

## 4.1 GENERAL TECHNICAL DATA

## FOCS2-W-G05 /H /CA

[ SI System ]

| FOCS2-W-G05 /H /CA                          |        |                                                                                                            | 1301  | 1401  | 3202  | 3602  | 4202  | 4502  | 4802  | 5402  | 6002  | 8103  |
|---------------------------------------------|--------|------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power supply                                |        | V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 |       |       |       |       |       |       |       |       |       |       |
| PERFORMANCE                                 |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| COOLING ONLY (GROSS VALUE)                  |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Cooling capacity                            | (1)    | kW                                                                                                         | 306,0 | 348,3 | 843,9 | 957,3 | 1071  | 1145  | 1213  | 1348  | 1490  | 2024  |
| Total power input                           | (1)    | kW                                                                                                         | 63,01 | 71,59 | 173,7 | 196,7 | 220,5 | 235,6 | 249,9 | 278,1 | 307,4 | 417,3 |
| EER                                         | (1)    | kW/kW                                                                                                      | 4,857 | 4,865 | 4,858 | 4,867 | 4,857 | 4,860 | 4,854 | 4,847 | 4,847 | 4,850 |
| ESEER                                       | (1)    | kW/kW                                                                                                      | 5,820 | 5,830 | 5,870 | 6,140 | 6,080 | 6,170 | 6,170 | 6,010 | 6,090 | 5,970 |
| COOLING ONLY (EN14511 VALUE)                |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Cooling capacity                            | (1)(2) | kW                                                                                                         | 304,9 | 347,0 | 841,1 | 954,1 | 1069  | 1142  | 1210  | 1344  | 1485  | 2018  |
| EER                                         | (1)(2) | kW/kW                                                                                                      | 4,670 | 4,680 | 4,690 | 4,700 | 4,720 | 4,720 | 4,710 | 4,690 | 4,680 | 4,710 |
| ESEER                                       | (1)(2) | kW/kW                                                                                                      | 5,340 | 5,350 | 5,400 | 5,620 | 5,660 | 5,720 | 5,690 | 5,540 | 5,560 | 5,500 |
| Cooling energy class                        |        | B                                                                                                          | B     | B     | B     | B     | B     | B     | B     | B     | B     | B     |
| HEATING ONLY (GROSS VALUE)                  |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Total heating capacity                      | (3)    | kW                                                                                                         | 346,5 | 395,1 | 935,9 | 1078  | 1220  | 1295  | 1366  | 1494  | 1634  | 2245  |
| Total power input                           | (3)    | kW                                                                                                         | 79,94 | 90,89 | 216,7 | 246,2 | 276,0 | 294,0 | 311,8 | 343,5 | 378,3 | 515,5 |
| COP                                         | (3)    | kW/kW                                                                                                      | 4,337 | 4,347 | 4,319 | 4,379 | 4,420 | 4,405 | 4,381 | 4,349 | 4,319 | 4,355 |
| HEATING ONLY (EN14511 VALUE)                |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Total heating capacity                      | (3)(2) | kW                                                                                                         | 347,5 | 396,2 | 938,1 | 1081  | 1223  | 1298  | 1369  | 1497  | 1638  | 2250  |
| COP                                         | (3)(2) | kW/kW                                                                                                      | 4,180 | 4,190 | 4,200 | 4,220 | 4,290 | 4,280 | 4,260 | 4,240 | 4,220 | 4,250 |
| Cooling energy class                        |        | B                                                                                                          | B     | B     | B     | B     | B     | B     | B     | B     | B     | B     |
| EXCHANGERS                                  |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION   |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (1)    | l/s                                                                                                        | 14,64 | 16,66 | 40,35 | 45,78 | 51,23 | 54,74 | 58,02 | 64,47 | 71,27 | 96,81 |
| Pressure drop                               | (1)    | kPa                                                                                                        | 41,9  | 45,0  | 45,4  | 46,4  | 30,6  | 34,2  | 38,4  | 47,4  | 54,6  | 43,7  |
| HEAT EXCHANGER USER SIDE IN HEATING         |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (3)    | l/s                                                                                                        | 18,89 | 21,94 | 47,22 | 63,05 | 73,89 | 73,89 | 73,89 | 73,89 | 73,89 | 112,5 |
| Pressure drop                               | (3)    | kPa                                                                                                        | 69,8  | 78,0  | 62,1  | 88,1  | 63,7  | 62,3  | 62,3  | 62,3  | 58,7  | 59,0  |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (1)    | l/s                                                                                                        | 17,57 | 20,00 | 48,46 | 54,95 | 61,51 | 65,73 | 69,67 | 77,44 | 85,60 | 116,3 |
| Pressure drop                               | (1)    | kPa                                                                                                        | 36,4  | 35,4  | 35,3  | 35,2  | 34,8  | 35,8  | 36,5  | 35,0  | 37,0  | 35,0  |
| HEAT EXCHANGER SOURCE SIDE IN HEATING       |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (3)    | l/s                                                                                                        | 16,73 | 19,07 | 45,18 | 52,02 | 58,89 | 62,50 | 65,92 | 72,10 | 78,88 | 108,4 |
| Pressure drop                               | (3)    | kPa                                                                                                        | 33,0  | 32,2  | 30,7  | 31,6  | 31,9  | 32,4  | 32,7  | 30,3  | 31,4  | 30,4  |
| REFRIGERANT CIRCUIT                         |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Compressors nr.                             |        | N°                                                                                                         | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 3     |
| Number of capacity steps                    |        | N°                                                                                                         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| No. Circuits                                |        | N°                                                                                                         | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 3     |
| Regulation                                  |        | STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS         |       |       |       |       |       |       |       |       |       |       |
| Min. capacity step                          |        | %                                                                                                          | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 17    |
| Refrigerant                                 |        | R513A R513A R513A R513A R513A R513A R513A R513A R513A R513A R513A                                          |       |       |       |       |       |       |       |       |       |       |
| Refrigerant charge                          |        | kg                                                                                                         | 45,0  | 46,0  | 133   | 137   | 137   | 132   | 147   | 173   | 189   | 283   |
| Oil charge                                  |        | kg                                                                                                         | 19,0  | 19,0  | 70,0  | 70,0  | 70,0  | 70,0  | 70,0  | 76,0  | 76,0  | 114   |
| Rc (ASHRAE)                                 | (4)    | kg/kW                                                                                                      | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| NOISE LEVEL                                 |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| Sound Pressure                              | (5)    | dB(A)                                                                                                      | 79    | 79    | 80    | 80    | 80    | 80    | 80    | 82    | 82    | 82    |
| Sound power level in cooling                | (6)(7) | dB(A)                                                                                                      | 97    | 97    | 99    | 99    | 99    | 99    | 99    | 101   | 101   | 102   |
| Sound power level in heating                | (6)(8) | dB(A)                                                                                                      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| SIZE AND WEIGHT                             |        |                                                                                                            |       |       |       |       |       |       |       |       |       |       |
| A                                           | (9)    | mm                                                                                                         | 3830  | 3830  | 4750  | 4750  | 4750  | 4750  | 4750  | 4850  | 4850  | 4950  |
| B                                           | (9)    | mm                                                                                                         | 900   | 900   | 1150  | 1150  | 1150  | 1150  | 1150  | 1150  | 1150  | 1700  |
| H                                           | (9)    | mm                                                                                                         | 1700  | 1700  | 2050  | 2050  | 2200  | 2200  | 2200  | 2200  | 2200  | 2150  |
| Operating weight                            | (9)    | kg                                                                                                         | 2050  | 2110  | 5110  | 5400  | 6070  | 6120  | 6180  | 6950  | 7090  | 10170 |

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) heating exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger water (in/out) 10,00°C/6,57°C

4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

6 Sound power on the basis of measurements made in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Sound power level in heating, indoors.

9 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

# GENERAL TECHNICAL DATA

# FOCS2-W-G05 /H /CA

[ SI System ]

| FOCS2-W-G05 /H /CA                          |        | 9003                               | 9004  | 9604  |
|---------------------------------------------|--------|------------------------------------|-------|-------|
| Power supply                                |        | V/ph/Hz 400/3/50 400/3/50 400/3/50 |       |       |
| PERFORMANCE                                 |        |                                    |       |       |
| COOLING ONLY (GROSS VALUE)                  |        |                                    |       |       |
| Cooling capacity                            | (1)    | kW 2236                            | 2278  | 2416  |
| Total power input                           | (1)    | kW 460,6                           | 469,7 | 498,3 |
| EER                                         | (1)    | kW/kW 4,855                        | 4,850 | 4,848 |
| ESEER                                       | (1)    | kW/kW 6,010                        | 6,110 | 6,050 |
| COOLING ONLY (EN14511 VALUE)                |        |                                    |       |       |
| Cooling capacity                            | (1)(2) | kW 2228                            | 2273  | 2410  |
| EER                                         | (1)(2) | kW/kW 4,700                        | 4,730 | 4,720 |
| ESEER                                       | (1)(2) | kW/kW 5,500                        | 5,680 | 5,600 |
| Cooling energy class                        |        | B                                  | B     | B     |
| HEATING ONLY (GROSS VALUE)                  |        |                                    |       |       |
| Total heating capacity                      | (3)    | kW 2456                            | 2604  | 2763  |
| Total power input                           | (3)    | kW 567,2                           | 587,6 | 623,8 |
| COP                                         | (3)    | kW/kW 4,330                        | 4,432 | 4,429 |
| HEATING ONLY (EN14511 VALUE)                |        |                                    |       |       |
| Total heating capacity                      | (3)(2) | kW 2461                            | 2610  | 2769  |
| COP                                         | (3)(2) | kW/kW 4,240                        | 4,290 | 4,280 |
| Cooling energy class                        |        | B                                  | B     | B     |
| EXCHANGERS                                  |        |                                    |       |       |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION   |        |                                    |       |       |
| Water flow                                  | (1)    | l/s 106,9                          | 108,9 | 115,5 |
| Pressure drop                               | (1)    | kPa 53,3                           | 32,3  | 36,3  |
| HEAT EXCHANGER USER SIDE IN HEATING         |        |                                    |       |       |
| Water flow                                  | (3)    | l/s 112,5                          | 163,5 | 173,4 |
| Pressure drop                               | (3)    | kPa 59,0                           | 72,7  | 81,9  |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION |        |                                    |       |       |
| Water flow                                  | (1)    | l/s 128,4                          | 130,8 | 138,8 |
| Pressure drop                               | (1)    | kPa 36,3                           | 35,5  | 37,4  |
| HEAT EXCHANGER SOURCE SIDE IN HEATING       |        |                                    |       |       |
| Water flow                                  | (3)    | l/s 118,5                          | 125,7 | 133,4 |
| Pressure drop                               | (3)    | kPa 31,0                           | 32,8  | 34,6  |
| REFRIGERANT CIRCUIT                         |        |                                    |       |       |
| Compressors nr.                             |        | N° 3                               | 4     | 4     |
| Number of capacity steps                    |        | N° 0                               | 0     | 0     |
| No. Circuits                                |        | N° 3                               | 4     | 4     |
| Regulation                                  |        | STEPLESS STEPLESS STEPLESS         |       |       |
| Min. capacity step                          |        | % 17                               | 12,5  | 12,5  |
| Refrigerant                                 |        | R513A                              | R513A | R513A |
| Refrigerant charge                          |        | kg 275                             | 281   | 273   |
| Oil charge                                  |        | kg 114                             | 140   | 140   |
| Rc (ASHRAE)                                 | (4)    | kg/kW -                            | -     | -     |
| NOISE LEVEL                                 |        |                                    |       |       |
| Sound Pressure                              | (5)    | dB(A) 82                           | 82    | 82    |
| Sound power level in cooling                | (6)(7) | dB(A) 102                          | 102   | 102   |
| Sound power level in heating                | (6)(8) | dB(A) 0                            | 0     | 0     |
| SIZE AND WEIGHT                             |        |                                    |       |       |
| A                                           | (9)    | mm 4950                            | 4650  | 4650  |
| B                                           | (9)    | mm 1700                            | 2250  | 2250  |
| H                                           | (9)    | mm 2150                            | 2230  | 2230  |
| Operating weight                            | (9)    | kg 10350                           | 14330 | 14390 |

## Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) heating exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger water (in/out) 10,00°C/6,57°C

4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

6 Sound power on the basis of measurements made in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Sound power level in heating, indoors.

9 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

# GENERAL TECHNICAL DATA

# FOCS2-W-G05 /H /CA-E

[ SI System ]

| FOCS2-W-G05 /H /CA-E                        |        |       | 1301                                                                                              | 1401  | 1601  | 1801  | 2101  | 2401  | 2802  | 3202  | 3602  | 4202  |
|---------------------------------------------|--------|-------|---------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power supply                                |        |       | V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 |       |       |       |       |       |       |       |       |       |
| PERFORMANCE                                 |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| COOLING ONLY (GROSS VALUE)                  |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Cooling capacity                            | (1)    | kW    | 320,7                                                                                             | 364,7 | 441,9 | 506,3 | 573,7 | 649,4 | 729,4 | 884,2 | 1012  | 1147  |
| Total power input                           | (1)    | kW    | 59,70                                                                                             | 67,84 | 82,38 | 94,07 | 106,9 | 121,0 | 135,8 | 164,8 | 187,9 | 213,8 |
| EER                                         | (1)    | kW/kW | 5,372                                                                                             | 5,379 | 5,363 | 5,380 | 5,367 | 5,367 | 5,371 | 5,365 | 5,386 | 5,365 |
| ESEER                                       | (1)    | kW/kW | 6,370                                                                                             | 6,370 | 6,300 | 6,390 | 6,380 | 6,400 | 6,520 | 6,440 | 6,600 | 6,520 |
| COOLING ONLY (EN14511 VALUE)                |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Cooling capacity                            | (1)(2) | kW    | 319,5                                                                                             | 363,3 | 440,0 | 504,2 | 571,4 | 646,5 | 726,6 | 880,5 | 1009  | 1143  |
| EER                                         | (1)(2) | kW/kW | 5,110                                                                                             | 5,120 | 5,090 | 5,110 | 5,100 | 5,090 | 5,130 | 5,110 | 5,170 | 5,120 |
| ESEER                                       | (1)(2) | kW/kW | 5,710                                                                                             | 5,720 | 5,630 | 5,720 | 5,710 | 5,700 | 5,850 | 5,720 | 5,940 | 5,800 |
| Cooling energy class                        |        |       | A                                                                                                 | A     | A     | A     | A     | A     | A     | A     | A     | A     |
| HEATING ONLY (GROSS VALUE)                  |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Total heating capacity                      | (3)    | kW    | 360,4                                                                                             | 409,8 | 490,8 | 562,9 | 642,6 | 725,7 | 819,7 | 984,4 | 1127  | 1282  |
| Total power input                           | (3)    | kW    | 76,22                                                                                             | 86,59 | 103,6 | 118,4 | 134,5 | 152,1 | 173,3 | 207,3 | 236,6 | 268,8 |
| COP                                         | (3)    | kW/kW | 4,730                                                                                             | 4,732 | 4,737 | 4,754 | 4,778 | 4,771 | 4,730 | 4,749 | 4,763 | 4,769 |
| HEATING ONLY (EN14511 VALUE)                |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Total heating capacity                      | (3)(2) | kW    | 361,8                                                                                             | 411,3 | 492,6 | 565,0 | 645,1 | 728,5 | 822,4 | 987,7 | 1131  | 1286  |
| COP                                         | (3)(2) | kW/kW | 4,460                                                                                             | 4,460 | 4,470 | 4,480 | 4,490 | 4,480 | 4,470 | 4,470 | 4,540 | 4,520 |
| Cooling energy class                        |        |       | A                                                                                                 | A     | A     | A     | A     | A     | A     | A     | A     | A     |
| EXCHANGERS                                  |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION   |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (1)    | l/s   | 15,33                                                                                             | 17,44 | 21,13 | 24,21 | 27,44 | 31,06 | 34,88 | 42,28 | 48,41 | 54,85 |
| Pressure drop                               | (1)    | kPa   | 45,7                                                                                              | 47,7  | 53,5  | 53,4  | 52,8  | 60,2  | 51,9  | 58,6  | 41,3  | 55,0  |
| HEAT EXCHANGER USER SIDE IN HEATING         |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (3)    | l/s   | 23,01                                                                                             | 26,17 | 30,56 | 35,56 | 41,13 | 45,28 | 52,34 | 62,92 | 72,05 | 80,00 |
| Pressure drop                               | (3)    | kPa   | 103                                                                                               | 107   | 112   | 115   | 119   | 128   | 117   | 130   | 91,5  | 117   |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (1)    | l/s   | 18,13                                                                                             | 20,62 | 24,99 | 28,62 | 32,44 | 36,72 | 41,24 | 49,99 | 57,20 | 64,85 |
| Pressure drop                               | (1)    | kPa   | 49,0                                                                                              | 47,2  | 52,2  | 53,3  | 55,0  | 57,0  | 47,2  | 52,1  | 53,4  | 55,0  |
| HEAT EXCHANGER SOURCE SIDE IN HEATING       |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Water flow                                  | (3)    | l/s   | 17,39                                                                                             | 19,78 | 23,69 | 27,17 | 31,02 | 35,03 | 39,57 | 47,52 | 54,38 | 61,87 |
| Pressure drop                               | (3)    | kPa   | 45,1                                                                                              | 43,5  | 46,9  | 48,0  | 50,3  | 51,8  | 43,4  | 47,1  | 48,3  | 50,1  |
| REFRIGERANT CIRCUIT                         |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Compressors nr.                             |        | N°    | 1                                                                                                 | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     | 2     |
| Number of capacity steps                    |        | N°    | 0                                                                                                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| No. Circuits                                |        | N°    | 1                                                                                                 | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     | 2     |
| Regulation                                  |        |       | STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS         |       |       |       |       |       |       |       |       |       |
| Min. capacity step                          |        | %     | 25                                                                                                | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    |
| Refrigerant                                 |        |       | R513A                                                                                             | R513A | R513A | R513A | R513A | R513A | R513A | R513A | R513A | R513A |
| Refrigerant charge                          |        | kg    | 53,0                                                                                              | 63,0  | 79,0  | 76,0  | 84,0  | 105   | 131   | 147   | 168   | 183   |
| Oil charge                                  |        | kg    | 19,0                                                                                              | 19,0  | 35,0  | 35,0  | 35,0  | 35,0  | 38,0  | 70,0  | 70,0  | 70,0  |
| Rc (ASHRAE)                                 | (4)    | kg/kW | 0,17                                                                                              | 0,17  | 0,18  | 0,15  | 0,15  | 0,16  | 0,18  | 0,17  | 0,17  | 0,16  |
| NOISE LEVEL                                 |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| Sound Pressure                              | (5)    | dB(A) | 79                                                                                                | 78    | 78    | 78    | 78    | 78    | 80    | 80    | 80    | 79    |
| Sound power level in cooling                | (6)(7) | dB(A) | 97                                                                                                | 97    | 97    | 97    | 97    | 97    | 99    | 99    | 99    | 99    |
| Sound power level in heating                | (6)(8) | dB(A) | 0                                                                                                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| SIZE AND WEIGHT                             |        |       |                                                                                                   |       |       |       |       |       |       |       |       |       |
| A                                           | (9)    | mm    | 4250                                                                                              | 4250  | 4150  | 4150  | 4130  | 4350  | 4550  | 4950  | 5170  | 4920  |
| B                                           | (9)    | mm    | 900                                                                                               | 900   | 900   | 900   | 900   | 900   | 1150  | 1150  | 1150  | 1150  |
| H                                           | (9)    | mm    | 1815                                                                                              | 1910  | 1990  | 1990  | 1990  | 2090  | 2050  | 2200  | 2200  | 2350  |
| Operating weight                            | (9)    | kg    | 2470                                                                                              | 2770  | 3570  | 3750  | 3790  | 4230  | 5390  | 6460  | 6920  | 7900  |

## Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) heating exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger water (in/out) 10,00°C/7,00°C

4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

5 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

6 Sound power on the basis of measurements made in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Sound power level in heating, indoors.

9 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

# GENERAL TECHNICAL DATA

# FOCS2-W-G05 /H /CA-E

[ SI System ]

| FOCS2-W-G05 /H /CA-E                        |        |                                                                                 | 4802  | 2701  | 3001  | 5402  | 7204  | 7804  | 8404  |  |
|---------------------------------------------|--------|---------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|
| Power supply                                |        | V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 |       |       |       |       |       |       |       |  |
| PERFORMANCE                                 |        |                                                                                 |       |       |       |       |       |       |       |  |
| COOLING ONLY (GROSS VALUE)                  |        |                                                                                 |       |       |       |       |       |       |       |  |
| Cooling capacity                            | (1)    | kW                                                                              | 1299  | 706,7 | 781,3 | 1411  | 2025  | 2157  | 2294  |  |
| Total power input                           | (1)    | kW                                                                              | 242,0 | 133,2 | 146,9 | 266,3 | 375,9 | 401,7 | 427,5 |  |
| EER                                         | (1)    | kW/kW                                                                           | 5,368 | 5,306 | 5,319 | 5,299 | 5,387 | 5,370 | 5,366 |  |
| ESEER                                       | (1)    | kW/kW                                                                           | 6,530 | 6,380 | 6,400 | 6,540 | 6,620 | 6,510 | 6,520 |  |
| COOLING ONLY (EN14511 VALUE)                |        |                                                                                 |       |       |       |       |       |       |       |  |
| Cooling capacity                            | (1)(2) | kW                                                                              | 1293  | 704,0 | 778,6 | 1407  | 2019  | 2149  | 2286  |  |
| EER                                         | (1)(2) | kW/kW                                                                           | 5,110 | 5,060 | 5,090 | 5,090 | 5,190 | 5,140 | 5,140 |  |
| ESEER                                       | (1)(2) | kW/kW                                                                           | 5,750 | 5,750 | 5,810 | 5,890 | 6,020 | 5,830 | 5,860 |  |
| Cooling energy class                        |        | A                                                                               | A     | A     | A     | A     | A     | A     | A     |  |
| HEATING ONLY (GROSS VALUE)                  |        |                                                                                 |       |       |       |       |       |       |       |  |
| Total heating capacity                      | (3)    | kW                                                                              | 1435  | 786,8 | 869,6 | 1571  | 2253  | 2371  | 2563  |  |
| Total power input                           | (3)    | kW                                                                              | 303,7 | 166,3 | 183,4 | 332,6 | 473,2 | 504,4 | 537,7 |  |
| COP                                         | (3)    | kW/kW                                                                           | 4,725 | 4,731 | 4,742 | 4,723 | 4,761 | 4,701 | 4,767 |  |
| HEATING ONLY (EN14511 VALUE)                |        |                                                                                 |       |       |       |       |       |       |       |  |
| Total heating capacity                      | (3)(2) | kW                                                                              | 1440  | 789,6 | 872,5 | 1576  | 2260  | 2378  | 2571  |  |
| COP                                         | (3)(2) | kW/kW                                                                           | 4,510 | 4,470 | 4,500 | 4,500 | 4,560 | 4,520 | 4,530 |  |
| Cooling energy class                        |        | A                                                                               | A     | A     | A     | A     | A     | A     | A     |  |
| EXCHANGERS                                  |        |                                                                                 |       |       |       |       |       |       |       |  |
| HEAT EXCHANGER USER SIDE IN REFRIGERATION   |        |                                                                                 |       |       |       |       |       |       |       |  |
| Water flow                                  | (1)    | l/s                                                                             | 62,10 | 33,80 | 37,36 | 67,48 | 96,82 | 103,2 | 109,7 |  |
| Pressure drop                               | (1)    | kPa                                                                             | 65,0  | 51,5  | 47,2  | 46,0  | 41,3  | 59,3  | 54,6  |  |
| HEAT EXCHANGER USER SIDE IN HEATING         |        |                                                                                 |       |       |       |       |       |       |       |  |
| Water flow                                  | (3)    | l/s                                                                             | 80,00 | 50,24 | 55,56 | 99,72 | 144,1 | 129,4 | 160,0 |  |
| Pressure drop                               | (3)    | kPa                                                                             | 108   | 114   | 104   | 101   | 91,5  | 93,4  | 116   |  |
| HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION |        |                                                                                 |       |       |       |       |       |       |       |  |
| Water flow                                  | (1)    | l/s                                                                             | 73,42 | 40,02 | 44,23 | 79,94 | 114,4 | 121,9 | 129,7 |  |
| Pressure drop                               | (1)    | kPa                                                                             | 57,3  | 52,3  | 49,9  | 52,2  | 52,6  | 54,0  | 54,5  |  |
| HEAT EXCHANGER SOURCE SIDE IN HEATING       |        |                                                                                 |       |       |       |       |       |       |       |  |
| Water flow                                  | (3)    | l/s                                                                             | 69,25 | 37,98 | 41,98 | 75,82 | 108,8 | 114,4 | 123,7 |  |
| Pressure drop                               | (3)    | kPa                                                                             | 51,0  | 47,1  | 45,0  | 46,9  | 47,5  | 47,5  | 49,6  |  |
| REFRIGERANT CIRCUIT                         |        |                                                                                 |       |       |       |       |       |       |       |  |
| Compressors nr.                             |        | N°                                                                              | 2     | 1     | 1     | 2     | 4     | 4     | 4     |  |
| Number of capacity steps                    |        | N°                                                                              | 0     | 0     | 0     | 0     | 0     | 0     | 0     |  |
| No. Circuits                                |        | N°                                                                              | 2     | 1     | 1     | 2     | 4     | 4     | 4     |  |
| Regulation                                  |        | STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS                  |       |       |       |       |       |       |       |  |
| Min. capacity step                          |        | %                                                                               | 25    | 25    | 25    | 25    | 25    | 25    | 25    |  |
| Refrigerant                                 |        | R513A R513A R513A R513A R513A R513A R513A                                       |       |       |       |       |       |       |       |  |
| Refrigerant charge                          |        | kg                                                                              | 221   | 121   | 111   | 231   | 336   | 366   | 366   |  |
| Oil charge                                  |        | kg                                                                              | 70,0  | 38,0  | 38,0  | 76,0  | 140   | 140   | 140   |  |
| Rc (ASHRAE)                                 | (4)    | kg/kW                                                                           | 0,17  | 0,17  | 0,14  | 0,17  | 0,17  | -     | 0,16  |  |
| NOISE LEVEL                                 |        |                                                                                 |       |       |       |       |       |       |       |  |
| Sound Pressure                              | (5)    | dB(A)                                                                           | 79    | 80    | 80    | 81    | 82    | 82    | 82    |  |
| Sound power level in cooling                | (6)(7) | dB(A)                                                                           | 99    | 99    | 99    | 101   | 102   | 102   | 102   |  |
| Sound power level in heating                | (6)(8) | dB(A)                                                                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     |  |
| SIZE AND WEIGHT                             |        |                                                                                 |       |       |       |       |       |       |       |  |
| A                                           | (9)    | mm                                                                              | 4920  | 4350  | 4350  | 5200  | 5220  | 4900  | 4900  |  |
| B                                           | (9)    | mm                                                                              | 1285  | 900   | 900   | 1285  | 2250  | 2250  | 2250  |  |
| H                                           | (9)    | mm                                                                              | 2430  | 2180  | 2180  | 2440  | 2305  | 2455  | 2455  |  |
| Operating weight                            | (9)    | kg                                                                              | 8560  | 4760  | 4870  | 8850  | 13720 | 15850 | 16100 |  |

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