              |
| Pdh Tj = +7°C  | 1.75 kW         | 1.74 kW            |
| COP Tj = +7°C  | 5.37            | 4.44               |
| Cdh Tj = +7 °C | 0.970           | 0.970              |

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| Pdh Tj = 12°C                                       | 2.70 kW     | 2.10 kW     |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 8.78        | 7.29        |
| Cdh Tj = +12 °C                                     | 0.960       | 0.960       |
| Pdh Tj = Tbiv                                       | 5.00 kW     | 4.50 kW     |
| COP Tj = Tbiv                                       | 3.00        | 2.15        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 4.30 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.00        | 1.83        |
| 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                          | 0.00 kW     | 0.70 kW     |
| Annual energy consumption Qhe                       | 2305 kWh    | 3009 kWh    |
|   |             |             |

## Domestic Hot Water (DHW)



| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | L          |  |
| Efficiency ηDHW                 | 133 %      |  |
| СОР                             | 3.17       |  |
| Heating up time                 | 1:37 h:min |  |
| Standby power input             | 27.9 W     |  |
| Reference hot water temperature | 53.8 °C    |  |
| Mixed water at 40°C             | 255 I      |  |



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

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

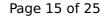
| General Data     |  |  |
|------------------|--|--|
| Power supply n/a |  |  |

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4.60 kW | 4.10 kW |  |
| El input                           | 0.88 kW | 1.55 kW |  |
| СОР                                | 5.20    | 2.65    |  |

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

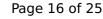
# Cooling





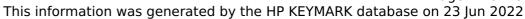
| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 1.33 kW    | 1.16 kW     |
| Cooling capacity | 4.50       | 6.00        |
| EER              | 3.39       | 5.18        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 4.50 kW    | 6.00 kW     |
| SEER                          | 4.61       | 7.99        |
| Pdc Tj = 35°C                 | 4.50 kW    | 6.00 kW     |
| EER Tj = 35°C                 | 3.39       | 5.18        |
| Pdc Tj = 30°C                 | 3.32 kW    | 4.50 kW     |
| EER Tj = 30°C                 | 3.97       | 7.09        |
| Cdc                           | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 2.30 kW    | 2.80 kW     |
| EER Tj = 25°C                 | 5.23       | 9.20        |
| Cdc                           | 0.980      | 0.950       |
| Pdc Tj = 20°C                 | 1.85 kW    | 2.85 kW     |
| EER Tj = 20°C                 | 6.40       | 12.23       |
| Cdc                           | 0.950      | 0.940       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 586 kWh    | 450 kWh     |

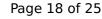




| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 29 dB(A)        | 29 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

| EN 14825               |                 |                    |
|------------------------|-----------------|--------------------|
|                        | Low temperature | Medium temperature |
| $\eta_{s}$             | 176 %           | 134 %              |
| Prated                 | 5.00 kW         | 5.00 kW            |
| SCOP                   | 4.48            | 3.43               |
| Tbiv                   | -10 °C          | -7 °C              |
| TOL                    | -10 °C          | -10 °C             |
| Pdh Tj = -7°C          | 4.40 kW         | 4.50 kW            |
| COP Tj = -7°C          | 3.18            | 2.15               |
| Cdh Tj = -7 °C         | 0.990           | 0.990              |
| Pdh Tj = +2°C          | 2.70 kW         | 2.70 kW            |
| COP Tj = +2°C          | 4.44            | 3.39               |
| Cdh Tj = +2 °C         | 0.990           | 0.990              |
| Pdh Tj = +7°C          | 1.75 kW         | 1.74 kW            |
| $COP Tj = +7^{\circ}C$ | 5.37            | 4.44               |
| Cdh Tj = +7 °C         | 0.970           | 0.970              |

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| 2.70 kW     | 2.10 kW  |
|-------------|--|
| 8.78        | 7.29   |
| 0.960       | 0.960  |
| 5.00 kW     | 4.50 kW  |
| 3.00        | 2.15   |
| 5.00 kW     | 4.30 kW  |
| 3.00        | 1.83   |
| 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  |
| 0.00 kW     | 0.70 kW  |
| 2305 kWh    | 3009 kWh   |
|             | 8.78  0.960  5.00 kW  3.00  5.00 kW  3.00  0.990  60 °C  15 W  15 W  0 W  Electricity  0.00 kW |

Domestic Hot Water (DHW)



| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | М          |  |
| Efficiency ηDHW                 | 127 %      |  |
| СОР                             | 2.98       |  |
| Heating up time                 | 1:39 h:min |  |
| Standby power input             | 20.9 W     |  |
| Reference hot water temperature | 53.8 °C    |  |
| Mixed water at 40°C             | 260 I      |  |

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

| Configure model                            |                           |  |
|--|---------------------------|--|
| Model name AWHPR 4 MR + MHC-V200/H 4-8 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 |  |

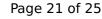
| General Data |     |  |
|--------------|-----|--|
| Power supply | n/a |  |

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4.60 kW | 4.10 kW |  |
| El input                           | 0.88 kW | 1.55 kW |  |
| СОР                                | 5.20    | 2.65    |  |

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

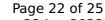
# Cooling





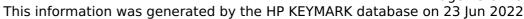
| EN 14511-2       |            |             |
|------------------|------------|-------------|
|                  | +7°C/+12°C | +18°C/+23°C |
| El input         | 1.33 kW    | 1.16 kW     |
| Cooling capacity | 4.50       | 6.00        |
| EER              | 3.39       | 5.18        |

#### EN 14825





|                               | +7°C/+12°C | +18°C/+23°C |
|-------------------------------|------------|-------------|
| Pdesignc                      | 4.50 kW    | 6.00 kW     |
| SEER                          | 4.61       | 7.99        |
| Pdc Tj = 35°C                 | 4.50 kW    | 6.00 kW     |
| EER Tj = 35°C                 | 3.39       | 5.18        |
| Pdc Tj = 30°C                 | 3.32 kW    | 4.50 kW     |
| EER Tj = 30°C                 | 3.97       | 7.09        |
| Cdc                           | 0.990      | 0.980       |
| Pdc Tj = 25°C                 | 2.30 kW    | 2.80 kW     |
| EER Tj = 25°C                 | 5.23       | 9.20        |
| Cdc                           | 0.980      | 0.950       |
| Pdc Tj = 20°C                 | 1.85 kW    | 2.85 kW     |
| EER Tj = 20°C                 | 6.40       | 12.23       |
| Cdc                           | 0.950      | 0.940       |
| Poff                          | 15 W       | 15 W        |
| РТО                           | 15 W       | 15 W        |
| PSB                           | 15 W       | 15 W        |
| PCK                           | o w        | o w         |
| Annual energy consumption Qce | 586 kWh    | 450 kWh     |





| EN 12102-1                |                 |                    |  |  |
|---------------------------|-----------------|--------------------|--|--|
|                           | Low temperature | Medium temperature |  |  |
| Sound power level indoor  | 29 dB(A)        | 29 dB(A)           |  |  |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |  |  |

| EN 14825               |                 |                    |  |
|------------------------|-----------------|--------------------|--|
|                        | Low temperature | Medium temperature |  |
| $\eta_{s}$             | 176 %           | 134 %              |  |
| Prated                 | 5.00 kW         | 5.00 kW            |  |
| SCOP                   | 4.48            | 3.43               |  |
| Tbiv                   | -10 °C          | -7 °C              |  |
| TOL                    | -10 °C          | -10 °C             |  |
| Pdh Tj = -7°C          | 4.40 kW         | 4.50 kW            |  |
| $COPTj = -7^{\circ}C$  | 3.18            | 2.15               |  |
| Cdh Tj = -7 °C         | 0.990           | 0.990              |  |
| Pdh Tj = +2°C          | 2.70 kW         | 2.70 kW            |  |
| $COPTj = +2^{\circ}C$  | 4.44            | 3.39               |  |
| Cdh Tj = +2 °C         | 0.990           | 0.990              |  |
| Pdh Tj = +7°C          | 1.75 kW         | 1.74 kW            |  |
| $COP Tj = +7^{\circ}C$ | 5.37            | 4.44               |  |
| Cdh Tj = +7 °C         | 0.970           | 0.970              |  |
|                        |                 |                    |  |

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| 2.70 kW     | 2.10 kW  |
|-------------|--|
| 8.78        | 7.29   |
| 0.960       | 0.960  |
| 5.00 kW     | 4.50 kW  |
| 3.00        | 2.15   |
| 5.00 kW     | 4.30 kW  |
| 3.00        | 1.83   |
| 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  |
| 0.00 kW     | 0.70 kW  |
| 2305 kWh    | 3009 kWh   |
|             | 8.78  0.960  5.00 kW  3.00  5.00 kW  3.00  0.990  60 °C  15 W  15 W  0 W  Electricity  0.00 kW |

Domestic Hot Water (DHW)



| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | М          |  |
| Efficiency ηDHW                 | 127 %      |  |
| СОР                             | 2.98       |  |
| Heating up time                 | 1:39 h:min |  |
| Standby power input             | 20.9 W     |  |
| Reference hot water temperature | 53.8 °C    |  |
| Mixed water at 40°C             | 260 I      |  |