

FX2-G05 /K

Compact Air Cooled Chiller with Screw Compressors

The new generation of customisable screw compressor chillers has arrived with Mitsubishi Electric's range of **FX2** air cooled chillers. The second generation of this chiller family marks considerable developments in seasonal efficiency, footprint, noise, operating envelope and configuration and customisation.

The **FX2-G05 /K** is designed to strike the best balance between footprint and efficiency. This second generation of air cooled chiller is more compact than the first generation making it ideal for refurbishment projects. Larger cooling capacity are achieved by utilising the low GWP refrigerant R513A, which being non-flammable, has an ASHRAE A1 safety class.

The **FX2** is the ultimate configurable screw chiller; available with 2 different levels of noise performance, options for integrated fixed speed or variable speed hydronic pumps, multiple heat exchanger coating options, several refrigerant leak detection options, energy and thermal meters and multiple methods for group controls configuration. With a wide operating envelope, a **FX2** air cooled chiller can be made just the way you need it.

R513A


Key Features & Benefits:

- Compressors using low GWP refrigerant
- Wide operating envelope for comfort and process applications
- Variety of low noise versions to match your project requirements
- Exceptionally compact design
- Wide variety of customisations available including factory fitted hydronic pump(s) for fixed or variable waterflow
- Available with EC Fans including High ESP version
- Refrigerant leak detection logic that can detect leaks without additional sensors provided as standard
- Heat recovery option available either as partial or total recovery



FX2-G05 /K		0352	0402	0472	0512	0572	0602	0652	0702	0772	0852	0902	1002	1052	1102	1152	1222	1262	1322	1402	1503	1593	1663	1773	1883	
Performance - Cooling Only																										
Gross Value ¹¹																										
Total Cooling Capacity	kW	322.1	650.2	411.9	464.4	516.7	573.4	645.8	707.6	779.8	862.9	937.3	996.0	1056.0	1098.0	1139.0	1232.0	1264.0	1332.0	1400.0	1506.0	1592.0	1664.0	1778.0	1839.0	
Total Power Input	kW	102.4	119.2	133.1	146.1	172.5	188.6	207.4	239.2	254.6	272.4	295.1	315.5	343.2	369.3	354.3	396.3	423.2	433.9	474.8	475.0	523.1	556.9	580.4	605.3	
EER	kW/kW	3.146	2.938	3.095	3.179	2.995	3.040	3.114	2.958	3.063	3.168	3.176	3.157	3.077	2.973	3.215	3.109	2.987	3.070	2.949	3.171	3.043	2.988	3.063	3.038	
EN14511 Values ^{11 12}																										
Total Cooling Capacity	kW	321.8	349.8	411.5	463.9	516.2	572.9	645.2	707.0	779	862	937	995	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838	
EER	kW/kW	3.12	2.91	3.06	3.14	2.97	3.01	3.08	2.93	3.02	3.13	3.14	3.12	3.04	2.94	3.17	3.07	2.96	3.03	2.91	3.13	3.01	2.96	3.03	3.00	
Seasonal Performance ¹³																										
Prated,c	kW	321.8	349.8	411.5	463.9	516.2	572.9	645.2	707.0	779	862	937	995	1055	1097	1138	1231	1264	1331	1399	1505	1591	1663	1777	1838	
SEER		4.51	4.50	4.56	4.58	4.56	4.56	4.58	4.57	4.57	4.58	4.59	4.59	4.56	4.56	4.58	4.60	4.56	4.57	4.58	4.59	4.59	4.58	4.60	4.63	
Performance ηs	%	177	177	179	180	179	179	180	180	180	180	180	181	180	179	180	181	179	180	180	181	181	180	181	182	
Heat Exchanger in Cooling ¹¹																										
Water Flow	User Side	l/s	15.4	16.8	19.7	22.2	24.7	27.4	30.9	33.8	37.3	41.3	44.8	47.6	50.5	52.5	54.5	58.9	60.5	63.7	67.0	72.0	76.1	79.6	85.0	87.9
Pressure Drop ¹²	User Side	kPa	27.7	32.7	38.8	49.4	37.3	46	46.6	44.5	54.1	47.2	49.2	55.6	48.3	52.1	56.1	61.6	48.8	54.2	59.9	52.5	58.6	45.1	51.6	59.1
Electrical Data																										
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	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	400/3/50	400/3/50	400/3/50
F.L.A. ¹⁴	Total	A	228	257	275	293	362	410	459	459	515	571	622	673	713	753	761	761	835	916	916	1009	1089	1129	1137	1137
Exchangers																										
Minimum Water Flow	Evaporator	l/s	10.6	10.6	13.3	13.3	12.5	12.5	15.8	17.5	17.5	19.2	19.2	19.2	25.0	25.0	25.0	25.0	31.1	31.1	31.1	41.7	41.7	41.7	41.7	41.7
Minimum Water Content	Plant	l	1100	1200	1400	1600	1800	2000	2300	2500	2700	3000	3300	3500	3700	3800	4000	4300	4400	4700	4900	5300	5600	5800	6200	6400
Fans																										
Quantity	No.	4	4	5	6	6	7	8	8	9	10	11	12	12	12	14	14	14	16	16	18	18	18	20	20	
Airflow	m ³ /s	21.3	21.3	26.6	31.9	31.9	37.2	42.5	42.5	47.9	53.2	58.5	63.8	63.8	63.8	74.4	74.4	74.4	85.1	85.1	95.7	95.7	95.7	106.3	106.3	
Refrigerant Circuit																										
Compressors	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	
Circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	
Refrigerant		R513A																								
Theoretical Refrigerant Charge ¹⁵	kg	57	60	71	81	88	98	113	120	133	150	163	173	179	186	195	210	214	232	238	263	271	281	303	318	
Noise Levels																										
Total Sound Pressure ¹⁶	dB(A)	67	67	67	68	68	68	68	70	69	69	70	70	71	71	71	71	72	73	73	73	73	73	73	73	73
Total Sound Power Level in Cooling ¹⁷	dB(A)	99	99	99	100	100	100	100	102	102	102	103	103	104	104	104	104	105	106	106	106	106	106	106	106	106
Size and Weight ¹⁸																										
Width (A)	mm	2750	2750	4000	4000	4000	5250	5250	5250	6500	6500	7750	7750	7750	7750	9000	9000	9150	10400	10400	11650	11650	11650	12900	12900	
Depth (B)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height (H)	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
Operation Weight	kg	3120	2950	3600	3730	4570	5060	5190	5550	6400	6980	7460	7620	7870	7900	8430	8500	8860	9470	9610	12050	12110	12120	12710	12720	

■ Eurovent Certified Data

Notes: 1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C. 2. Values in compliance with EN14511. 3. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook. 5. Theoretical - refer to serial plate for actual charge volumes. 6. Average sound pressure level at 10m 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 measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors. 8. Unit in standard configuration, without option accessories.

FX2-G05 /SL-K		0352	0402	0472	0512	0572	0602	0652	0702	0772	0852	0902	1002	1052	1102	1152	1222	1262	1322	1402	1503	1593	1663	1773	1883	
Performance - Cooling Only																										
Gross Value ¹¹																										
Total Cooling Capacity	kW	310.2	358.4	410.2	450.1	511.7	557.4	621.9	713.0	770.4	828.6	901.6	959.9	1037.0	1098.0	1131.0	1222.0	1257.0	1284.0	1386.0	1451.0	1573.0	1645.0	1714.0	1773.0	
Total Power Input	kW	103.1	115.1	128.2	148.9	164.4	177.9	211.2	226.9	251.5	276.9	300.1	321.0	341.7	359.9	347.4	388.0	415.0	441.0	467.8	483.3	519.5	550.6	593.8	620.9	
EER	kW/kW	3.009	3.114	3.200	3.023	3.113	3.133	2.945	3.142	3.063	2.992	3.004	2.990	3.035	3.051	3.256	3.149	3.029	2.912	2.963	3.002	3.028	2.988	2.886	2.856	
EN14511 Values ^{11 12}																										
Total Cooling Capacity	kW	309.80	358.00	409.80	449.70	511.20	556.90	621.30	712.40	769.70	828.00	901.00	959.10	1,037.00	1,097.00	1,130.00	1,222.00	1,256.00	1,283.00	1,385.00	1,451.00	1,572.00	1,644.00	1,714.00	1,772.00	
EER	kW/kW	2.98	3.08	3.16	2.99	3.08	3.10	2.91	3.11	3.02	2.96	2.97	2.96	3.00	3.02	3.21	3.11	3.00	2.88	2.93	2.97	2.99	2.96	2.86	2.82	
Seasonal Performance ¹³																										
Prated,c	kW	309.8	358.0	409.8	449.7	511.2	556.9	621.3	712.4	770	828	901	959	1037	1097	1130	1222	1256	1283	1385	1451	1572	1644	1714	1772	
SEER		4.46	4.50	4.56	4.55	4.57	4.55	4.55	4.56	4.58	4.56	4.58	4.58	4.56	4.59	4.62	4.62	4.58	4.55	4.58	4.59	4.61	4.59	4.57	4.57	
Performance ηs	%	175	177	179	179	180	179	179	180	180	180	180	180	179	180	182	182	180	179	180	180	182	180	180	180	
Heat Exchanger in Cooling ¹¹																										
Water Flow	User Side	l/s	14.83	17.14	19.62	21.53	24.47	26.66	29.74	34.10	36.84	39.63	43.12	45.90	49.60	52.51	54.08	58.46	60.10	61.40	66.26	69.40	75.22	78.65	81.99	84.78
Pressure Drop ¹²	User Side	kPa	25.7	34.3	38.5	46.4	36.6	43.5	43.2	45.2	52.8	43.5	45.5	51.6	46.6	52.2	55.3	60.7	48.2	50.3	58.6	48.7	57.2	44.1	47.9	55
Electrical Data																										
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	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	400/3/50	400/3/50	400/3/50
F.L.A. ¹⁴	Total	A	228	261	293	293	353	412	459	467	519	571	622	673	717	761	768	842	916	924	1009	1097	1137	1137	1137	
Exchangers																										
Minimum Water Flow	Evaporator	l/s	10.56	10.56	13.33	13.33	12.50	15.83	17.50	17.50	19.17	19.17	19.17	25.00	25.00	25.00	25.00	31.11	31.11	31.11	41.67	41.67	41.67	41.67	41.67	
Minimum Water Content	Plant	l	1100	1200	1400	1600	1800	2000	2300	2500	2700	3000	3300	3500	3700	3800	4000	4300	4400	4700	4900	5300	5600	5800	6200	6400
Fans																										
Quantity	No.	4	5	6	6	7	8	8	10	10	10	10	11	12	13	14	16	16	16	16	18	18	20	20	20	20
Airflow	m ³ /s	19.21	24.01	28.81	28.81	33.61	38.41	38.41	48.02	48.02	48.02	52.82	57.62	62.42	67.22	76.83	76.83	76.83	76.83	86.43	86.43	96.03	96.03	96.03	96.03	
Refrigerant Circuit																										
Compressors	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
Circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
Refrigerant		R513A																								
Theoretical Refrigerant Charge ¹⁵	kg	57	66	76	81	93	103	113	131	140	150	163	173	187	199	207	222	228	232	251	263	285	297	308	318	
Noise Levels																										
Total Sound Pressure ¹⁶	dB(A)	55	55	56	56	57	57	57	57	58	58	59	59	60	60	61	61	61	61	61	61	61	61	61	61	62
Total Sound Power Level in Cooling ¹⁷	dB(A)	87	87	88	88	89	89	89	90	91	91	92	92	93	93	94	94	94	94	94	94	94	94	94	94	95
Size and Weight ¹⁸																										
Width (A)	mm	2750	4000	4000	4000	5250	5250	5250	6500	6500	6500	7750	7750	9000	9000	10250	10250	10400	10400	11650	11650	12900	12900	12900	12900	
Depth (B)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height (H)	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
Operation Weight	kg	3380	3830	3960	4000	5270	5680	5720	6600	7090	7590	8100	8270	8920	9060	9640	9710	10060	10150	10720	12980	13560	13560	13650	13670	

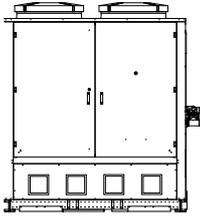
■ Eurovent Certified Data

Notes: 1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C. 2. Values in compliance with EN14511. 3. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 4. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook. 5. Theoretical - refer to serial plate for actual charge volumes. 6. Average sound pressure level at 10m 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 measurement taken in compliance with ISO 9614. Sound power level in cooling, outdoors. 8. Unit in standard configuration, without option accessories.

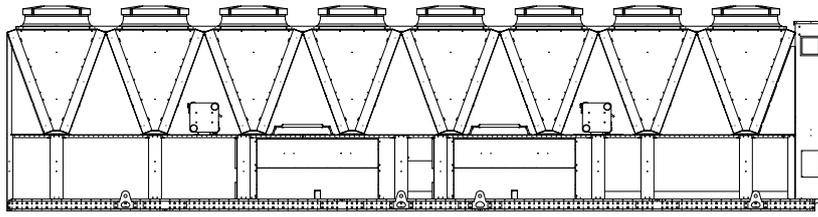
FX2-G05 /K DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

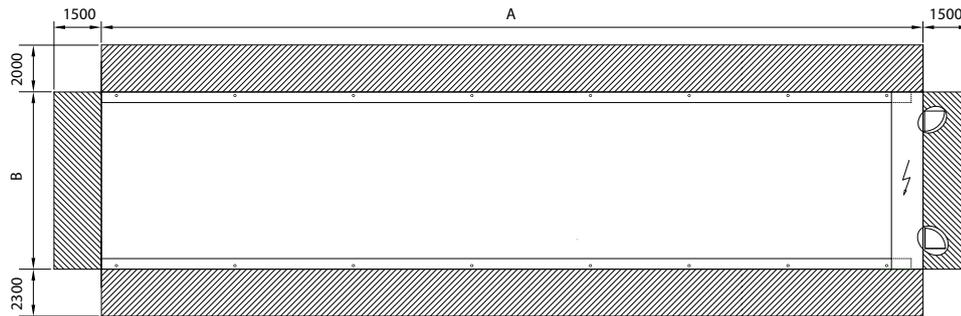
FRONT VIEW



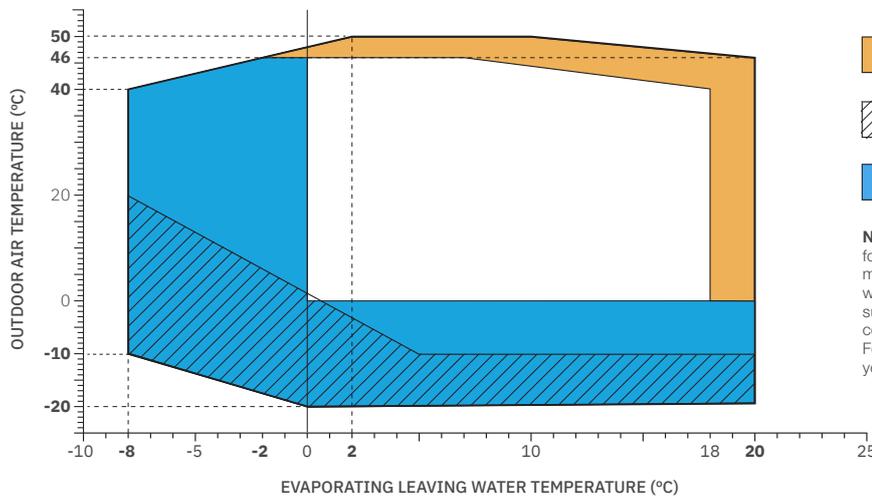
SIDE VIEW



TOP VIEW



FX2-G05 /K OPERATING ENVELOPES

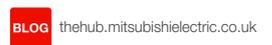


- Low noise version (-SL) not at full load. High temperature kit may be required
- EC Fans required
- Antifreeze and/or negative fluid temperature option(s) required

Note: Operating envelopes shown are indicative and should not be used only for design. Equipment to be used in low or negative ambient temperatures must be fitted with the low ambient options available. Equipment operating with low or negative evaporating leaving water temperature should use suitable type and concentration of glycol or similar. Additional installation considerations may be required at the limits of the operating envelope. For specific recommendations and limits of each model, please contact your local sales representative.



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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of December 2025

