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|                     |   |          |            |
|---------------------|---|----------|------------|
| Summary of          | DAIKIN ALTHERMA 3 H HT 14kW (300L)                    | Reg. No. | 011-1W0355 |
| Certificate Holder  |   |          |            |
| Name                | DAIKIN Europe N.V.                                    |          |            |
| Address             | Zandvoordestraat 300                                  | Zip      | B-8400     |
| City                | Oostende  | Country  | Belgium    |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |          |            |
| Subtype title       | DAIKIN ALTHERMA 3 H HT 14kW (300L)                    |          |            |
| Heat Pump Type      | Outdoor Air/Water                                     |          |            |
| Refrigerant         | R32   |          |            |
| Mass of Refrigerant | 4.2 kg  |          |            |

## Model: EPRA14DV3 / ETSH16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DV3 / ETSH16P30D   |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | No                       |
| Cooling mode application (optional) | n/a                      |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.69 kW         | 7.24 kW            |
| El input    | 1.22 kW         | 2.41 kW            |
| COP         | 4.67            | 3.01               |

| 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

This information was generated by the HP KEYMARK database on 23 Jun 2022

**EN 14511-2**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

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|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.99              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.99              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>off</sub>                          | 21 W              |
| PTO                                       | 41 W              |
| PSB                                       | 21 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1038 kWh          |

## Average Climate

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 177 %           | 140 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.51            | 3.58               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 11.1 kW         | 11.2 kW            |
| COP Tj = -7°C  | 3.12            | 2.47               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.7 kW          | 6.9 kW             |
| COP Tj = +2°C  | 4.44            | 3.56               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 5.7 kW          | 6.9 kW             |
| COP Tj = +7°C  | 5.84            | 4.44               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 6.0 kW      | 6.2 kW      |
| COP Tj = 12°C                                       | 7.40        | 5.72        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 11.1 kW     | 12.2 kW     |
| COP Tj = Tbiv                                       | 3.12        | 2.19        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW     | 12.2 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76        | 2.19        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 21 W        | 21 W        |
| PTO   | 41 W        | 41 W        |
| PSB   | 21 W        | 21 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5726 kWh    | 7211 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DW1 / ETSH16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DW1 / ETSH16P30D   |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | No                       |
| Cooling mode application (optional) | n/a                      |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.90 kW         | 7.24 kW            |
| El input    | 1.23 kW         | 2.47 kW            |
| COP         | 4.79            | 2.93               |

| 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



This information was generated by the HP KEYMARK database on 23 Jun 2022

**EN 14511-2**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.87              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>off</sub>                          | 31 W              |
| PTO                                       | 33 W              |
| PSB                                       | 42 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1069 kWh          |

## Average Climate

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 186 %           | 140 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.71            | 3.57               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.7 kW         | 11.1 kW            |
| COP Tj = -7°C  | 2.97            | 2.43               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.9 kW          | 6.7 kW             |
| COP Tj = +2°C  | 4.94            | 3.52               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 6.2 kW          | 6.5 kW             |
| COP Tj = +7°C  | 5.95            | 4.54               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 5.6 kW      | 5.2 kW      |
| COP Tj = 12°C                                       | 7.07        | 5.97        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 10.7 kW     | 12.5 kW     |
| COP Tj = Tbiv                                       | 2.97        | 2.12        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW     | 12.5 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88        | 2.12        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 31 W        | 31 W        |
| PTO   | 33 W        | 33 W        |
| PSB   | 42 W        | 42 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5479 kWh    | 7236 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DV3 / ETSHB16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DV3 / ETSHB16P30D  |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | No                       |
| Cooling mode application (optional) | n/a                      |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.69 kW         | 7.24 kW            |
| El input    | 1.22 kW         | 2.41 kW            |
| COP         | 4.67            | 3.01               |

| 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**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

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|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.99              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.99              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>off</sub>                          | 21 W              |
| PTO                                       | 41 W              |
| PSB                                       | 21 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1038 kWh          |

## Average Climate



### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 177 %           | 140 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.51            | 3.58               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 11.1 kW         | 11.2 kW            |
| COP Tj = -7°C  | 3.12            | 2.47               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.7 kW          | 6.9 kW             |
| COP Tj = +2°C  | 4.44            | 3.56               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 5.7 kW          | 6.9 kW             |
| COP Tj = +7°C  | 5.84            | 4.44               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 6.0 kW      | 6.2 kW      |
| COP Tj = 12°C                                       | 7.40        | 5.72        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 11.1 kW     | 12.2 kW     |
| COP Tj = Tbiv                                       | 3.12        | 2.19        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW     | 12.2 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76        | 2.19        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 21 W        | 21 W        |
| PTO   | 41 W        | 41 W        |
| PSB   | 21 W        | 21 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5726 kWh    | 7211 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
|                                 |            |
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DW1 / ETSHB16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DW1 / ETSHB16P30D  |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | No                       |
| Cooling mode application (optional) | n/a                      |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.90 kW         | 7.24 kW            |
| El input    | 1.23 kW         | 2.47 kW            |
| COP         | 4.79            | 2.93               |

| 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**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

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|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.87              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>off</sub>                          | 31 W              |
| PTO                                       | 33 W              |
| PSB                                       | 42 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1069 kWh          |

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 186 %           | 140 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.71            | 3.57               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.7 kW         | 11.1 kW            |
| COP Tj = -7°C  | 2.97            | 2.43               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.9 kW          | 6.7 kW             |
| COP Tj = +2°C  | 4.94            | 3.52               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 6.2 kW          | 6.5 kW             |
| COP Tj = +7°C  | 5.95            | 4.54               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 5.6 kW      | 5.2 kW      |
| COP Tj = 12°C                                       | 7.07        | 5.97        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 10.7 kW     | 12.5 kW     |
| COP Tj = Tbiv                                       | 2.97        | 2.12        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW     | 12.5 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88        | 2.12        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 31 W        | 31 W        |
| PTO   | 33 W        | 33 W        |
| PSB   | 42 W        | 42 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5479 kWh    | 7236 kWh    |

## Domestic Hot Water (DHW)

### Average Climate



| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DV3 / ETSX16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DV3 / ETSX16P30D   |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | Yes                      |
| Cooling mode application (optional) | +7°C/12°C                |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.69 kW         | 7.24 kW            |
| El input    | 1.22 kW         | 2.41 kW            |
| COP         | 4.67            | 3.01               |

| 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**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.99              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.99              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>off</sub>                          | 21 W              |
| PTO                                       | 41 W              |
| PSB                                       | 21 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1038 kWh          |

## Average Climate

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 180 %           | 142 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.57            | 3.62               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 11.1 kW         | 11.2 kW            |
| COP Tj = -7°C  | 3.12            | 2.47               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.7 kW          | 6.9 kW             |
| COP Tj = +2°C  | 4.44            | 3.56               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 5.7 kW          | 6.9 kW             |
| COP Tj = +7°C  | 5.84            | 4.44               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 6.0 kW      | 6.2 kW      |
| COP Tj = 12°C                                       | 7.40        | 5.72        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 11.1 kW     | 12.2 kW     |
| COP Tj = Tbiv                                       | 3.12        | 2.19        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW     | 12.2 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76        | 2.19        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 21 W        | 21 W        |
| PTO   | 41 W        | 41 W        |
| PSB   | 21 W        | 21 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5649 kWh    | 7134 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DW1 / ETSX16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DW1 / ETSX16P30D   |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | Yes                      |
| Cooling mode application (optional) | +7°C/12°C                |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.90 kW         | 7.24 kW            |
| El input    | 1.23 kW         | 2.47 kW            |
| COP         | 4.79            | 2.93               |

| 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**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.87              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>off</sub>                          | 31 W              |
| PTO                                       | 33 W              |
| PSB                                       | 42 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1069 kWh          |

## Average Climate

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 190 %           | 142 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.81            | 3.63               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.7 kW         | 11.1 kW            |
| COP Tj = -7°C  | 2.97            | 2.43               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.9 kW          | 6.7 kW             |
| COP Tj = +2°C  | 4.94            | 3.52               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 6.2 kW          | 6.5 kW             |
| COP Tj = +7°C  | 5.95            | 4.54               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 5.6 kW      | 5.2 kW      |
| COP Tj = 12°C                                       | 7.07        | 5.97        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 10.7 kW     | 12.5 kW     |
| COP Tj = Tbiv                                       | 2.97        | 2.12        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW     | 12.5 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88        | 2.12        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 31 W        | 31 W        |
| PTO   | 33 W        | 33 W        |
| PSB   | 42 W        | 42 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5366 kWh    | 7122 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DV3 / ETSXB16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DV3 / ETSXB16P30D  |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | Yes                      |
| Cooling mode application (optional) | +7°C/12°C                |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.69 kW         | 7.24 kW            |
| El input    | 1.22 kW         | 2.41 kW            |
| COP         | 4.67            | 3.01               |

| 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**

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.99              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.99              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>off</sub>                          | 21 W              |
| PTO                                       | 41 W              |
| PSB                                       | 21 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1038 kWh          |

## Average Climate



### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 180 %           | 142 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.57            | 3.62               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 11.1 kW         | 11.2 kW            |
| COP Tj = -7°C  | 3.12            | 2.47               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.7 kW          | 6.9 kW             |
| COP Tj = +2°C  | 4.44            | 3.56               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 5.7 kW          | 6.9 kW             |
| COP Tj = +7°C  | 5.84            | 4.44               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 6.0 kW      | 6.2 kW      |
| COP Tj = 12°C                                       | 7.40        | 5.72        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 11.1 kW     | 12.2 kW     |
| COP Tj = Tbiv                                       | 3.12        | 2.19        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW     | 12.2 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76        | 2.19        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 21 W        | 21 W        |
| PTO   | 41 W        | 41 W        |
| PSB   | 21 W        | 21 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5649 kWh    | 7134 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |

## Model: EPRA14DW1 / ETSXB16P30D

| Configure model                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | EPRA14DW1 / ETSXB16P30D  |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor + Outdoor         |
| Climate Zone                        | n/a                      |
| Reversibility                       | Yes                      |
| Cooling mode application (optional) | +7°C/12°C                |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 5.90 kW         | 7.24 kW            |
| El input    | 1.23 kW         | 2.47 kW            |
| COP         | 4.79            | 2.93               |

| 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

|                  |                   |
|------------------|-------------------|
|                  | <b>+7°C/+12°C</b> |
| El input         | 2.56 kW           |
| Cooling capacity | 6.90              |
| EER              | 2.7               |

### EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |                   |
|---|-------------------|
|   | <b>+7°C/+12°C</b> |
| P <sub>designc</sub>                      | 6.9 kW            |
| SEER                                      | 3.87              |
| P <sub>dc</sub> T <sub>j</sub> = 35°C     | 6.90 kW           |
| EER T <sub>j</sub> = 35°C                 | 2.70              |
| P <sub>dc</sub> T <sub>j</sub> = 30°C     | 5.23 kW           |
| EER T <sub>j</sub> = 30°C                 | 3.65              |
| C <sub>dc</sub>                           | 0.98              |
| P <sub>dc</sub> T <sub>j</sub> = 25°C     | 5.05 kW           |
| EER T <sub>j</sub> = 25°C                 | 4.58              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>dc</sub> T <sub>j</sub> = 20°C     | 4.94 kW           |
| EER T <sub>j</sub> = 20°C                 | 5.41              |
| C <sub>dc</sub>                           | 0.97              |
| P <sub>off</sub>                          | 31 W              |
| PTO                                       | 33 W              |
| PSB                                       | 42 W              |
| PCK                                       | 0 W               |
| Annual energy consumption Q <sub>ce</sub> | 1069 kWh          |

## Average Climate

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 45.6 dB(A)      | 45.6 dB(A)         |
| Sound power level outdoor | 54.0 dB(A)      | 54.0 dB(A)         |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 190 %           | 142 %              |
| Prated         | 12.5 kW         | 12.5 kW            |
| SCOP           | 4.81            | 3.63               |
| Tbiv           | -7 °C           | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 10.7 kW         | 11.1 kW            |
| COP Tj = -7°C  | 2.97            | 2.43               |
| Cdh Tj = -7 °C | 1.00            | 1.0                |
| Pdh Tj = +2°C  | 6.9 kW          | 6.7 kW             |
| COP Tj = +2°C  | 4.94            | 3.52               |
| Cdh Tj = +2 °C | 1.0             | 1.0                |
| Pdh Tj = +7°C  | 6.2 kW          | 6.5 kW             |
| COP Tj = +7°C  | 5.95            | 4.54               |
| Cdh Tj = +7 °C | 1.0             | 1.0                |

This information was generated by the HP KEYMARK database on 23 Jun 2022

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 5.6 kW      | 5.2 kW      |
| COP Tj = 12°C                                       | 7.07        | 5.97        |
| Cdh Tj = +12 °C                                     | 1.0         | 1.0         |
| Pdh Tj = Tbiv                                       | 10.7 kW     | 12.5 kW     |
| COP Tj = Tbiv                                       | 2.97        | 2.12        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW     | 12.5 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88        | 2.12        |
| WTOL  | 35 °C       | 55 °C       |
| Poff  | 31 W        | 31 W        |
| PTO   | 33 W        | 33 W        |
| PSB   | 42 W        | 42 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.4 kW      | 0.0 kW      |
| Annual energy consumption Qhe                       | 5366 kWh    | 7122 kWh    |

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 23 Jun 2022

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 101 %      |
| COP                             | 2.38       |
| Heating up time                 | 1:25 h:min |
| Standby power input             | 49.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 149.0 l    |