

5.1 GENERAL TECHNICAL DATA

FOCS-N-G05/B

[SI System]

FOCS-N-G05/B			2022	2222	2422	2722	3222	3622	4222	4822
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
PERFORMANCE										
COOLING ONLY (GROSS VALUE)										
Cooling capacity	(1)	kW	449,7	494,0	530,9	662,8	790,9	916,2	1029	1146
Total power input	(1)	kW	169,5	184,1	193,9	233,6	278,2	304,4	350,4	396,9
EER	(1)	kW/kW	2,653	2,683	2,738	2,837	2,843	3,010	2,937	2,887
ESEER	(1)	kW/kW	3,640	3,680	3,740	4,130	4,020	4,000	4,120	4,040
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)	kW	448,5	492,6	529,3	661,1	788,7	913,9	1026	1143
EER	(1)(2)	kW/kW	2,630	2,660	2,710	2,810	2,810	2,980	2,900	2,860
ESEER	(1)(2)	kW/kW	3,540	3,580	3,620	4,020	3,910	3,900	3,980	3,930
Cooling energy class			D	D	C	C	C	B	B	C
HEATING ONLY (GROSS VALUE)										
Total heating capacity	(3)	kW	483,4	528,9	568,2	705,5	832,1	955,4	1083	1207
Total power input	(3)	kW	158,4	172,5	185,0	218,9	257,0	288,0	328,4	369,9
COP	(3)	kW/kW	3,052	3,066	3,071	3,223	3,238	3,317	3,298	3,263
HEATING ONLY (EN14511 VALUE)										
Total heating capacity	(3)(2)	kW	484,8	530,6	570,2	707,6	834,7	958,0	1087	1211
COP	(3)(2)	kW/kW	3,030	3,050	3,050	3,200	3,220	3,300	3,270	3,240
Cooling energy class			B	B	B	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY										
Cooling capacity	(4)	kW	466,5	512,5	550,8	687,6	820,6	950,5	1067	1189
Total power input	(4)	kW	164,2	178,5	188,0	226,2	269,5	294,9	339,3	384,4
Desuperheater heating capacity	(4)	kW	133,4	142,9	151,7	187,3	224,1	241,3	282,4	317,9
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)	l/s	21,50	23,62	25,39	31,69	37,82	43,81	49,20	54,80
Pressure drop	(1)	kPa	30,0	33,3	38,4	32,5	36,7	33,3	42,3	37,0
HEAT EXCHANGER USER SIDE IN HEATING										
Water flow	(3)	l/s	23,33	25,53	27,43	34,06	40,17	46,12	52,30	58,27
Pressure drop	(3)	kPa	35,3	38,9	44,8	37,6	41,4	36,9	47,9	41,8
PARTIAL RECOVERY USER SIDE IN REFRIGERATION										
Water flow	(4)	l/s	6,440	6,898	7,321	9,039	10,82	11,65	13,63	15,34
Pressure drop	(4)	kPa	40,2	46,1	52,0	37,1	36,5	24,3	33,2	32,6
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	2	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	184	213	230	258	311	385	437	483
Oil charge		kg	44,0	44,0	44,0	38,0	70,0	70,0	70,0	70,0
Rc (ASHRAE)	(5)	kg/kW	0,41	0,44	0,44	0,39	0,40	0,42	0,43	0,43
FANS										
Quantity		N°	10	12	12	14	16	20	20	24
Air flow		m³/s	52,76	68,46	63,59	75,53	86,32	105,51	101,22	127,19
Fans power input		kW	2,00	2,00	2,00	1,70	1,70	1,70	1,70	1,70
NOISE LEVEL										
Sound Pressure	(6)	dB(A)	79	80	80	80	81	80	82	81
Sound power level in cooling	(7)(8)	dB(A)	99	101	101	101	102	102	104	104
Sound power level in heating	(7)(9)	dB(A)	99	101	101	101	102	102	104	104
SIZE AND WEIGHT										
A	(10)	mm	4900	5800	5800	7000	7900	10000	10000	11800
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	5900	6330	6420	7290	9390	10400	10700	11310

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

2 Values in compliance with EN14511

3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.

4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.

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

6 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.

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

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

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

- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA

FOCS-N-G05/CA

[SI System]

FOCS-N-G05/CA		2022	2222	2422	2622	2722	3222	3622	4222	4822
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	459,6	502,8	537,8	586,0	671,6	802,9	928,9	1041
Total power input	(1)	kW	164,0	176,2	188,1	209,6	226,5	269,8	296,3	348,8
EER	(1)	kW/kW	2,802	2,854	2,859	2,796	2,965	2,976	3,135	2,985
ESEER	(1)	kW/kW	3,820	3,850	3,850	3,880	4,290	4,130	4,150	4,160
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)	kW	458,4	501,4	536,1	584,7	669,8	800,6	926,5	1038
EER	(1)(2)	kW/kW	2,770	2,820	2,820	2,770	2,930	2,940	3,100	2,950
ESEER	(1)(2)	kW/kW	3,720	3,750	3,730	3,800	4,150	4,000	4,040	4,020
Cooling energy class			C	C	C	C	B	B	A	B
HEATING ONLY (GROSS VALUE)										
Total heating capacity	(3)	kW	474,9	525,3	558,7	595,6	689,4	812,5	932,0	1062
Total power input	(3)	kW	149,3	162,5	174,2	184,5	205,6	241,7	269,1	312,8
COP	(3)	kW/kW	3,181	3,233	3,207	3,228	3,353	3,362	3,463	3,395
HEATING ONLY (EN14511 VALUE)										
Total heating capacity	(3)(2)	kW	476,3	526,9	560,6	597,0	691,4	814,9	934,5	1065
COP	(3)(2)	kW/kW	3,160	3,210	3,180	3,210	3,330	3,340	3,440	3,370
Cooling energy class			B	A	B	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY										
Cooling capacity	(4)	kW	476,8	521,7	558,0	608,0	696,7	833,0	963,7	1080
Total power input	(4)	kW	159,0	170,8	182,3	203,1	219,5	261,3	287,1	338,0
Desuperheater heating capacity	(4)	kW	128,6	135,8	146,5	165,7	181,0	216,5	234,1	274,9
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)	l/s	21,98	24,05	25,72	28,02	32,11	38,39	44,42	49,77
Pressure drop	(1)	kPa	31,3	34,5	39,4	26,5	33,4	37,8	34,3	43,3
HEAT EXCHANGER USER SIDE IN HEATING										
Water flow	(3)	l/s	22,92	25,36	26,97	28,75	33,28	39,22	44,99	51,24
Pressure drop	(3)	kPa	34,1	38,3	43,4	27,9	35,9	39,5	35,2	45,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION										
Water flow	(4)	l/s	6,206	6,556	7,069	7,998	8,736	10,45	11,30	13,27
Pressure drop	(4)	kPa	37,3	41,7	48,4	29,0	34,6	34,1	22,8	31,5
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	2	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	233	256	253	276	288	391	495	518
Oil charge		kg	44,0	44,0	44,0	44,0	38,0	70,0	70,0	70,0
Rc (ASHRAE)	(5)	kg/kW	0,51	0,51	0,48	0,48	0,43	0,49	0,54	0,54
FANS										
Quantity		N°	10	12	12	12	14	16	20	24
Air flow		m³/s	50,61	65,60	61,02	61,02	72,52	82,88	101,22	127,19
Fans power input		kW	2,00	2,00	2,00	2,00	1,70	1,70	1,70	1,70
NOISE LEVEL										
Sound Pressure	(6)	dB(A)	79	80	80	80	80	81	80	81
Sound power level in cooling	(7)(8)	dB(A)	99	101	101	101	101	102	102	104
Sound power level in heating	(7)(9)	dB(A)	99	101	101	101	101	102	102	104
SIZE AND WEIGHT										
A	(10)	mm	4900	5800	5800	5800	7000	7900	10000	11800
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	6050	6630	6710	6950	7480	9620	10650	11690

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 2 Values in compliance with EN14511
- 3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
- 6 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.
- 7 Sound power on the basis of measurements made in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Sound power level in heating, outdoors.
- 10 Unit in standard configuration/execution, without optional accessories.
- Not available
- Certified data in EUROVENT

GENERAL TECHNICAL DATA

FOCS-N-G05/LN-CA

[SI System]

FOCS-N-G05/LN-CA		2022	2222	2422	2622	2722	3222	3622	4222	4822
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	444,3	492,0	524,2	564,0	654,5	779,5	903,5	1013
Total power input	(1)	kW	166,8	176,3	189,9	214,0	228,4	272,7	295,2	347,9
EER	(1)	kW/kW	2,664	2,791	2,760	2,636	2,866	2,858	3,061	2,912
ESEER	(1)	kW/kW	3,780	3,850	3,840	3,860	4,250	4,110	4,140	4,150
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)	kW	443,2	490,6	522,6	562,8	652,8	777,4	901,3	1010
EER	(1)(2)	kW/kW	2,640	2,760	2,730	2,620	2,840	2,830	3,030	2,880
ESEER	(1)(2)	kW/kW	3,680	3,740	3,730	3,780	4,130	4,000	4,030	4,020
Cooling energy class			D	C	C	D	C	C	B	C
HEATING ONLY (GROSS VALUE)										
Total heating capacity	(3)	kW	471,6	525,3	558,7	591,5	689,4	812,5	932,0	1062
Total power input	(3)	kW	149,3	162,5	174,2	184,5	205,6	241,7	269,1	312,8
COP	(3)	kW/kW	3,159	3,233	3,207	3,206	3,353	3,362	3,463	3,395
HEATING ONLY (EN14511 VALUE)										
Total heating capacity	(3)(2)	kW	472,9	526,9	560,6	592,9	691,4	814,9	934,5	1065
COP	(3)(2)	kW/kW	3,140	3,210	3,180	3,190	3,330	3,340	3,440	3,370
Cooling energy class			B	A	B	B	A	A	A	A
COOLING WITH PARTIAL RECOVERY										
Cooling capacity	(4)	kW	461,0	510,4	543,8	585,2	679,0	808,8	937,4	1051
Total power input	(4)	kW	161,4	170,6	183,8	207,0	220,8	263,6	285,5	336,4
Desuperheater heating capacity	(4)	kW	138,2	144,5	156,7	178,2	193,2	231,3	248,3	292,3
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)	l/s	21,25	23,53	25,07	26,97	31,30	37,28	43,21	48,44
Pressure drop	(1)	kPa	29,3	33,0	37,5	24,5	31,7	35,7	32,4	41,1
HEAT EXCHANGER USER SIDE IN HEATING										
Water flow	(3)	l/s	22,77	25,36	26,97	28,55	33,28	39,22	44,99	51,24
Pressure drop	(3)	kPa	33,6	38,3	43,4	27,5	35,9	39,5	35,2	45,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION										
Water flow	(4)	l/s	6,670	6,976	7,563	8,602	9,328	11,16	11,99	14,11
Pressure drop	(4)	kPa	43,1	47,2	55,4	33,6	39,5	38,9	25,7	35,6
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	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
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	242	267	284	306	316	391	541	535
Oil charge		kg	44,0	44,0	44,0	44,0	38,0	70,0	70,0	70,0
Rc (ASHRAE)	(5)	kg/kW	0,55	0,55	0,55	0,55	0,49	0,51	0,60	0,53
FANS										
Quantity		N°	10	12	12	12	14	16	20	24
Air flow		m³/s	38,06	50,60	46,03	46,03	54,93	62,78	76,13	96,98
Fans power input		kW	1,20	1,20	1,20	1,20	0,85	0,85	0,85	0,85
NOISE LEVEL										
Sound Pressure	(6)	dB(A)	73	74	74	74	74	75	74	75
Sound power level in cooling	(7)(8)	dB(A)	93	95	95	95	95	96	96	98
Sound power level in heating	(7)(9)	dB(A)	94	96	96	96	96	97	97	99
SIZE AND WEIGHT										
A	(10)	mm	4900	5800	5800	5800	7000	7900	10000	11800
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	6120	6610	6700	6930	7580	9730	10800	11860

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

2 Values in compliance with EN14511

3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.

4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.

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

6 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.

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

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

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

- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA

FOCS-N-G05/SL-CA

[SI System]

FOCS-N-G05/SL-CA			2022	2222	2422	2622	2722	3222	3622	4222	4822
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	440,7	487,9	519,6	558,6	648,7	771,5	895,0	1004	1119
Total power input	(1)	kW	169,4	178,7	192,6	217,5	231,0	275,9	297,4	350,6	391,5
EER	(1)	kW/kW	2,602	2,730	2,698	2,568	2,808	2,796	3,009	2,864	2,858
ESEER	(1)	kW/kW	3,760	3,840	3,830	3,850	4,270	4,110	4,150	4,180	4,200
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	439,6	486,6	518,0	557,4	647,1	769,4	892,8	1001	1116
EER	(1)(2)	kW/kW	2,580	2,700	2,670	2,550	2,780	2,770	2,980	2,830	2,830
ESEER	(1)(2)	kW/kW	3,670	3,740	3,710	3,770	4,160	3,990	4,040	4,040	4,080
Cooling energy class			D	C	D	D	C	C	B	C	C
HEATING ONLY (GROSS VALUE)											
Total heating capacity	(3)	kW	465,6	519,6	551,8	583,9	681,1	802,2	919,9	1050	1162
Total power input	(3)	kW	147,7	160,8	172,4	182,6	202,8	238,4	265,1	308,1	341,9
COP	(3)	kW/kW	3,152	3,231	3,201	3,198	3,358	3,365	3,470	3,408	3,399
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(3)(2)	kW	466,9	521,2	553,7	585,2	683,0	804,6	922,3	1053	1165
COP	(3)(2)	kW/kW	3,130	3,210	3,180	3,180	3,340	3,340	3,450	3,380	3,380
Cooling energy class			B	A	B	B	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY											
Cooling capacity	(4)	kW	457,2	506,2	539,1	579,5	673,0	800,5	928,5	1042	1161
Total power input	(4)	kW	163,9	172,9	186,3	210,4	223,2	266,6	287,5	338,9	378,4
Desuperheater heating capacity	(4)	kW	141,4	147,8	160,1	182,4	197,4	236,3	253,0	297,9	334,5
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	21,08	23,33	24,85	26,71	31,02	36,90	42,80	48,01	53,53
Pressure drop	(1)	kPa	28,8	32,5	36,8	24,0	31,2	34,9	31,8	40,3	35,3
HEAT EXCHANGER USER SIDE IN HEATING											
Water flow	(3)	l/s	22,47	25,08	26,64	28,18	32,88	38,72	44,40	50,67	56,11
Pressure drop	(3)	kPa	32,7	37,5	42,3	26,8	35,0	38,5	34,2	44,9	38,8
PARTIAL RECOVERY USER SIDE IN REFRIGERATION											
Water flow	(4)	l/s	6,825	7,133	7,728	8,804	9,530	11,41	12,21	14,38	16,15
Pressure drop	(4)	kPa	45,2	49,3	57,9	35,2	41,2	40,6	26,7	37,0	36,2
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS								
Min. capacity step		%	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	243	268	285	307	317	391	541	536	598
Oil charge		kg	44,0	44,0	44,0	44,0	38,0	70,0	70,0	70,0	70,0
Rc (ASHRAE)	(5)	kg/kW	0,56	0,55	0,55	0,55	0,49	0,51	0,61	0,54	0,54
FANS											
Quantity		N°	10	12	12	12	14	16	20	24	24
Air flow		m³/s	35,07	46,62	42,44	42,44	50,73	57,98	70,15	89,76	84,88
Fans power input		kW	1,10	1,10	1,10	1,10	0,70	0,70	0,70	0,70	0,70
NOISE LEVEL											
Sound Pressure	(6)	dB(A)	69	70	70	70	70	71	70	71	71
Sound power level in cooling	(7)(8)	dB(A)	89	91	91	91	91	92	92	94	94
Sound power level in heating	(7)(9)	dB(A)	90	92	92	92	92	93	93	95	95
SIZE AND WEIGHT											
A	(10)	mm	4900	5800	5800	5800	7000	7900	10000	11800	11800
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	6190	6680	6770	7010	7650	9820	10890	11510	11950

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

2 Values in compliance with EN14511

3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.

4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.

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

6 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.

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

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

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

- Not available

Certified data in EUROVENT

**6.1 TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

FOCS-N-G05/B

[SI System]

FOCS-N-G05/B - LOW TEMPERATURE application			2022	2222	2422
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at Tdesignh	(1)(2)	kW	369	404	436
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		4,18	4,20	4,13
Seasonal space heating energy efficiency	(1)(2)	%	164	165	162
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at Tdesignh	(1)(2)	kW	339	366	400
Bivalent temperature	(1)(2)	°C	-7	-7	-7
SCOP	(1)(2)		3,19	3,20	3,19
Seasonal space heating energy efficiency	(1)(2)	%	125	125	125
Seasonal space heating energy efficiency class	(1)(2)		-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

FOCS-N-G05/CA

[SI System]

FOCS-N-G05/CA - LOW TEMPERATURE application			2022	2222	2422	2622
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER						
Rated heat output at Tdesignh	(1)(2)	kW	363	402	429	459
Bivalent temperature	(1)(2)	°C	2	2	2	2
SCOP	(1)(2)		4,24	4,24	4,25	4,41
Seasonal space heating energy efficiency	(1)(2)	%	167	167	167	173
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-
WEATHER CONDITIONS - AVERAGE						
Rated heat output at Tdesignh	(1)(2)	kW	342	372	361	393
Bivalent temperature	(1)(2)	°C	-7	-7	-9	-9
SCOP	(1)(2)		3,38	3,41	3,38	3,56
Seasonal space heating energy efficiency	(1)(2)	%	132	133	132	139
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

FOCS-N-G05/LN-CA

[SI System]

FOCS-N-G05/LN-CA - LOW TEMPERATURE application			2022	2222	2422	2622
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER						
Rated heat output at Tdesignh	(1)(2)	kW	360	402	429	455
Bivalent temperature	(1)(2)	°C	2	2	2	2
SCOP	(1)(2)		4,20	4,24	4,25	4,38
Seasonal space heating energy efficiency	(1)(2)	%	165	167	167	172
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-
WEATHER CONDITIONS - AVERAGE						
Rated heat output at Tdesignh	(1)(2)	kW	340	372	361	391
Bivalent temperature	(1)(2)	°C	-7	-7	-9	-9
SCOP	(1)(2)		3,36	3,41	3,38	3,53
Seasonal space heating energy efficiency	(1)(2)	%	131	133	132	138
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

FOCS-N-G05/SL-CA

[SI System]

FOCS-N-G05/SL-CA - LOW TEMPERATURE application			2022	2222	2422	2622
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER						
Rated heat output at Tdesignh	(1)(2)	kW	356	398	424	450
Bivalent temperature	(1)(2)	°C	2	2	2	2
SCOP	(1)(2)		4,22	4,28	4,27	4,40
Seasonal space heating energy efficiency	(1)(2)	%	166	168	168	173
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-
WEATHER CONDITIONS - AVERAGE						
Rated heat output at Tdesignh	(1)(2)	kW	340	371	365	393
Bivalent temperature	(1)(2)	°C	-7	-7	-9	-9
SCOP	(1)(2)		3,39	3,44	3,41	3,56
Seasonal space heating energy efficiency	(1)(2)	%	132	135	134	139
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

7.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

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

Ambient refrigeration

FOCS-N-G05/B						2722	3222	3622	4222	4822		
Prated,c	(1)	kW				661,1	788,7	913,9	1026,0	1143,0		
SEER	(1) (2)	-				4,14	4,10	4,10	4,15	4,11		
Performance η_s	(1) (3)	%				163,0	161,0	161,0	163,0	161,0		

FOCS-N-G05/CA						2722	3222	3622	4222	4822		
Prated,c	(1)	kW				669,8	800,6	926,5	1038,0	1159,0		
SEER	(1) (2)	-				4,23	4,14	4,20	4,19	4,24		
Performance η_s	(1) (3)	%				166,0	163,0	165,0	165,0	167,0		

FOCS-N-G05/LN-CA						2722	3222	3622	4222	4822		
Prated,c	(1)	kW				652,8	777,4	901,3	1010,0	1127,0		
SEER	(1) (2)	-				4,22	4,11	4,17	4,18	4,22		
Performance η_s	(1) (3)	%				166,0	162,0	164,0	164,0	166,0		

FOCS-N-G05/SL-CA						2722	3222	3622	4222	4822		
Prated,c	(1)	kW				647,1	769,4	892,8	1001,0	1116,0		
SEER	(1) (2)	-				4,23	4,10	4,18	4,19	4,22		
Performance η_s	(1) (3)	%				166,0	161,0	164,0	165,0	166,0		

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.