

|                       |                   |         |                             | EWYQ009ACW1                           | EWYQ011ACW1                           | EWYQ013ACW1                           |                                |
|-----------------------|-------------------|---------|-----------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|
| Sound pressure level  | Heating           |         | Nom.                        | dB(A)                                 | 50 (3)                                | 50 (3)                                | 50 (3)                         |
|                       | Cooling           |         | Nom.                        | dB(A)                                 | 50 (3)                                | 50 (3)                                | 50 (3)                         |
|                       | Night quiet mode  |         | Heating                     | dB(A)                                 | 42                                    | 42                                    | 43                             |
|                       |                   |         | Cooling                     | dB(A)                                 | 45                                    | 45                                    | 46                             |
| Hydraulic components  | Expansion vessel  |         | Volume                      | l                                     | 10                                    | 10                                    | 10                             |
|                       |                   |         | Max. water pressure         | bar                                   | 3                                     | 3                                     | 3                              |
|                       |                   |         | Pre pressure                | bar                                   | 1                                     | 1                                     | 1                              |
|                       | Water filter      |         | Diameter perforations       | mm                                    | 1                                     | 1                                     | 1                              |
|                       |                   |         | Material                    | Brass                                 | Brass                                 | Brass                                 |                                |
| Operation range       | Air side          | Cooling | Min.                        | °CDB                                  | 10                                    | 10                                    | 10                             |
|                       |                   |         | Max.                        | °CDB                                  | 46                                    | 46                                    | 46                             |
|                       |                   | Heating | Max.                        | °CDB                                  | 35                                    | 35                                    | 35                             |
|                       |                   |         | Min.                        | °CDB                                  | -15                                   | -15                                   | -15                            |
|                       | Water side        | Heating | Min.                        | °CDB                                  | 30 (5)                                | 30 (5)                                | 30 (5)                         |
|                       |                   |         | Max.                        | °CDB                                  | 50 (5)                                | 50 (5)                                | 50 (5)                         |
|                       |                   | Cooling | Max.                        | °CDB                                  | 20                                    | 20                                    | 20                             |
|                       |                   |         | Min.                        | °CDB                                  | 5                                     | 5                                     | 5                              |
| Packing               | Weight            |         |                             | kg                                    | 20.0                                  | 20.0                                  | 20.0                           |
|                       | Material          |         |                             |                                       | PP (Straps), Wood, EPS, Carton        | PP (Straps), Wood, EPS, Carton        | PP (Straps), Wood, EPS, Carton |
| Refrigerant charge    | Per circuit       |         |                             | kg                                    | 2.95                                  | 2.95                                  | 2.95                           |
|                       | Per circuit       |         |                             | TCO2Eq                                | 6.16                                  | 6.16                                  | 6.16                           |
| Compressor            | Output            |         |                             | W                                     | 2,200                                 | 2,200                                 | 2,200                          |
|                       | Motor (INV)       |         | Crankcase heater            | W                                     | 33.0                                  | 33.0                                  | 33.0                           |
|                       | Quantity          |         |                             |                                       | 1                                     | 1                                     | 1                              |
|                       | Starting method   |         |                             |                                       | Inverter driven                       | Inverter driven                       | Inverter driven                |
| Compressor--Type      |                   |         |                             | Hermetically sealed scroll compressor | Hermetically sealed scroll compressor | Hermetically sealed scroll compressor |                                |
| Model                 |                   |         |                             | JT1G-VDYR@S                           | JT1G-VDYR@S                           | JT1G-VDYR@S                           |                                |
| Space heating general | Air to water unit |         | Rated airflow (outdoor)     | m³/h                                  | 5,400                                 | 5,400                                 | 5,400                          |
|                       | Other             |         | Psb (Standby mode)          | kW                                    | 0.049                                 | 0.049                                 | 0.049                          |
|                       |                   |         | Poff (Off mode)             | kW                                    | 0.049                                 | 0.049                                 | 0.049                          |
|                       |                   |         | Pto (Thermostat off)        | kW                                    | 0.186                                 | 0.186                                 | 0.186                          |
|                       |                   |         | Pck (Crankcase heater mode) | kW                                    | 0.050                                 | 0.050                                 | 0.050                          |
|                       |                   |         |                             | Capacity control                      | Inverter                              | Inverter                              | Inverter                       |

|                               |                                    |                 |  |  |  |  |
|-------------------------------|------------------------------------|-----------------|--|--|--|--|
|                               |                                    |                 | Space heating<br>general--Other--<br>Cdh degradation<br>heating  | 1.00   | 1.00   | 1.00   |
|                               | Integrated supplementary<br>heater | Psup            | kW   | 0.00   | 0.00   | 0.00   |
|                               |                                    | NOx<br>emission | mg/kWh   | 0.00   | 0.00   | 0.00   |
|                               |                                    |                 | Type of energy<br>input  | Electrical   | Electrical   | Electrical   |
| Weight                        | Packed unit                        |                 | kg   | 200  | 200  | 200  |
|                               | Unit                               |                 | kg   | 180  | 180  | 180  |
| Air heat<br>exchanger         | Length                             |                 | mm   | 857  | 857  | 857  |
|                               | Fin                                |                 | Treatment  | Anti-corrosion<br>treatment (PE)   | Anti-corrosion<br>treatment (PE)   | Anti-corrosion<br>treatment (PE)   |
|                               |                                    |                 | Type   | WF fin   | WF fin   | WF fin   |
|                               | Face area                          |                 | m <sup>2</sup>   | 1.131  | 1.131  | 1.131  |
|                               | Stages                             |                 | Quantity   | 60   | 60   | 60   |
|                               | Fin pitch                          |                 | mm   | 1,4  | 1,4  | 1,4  |
|                               | Rows                               |                 | Quantity   | 2  | 2  | 2  |
|                               | Passes                             |                 | Quantity   | 5  | 5  | 5  |
|                               | Type                               |                 |  | Hi-XSS (8)   | Hi-XSS (8)   | Hi-XSS (8)   |
|                               | Empty tubeplate hole               |                 |  | 0  | 0  | 0  |
| Refrigerant<br>oil            | Charged volume                     |                 | l  | 1.00   | 1.00   | 1.00   |
|                               | Type                               |                 |  | Daphne FVC68D  | Daphne FVC68D  | Daphne FVC68D  |
| General                       | Supplier/Manufacturer details      |                 | Name and address   | Daikin Europe N.V.<br>- Zandvoordestraat<br>300, 8400<br>Oostende, Belgium | Daikin Europe N.V.<br>- Zandvoordestraat<br>300, 8400<br>Oostende, Belgium | Daikin Europe N.V.<br>- Zandvoordestraat<br>300, 8400<br>Oostende, Belgium |
|                               |                                    |                 | Name or trademark  | Daikin Europe N.V.   | Daikin Europe N.V.   | Daikin Europe N.V.   |
|                               | Product description                |                 | General--Product<br>description--Low<br>temperature heat<br>pump | Yes  | Yes  | Yes  |
|                               |                                    |                 | Supplementary<br>heater integrated                               | Yes  | Yes  | Yes  |
|                               |                                    |                 | General--Product<br>description--Air to<br>water heat pump       | Yes  | Yes  | Yes  |
|                               |                                    |                 | General--Product<br>description--<br>Water to water heat<br>pump | no   | no   | no   |
|                               |                                    |                 | General--Product<br>description--Brine<br>to water heat pump     | no   | no   | no   |
|                               |                                    |                 | Heat pump<br>combination heater                                  | no   | no   | no   |
| Pump<br>Standard              | Power input                        |                 | W  | 210  | 210  | 210  |
|                               | Nominal ESP unit                   | Cooling         | kPa  | 59.2   | 53.2   | 40.9, 45.6   |
|                               |                                    | Heating         | kPa  | 54.1   | 49.1   | 36.6, 43.5   |
|                               | Type                               |                 |  | Water cooled   | Water cooled   | Water cooled   |
|                               | Model                              |                 |  | STRATOS PARA<br>25/1-8   | STRATOS PARA<br>25/1-8   | STRATOS PARA<br>25/1-8   |
|                               | Nr of speeds                       |                 |  | 2  | 2  | 2  |
| LW(A)<br>Sound<br>power level | dB(A)                              |                 |  | 64.0   | 64.0   | 64.0   |

|                        |                                   |                             |        |                 |                                |                                |                                |
|------------------------|-----------------------------------|-----------------------------|--------|-----------------|--------------------------------|--------------------------------|--------------------------------|
| (according to EN14825) |                                   |                             |        |                 |                                |                                |                                |
| Refrigerant            | Circuits                          |                             |        | Quantity        | 1                              | 1                              | 1                              |
|                        | Refrigerant--Refrigerant control  |                             |        |                 | Electronic expansion valve     | Electronic expansion valve     | Electronic expansion valve     |
|                        | Refrigerant--Refrigerant type     |                             |        |                 | R-410A                         | R-410A                         | R-410A                         |
|                        | Refrigerant--Refrigerant gwp      |                             |        |                 | 2,087.5                        | 2,087.5                        | 2,087.5                        |
| Fan motor              | Output                            |                             |        | W               | 70                             | 70                             | 70                             |
|                        | Speed                             | Cooling                     | Nom.   | rpm             | 780                            | 780                            | 780                            |
|                        |                                   | Heating                     | Nom.   | rpm             | 760                            | 760                            | 760                            |
|                        |                                   |                             |        | Steps           | 8                              | 8                              | 8                              |
|                        | Quantity                          |                             |        |                 | 2                              | 2                              | 2                              |
|                        | Drive                             |                             |        |                 | Direct drive                   | Direct drive                   | Direct drive                   |
|                        | Model                             |                             |        |                 | Brushless DC motor             | Brushless DC motor             | Brushless DC motor             |
| Cooling capacity       | Nom.                              |                             |        | kW              | 12.9 (1), 9.10 (2)             | 15.7 (1), 11.1 (2)             | 17.0 (1), 13.3 (2)             |
| Water heat exchanger   | Water volume                      |                             |        | l               | 1.01                           | 1.01                           | 1.01                           |
|                        | Water flow rate                   |                             | Max.   | l/min           | 58                             | 58                             | 58                             |
|                        |                                   | Heating                     | Nom.   | l/min           | 31.2 (4)                       | 35.5 (4)                       | 39.8 (4)                       |
|                        |                                   |                             | Min.   | l/min           | 16                             | 16                             | 16                             |
|                        | Insulation material               |                             |        |                 | Foamed synthetic elastomer     | Foamed synthetic elastomer     | Foamed synthetic elastomer     |
|                        | Quantity                          |                             |        |                 | 1                              | 1                              | 1                              |
|                        | Type                              |                             |        |                 | Brazed plate                   | Brazed plate                   | Brazed plate                   |
| Power input            | Cooling                           |                             | Nom.   | kW              | 3.05 (2), 3.08 (1)             | 4.13 (1), 3.90 (2)             | 5.18 (2), 5.52 (1)             |
|                        | Heating                           |                             | Nom.   | kW              | 2.69 (1), 3.31 (2)             | 3.07 (1), 3.78 (2)             | 3.47 (1), 4.27 (2)             |
| Sound power level      | Heating                           |                             | Nom.   | dBA             | 60 (4)                         | 60 (4)                         | 60 (4)                         |
|                        | Cooling                           |                             | Nom.   | dBA             | 64.0 (3)                       | 64.0 (3)                       | 66.0 (3)                       |
| Safety devices         | Item                              |                             |        | 01              | High pressure switch           | High pressure switch           | High pressure switch           |
|                        |                                   |                             |        | 02              | Fan motor thermal protection   | Fan motor thermal protection   | Fan motor thermal protection   |
|                        |                                   |                             |        | 03              | Fuse                           | Fuse                           | Fuse                           |
| Dimensions             | Packed unit                       |                             | Width  | mm              | 1,500                          | 1,500                          | 1,500                          |
|                        |                                   |                             | Height | mm              | 1,574                          | 1,574                          | 1,574                          |
|                        |                                   |                             | Depth  | mm              | 430                            | 430                            | 430                            |
|                        | Unit                              |                             | Width  | mm              | 1,420                          | 1,420                          | 1,420                          |
|                        |                                   |                             | Depth  | mm              | 382                            | 382                            | 382                            |
|                        |                                   |                             | Height | mm              | 1,435                          | 1,435                          | 1,435                          |
| Capacity control       | Method                            |                             |        |                 | Inverter controlled            | Inverter controlled            | Inverter controlled            |
| Casing                 | Colour                            |                             |        |                 | Ivory white                    | Ivory white                    | Ivory white                    |
|                        | Material                          |                             |        |                 | Painted galvanized steel plate | Painted galvanized steel plate | Painted galvanized steel plate |
| Space heating          | Average climate water outlet 35°C | A Condition (-7°CDB/-8°CWB) | PERd   | %               | 113                            | 115                            | 106                            |
|                        |                                   |                             | Pdh    | kW              | 6.80                           | 9.60                           | 8.70                           |
|                        |                                   |                             |        | Space heating-- | 2.83                           | 2.88                           | 2.66                           |

|  |  |  |  |  |       |       |       |
|--|--|--|--|--|-------|-------|-------|
|  |  |  |  | Average climate water outlet 35°C-<br>=-A Condition<br>(-7°CDB/-8°CWB)-<br>=-Copd  |       |       |       |
|  |  | C Condition<br>(7°CDB/6°CWB)             | Pdh  | kW   | 4.60  | 4.90  | 5.10  |
|  |  |  | PERd   | %  | 178   | 186   | 193   |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-C Condition<br>(7°CDB/6°CWB)-=-<br>Copd                      | 4.44  | 4.65  | 4.82  |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-C Condition<br>(7°CDB/6°CWB)-=-<br>Cdh degradation heating   | 1.00  | 1.00  | 1.00  |
|  |  | D Condition<br>(12°CDB/11°CWB)           | Pdh  | kW   | 5.30  | 5.20  | 5.10  |
|  |  |  | PERd   | %  | 212   | 230   | 211   |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-D Condition<br>(12°CDB/11°CWB)-<br>=-Copd                    | 5.31  | 5.76  | 5.27  |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-D Condition<br>(12°CDB/11°CWB)-<br>=-Cdh degradation heating | 1.00  | 1.00  | 1.00  |
|  |  | Rated heat output supplementary capacity | Psup (at Tdesign -10°C)                      | kW   | 4.00  | 4.90  | 6.70  |
|  |  | General                                  | Annual energy consumption                    | kWh  | 6,140 | 7,920 | 8,860 |
|  |  |  | Annual energy consumption (GCV)              | Gj   | 22.1  | 28.5  | 31.9  |
|  |  |  | $\eta_s$ (Seasonal space heating efficiency) | %  | 126   | 134   | 130   |
|  |  |  | Prated at -10°C                              | kW   | 10.2  | 13.8  | 14.8  |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-General-=-<br>Seasonal space heating eff class               | A+    | A+    | A+    |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-General-=-Scop   | 3.22  | 3.41  | 3.30  |
|  |  | B Condition<br>(2°CDB/1°CWB)             | Pdh  | kW   | 5.50  | 7.60  | 8.00  |
|  |  |  | PERd   | %  | 150   | 146   | 147   |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-<br>=-B Condition<br>(2°CDB/1°CWB)-=-<br>Copd                      | 3.74  | 3.64  | 3.68  |
|  |  |  |  | Space heating-=-<br>Average climate water outlet 35°C-   | 1.00  | 1.00  | 1.00  |

|                     |  |                                      |   |  |                      |                    |                    |
|---------------------|--|--------------------------------------|---|--|----------------------|--------------------|--------------------|
|                     |  |                                      |   | =-B Condition<br>(2°CDB/1°CWB)-=-<br>Cdh degradation<br>heating  |                      |                    |                    |
|                     |  | Tbiv (bivalent<br>temperature)       | Pdh   | kW   | 6.90                 | 9.60               | 9.70               |
|                     |  |                                      | PERd  | %  | 124                  | 128                | 130                |
|                     |  |                                      | Tbiv  | °C   | -2.00                | -2.00              | -1.00              |
|                     |  |                                      |   | Space heating=-=<br>Average climate<br>water outlet 35°C-<br>=-Tbiv (bivalent<br>temperature)-=-<br>Copd       | 3.11                 | 3.21               | 3.24               |
|                     |  | Tol (temperature<br>operating limit) | PERd  | %  | 99.6                 | 103                | 98.0               |
|                     |  |                                      | WTOL  | °C   | 35.0                 | 35.0               | 35.0               |
|                     |  |                                      | Pdh   | kW   | 6.20                 | 8.90               | 8.10               |
|                     |  |                                      | TOL   | °C   | -10.0                | -10.0              | -10.0              |
|                     |  |                                      |   | Space heating=-=<br>Average climate<br>water outlet 35°C-<br>=-Tol (temperature<br>operating limit)-=-<br>Copd | 2.49                 | 2.57               | 2.45               |
|                     | Cold<br>climate<br>water<br>outlet<br>35°C | General                              | Space<br>heating=-=<br>Cold climate<br>water outlet<br>35°C=-=<br>General=-=<br>Qhe Annual<br>energy<br>consumption<br>(GCV)-=-Gj | Gj   | 27.6                 | 34.9               | 42.3               |
|                     |  |                                      | Annual<br>energy<br>consumption   | kWh  | 7,660                | 9,700              | 11,800             |
|                     |  |                                      | ηs<br>(Seasonal<br>space<br>heating<br>efficiency)  | %  | 108                  | 113                | 112                |
|                     |  |                                      | Prated at<br>-22°C  | kW   | 9.00                 | 11.7               | 14.1               |
|                     | Warm<br>climate<br>water<br>outlet<br>35°C | General                              | Prated at<br>2°C  | kW   | 7.30                 | 9.50               | 10.3               |
|                     |  |                                      | ηs<br>(Seasonal<br>space<br>heating<br>efficiency)  | %  | 137                  | 156                | 152                |
|                     |  |                                      | Annual<br>energy<br>consumption   | kWh  | 2,230                | 2,660              | 3,000              |
|                     |  |                                      | Annual<br>energy<br>consumption<br>(GCV)  | Gj   | 8.03                 | 9.57               | 10.8               |
| Fan                 | Quantity                                   |                                      |   |  | 2                    | 2                  | 2                  |
|                     | Type                                       |                                      |   |  | Propeller fan        | Propeller fan      | Propeller fan      |
|                     | Discharge direction                        |                                      |   |  | Horizontal           | Horizontal         | Horizontal         |
| Heating<br>capacity | Nom.                                       |                                      |   | kW   | 10.90 (2), 11.20 (1) | 13.2 (1), 12.4 (2) | 14.8 (1), 13.9 (2) |
| Water circuit       | Total water volume                         |                                      |   | l  | 4.00 (6)             | 4.00 (6)           | 4.00 (6)           |
|                     | Piping                                     |                                      |   | inch   | 5/4"                 | 5/4"               | 5/4"               |
|                     | Piping connections diameter                |                                      |   | inch   | G 5/4" (female)      | G 5/4" (female)    | G 5/4" (female)    |

|  |                                       |      |     |   |   |   |
|--|---------------------------------------|------|-----|---|---|---|
|  | Minimum water volume in the system    |      | l   | 20 (6)  | 20 (6)  | 20 (6)  |
|  | Safety valve                          |      | bar | 3   | 3   | 3   |
|  | Manometer                             |      |     | Yes   | Yes   | Yes   |
|  | Air purge valve                       |      |     | Yes   | Yes   | Yes   |
|  | Water circuit--Drain valve fill valve |      |     | Yes   | Yes   | Yes   |
|  | Shut off valve                        |      |     | Yes   | Yes   | Yes   |
| Defrost control                            |                                       |      |     | Sensor for outdoor heat exchanger temperature   | Sensor for outdoor heat exchanger temperature   | Sensor for outdoor heat exchanger temperature   |
| Template                                   |                                       |      |     | Chillers air cooled   | Chillers air cooled   | Chillers air cooled   |
| Sound condition ecodesign and energy label |                                       |      |     | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825  | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825  | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825  |
| Cop  |                                       |      |     | 3.28 (2), 4.17 (1)  | 3.27 (2), 4.31 (1)  | 3.25 (2), 4.28 (1)  |
| Eer  |                                       |      |     | 2.99 (2), 4.19 (1)  | 3.79 (1), 2.85 (2)  | 2.57 (2), 3.08 (1)  |
| Eseer                                      |                                       |      |     | 4.43  | 4.44  | 4.36  |
| Defrost method                             |                                       |      |     | Pressure equalising   | Pressure equalising   | Pressure equalising   |
| Compressor                                 | Crankcase heater                      |      | W   | 33  | 33  | 33  |
| Power supply                               | Voltage range                         | Max. | %   | 10  | 10  | 10  |
|  |                                       | Min. | %   | -10   | -10   | -10   |
|  | Frequency                             |      | Hz  | 50  | 50  | 50  |
|  | Voltage                               |      | V   | 400   | 400   | 400   |
|  | Phase                                 |      |     | 3N~   | 3N~   | 3N~   |
| Unit                                       | Recommended fuses                     |      |     | 20  | 20  | 20  |
| Notes                                      |                                       |      |     | Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C)   | Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C)   | Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C)   |
|  |                                       |      |     | Fan coil program: cooling Ta 35°C - LWE 7°C ( Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( Dt: 5°C )   | Fan coil program: cooling Ta 35°C - LWE 7°C ( Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( Dt: 5°C )   | Fan coil program: cooling Ta 35°C - LWE 7°C ( Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( Dt: 5°C )   |
|  |                                       |      |     | Condition: Ta 35°C - LWE 7°C ( DT = 5°C)  | Condition: Ta 35°C - LWE 7°C ( DT = 5°C)  | Condition: Ta 35°C - LWE 7°C ( DT = 5°C)  |
|  |                                       |      |     | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)   | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)   | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)   |
|  |                                       |      |     | Including piping + PHE; excluding expansion vessel  | Including piping + PHE; excluding expansion vessel  | Including piping + PHE; excluding expansion vessel  |
|  |                                       |      |     | Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. | Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. | Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. |
|  |                                       |      |     | Contains fluorinated  | Contains fluorinated  | Contains fluorinated  |

|                    |                         |                         |                         |
|--------------------|-------------------------|-------------------------|-------------------------|
|                    | greenhouse gases        | greenhouse gases        | greenhouse gases        |
| Wiring connections | See installation manual | See installation manual | See installation manual |