

# i-FX HFO1234ze Air Cooled Chillers

## Outdoor Installation (377.2 to 1463kW)

Our Climaveneta range of i-FX units are air cooled chillers with inverter screw compressors and HFO green refrigerant, designed for delivering high efficiencies in comfort applications.

Available with HFO1234ze refrigerant, the new i-FX chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.



### Key Features & Benefits:

- Total Inverter Technology
- Multiple Heat Recovery Configurations
- ErP2021 compliant
- Low noise
- Energy efficient
- Available with HFO1234ze refrigerant



i-FX Air Cooled Chillers with HFO1234ze refrigerant  
High Efficiency Version (from 382.7 to 1463kW)



MODEL		2202	2602	2702	2722	3602	4202	4802
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
COOLING CAPACITY <sup>1</sup>	kW	382.7	417.9	486.9	534.8	642.0	725.9	843.1
TOTAL POWER INPUT <sup>1</sup>	kW	117.7	130.2	147.7	168.4	211.1	237.1	281.3
EER <sup>1</sup>	kW/kW	3.251	3.210	3.297	3.176	3.041	3.062	2.997
<b>COOLING ONLY (EN14511 VALUE)</b>								
COOLING CAPACITY <sup>1,2</sup>	kW	381.5	416.4	485.7	533.2	639.7	723.4	841.1
EER <sup>1,2</sup>	kW/kW	3.210	3.160	3.260	3.140	3.000	3.020	2.970
COOLING ENERGY CLASS		A	A	A	A	B	B	B
<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	382	416	486	533	640	723	841
SEER <sup>7,8</sup>		5.18	5.26	5.26	5.18	5.09	5.18	5.09
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	204	207	207	204	201	204	201
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
WATER FLOW <sup>1</sup>	l/s	18.30	19.98	23.29	25.58	30.70	34.71	40.32
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	35.3	42.1	30.1	36.4	46.1	46.8	30.8
<b>REFRIGERANT CIRCUIT</b>								
COMPRESSORS NR.	No.	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	63.0	70.0	81.0	86.0	108	124	134
<b>NOISE LEVEL</b>								
SOUND PRESSURE <sup>3</sup>	dB(A)	67	68	68	69	68	70	72
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	99	100	100	101	101	103	105
<b>SIZE AND WEIGHT</b>								
WIDTH (A) <sup>6</sup>	mm	4150	5400	5400	5400	6650	7900	7900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT <sup>6</sup>	kg	4780	5220	5360	5430	6060	6820	7810

MODEL		4822	6002	6022	6603	7203	7223	7283
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
COOLING CAPACITY <sup>1</sup>	kW	915.7	994.1	1038	1146	1280	1399	1463
TOTAL POWER INPUT <sup>1</sup>	kW	305.7	322.1	340.6	379.0	423.0	471.2	499.3
EER <sup>1</sup>	kW/kW	2.995	3.086	3.048	3.024	3.026	2.969	2.930
<b>COOLING ONLY (EN14511 VALUE)</b>								
COOLING CAPACITY <sup>1,2</sup>	kW	912.6	991.0	1035	1143	1276	1394	1458
EER <sup>1,2</sup>	kW/kW	2.960	3.050	3.010	2.990	2.990	2.930	2.890
COOLING ENERGY CLASS		B	A	A	B	B	B	B
<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	913	991	1035	1143	1276	1394	1458
SEER <sup>7,8</sup>		5.06	5.13	5.09	5.11	5.04	5.04	5.00
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	199	202	200	201	199	199	197
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
WATER FLOW <sup>1</sup>	l/s	43.79	47.52	49.65	54.79	61.21	66.89	69.95
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	47.0	42.8	43.8	40.1	40.8	48.7	53.3
<b>REFRIGERANT CIRCUIT</b>								
COMPRESSORS NR.	No.	2	2	2	3	3	3	3
CIRCUITS	No.	2	2	2	3	3	3	3
REFRIGERANT CHARGE	kg	139	167	171	189	195	203	218
<b>NOISE LEVEL</b>								
SOUND PRESSURE <sup>3</sup>	dB(A)	72	72	72	72	72	73	73
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	105	105	105	105	105	106	106
<b>SIZE AND WEIGHT</b>								
WIDTH (A) <sup>6</sup>	mm	9150	10400	10400	11650	11650	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT <sup>6</sup>	kg	8240	8780	8880	11170	11800	12430	12390

■ 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.

i-FX Air Cooled Chillers with HFO1234ze refrigerant  
High Efficiency & Low Noise Version (from 377.2 to 1458kW)



MODEL		2202	2602	2702	2722	3602	4202	4802
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
COOLING CAPACITY <sup>1</sup>	kW	377.2	421.3	480.7	527.2	633.2	718.2	832.9
TOTAL POWER INPUT <sup>1</sup>	kW	116.8	125.4	145.9	167.1	207.2	234.4	269.9
EER <sup>1</sup>	kW/kW	3.229	3.360	3.295	3.155	3.056	3.064	3.086
<b>COOLING ONLY (EN14511 VALUE)</b>								
COOLING CAPACITY <sup>1,2</sup>	kW	376.1	419.8	479.5	525.7	631.0	715.7	830.5
EER <sup>1,2</sup>	kW/kW	3.190	3.310	3.260	3.120	3.010	3.020	3.050
COOLING ENERGY CLASS		A	A	A	A	B	B	A
<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	376	420	480	526	631	716	830
SEER <sup>7,8</sup>		5.18	5.32	5.26	5.18	5.09	5.19	5.21
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	204	210	207	204	201	205	205
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
WATER FLOW <sup>1</sup>	l/s	18.04	20.15	22.99	25.21	30.28	34.34	39.83
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	34.3	42.8	29.4	35.3	44.8	45.9	38.9
<b>REFRIGERANT CIRCUIT</b>								
COMPRESSORS NR.	No.	2	2	2	2	2	2	2
CIRCUITS	No.	2	2	2	2	2	2	2
REFRIGERANT CHARGE	kg	63.0	73.0	81.0	86.0	108	124	134
<b>NOISE LEVEL</b>								
SOUND PRESSURE <sup>3</sup>	dB(A)	60	61	61	62	61	63	63
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	92	93	93	94	94	96	96
<b>SIZE AND WEIGHT</b>								
WIDTH (A) <sup>6</sup>	mm	4150	5400	5400	5400	6650	7900	9150
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT <sup>6</sup>	kg	5020	5600	5680	5760	6390	7160	8400

MODEL		4822	6002	6022	6603	7203	7223	7823
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
COOLING CAPACITY <sup>1</sup>	kW	902.8	972.2	1024	1141	1262	1391	1458
TOTAL POWER INPUT <sup>1</sup>	kW	303.4	318.4	337.4	376.1	416.2	468.8	499.7
EER <sup>1</sup>	kW/kW	2.976	3.053	3.035	3.034	3.032	2.967	2.918
<b>COOLING ONLY (EN14511 VALUE)</b>								
COOLING CAPACITY <sup>1,2</sup>	kW	899.8	969.3	1021	1138	1258	1386	1455
EER <sup>1,2</sup>	kW/kW	2.940	3.020	3.000	3.000	3.000	2.930	2.890
COOLING ENERGY CLASS		B	A	A	B	B	B	B
<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	900	969	1021	1138	1258	1386	1455
SEER <sup>7,8</sup>		5.06	5.12	5.10	5.12	5.11	5.10	5.01
PERFORMANCE η <sub>s</sub> <sup>7,9</sup>	%	199	202	201	202	201	201	197
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
WATER FLOW <sup>1</sup>	l/s	43.17	46.49	48.96	54.56	60.35	66.50	69.70
PRESSURE DROP AT THE HEAT EXCHANGER	kPa	45.7	40.9	42.6	39.7	39.7	48.1	30.9
<b>REFRIGERANT CIRCUIT</b>								
COMPRESSORS NR.	No.	2	2	2	3	3	3	3
CIRCUITS	No.	2	2	2	3	3	3	3
REFRIGERANT CHARGE	kg	139	167	171	189	204	213	223
<b>NOISE LEVEL</b>								
SOUND PRESSURE <sup>3</sup>	dB(A)	63	63	63	63	63	64	64
SOUND POWER LEVEL IN COOLING <sup>4,5</sup>	dB(A)	96	96	96	96	96	97	97
<b>SIZE AND WEIGHT</b>								
WIDTH (A) <sup>6</sup>	mm	9150	10400	10400	11650	12900	12900	12900
DEPTH (B) <sup>6</sup>	mm	2260	2260	2260	2260	2260	2260	2260
HEIGHT (H) <sup>6</sup>	mm	2500	2500	2500	2500	2500	2500	2500
OPERATING WEIGHT <sup>6</sup>	kg	8550	9090	9180	11620	12660	12950	12890

■ 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

