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|                     |                                       |          |             |
|---------------------|---------------------------------------|----------|-------------|
| Summary of          | Platinum BC Plus Monobloc 12 16       | Reg. No. | 041-K022-03 |
| Certificate Holder  |                                       |          |             |
| Name                | BAXI Climatización S.L.U              |          |             |
| Address             | López de Hoyos 35                     | Zip      | 28002       |
| City                | Madrid                                | Country  | Spain       |
| Certification Body  | BRE Global Limited                    |          |             |
| Subtype title       | Platinum BC Plus Monobloc 12 16       |          |             |
| Heat Pump Type      | Outdoor Air/Water                     |          |             |
| Refrigerant         | R32                                   |          |             |
| Mass of Refrigerant | 1.84 kg                               |          |             |
| Certification Date  | 18.03.2022                            |          |             |
| Testing basis       | Heat Pump Keymark Scheme Rules Rev 09 |          |             |

# Model: Platinum BC Plus Monobloc 12 MR-2

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | Platinum BC Plus Monobloc 12 MR-2 |
| Application                         | Heating (medium temp)             |
| Units                               | Outdoor                           |
| Climate Zone                        | Colder Climate + Warmer Climate   |
| Reversibility                       | Yes                               |
| Cooling mode application (optional) | n/a                               |

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

## Heating

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

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 12.10 kW        | 11.90 kW           |
| El input    | 2.44 kW         | 3.90 kW            |
| COP         | 4.95            | 3.05               |

## Average Climate

### EN 12102-1

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

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 189 %           | 135 %              |
| Prated         | 12.00 kW        | 11.58 kW           |
| SCOP           | 4.81            | 3.45               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.61 kW        | 10.25 kW           |
| COP Tj = -7°C  | 2.88            | 2.01               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 6.69 kW         | 6.52 kW            |
| COP Tj = +2°C  | 4.65            | 3.44               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 4.44 kW         | 4.36 kW            |
| COP Tj = +7°C  | 6.62            | 4.59               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |
| Pdh Tj = 12°C  | 3.74 kW         | 3.30 kW            |

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|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = 12°C                                       | 8.47        | 6.05        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 10.61 kW    | 10.25 kW    |
| COP Tj = Tbiv                                       | 2.88        | 2.01        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.75 kW    | 9.10 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77        | 1.79        |
| 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         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.26 kW     | 2.50 kW     |
| Annual energy consumption Qhe                       | 5152 kWh    | 6927 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |

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|                                                     |          |          |
|-----------------------------------------------------|----------|----------|
| $\eta_s$                                            | 256 %    | 174 %    |
| Prated                                              | 11.11 kW | 12.51 kW |
| SCOP                                                | 6.53     | 4.43     |
| Tbiv                                                | 7 °C     | 7 °C     |
| TOL                                                 | 2 °C     | 2 °C     |
| Pdh Tj = +2°C                                       | 11.11 kW | 12.08 kW |
| COP Tj = +2°C                                       | 3.59     | 2.31     |
| Cdh Tj = +2 °C                                      | 0.900    | 0.900    |
| Pdh Tj = +7°C                                       | 7.14 kW  | 8.04 kW  |
| COP Tj = +7°C                                       | 5.87     | 3.86     |
| Cdh Tj = +7 °C                                      | 0.900    | 0.900    |
| Pdh Tj = 12°C                                       | 3.56 kW  | 3.75 kW  |
| COP Tj = 12°C                                       | 7.94     | 5.70     |
| Cdh Tj = +12 °C                                     | 0.900    | 0.900    |
| Pdh Tj = Tbiv                                       | 7.14 kW  | 8.04 kW  |
| COP Tj = Tbiv                                       | 5.87     | 3.86     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.11 kW | 12.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.59     | 2.31     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |          |          |
| WTOL                                                | 65 °C    | 65 °C    |

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|                                            |             |             |
|--------------------------------------------|-------------|-------------|
| Poff                                       | 14 W        | 14 W        |
| PTO                                        | 24 W        | 24 W        |
| PSB                                        | 14 W        | 14 W        |
| PCK                                        | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 0.00 kW     | 0.44 kW     |
| Annual energy consumption Qhe              | 2292 kWh    | 3776 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 160 %                  | 118 %                     |
| Prated          | 11.38 kW               | 10.32 kW                  |
| SCOP            | 4.08                   | 3.02                      |
| Tbiv            | -15 °C                 | -15 °C                    |
| TOL             | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C   | 7.05 kW                | 6.63 kW                   |

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|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = -7°C                                       | 3.48        | 2.63        |
| Cdh Tj = -7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +2°C                                       | 4.68 kW     | 4.07 kW     |
| COP Tj = +2°C                                       | 4.96        | 3.60        |
| Cdh Tj = +2 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +7°C                                       | 3.14 kW     | 2.78 kW     |
| COP Tj = +7°C                                       | 6.10        | 4.54        |
| Cdh Tj = +7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = 12°C                                       | 3.57 kW     | 3.33 kW     |
| COP Tj = 12°C                                       | 7.87        | 6.25        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 9.28 kW     | 8.42 kW     |
| COP Tj = Tbiv                                       | 2.59        | 1.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.01 kW     | 4.20 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.98        | 1.13        |
| 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         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
|                                                     |             |             |

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|                                                                      |          |          |
|----------------------------------------------------------------------|----------|----------|
| Supplementary Heater: PSUP                                           | 4.37 kW  | 6.12 kW  |
| Annual energy consumption $Q_{he}$                                   | 6870 kWh | 8419 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ ) | 9.28     | 8.42     |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ )    | 2.59     | 1.84     |
| $C_{dh} T_j = -15^{\circ}\text{C}$                                   | 0.90     | 0.90     |

# Model: Platinum BC Plus Monobloc 16 MR-2

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | Platinum BC Plus Monobloc 16 MR-2 |
| Application                         | Heating (medium temp)             |
| Units                               | Outdoor                           |
| Climate Zone                        | Colder Climate + Warmer Climate   |
| Reversibility                       | Yes                               |
| Cooling mode application (optional) | n/a                               |

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

## Heating

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

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 15.90 kW        | 16.00 kW           |
| El input    | 3.53 kW         | 5.61 kW            |
| COP         | 4.50            | 2.85               |

## Average Climate

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### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 68 dB(A)        | 68 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 182 %           | 133 %              |
| Prated         | 15.21 kW        | 13.02 kW           |
| SCOP           | 4.62            | 3.41               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 13.45 kW        | 11.52 kW           |
| COP Tj = -7°C  | 2.72            | 1.99               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 8.57 kW         | 7.18 kW            |
| COP Tj = +2°C  | 4.41            | 3.34               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 5.70 kW         | 4.68 kW            |
| COP Tj = +7°C  | 6.56            | 4.61               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |
| Pdh Tj = 12°C  | 3.78 kW         | 3.32 kW            |

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|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = 12°C                                       | 8.51        | 6.07        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 13.45 kW    | 11.52 kW    |
| COP Tj = Tbiv                                       | 2.72        | 1.99        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.52 kW    | 10.33 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.80        |
| 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         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.68 kW     | 2.67 kW     |
| Annual energy consumption Qhe                       | 6804 kWh    | 7895 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |

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|                                                     |          |          |
|-----------------------------------------------------|----------|----------|
| $\eta_s$                                            | 249 %    | 176 %    |
| Prated                                              | 13.09 kW | 14.17 kW |
| SCOP                                                | 6.33     | 4.48     |
| Tbiv                                                | 7 °C     | 7 °C     |
| TOL                                                 | 2 °C     | 2 °C     |
| Pdh Tj = +2°C                                       | 13.09 kW | 13.38 kW |
| COP Tj = +2°C                                       | 3.35     | 2.29     |
| Cdh Tj = +2 °C                                      | 0.900    | 0.900    |
| Pdh Tj = +7°C                                       | 8.42 kW  | 9.11 kW  |
| COP Tj = +7°C                                       | 5.36     | 3.89     |
| Cdh Tj = +7 °C                                      | 0.900    | 0.900    |
| Pdh Tj = 12°C                                       | 3.88 kW  | 4.06 kW  |
| COP Tj = 12°C                                       | 8.11     | 5.86     |
| Cdh Tj = +12 °C                                     | 0.900    | 0.900    |
| Pdh Tj = Tbiv                                       | 8.42 kW  | 9.11 kW  |
| COP Tj = Tbiv                                       | 5.36     | 3.89     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.09 kW | 13.38 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35     | 2.29     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |          |          |
| WTOL                                                | 65 °C    | 65 °C    |

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|                                            |             |             |
|--------------------------------------------|-------------|-------------|
| Poff                                       | 14 W        | 14 W        |
| PTO                                        | 24 W        | 24 W        |
| PSB                                        | 14 W        | 14 W        |
| PCK                                        | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 0.00 kW     | 0.79 kW     |
| Annual energy consumption Qhe              | 2781 kWh    | 4231 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 158 %                  | 122 %                     |
| Prated          | 13.76 kW               | 11.79 kW                  |
| SCOP            | 4.02                   | 3.12                      |
| Tbiv            | -15 °C                 | -15 °C                    |
| TOL             | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C   | 8.31 kW                | 7.64 kW                   |

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|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = -7°C                                       | 3.37        | 2.65        |
| Cdh Tj = -7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +2°C                                       | 5.27 kW     | 4.43 kW     |
| COP Tj = +2°C                                       | 4.86        | 3.79        |
| Cdh Tj = +2 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +7°C                                       | 3.62 kW     | 2.98 kW     |
| COP Tj = +7°C                                       | 6.49        | 4.81        |
| Cdh Tj = +7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = 12°C                                       | 3.35 kW     | 3.43 kW     |
| COP Tj = 12°C                                       | 7.40        | 6.29        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 11.22 kW    | 9.62 kW     |
| COP Tj = Tbiv                                       | 2.43        | 1.86        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.89 kW     | 5.22 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.23        |
| 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         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
|                                                     |             |             |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                                      |          |          |
|----------------------------------------------------------------------|----------|----------|
| Supplementary Heater: PSUP                                           | 4.87 kW  | 6.57 kW  |
| Annual energy consumption $Q_{he}$                                   | 8431 kWh | 9309 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ ) | 11.22    | 9.62     |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ )    | 2.43     | 1.86     |
| $C_{dh} T_j = -15^{\circ}\text{C}$                                   | 0.90     | 0.90     |

# Model: Platinum BC Plus Monobloc 12 TR-2

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | Platinum BC Plus Monobloc 12 TR-2 |
| Application                         | Heating (medium temp)             |
| Units                               | Outdoor                           |
| Climate Zone                        | Colder Climate + Warmer Climate   |
| Reversibility                       | Yes                               |
| Cooling mode application (optional) | n/a                               |

| General Data |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

## Heating

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

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 12.10 kW        | 11.90 kW           |
| El input    | 2.44 kW         | 3.90 kW            |
| COP         | 4.95            | 3.05               |

## Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

### EN 12102-1

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

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 189 %           | 135 %              |
| Prated         | 12.00 kW        | 11.58 kW           |
| SCOP           | 4.81            | 3.45               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.61 kW        | 10.25 kW           |
| COP Tj = -7°C  | 2.88            | 2.01               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 6.69 kW         | 6.52 kW            |
| COP Tj = +2°C  | 4.65            | 3.44               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 4.44 kW         | 4.36 kW            |
| COP Tj = +7°C  | 6.62            | 4.59               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |
| Pdh Tj = 12°C  | 3.74 kW         | 3.30 kW            |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = 12°C                                       | 8.47        | 6.05        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 10.61 kW    | 10.25 kW    |
| COP Tj = Tbiv                                       | 2.88        | 2.01        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.75 kW    | 9.10 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77        | 1.79        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 20 W        | 20 W        |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 20 W        | 20 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.26 kW     | 2.50 kW     |
| Annual energy consumption Qhe                       | 5153 kWh    | 6928 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |          |          |
|-----------------------------------------------------|----------|----------|
| $\eta_s$                                            | 256 %    | 174 %    |
| Prated                                              | 11.11 kW | 12.51 kW |
| SCOP                                                | 6.53     | 4.42     |
| Tbiv                                                | 7 °C     | 7 °C     |
| TOL                                                 | 2 °C     | 2 °C     |
| Pdh Tj = +2°C                                       | 11.11 kW | 12.08 kW |
| COP Tj = +2°C                                       | 3.59     | 2.31     |
| Cdh Tj = +2 °C                                      | 0.900    | 0.900    |
| Pdh Tj = +7°C                                       | 7.14 kW  | 8.04 kW  |
| COP Tj = +7°C                                       | 5.87     | 3.86     |
| Cdh Tj = +7 °C                                      | 0.900    | 0.900    |
| Pdh Tj = 12°C                                       | 3.56 kW  | 3.75 kW  |
| COP Tj = 12°C                                       | 7.94     | 5.70     |
| Cdh Tj = +12 °C                                     | 0.900    | 0.900    |
| Pdh Tj = Tbiv                                       | 7.14 kW  | 8.04 kW  |
| COP Tj = Tbiv                                       | 5.87     | 3.86     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.11 kW | 12.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.59     | 2.31     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |          |          |
| WTOL                                                | 65 °C    | 65 °C    |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                            |             |             |
|--------------------------------------------|-------------|-------------|
| Poff                                       | 20 W        | 20 W        |
| PTO                                        | 30 W        | 30 W        |
| PSB                                        | 20 W        | 20 W        |
| PCK                                        | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 0.00 kW     | 0.44 kW     |
| Annual energy consumption Qhe              | 2296 kWh    | 3780 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 65 dB(A)               | 65 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 160 %                  | 118 %                     |
| Prated          | 11.38 kW               | 10.32 kW                  |
| SCOP            | 4.08                   | 3.02                      |
| Tbiv            | -15 °C                 | -15 °C                    |
| TOL             | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C   | 7.05 kW                | 6.63 kW                   |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = -7°C                                       | 3.48        | 2.63        |
| Cdh Tj = -7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +2°C                                       | 4.68 kW     | 4.07 kW     |
| COP Tj = +2°C                                       | 4.96        | 3.60        |
| Cdh Tj = +2 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +7°C                                       | 3.14 kW     | 2.78 kW     |
| COP Tj = +7°C                                       | 6.10        | 4.54        |
| Cdh Tj = +7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = 12°C                                       | 3.57 kW     | 3.33 kW     |
| COP Tj = 12°C                                       | 7.87        | 6.25        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 9.28 kW     | 8.42 kW     |
| COP Tj = Tbiv                                       | 2.59        | 1.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.01 kW     | 4.20 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.98        | 1.13        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 14 W        | 14 W        |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 20 W        | 20 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
|                                                     |             |             |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                                      |          |          |
|----------------------------------------------------------------------|----------|----------|
| Supplementary Heater: PSUP                                           | 4.37 kW  | 6.12 kW  |
| Annual energy consumption $Q_{he}$                                   | 6871 kWh | 8420 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ ) | 9.28     | 8.42     |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ )    | 2.59     | 1.84     |
| $C_{dh} T_j = -15^{\circ}\text{C}$                                   | 0.90     | 0.90     |

# Model: Platinum BC Plus Monobloc 16 TR-2

| Configure model                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | Platinum BC Plus Monobloc 16 TR-2 |
| Application                         | Heating (medium temp)             |
| Units                               | Outdoor                           |
| Climate Zone                        | Colder Climate + Warmer Climate   |
| Reversibility                       | Yes                               |
| Cooling mode application (optional) | n/a                               |

| General Data |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

## Heating

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

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 15.90 kW        | 16.00 kW           |
| El input    | 3.53 kW         | 5.61 kW            |
| COP         | 4.50            | 2.85               |

## Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 68 dB(A)        | 68 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 182 %           | 133 %              |
| Prated         | 15.21 kW        | 13.02 kW           |
| SCOP           | 4.62            | 3.41               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 13.45 kW        | 11.52 kW           |
| COP Tj = -7°C  | 2.72            | 1.99               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 8.57 kW         | 7.18 kW            |
| COP Tj = +2°C  | 4.41            | 3.34               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 5.70 kW         | 4.68 kW            |
| COP Tj = +7°C  | 6.56            | 4.61               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |
| Pdh Tj = 12°C  | 3.78 kW         | 3.32 kW            |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = 12°C                                       | 8.51        | 6.07        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 13.45 kW    | 11.52 kW    |
| COP Tj = Tbiv                                       | 2.72        | 1.99        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.52 kW    | 10.33 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.80        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 20 W        | 20 W        |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 20 W        | 20 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.68 kW     | 2.67 kW     |
| Annual energy consumption Qhe                       | 6805 kWh    | 7896 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |          |          |
|-----------------------------------------------------|----------|----------|
| $\eta_s$                                            | 248 %    | 176 %    |
| Prated                                              | 13.09 kW | 14.17 kW |
| SCOP                                                | 6.33     | 4.47     |
| Tbiv                                                | 7 °C     | 7 °C     |
| TOL                                                 | 2 °C     | 2 °C     |
| Pdh Tj = +2°C                                       | 13.09 kW | 13.38 kW |
| COP Tj = +2°C                                       | 3.35     | 2.29     |
| Cdh Tj = +2 °C                                      | 0.900    | 0.900    |
| Pdh Tj = +7°C                                       | 8.42 kW  | 9.11 kW  |
| COP Tj = +7°C                                       | 5.36     | 3.89     |
| Cdh Tj = +7 °C                                      | 0.900    | 0.900    |
| Pdh Tj = 12°C                                       | 3.88 kW  | 4.06 kW  |
| COP Tj = 12°C                                       | 8.11     | 5.86     |
| Cdh Tj = +12 °C                                     | 0.900    | 0.900    |
| Pdh Tj = Tbiv                                       | 8.42 kW  | 9.11 kW  |
| COP Tj = Tbiv                                       | 5.36     | 3.89     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.09 kW | 13.38 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35     | 2.29     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |          |          |
| WTOL                                                | 65 °C    | 65 °C    |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                            |             |             |
|--------------------------------------------|-------------|-------------|
| Poff                                       | 20 W        | 20 W        |
| PTO                                        | 30 W        | 30 W        |
| PSB                                        | 20 W        | 20 W        |
| PCK                                        | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 0.00 kW     | 0.79 kW     |
| Annual energy consumption Qhe              | 2786 kWh    | 4236 kWh    |

## Colder Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level outdoor | 68 dB(A)               | 68 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 158 %                  | 122 %                     |
| Prated          | 13.76 kW               | 11.79 kW                  |
| SCOP            | 4.02                   | 3.12                      |
| Tbiv            | -15 °C                 | -15 °C                    |
| TOL             | -22 °C                 | -22 °C                    |
| Pdh Tj = -7°C   | 8.31 kW                | 7.64 kW                   |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = -7°C                                       | 3.37        | 2.65        |
| Cdh Tj = -7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +2°C                                       | 5.27 kW     | 4.43 kW     |
| COP Tj = +2°C                                       | 4.86        | 3.79        |
| Cdh Tj = +2 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +7°C                                       | 3.62 kW     | 2.98 kW     |
| COP Tj = +7°C                                       | 6.49        | 4.81        |
| Cdh Tj = +7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = 12°C                                       | 3.35 kW     | 3.43 kW     |
| COP Tj = 12°C                                       | 7.40        | 6.29        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 11.22 kW    | 9.62 kW     |
| COP Tj = Tbiv                                       | 2.43        | 1.86        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.89 kW     | 5.22 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.97        | 1.23        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 20 W        | 20 W        |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 20 W        | 20 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
|                                                     |             |             |

This information was generated by the HP KEYMARK database on 18 Mar 2022

|                                                                      |          |          |
|----------------------------------------------------------------------|----------|----------|
| Supplementary Heater: PSUP                                           | 4.87 kW  | 6.57 kW  |
| Annual energy consumption $Q_{he}$                                   | 8431 kWh | 9310 kWh |
| $P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ ) | 11.22    | 9.62     |
| $COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ )    | 2.43     | 1.86     |
| $C_{dh} T_j = -15^{\circ}\text{C}$                                   | 0.90     | 0.90     |