

6.1 GENERAL TECHNICAL DATA

FOCS3-W-G05

[SI System]

FOCS3-W-G05			0551	0701	0851	0951	1101	1301	1401	1651	1901	2101
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	188,2	250,0	306,0	337,6	383,5	459,9	524,0	591,8	681,6	741,3
Total power input	(1)	kW	36,40	47,78	58,45	63,77	72,73	85,99	96,90	108,2	127,0	138,7
EER	(1)	kW/kW	5,170	5,230	5,231	5,292	5,275	5,348	5,408	5,470	5,367	5,345
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	187,9	249,6	305,6	337,2	383,1	459,5	523,6	591,2	681,0	740,7
EER	(2)(3)	kW/kW	4,900	4,970	4,980	5,030	5,010	5,120	5,200	5,210	5,130	5,140
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(2)	l/s	9,001	11,95	14,63	16,15	18,34	21,99	25,06	28,30	32,59	35,45
Pressure drop at the heat exchanger	(2)	kPa	42,0	48,7	49,1	52,4	52,8	37,6	39,9	50,9	42,0	42,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(2)	l/s	10,70	14,19	17,36	19,13	21,74	26,02	29,60	33,37	38,54	41,94
Pressure drop at the heat exchanger	(2)	kPa	57,4	57,9	56,7	59,3	58,1	55,2	44,8	55,8	60,4	45,8
REFRIGERANT CIRCUIT												
Compressors nr.		N°	1	1	1	1	1	1	1	1	1	1
Number of capacity steps		N°	0	0	0	0	0	0	0	0	0	0
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	83,0	95,0	105	104	95,0	110	121	124	134	162
Oil charge		kg	15,0	15,0	22,0	19,0	19,0	35,0	35,0	35,0	35,0	38,0
Rc (ASHRAE)	(4)	kg/kW	0,45	0,38	0,35	0,31	0,25	0,24	0,23	0,21	0,20	0,22
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	77	77	80	80	80	80	80	80	80	82
Total sound power level in cooling	(6)(7)	dB(A)	95	95	98	98	98	98	98	98	98	100
SIZE AND WEIGHT												
A	(8)	mm	2920	2920	2920	2920	2920	2900	2900	2900	2930	2980
B	(8)	mm	1180	1180	1180	1180	1180	1180	1180	1180	1180	1190
H	(8)	mm	1870	1870	1870	1870	1870	1960	1970	1960	2050	2100
Operating weight	(8)	kg	1740	1790	2170	2200	2260	2940	3020	3150	3270	3570

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

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 taken in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

FOCS3-W-G05

[SI System]

FOCS3-W-G05			2501	2602	3002	3152	3502	3652	4002	4102	4502	4602
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
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	837,0	915,9	1062	1140	1218	1303	1382	1450	1522	1614
Total power input	(1)	kW	155,6	171,0	194,8	204,3	222,9	234,1	251,9	263,1	279,3	295,9
EER	(1)	kW/kW	5,379	5,356	5,452	5,580	5,464	5,566	5,486	5,511	5,449	5,455
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	836,4	915,2	1061	1140	1217	1303	1382	1449	1521	1613
EER	(2)(3)	kW/kW	5,170	5,170	5,220	5,420	5,230	5,400	5,270	5,300	5,230	5,270
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(2)	l/s	40,03	43,80	50,79	54,53	58,23	62,33	66,11	69,33	72,76	77,20
Pressure drop at the heat exchanger	(2)	kPa	42,8	40,0	51,5	37,4	51,4	39,8	50,4	46,7	51,5	38,6
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(2)	l/s	47,31	51,80	59,91	64,10	68,67	73,30	77,91	81,66	85,84	91,05
Pressure drop at the heat exchanger	(2)	kPa	48,1	44,5	54,4	32,0	56,8	34,1	53,5	50,1	55,4	50,5
REFRIGERANT CIRCUIT												
Compressors nr.		N°	1	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0	0	0
No. Circuits		N°	1	2	2	2	2	2	2	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	50	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	201	231	274	297	297	308	308	317	327	376
Oil charge		kg	38,0	70,0	70,0	70,0	70,0	70,0	70,0	73,0	76,0	76,0
Rc (ASHRAE)	(4)	kg/kW	0,24	0,25	0,26	0,26	0,25	0,24	0,23	0,22	0,22	0,24
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	82	81	81	81	81	81	81	82	82	82
Total sound power level in cooling	(6)(7)	dB(A)	100	100	100	100	100	100	100	101	102	102
SIZE AND WEIGHT												
A	(8)	mm	2990	4430	4430	4440	4470	4470	4470	4565	4650	5270
B	(8)	mm	1280	1270	1270	1270	1270	1320	1270	1320	1320	1320
H	(8)	mm	2200	2210	2210	2280	2250	2330	2280	2380	2380	2380
Operating weight	(8)	kg	3960	6200	6430	7080	7160	7560	7280	7850	7940	8420

Notes:

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2 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

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 taken in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

FOCS3-W-G05

[SI System]

FOCS3-W-G05		4752	
Power supply		V/ph/Hz	400/3/50
PERFORMANCE			
COOLING ONLY (GROSS VALUE)			
Cooling capacity	(1)	kW	1693
Total power input	(1)	kW	304,3
EER	(1)	kW/kW	5,564
COOLING ONLY (EN14511 VALUE)			
Cooling capacity	(2)(3)	kW	1692
EER	(2)(3)	kW/kW	5,340
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN COOLING			
Water flow	(2)	l/s	80,94
Pressure drop at the heat exchanger	(2)	kPa	46,7
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION			
Water flow	(2)	l/s	95,19
Pressure drop at the heat exchanger	(2)	kPa	58,7
REFRIGERANT CIRCUIT			
Compressors nr.		N°	2
Number of capacity steps		N°	0
No. Circuits		N°	2
Regulation		STEPSLESS	
Min. capacity step		%	25
Refrigerant			R513A
Refrigerant charge		kg	376
Oil charge		kg	76,0
Rc (ASHRAE)	(4)	kg/kW	0,22
NOISE LEVEL			
Total sound Pressure	(5)	dB(A)	82
Total sound power level in cooling	(6)(7)	dB(A)	102
SIZE AND WEIGHT			
A	(8)	mm	5270
B	(8)	mm	1320
H	(8)	mm	2380
Operating weight	(8)	kg	8950

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 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.

3 Values in compliance with EN14511

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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 taken in compliance with ISO 9614.

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

7.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281) Ambient refrigeration

FOCS3-W-G05			0551	0701	0851	0951	1101	1301	1401	1651	1901	2101
Prated,c	(1)	kW	187,9	249,6	305,6	337,2	383,1	459,5	523,6	591,2	681,0	740,7
SEER	(1) (2)	-	6,21	6,43	5,97	6,19	6,18	6,38	6,76	6,54	6,48	6,40
Performance η_s	(1) (3)	%	245,0	254,0	236,0	245,0	244,0	252,0	267,0	259,0	256,0	253,0
FOCS3-W-G05			2501	2602	3002	3152	3502	3652	4002	4102	4502	4602
Prated,c	(1)	kW	836,4	915,2	1061,0	1140,0	1217,0	1303,0	1382,0	1449,0	1521,0	1613,0
SEER	(1) (2)	-	6,46	6,73	7,15	7,32	6,97	7,18	6,98	7,17	6,95	6,88
Performance η_s	(1) (3)	%	255,0	266,0	283,0	290,0	276,0	284,0	276,0	284,0	275,0	272,0
FOCS3-W-G05			4752									
Prated,c	(1)	kW	1692,0									
SEER	(1) (2)	-	7,12									
Performance η_s	(1) (3)	%	282,0									

Notes:

(1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]

(2) Seasonal energy efficiency ratio

(3) Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

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