

# FX2-G04 /A

## Compact Air Cooled Chiller with Screw Compressors

The new generation of customisable screw compressor chillers has arrived with our Climaveneta branded **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-G04 /A** is designed to strike the best balance between footprint and efficiency. This second generation is more compact than the first generation making it ideal for refurbishment projects. Larger cooling capacities are achieved by utilising the low GWP refrigerant R1234ze.

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.

### Key Features & Benefits:

- High efficiency screw compressors using ultra-low GWP refrigerant
- Wide operating envelope for comfort and process applications
- EC Fans available as an option
- 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
- Inbuilt refrigerant leak detection

# R1234ze




FX2-G04 /A		0252	0302	0322	0352	0402	0452	0512	0572	0652	0772	0902	0972	1053	1152	1243	1373	1503	1593	
<b>Performance - Cooling Only</b>																				
<b>Gross Value <sup>11</sup></b>																				
Total Cooling Capacity	kW	255.3	289.9	315.1	365.0	405.4	445.9	519.7	573.4	679.0	781.7	903.5	967.9	1058	1145	1239	1362	1488	1561	
Total Power Input	kW	76.0	87.3	94.4	106.7	121.7	135.2	156.8	172.2	204.8	235.6	276.0	287.2	319.7	343.6	373.1	415.8	446.3	473.4	
EER	kW/kW	3.35	3.32	3.33	3.42	3.33	3.29	3.31	3.33	3.31	3.31	3.27	3.37	3.30	3.33	3.32	3.27	3.33	3.29	
<b>EN14511 Values <sup>11 12</sup></b>																				
Total Cooling Capacity	kW	255.0	289.5	314.7	364.7	405.0	445.4	519.2	572.9	678.4	781.0	902.9	967.1	1057	1145	1238	1361	1487	1560	
EER	kW/kW	3.32	3.28	3.31	3.39	3.29	3.25	3.28	3.29	3.27	3.27	3.24	3.33	3.27	3.29	3.28	3.24	3.29	3.25	
<b>Seasonal Performance <sup>13</sup></b>																				
Prated,c	kW	255.0	289.5	314.7	364.7	405.0	445.4	519.2	572.9	678.4	781.0	902.9	967.1	1057	1145	1238	1361	1487	1560	
SEER		4.55	4.52	4.61	4.54	4.56	4.61	4.56	4.61	4.60	4.63	4.61	4.64	4.65	4.69	4.63	4.58	4.67	4.69	
Performance ηs	%	179	178	181	178	179	181	179	182	181	182	181	183	183	185	182	180	184	185	
<b>Heat Exchanger in Cooling <sup>11</sup></b>																				
Water Flow	User Side	l/s	12.21	13.86	15.07	17.46	19.39	21.32	24.85	27.42	32.47	37.38	43.21	46.28	50.57	54.77	59.24	65.14	71.14	74.65
Pressure Drop <sup>12</sup>	User Side	kPa	38.1	36.3	23.9	32.1	39.7	48.0	34.3	41.8	51.5	54.3	35.3	52.5	48.4	53.3	46.9	46.2	55.1	60.7
<b>Electrical Data</b>																				
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	
F.L.A. <sup>14</sup>	Total	A	185	215	226	248	286	323	371	393	444	548	609	648	731	768	853	914	964	1024
<b>Exchangers</b>																				
Minimum Water Flow	Evaporator	l/s	7.22	8.33	9.17	9.17	9.17	15.83	15.83	15.83	17.50	25.00	19.17	25.00	25.00	31.11	41.67	41.67	41.67	
Minimum Water Content	Plant	l	900	1000	1100	1300	1400	1600	1800	2000	2400	2700	3200	3400	3700	4000	4300	4800	5200	5500
<b>Fans</b>																				
Quantity	No.	5	5	5	6	6	7	8	8	10	12	12	14	16	16	18	18	19	20	
Airflow	m <sup>3</sup> /s	26.58	26.58	26.58	31.90	31.90	37.22	42.53	42.53	53.17	63.80	63.80	74.43	85.07	85.07	95.70	95.70	101.0	106.3	
<b>Refrigerant Circuit</b>																				
Compressors	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
Circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
Refrigerant		R1234ze																		
Theoretical Refrigerant Charge <sup>15</sup>	kg	51	55	59	67	72	81	93	98	123	142	152	160	191	195	216	222	232	248	
<b>Noise Levels</b>																				
Total Sound Pressure <sup>16</sup>	dB(A)	66	67	67	68	68	68	68	70	69	70	71	71	73	73	73	73	73	73	
Total Sound Power Level in Cooling <sup>17</sup>	dB(A)	98	99	99	100	100	100	100	102	102	103	104	104	106	106	106	106	106	106	
<b>Size and Weight <sup>18</sup></b>																				
Width (A)	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750	7750	9000	10400	10400	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	
Height (H)	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	
Operation Weight	kg	3540	3560	3660	3810	4470	4990	5190	5250	6710	7650	7900	8340	9370	9440	11380	12070	12680	12930	

 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-G04 /SL-A		0252	0302	0322	0352	0402	0452	0512	0572	0652	0772	0902	0972	1053	1152	1243	1373	1503	1593	
<b>Performance - Cooling Only</b>																				
<b>Gross Value <sup>11</sup></b>																				
Total Cooling Capacity	kW	252.3	286.2	310.7	362.2	399.4	445.7	512.4	567.7	669.5	771.7	893.3	959.0	1044.0	1133.0	1222.0	1352.0	1482.0	1572.0	
Total Power Input	kW	74.7	86.4	93.8	106.2	121.3	132.5	156.1	173.0	203.9	234.8	265.2	287.9	318.4	344.3	372.8	411.5	442.8	479.8	
EER	kW/kW	3.378	3.312	3.312	3.411	3.293	3.364	3.283	3.282	3.283	3.287	3.368	3.331	3.279	3.291	3.278	3.286	3.347	3.276	
<b>EN14511 Values <sup>11 12</sup></b>																				
Total Cooling Capacity	kW	252.0	285.9	310.4	361.8	399.0	445.2	512.0	567.2	668.9	771.1	892.6	958.2	1043.0	1133.0	1221.0	1351.0	1481.0	1572.0	
EER	kW/kW	3.34	3.27	3.28	3.38	3.26	3.32	3.25	3.24	3.24	3.24	3.33	3.29	3.24	3.25	3.24	3.25	3.30	3.25	
<b>Seasonal Performance <sup>13</sup></b>																				
Prated,c	kW	252.0	285.9	310.4	361.8	399.0	445.2	512.0	567.2	668.9	771.1	892.6	958.2	1043.0	1133.0	1221.0	1351.0	1481.0	1572.0	
SEER		4.57	4.53	4.61	4.56	4.56	4.65	4.56	4.62	4.59	4.63	4.62	4.64	4.65	4.70	4.63	4.60	4.72	4.74	
Performance ηs	%	180	178	181	179	179	183	179	182	181	182	182	183	183	185	182	181	186	186	
<b>Heat Exchanger in Cooling <sup>11</sup></b>																				
Water Flow	User Side	l/s	12.07	13.69	14.86	17.32	19.10	21.31	24.50	27.15	32.02	36.91	42.72	45.86	49.92	54.20	58.44	64.65	70.87	75.20
Pressure Drop <sup>12</sup>	User Side	kPa	37.2	35.4	23.3	31.6	38.5	47.9	33.4	41	50.1	53	44.7	51.5	47.2	52.2	45.6	45.5	54.7	35.9
<b>Electrical Data</b>																				
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
F.L.A. <sup>14</sup>	Total	A	185	215	226	248	286	327	371	393	444	548	617	648	731	768	853	917	967	1024
<b>Exchangers</b>																				
Minimum Water Flow	Evaporator	l/s	7.22	8.33	9.17	9.17	9.17	9.17	15.83	15.83	15.83	17.50	19.17	19.17	25.00	25.00	31.11	41.67	41.67	50.00
Minimum Water Content	Plant	l	900	1000	1100	1300	1400	1600	1800	2000	2400	2700	3200	3400	3700	4000	4300	4800	5200	5500
<b>Fans</b>																				
Quantity	No.	5	5	5	6	6	8	8	8	10	12	14	14	16	16	18	19	20	20	
Airflow	m <sup>3</sup> /s	24.01	24.01	24.01	28.81	28.81	38.41	38.41	38.41	48.02	57.62	67.22	67.22	76.83	76.83	86.43	91.23	96.03	96.03	
<b>Refrigerant Circuit</b>																				
Compressors	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
Circuits	No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
Refrigerant		R1234ze																		
Theoretical Refrigerant Charge <sup>15</sup>	kg	51	55	59	67	72	85	93	98	123	142	155	160	191	195	216	233	243	253	
<b>Noise Levels</b>																				
Total Sound Pressure <sup>16</sup>	dB(A)	55	55	55	56	57	57	57	58	58	59	60	61	61	61	61	61	61	62	62
Total Sound Power Level in Cooling <sup>17</sup>	dB(A)	87	87	87	88	89	89	89	91	91	92	93	94	94	94	94	94	95	95	
<b>Size and Weight <sup>18</sup></b>																				
Width (A)	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750	9000	9000	10400	10400	11650	12900	12900	12900	
Depth (B)	mm	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	
Operation Weight	kg	3810	3830	3930	4080	4930	5620	5720	5780	7320	8270	8910	8980	10010	10080	1200	13620	13740	13880	

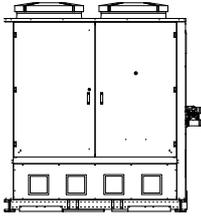
 Eurovent Certified Data

**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.

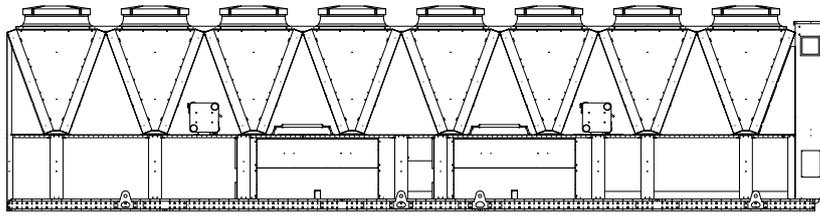
**FX2-G04 /A DIMENSIONS AND CLEARANCES**

All dimensions are in millimetres.

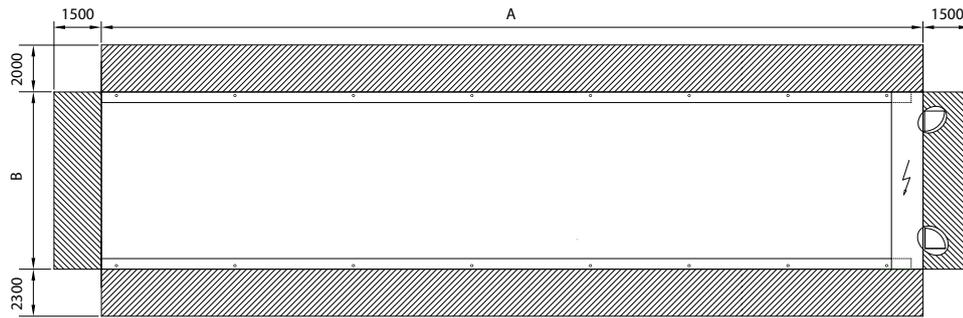
FRONT VIEW



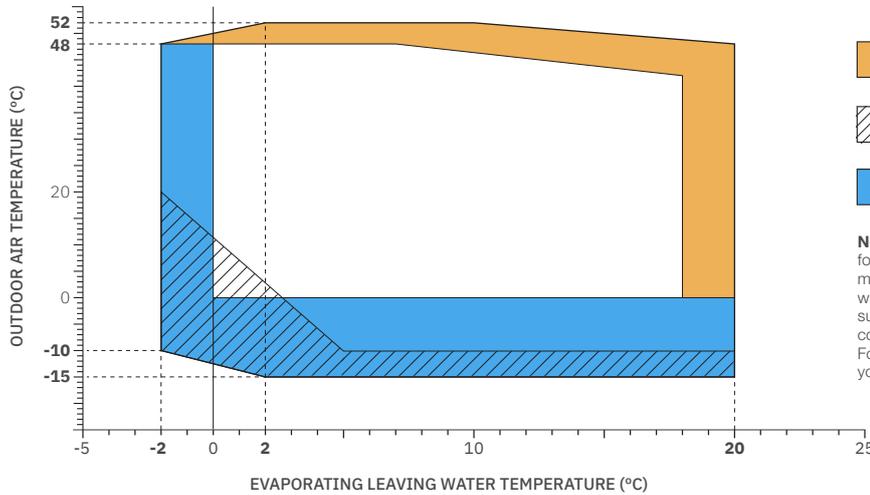
SIDE VIEW



TOP VIEW



**FX2-G04 /A OPERATING ENVELOPES**

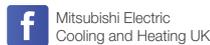


- Low noise version (-SL) not at full load. High temperature kit may be required
- EC Fans required
- Antifreeze and/or negative fluid temperature option(s) required

**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

