

# FX2 R513A Air Cooled Chillers

## Outdoor Installation (310 to 1839kW)

Our Climaveneta range of FX2 units are air cooled chillers with screw compressors, designed for delivering high efficiencies in comfort applications.

Available with lower GWP R513A refrigerant, the new range features 2 or 3 compressors in multi-circuit configuration.

### Key Features & Benefits:

- Compact design
- Low noise
- Energy efficient
- Available with lower GWP R513A refrigerant

 **CLIMAVENETA**  
SUSTAINABLE COMFORT



FX2 Air Cooled Chillers with R513A refrigerant  
(from 322 to 1839kW)



MODEL		0322	0352	0402	0472	0512	0572	0652	0702
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	322.1	350.2	411.9	464.4	516.7	573.4	645.8	707.6
TOTAL POWER INPUT <sup>1</sup>	kW	102.4	119.2	133.1	146.1	172.5	188.6	207.4	239.2
EER <sup>1</sup>	kW/kW	3.146	2.938	3.095	3.179	2.995	3.040	3.114	2.958
ESEER <sup>1</sup>	kW/kW	4.430	4.440	4.510	4.500	4.440	4.460	4.470	4.480
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	321.8	349.8	411.5	463.9	516.2	572.9	645.2	707.0
EER <sup>1,2</sup>	kW/kW	3.120	2.910	3.060	3.140	2.970	3.010	3.080	2.930
ESEER <sup>1,2</sup>	kW/kW	4.300	4.300	4.350	4.310	4.290	4.280	4.300	4.320
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	322	350	412	464	516	573	645	707
SEER <sup>7,8</sup>		4.51	4.50	4.56	4.58	4.56	4.56	4.58	4.57
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	177	177	179	180	179	179	180	180
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	15.40	16.75	19.70	22.21	24.71	27.42	30.88	33.84
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	27.7	32.7	38.8	49.4	37.3	46.0	46.6	44.5
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	57.0	60.0	71.0	81.0	88.0	98.0	113	120
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	67	67	67	68	68	68	68	70
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	99	99	99	100	100	100	100	102
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	2750	2750	4000	4000	4000	5250	5250	5250
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3120	2950	3600	3730	4570	5060	5190	5550

MODEL		0772	0852	0902	1002	1052	1102	1152	1222
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	779.8	862.9	937.3	996.0	1056	1098	1139	1232
TOTAL POWER INPUT <sup>1</sup>	kW	254.6	272.4	295.1	315.5	343.2	369.3	354.3	396.3
EER <sup>1</sup>	kW/kW	3.063	3.168	3.176	3.157	3.077	2.973	3.215	3.109
ESEER <sup>1</sup>	kW/kW	4.470	4.450	4.450	4.460	4.460	4.470	4.460	4.490
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	779.1	862.3	936.6	995.2	1055	1097	1138	1231
EER <sup>1,2</sup>	kW/kW	3.020	3.130	3.140	3.120	3.040	2.940	3.170	3.070
ESEER <sup>1,2</sup>	kW/kW	4.270	4.290	4.280	4.270	4.290	4.300	4.280	4.290
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	779	862	937	995	1055	1097	1138	1231
SEER <sup>7,8</sup>		4.57	4.58	4.59	4.59	4.56	2.940	4.58	4.60
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	180	180	180	181	180	4.300	180	181
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	37.29	41.27	44.82	47.63	50.51	52.49	54.45	58.92
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	54.1	47.2	49.2	55.6	48.3	52.1	56.1	61.6
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	133	150	163	173	179	104	195	210
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	69	69	70	70	71	71	71	71
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	102	102	103	103	104	104	104	104
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	6500	6500	7750	7750	7750	7750	9000	9000
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	6400	6980	7460	7620	7870	7900	8430	8500

■ Eurovent Certified Data

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. 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.  
 4. Sound power on the basis of measurements taken in compliance with ISO 9614.  
 5. Sound power level in cooling, outdoors.

6. Unit in standard configuration, without optional accessories.  
 7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].  
 8. Seasonal energy efficiency ratio.  
 9. Seasonal space cooling energy efficiency.

FX2 Air Cooled Chillers with R513A refrigerant  
(from 322 to 1839kW)



MODEL		1262	1322	1402	1503	1593	1663	1773	1883
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	1264	1332	1400	1506	1592	1664	1778	1839
TOTAL POWER INPUT <sup>1</sup>	kW	423.2	433.9	474.8	475.0	523.1	556.9	580.4	605.3
EER <sup>1</sup>	kW/kW	2.987	3.070	2.949	3.171	3.043	2.988	3.063	3.038
ESEER <sup>1</sup>	kW/kW	4.470	4.460	4.490	4.430	4.450	4.440	4.440	4.470
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	1264	1331	1399	1505	1591	1663	1777	1838
EER <sup>1,2</sup>	kW/kW	2.960	3.030	2.910	3.130	3.010	2.960	3.030	3.000
ESEER <sup>1,2</sup>	kW/kW	4.300	4.280	4.300	4.270	4.270	4.290	4.280	4.290
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	1264	1331	1399	1505	1591	1663	1777	1838
SEER <sup>7,8</sup>		4.56	4.57	4.58	4.59	4.59	4.58	4.60	4.63
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	179	180	180	181	181	180	181	182
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	60.46	63.71	66.96	72.03	76.12	79.55	85.04	87.92
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	48.8	54.2	59.9	52.5	58.6	45.1	51.6	59.1
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	3	3	3	3	3
CIRCUITS	No.	2	2	2	3	3	3	3	3
REFRIGERANT CHARGE	kg	214	232	238	263	271	281	303	318
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	72	73	73	73	73	73	73	73
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	105	106	106	106	106	106	106	106
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	9150	10400	10400	11650	11650	11650	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	8860	9470	9610	12050	12110	12120	12710	12720

Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- 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.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.

FX2 Air Cooled Chillers with R513A refrigerant  
Low Noise Version (310 to 1773kW)



MODEL		0322	0352	0402	0472	0512	0572	0652	0702
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	310.2	358.4	410.2	450.1	511.7	557.4	621.9	713.0
TOTAL POWER INPUT <sup>1</sup>	kW	103.1	115.1	128.2	148.9	164.4	177.9	211.2	226.9
EER <sup>1</sup>	kW/kW	3.009	3.114	3.200	3.023	3.113	3.133	2.945	3.142
ESEER <sup>1</sup>	kW/kW	4.400	4.440	4.480	4.490	4.470	4.480	4.470	4.450
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	309.8	358.0	409.8	449.7	511.2	556.9	621.3	712.4
EER <sup>1,2</sup>	kW/kW	2.980	3.080	3.160	2.990	3.080	3.100	2.910	3.110
ESEER <sup>1,2</sup>	kW/kW	4.270	4.280	4.320	4.310	4.320	4.310	4.300	4.290
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	310	358	410	450	511	557	621	712
SEER <sup>7,8</sup>		4.46	4.50	4.56	4.55	4.57	4.55	4.55	4.56
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	175	177	179	179	180	179	179	180
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	14.83	17.14	19.62	21.53	24.47	26.66	29.74	34.10
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	25.7	34.3	38.5	46.4	36.6	43.5	43.2	45.2
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	57.0	66.0	76.0	81.0	93.0	103	113	131
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	55	55	56	56	57	57	57	57
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	87	87	88	88	89	89	89	90
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	2750	4000	4000	4000	5250	5250	5250	6500
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3380	3830	3960	4000	5270	5680	5720	6600

MODEL		0772	0852	0902	1002	1052	1102	1152	1222
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	770.4	828.6	901.6	959.9	1037	1098	1131	1222
TOTAL POWER INPUT <sup>1</sup>	kW	251.5	276.9	300.1	321.0	341.7	359.9	347.4	388.0
EER <sup>1</sup>	kW/kW	3.063	2.992	3.004	2.990	3.035	3.051	3.256	3.149
ESEER <sup>1</sup>	kW/kW	4.470	4.440	4.460	4.470	4.450	4.480	4.480	4.480
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	769.7	828.0	901.0	959.1	1037	1097	1130	1222
EER <sup>1,2</sup>	kW/kW	3.020	2.960	2.970	2.960	3.000	3.020	3.210	3.110
ESEER <sup>1,2</sup>	kW/kW	4.280	4.280	4.300	4.300	4.290	4.300	4.290	4.290
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	770	828	901	959	1037	1097	1130	1222
SEER <sup>7,8</sup>		4.58	4.56	4.58	4.58	4.56	4.59	4.62	4.62
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	180	180	180	180	179	180	182	182
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	36.84	39.63	43.12	45.90	49.60	52.51	54.06	58.46
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	52.8	43.5	45.5	51.6	46.6	52.2	55.3	60.7
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	140	150	163	173	187	199	207	222
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	58	58	59	59	60	60	61	61
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	91	91	92	92	93	93	94	94
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	6500	6500	7750	7750	9000	9000	10250	10250
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	7090	7590	8100	8270	8920	9060	9640	9710

Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- 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.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.

**FX2** Air Cooled Chillers with R513A refrigerant  
Low Noise Version (310 to 1773kW)



MODEL		1262	1322	1402	1503	1593	1663	1773	1883
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	1257	1284	1386	1451	1573	1645	1714	1773
TOTAL POWER INPUT <sup>1</sup>	kW	415.0	441.0	467.8	483.3	519.5	550.6	593.8	620.9
EER <sup>1</sup>	kW/kW	3.029	2.912	2.963	3.002	3.028	2.988	2.886	2.856
ESEER <sup>1</sup>	kW/kW	4.450	4.470	4.480	4.450	4.470	4.440	4.440	4.450
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	1256	1283	1385	1451	1572	1644	1714	1772
EER <sup>1,2</sup>	kW/kW	3.000	2.880	2.930	2.970	2.990	2.960	2.860	2.820
ESEER <sup>1,2</sup>	kW/kW	4.290	4.310	4.290	4.290	4.290	4.300	4.280	4.280
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	1256	1283	1385	1451	1572	1644	1714	1772
SEER <sup>7,8</sup>		4.58	4.55	4.58	4.59	4.61	4.59	4.57	4.57
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	180	179	180	180	182	180	180	180
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	60.10	61.40	66.26	69.40	75.22	78.65	81.99	84.78
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	48.2	50.3	58.6	48.7	57.2	44.1	47.9	55.0
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	3	3	3	3	3
CIRCUITS	No.	2	2	2	3	3	3	3	3
REFRIGERANT CHARGE	kg	228	232	251	263	285	297	308	318
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	61	61	61	61	61	61	61	62
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	94	94	94	94	94	94	94	95
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	10400	10400	11650	11650	12900	12900	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	10060	10150	10720	12980	13560	13560	13650	13670

Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- 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.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.

FX2 Air Cooled Chillers with R513A refrigerant  
High Efficiency Version (340 to 1372kW)



MODEL		0352	0402	0452	0472	0572	0602	0652	0702	0772
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	340.3	389.8	444.9	485.0	570.3	619.0	658.9	698.5	756.1
TOTAL POWER INPUT <sup>1</sup>	kW	98.73	113.1	128.5	142.9	163.3	178.3	189.4	200.5	222.8
EER <sup>1</sup>	kW/kW	3.448	3.447	3.462	3.394	3.492	3.472	3.479	3.484	3.394
ESEER <sup>1</sup>	kW/kW	4.610	4.630	4.520	4.620	4.610	4.610	4.620	4.640	4.620
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>1,2</sup>	kW	339.9	389.4	444.5	484.6	569.8	618.5	658.4	697.9	755.5
EER <sup>1,2</sup>	kW/kW	3.410	3.410	3.430	3.360	3.450	3.440	3.440	3.440	3.360
ESEER <sup>1,2</sup>	kW/kW	4.470	4.470	4.490	4.490	4.440	4.470	4.470	4.470	4.470
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	340	389	444	485	570	618	658	689	756
SEER <sup>7,8</sup>		4.63	4.64	4.69	4.66	4.72	4.64	4.66	4.73	4.71
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	182	182	185	183	186	183	183	186	185
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	16.27	18.64	21.27	23.20	27.27	29.60	31.51	33.40	36.16
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	26.5	34.8	27.7	32.9	41.4	34.1	38.6	43.4	36.3
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	65.0	76.0	86.0	94.0	109	117	126	134	143
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	66	67	67	67	67	67	68	68	68
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	98	99	99	99	99	100	101	101	101
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3660	4270	4390	4440	5660	5960	6420	6550	6640

MODEL		0852	0902	1002	1052	1152	1222	1322	1402
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	844.7	918.1	1001	1061	1133	1207	1311	1372
TOTAL POWER INPUT <sup>1</sup>	kW	246.7	267.5	289.5	310.9	331.5	352.4	390.1	409.2
EER <sup>1</sup>	kW/kW	3.424	3.432	3.458	3.413	3.418	3.425	3.361	3.353
ESEER <sup>1</sup>	kW/kW	4.610	4.630	4.680	4.630	4.650	4.650	4.580	4.610
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	844.1	917.4	1000	1060	1132	1206	1310	1371
EER <sup>1,2</sup>	kW/kW	3.390	3.390	3.410	3.370	3.370	3.380	3.330	3.320
ESEER <sup>1,2</sup>	kW/kW	4.450	4.450	4.450	4.450	4.470	4.440	4.440	4.450
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	844	917	1000	1060	1132	1206	1310	1371
SEER <sup>7,8</sup>		4.71	4.74	4.79	4.72	4.74	4.74	4.66	4.69
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	185	187	188	186	187	187	183	185
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	40.40	43.90	47.88	50.72	54.17	57.73	62.68	65.62
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	40.0	47.2	61.2	48.7	53.2	59.2	39.7	43.5
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	160	173	188	200	213	227	244	258
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	68	69	69	70	70	70	70	71
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	101	102	102	103	103	103	103	104
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	9000	9000	10250	10250	11650	11650	11650	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	7530	8060	8570	8920	9430	9550	10490	11150

■ Eurovent Certified Data

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511.
- 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.
- Sound power on the basis of measurements taken in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

- Unit in standard configuration, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281].
- Seasonal energy efficiency ratio.
- Seasonal space cooling energy efficiency.

FX2 Air Cooled Chillers with R513A refrigerant  
High Efficiency & Low Noise Version (from 336 to 1355kW)



MODEL		0352	0402	0452	0472	0572	0602	0652	0702	0772
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
COOLING CAPACITY <sup>1</sup>	kW	336.3	386.0	439.6	480.9	563.4	610.9	650.6	690.1	748.9
TOTAL POWER INPUT <sup>1</sup>	kW	97.46	110.7	126.7	142.1	161.2	176.8	187.4	198.1	221.9
EER <sup>1</sup>	kW/kW	3.449	3.487	3.470	3.384	3.495	3.455	3.472	3.484	3.375
ESEER <sup>1</sup>	kW/kW	4.640	4.650	4.630	4.630	4.630	4.630	4.640	4.670	4.650
<b>COOLING ONLY (EN14511 VALUE)</b>										
COOLING CAPACITY <sup>1,2</sup>	kW	335.9	385.6	439.3	480.5	562.9	610.4	650.1	689.5	748.3
EER <sup>1,2</sup>	kW/kW	3.420	3.450	3.440	3.350	3.450	3.420	3.430	3.440	3.340
ESEER <sup>1,2</sup>	kW/kW	4.500	4.490	4.500	4.490	4.460	4.500	4.490	4.500	4.500
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>AMBIENT REFRIGERATION</b>										
P <sub>RATED,C</sub> <sup>7</sup>	kW	336	386	439	480	563	610	650	690	748
SEER <sup>7,8</sup>		4.65	4.66	4.68	4.65	4.73	4.65	4.67	4.75	4.71
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	183	183	184	183	186	183	184	187	186
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
WATER FLOW <sup>1</sup>	l/s	16.08	18.46	21.02	23.00	26.94	29.21	31.11	33.00	35.81
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	25.9	34.1	27.0	32.3	40.4	33.2	37.6	42.3	35.6
<b>REFRIGERANT CIRCUIT</b>										
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	65.0	76.0	86.0	94.0	109	117	126	134	143
<b>NOISE LEVEL</b>										
SOUND PRESSURE <sup>3</sup>	dB(A)	56	57	57	57	57	58	58	59	59
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	88	89	89	89	90	91	91	92	92
<b>SIZE AND WEIGHT</b>										
WIDTH (A) <sup>6</sup>	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	3930	4540	4660	4720	6200	6500	6960	7100	7190

MODEL		0852	0902	1002	1052	1152	1222	1322	1402
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
COOLING CAPACITY <sup>1</sup>	kW	834.3	905.0	987.3	1046	1118	1191	1295	1355
TOTAL POWER INPUT <sup>1</sup>	kW	245.3	265.5	287.7	309.2	329.8	350.7	390.7	408.0
EER <sup>1</sup>	kW/kW	3.401	3.409	3.432	3.383	3.390	3.396	3.315	3.321
ESEER <sup>1</sup>	kW/kW	4.620	4.630	4.680	4.640	4.670	4.660	4.590	4.620
<b>COOLING ONLY (EN14511 VALUE)</b>									
COOLING CAPACITY <sup>1,2</sup>	kW	833.7	904.3	986.6	1046	1117	1190	1294	1354
EER <sup>1,2</sup>	kW/kW	3.370	3.370	3.380	3.340	3.350	3.350	3.280	3.290
ESEER <sup>1,2</sup>	kW/kW	4.470	4.460	4.470	4.460	4.480	4.460	4.460	4.460
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>AMBIENT REFRIGERATION</b>									
P <sub>RATED,C</sub> <sup>7</sup>	kW	834	904	987	1046	1117	1190	1294	1354
SEER <sup>7,8</sup>		4.71	4.74	4.79	4.72	4.74	4.74	4.65	4.69
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	186	187	189	186	187	187	183	185
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
WATER FLOW <sup>1</sup>	l/s	39.90	43.28	47.22	50.04	53.45	56.95	61.94	64.80
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	39.0	45.9	59.5	47.4	51.8	57.6	38.8	42.4
<b>REFRIGERANT CIRCUIT</b>									
COMPRESSORS NR.	No.	2	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	160	173	188	200	213	227	244	258
<b>NOISE LEVEL</b>									
SOUND PRESSURE <sup>3</sup>	dB(A)	59	59	59	60	60	60	60	62
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	92	92	92	93	93	93	93	95
<b>SIZE AND WEIGHT</b>									
WIDTH (A) <sup>6</sup>	mm	9000	9000	10250	10250	11650	11650	11650	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2640	2640	2640	2640	2640	2640	2640	2640
OPERATING WEIGHT <sup>6</sup>	kg	8120	8690	9210	9560	10080	10200	11140	11810

■ Eurovent Certified Data

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. 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.  
 4. Sound power on the basis of measurements taken in compliance with ISO 9614.  
 5. Sound power level in cooling, outdoors.

6. Unit in standard configuration, without optional accessories.  
 7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].  
 8. Seasonal energy efficiency ratio.  
 9. Seasonal space cooling energy efficiency.



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**Note:** The fuse rating is for guidance only. 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), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of March 2021



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