

COMFORT

CHILLERS

FX-G05

**AIR SOURCE CHILLERS
WITH SCREW
COMPRESSORS,
FROM 140 TO 1710 kW**

R513A



FX-G05

THE ECO-FRIENDLY SOLUTION FOR YOUR PERFECT COMFORT.



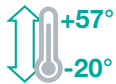
Modern multi-use buildings, shopping centers, business premises and healthcare facilities are just some of the examples where increased comfort, reduced running cost, and the lowest ecological footprint are required at the same time.

The sustainability-driven design of FX-G05 meets the highest efficiency targets required by modern projects, delivering a green approach to any centralized air conditioning system.



COMFORT APPLICATIONS

- ✓ Hotels
- ✓ Shopping centres
- ✓ Office buildings
- ✓ Museums
- ✓ Education centres
- ✓ Sport facilities
- ✓ Banks
- ✓ Institutions



UNYIELDING IN EXTREME CONDITIONS

Designed to ensure complete reliability, FX-G05 can operate in all climates from -20°C to +57°C and, equipped with highly resistant coil coatings, it withstands even the harshest industrial or marine environments.



QUICK & EASY INSTALLATION

The integrated hydronic modules allow for easy and fast installations and the advanced water flow controls make the most of the variable-speed pumps, bringing time-saving commissioning, and significant annual energy cuts.

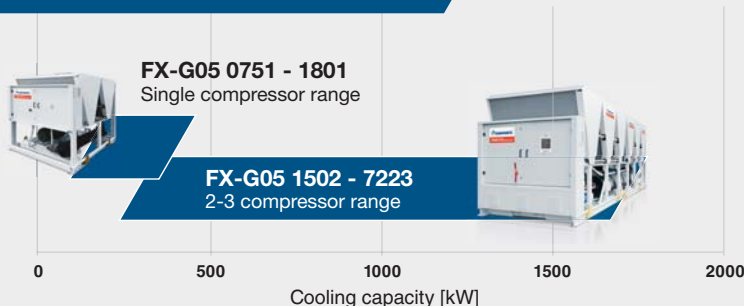


HIGH DEGREE OF CONFIGURABILITY

Thanks to a whole range of configurations and accessories, FX-G05 can be easily integrated into ever increasingly complex building systems.

COMPLETE RANGE OF CHILLERS

Low GWP from 140 to 1710 kW



E	Very high efficiency	EER: 3,16	SEER: 4,32
CA	High efficiency	EER: 3,03	SEER: 4,22
K	Key efficiency	EER: 2,74	SEER: 4,10

Average values (EN14511) of FX-G05 1502-7223

ACOUSTIC VERSIONS

-	Standard	Unit with standard soundproofing equipment.	Baseline
		Unit with compressor acoustical enclosure (Opt. 2301).	-2 dB(A)
		Unit with noise reducer kit (Opt. 2315).	-7 dB(A)
SL	Super low noise	The highest level of noise reduction which cuts noise emissions by 10 to 12 dB(A), without compromising the unit's efficiency.	-12 dB(A)

HEAT RECOVERY CONFIGURATIONS

-	Standard unit	Unit for the production of chilled water.	Baseline
D	Partial heat recovery	A desuperheater on the compressor discharge line recovers approximately 20% of the unit's capacity.	60°C
R	Total heat recovery	A devoted refrigerant water heat exchanger recovers all the condensation heat.	55°C 60°C with HT kit

ALL-ROUND SUSTAINABILITY



FX-G05 is the result of Mitsubishi Electric Hydronics & IT Cooling Systems' extensive approach to sustainability.

Increasing concerns about the global warming impact of chillers and heat pumps is driving new regulatory policies to push towards even more efficient units with the lowest carbon footprint.

Today, an all-round approach is the only way to effectively reduce the Total Equivalent Warming Impact (TEWI).

Fully committed to support the creation of a greener tomorrow, Mitsubishi Electric Hydronics & IT Cooling Systems designed FX-G05, a complete chiller range with reduced environmental impact, optimized for R513A refrigerant.

Combining brilliant annual efficiency with the use of a low GWP refrigerant, FX-G05 tackles both the indirect (due to primary energy consumption) and the direct global warming, thus resulting in the perfect choice for any new, forward-looking cooling system.



LOW GWP

-56% GWP vs R134a



Non-flammable

Safety Class A1

REFRIGERANT BENCHMARK

SCROLL			SCREW		
Refrigerant	GWP*	Flammability**	Refrigerant	GWP*	Flammability**
R410A	2088	NON flammable	R134a	1430	NON flammable
R32	675	MILDLY flammable	R513A	631	NON flammable
R454B	466	MILDLY flammable	R1234ze	7	MILDLY flammable
R452B	698	MILDLY flammable	R1234yf	4	MILDLY flammable

*IPCC AR4 **ASHRAE 34 - ISO 817

New regulations like the EU F-gas and the Kigali Amendment to the Montreal Protocol, are driving the industry towards new eco-friendly refrigerants, with reduced greenhouse effect.

Unfortunately, the majority of low GWP refrigerants raises another critical issue: flammability.

The new refrigerant R513A, chosen for FX-G05, is a brilliant exception: it offers a -56% GWP reduction compared to R134a's while ensuring complete non-toxicity and non-flammability (Class A1 of ASHRAE 34, ISO 817).

PROFOUND EXPERTISE



With thousands of units installed worldwide since 2003, Climaveneta air-cooled screw chillers have evolved into the third generation: FX-G05 series. The highest manufacturing quality, proven reliability, and full configurability are the reasons behind the success of this range. Today FX-G05 combines extensive expertise with the latest technology to deliver you the best value.

TOP-LEVEL PERFORMANCE



Fully customizable with a range of versions and accessories, FX-G05 allows custom-made application design for individual projects. Thanks to devoted technological solutions and accurate design, each FX-G05 configuration brings high full load performance and brilliant part load efficiency together, thus helping individuals and businesses reduce the energy consumption of their HVAC systems and cut their running costs.

TECHNOLOGICAL CHOICES

W3000TE CONTROL

Fully in-house developed management software.

- ▶ Efficient and reliable operation in all conditions
- ▶ Connectivity with the most commonly used BMS protocols (Opt.)



KIlink USER INTERFACE

Innovative Wi-Fi interface for an easy and enhanced unit management.



Communication based on Wi-Fi technology (no internet connection needed)



An exclusive product of Mitsubishi Electric Hydraulics & IT Cooling Systems

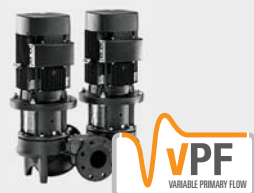
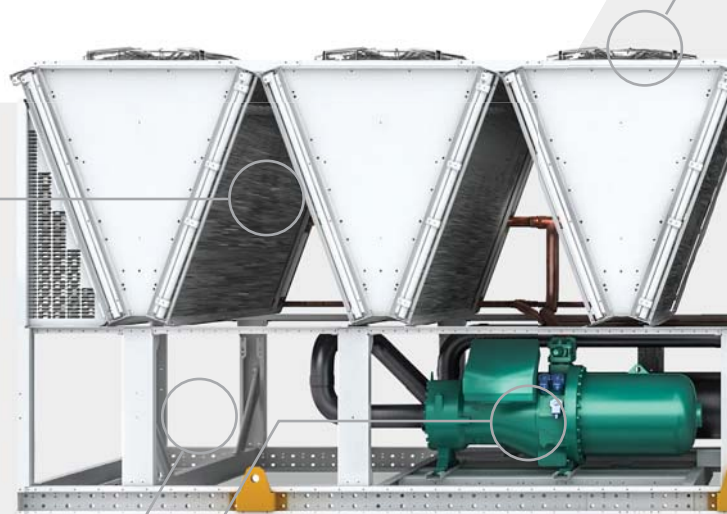


Industrial hardware characteristics, tolerates temperatures from -20 to +65°C

Micro-channel coils

New generation full aluminum micro-channel coils, ideally positioned on a "V" block structure to optimize airflow and heat transfer.

- ▶ Up to 30% of refrigerant charge reduction vs. traditional tube and fin coils.
- ▶ Long Life Alloy (LLA) for higher corrosion resistance and longer life cycle
- ▶ Protective coating available for harsh industrial and marine environments (Opt.)



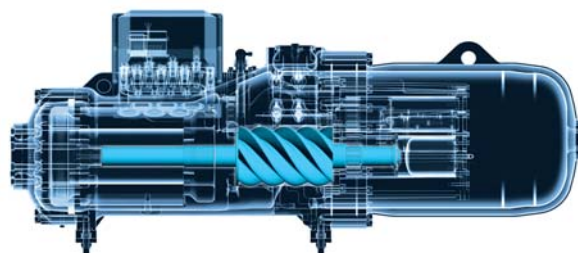
Built-in pump group (Opt.)

Factory-mounted pumps and pre-plumbed hydraulic components, for the minimum on-site installation time, work and cost.

- ▶ Fix speed and variable speed pumps available, with low or high head
- ▶ Electronic primary flow controls for constant pressure or constant temperature

CSC screw compressors

Dual rotor screw compressors designed according to Mitsubishi Electric Hydraulics & IT Cooling Systems specifications and for its exclusive use.



FX-G05 brings advanced technology and know-how together in customizable packages to aid design, specification, installation, and on-going operations.



Variable speed fans

High performing axial fans equipped with autotransformer for speed adjustment.

- ▶ Precise air-flow management, reduced power consumption and lower sound levels at part load
- ▶ Totally independent ventilation system for each refrigerant circuit
- ▶ EC fans available with proprietary algorithm for energy savings and very low ambient operation (Opt.)

Low GWP refrigerant

New generation refrigerant with reduced greenhouse effect. Non-flammable.

Reduced GWP

R513A GWP_{100 year} = 572
(R134a GWP_{100 year} = 1300)
GWP values according to IPCC AR5

Non-toxic, non-flammable

ASHRAE 34, ISO 817: A1 class

Favorable physical properties

Same cooling capacity delivered as R134a
Same operating pressures as R134a

In line with standard building codes

No special equipment
No need for flammable risk assesment
No extra costs

Compliant with eco regulation objectives

No future retrofit required
Reduced price volatility



Shell and tube evaporator

Dry expansion, single pass shell and tube evaporator, fully developed by Mitsubishi Electric Hydronics & IT Cooling Systems.

- ▶ Internally grooved copper tubes for enhanced heat exchange
- ▶ Low pressure drops
- ▶ Fully protected against ice formation

Brazed plate evaporator for small sizes (<200 kW)

Innovative internal geometry

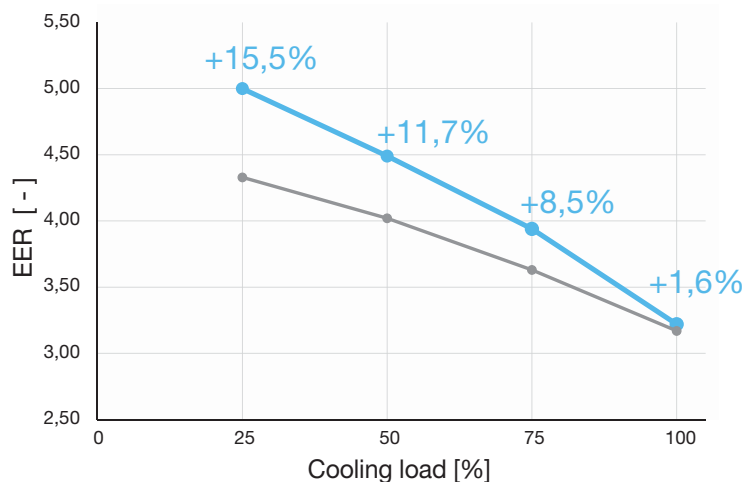
Thanks to its specific design, aimed at optimizing the internal volumes for partial load operation, the CSC compressors deliver excellent performance in all the different operating conditions.

Enhanced lubrication system

A special oil management valve calibrates the oil circulation and delivers a remarkable increase of the compressor efficiency at partial loads.

Extreme durability

The brilliantly engineered mechanics include carbon steel bearings guaranteed for a lifetime of 150.000 hours.



—●— Chiller with CSC screw compressors —●— Chiller with traditional screw compressors

The graph shows the chiller efficiency with the variation of the load rate and air temperature (ESEER operating conditions).

CORE FEATURES FOR ALL YOUR EQUIPMENT NEEDS

W3000TE control and KIPlink innovative interface

The logic behind FX-G05 is the W3000TE control software. Characterized by advanced functions and algorithms, **W3000TE features proprietary settings** that ensure faster adaptive responses to different dynamics, in all operating modes. Direct control over the unit comes through the innovative KIPlink interface.

Based on Wi-Fi technology, **KIPlink** gets rid of the standard keyboard and **allows one to operate on the unit directly from a mobile device** (smartphone, tablet, notebook).



Easier on-site operation

Monitor each component while moving around the unit for maintenance operations. View and change all parameters with easy-to-understand screenshots and dedicated tooltips. Get devoted "help" message for alarm reset and trouble shooting.



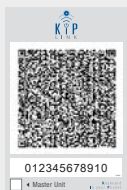
Real-time graphs and trends

Monitor the immediate labor status of the compressors, heat exchangers, cooling circuits and pumps. View the real-time graphs of the key operating variable trends.



Data logger function

View history of events and use the filter for a simple search. Enhance diagnostics with data and graphs of 10 minutes before and after each alarm. Download all the data for detailed analysis.



How to access the unit with KIPlink

Direct access to the W3000TE control is achieved by scanning the QR-code positioned on the front side of the FX-G05 unit.



LED switch

The three-colour LED button positioned on the electrical board allows the user to switch the unit on/off and visualize the general status of the equipment without using any mobile device.

In addition (Opt. 1442, 1444) or in substitution (Opt. 6194, 6195) to the KIPlink, FX-G05 can be provided with: a 7" color touch screen interface or with a keyboard with large display and LED icons. In these cases, the LED switch is not provided. Remote keyboard is possible (Opt. C9261063, C9261064, C926108911, C926108913).

Witness Testing

Test your chiller before its installation and make its performance totally reliable.

Performance WITNESS TEST

Performance Witness testing is available as additional service in order to allow the final user to see the unit being tested under specific conditions. Carried out within modern and sophisticated facilities, this service gives the customer the possibility to choose among different witness test options in order to:

- ▶ Verify unit operation under severe conditions
- ▶ Detect sound emissions
- ▶ Check performance, both at full and partial loads
- ▶ Test the unit with low outdoor air temperature operation
- ▶ Time the fast restart



Hydronic modules and flow controls

The FX-G05 units can be equipped with a factory-mounted complete pump group, which **optimizes hydraulic and electrical installation** space, time and costs, or simply with terminals to control the external pumps with the unit control logic.



Close-coupled pumps by Grundfos

SiC/SiC (silicon carbide) primary seal pairing, extremely resistant against wear, abrasive particles and wear.

EPDM bellows seal prevent the risk of deposits, such as rust, on the shaft.

Pull-out design: during maintenance the power head can be pulled out without removing the pump housing from the pipework.

In-line or end-suction models were chosen based on dimensions and performances

Factory-mounted pump group

2 pumps (duty/standby) provide low or high head (available head approx. 100 or 200 kPa).
1 pump available for single compressor units.

Fixed speed pumps

1 pump	LH	2-poles: Opt. 4706
	HH	2-poles: Opt. 4707
2 pumps	LH	2-poles: Opt. 4711 / 4-poles: Opt. 4708
	HH	2-poles: Opt. 4712 / 4-poles: Opt. 4709

Variable speed pumps

1 pump	LH	2-poles: Opt. 4717
	HH	2-poles: Opt. 4718
2 pumps	LH	2-poles: Opt. 4722 / 4-poles: Opt. 4719
	HH	2-poles: Opt. 4723 / 4-poles: Opt. 4721

Terminals for external pump control

The unit controls the activation or the activation and speed of 1 or 2 external pumps.

ON/OFF signal

1 pump	Opt. 4702
2 pumps	Opt. 4703

Modulating signal

1 pump	Opt. 4713
2 pumps	Opt. 4714



VPF control logic

The VPF control series (Variable Primary Flow) doesn't only **adjust the pump speed on the basis of the plant's thermal load**, but also **dynamically optimizes the unit's thermoregulation** for variable flow operation, thus ensuring both the highest pump energy savings and chiller stable operation.

VPF: constant ΔP on the plant side

For systems with only the primary circuit.
Opt. 4864 or 4865 for single unit system
Opt. 4866 for multi-unit system

VPF.D: constant ΔT on the plant side

For systems with primary and secondary circuits separated by a hydraulic decoupler.
Opt. 4867 for single unit system
Opt. 4868 for multi-unit system

For quick and easy commissioning, it is possible to adjust the pump speed directly from the unit control (Opt. 4862).

Operating limits

- Standard unit
- Required: Kit HT (Opt. 1955)
- Required: EC fans (Opt. 808)
- Required: DBA device (coil flooding) (Opt. 813)
- Required: EC fans (Opt. 808)

Air temp. < -10°C: Double insulation on heat exchangers (Opt. 2631)

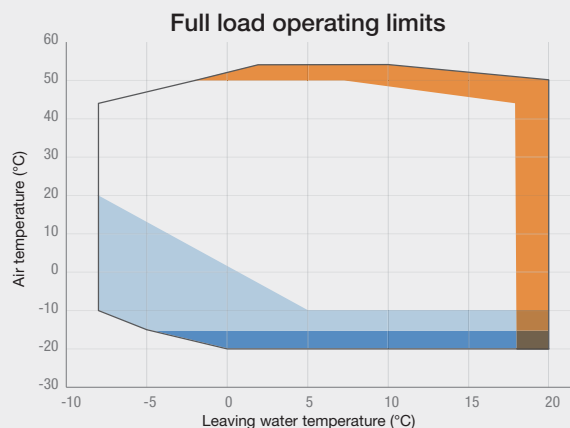
LWT < 0°C: Compressor liquid injection (Opt. 871)

Partial load operating limits

In case of higher outdoor air temperature, FX-G05 automatically partializes its resources to ensure uninterrupted operation (HPTC function).

Operating limits when working partialized (water *7°C):

/K, /SL-K	53°C
/E, SL-E	55°C
/CA, SL-CA	55°C
+kit HT (all versions)	57°C



The diagram shows the operating limits of versions /E, /SL-E
For versions /K, /SL-K, the max outdoor temperature is lowered by 4°C
For versions /CA, /SL-CA, the max outdoor temperature is lowered by 2°C

ACCESSORIES

EC fans

EC fans (Opt. 808): Electronically commutated fans with brushless motor to continuously adjust the speed in order to minimise energy consumption and noise emissions, especially at part loads (+1% of EER, +5% of SEER).

+5%
SEER

Noise reduction

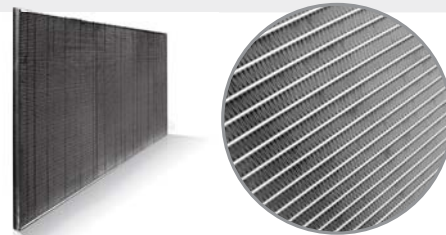
Compressor acoustical enclosure (Opt. 2301):
Enclosure realised with painted sheet metal panels lined with an acoustic insulation.
Sound power reduction: -2 dB(A).

Noise Reducer kit (Opt. 2315):
The kit includes dedicated fans' speed calibration together with the soundproofing of the most critical components.
Sound power reduction: -7 dB(A).



Coils and coatings

MICROCHANNEL COILS

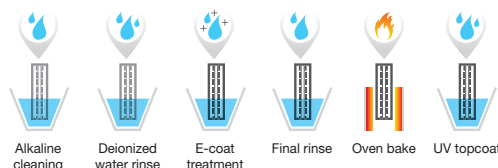


Al - Regular (std)

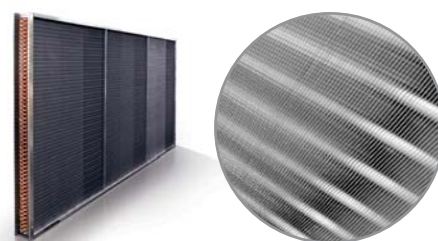
Al - E-coating (Opt. 876)



E-coating process



TUBE & FIN COILS



Cu/Al - Regular (Opt. 879)

Cu/Al - Pre-painted fins (Opt. 894)

Cu/Al - High pressure spray coating (Opt. 895 / RFQ)

Fin Guard Silver SB *

Opt. 895

Polyurethane resin with aluminum fillers

- ✓ 3000 h ASTM B117
- ✓ UV rays - excellent

* Thermoguard

PoluAl XT *

RFQ

Polyurethane resin with aluminum fillers

- ✓ 4000 h ASTM B117
- ✓ UV rays - excellent

* Blygold

Heresite P-413C *

RFQ

Phenolic resin

- ✓ 6000 h ASTM B117
- ✓ UV rays - good

* Heresite Protective Coating, LLC

Cu/Cu - Tube & fin coil (Opt. 881)

FURTHER OPTIONS

Auxiliary input

- 4-20 mA (Opt. 6161):** Enables remote set-point adjustments (analog input).
- Double set-point (Opt. 6162):** Enables the remote switch between 2 set-points (digital input).
- Demand limit (Opt. 6171):** Limits the unit's power absorption for safety reasons or in temporary situations (digital input).

Electrical

- Compressor rephasing (Opt. 3301):** The capacitors on the compressors' line increase the unit's power factor.
- Automatic circuit breakers for compressors (Opt. 3411) or all major electrical loads (Opt. 3412):** Protects the compressors or the compressors and fans from possible current peaks, over-current switches are provided in place of the standard fuses.
- Soft-starter (Opt. 1511) or 3-phase soft-starter (Opt. 1513):** Manages the inrush current enabling lower motor windings' mechanical wear, avoidance of mains voltage fluctuations during starting and favorable sizing for the electrical system.

Connectivity

- BMS connection:** Serial card interface module to allow integration with BMS protocols: **Modbus (Opt. 4181) / LonWorks (Opt. 4182) / BACnet MS/TP (Opt. 4184) / BACnet over IP (Opt. 4185).**
- M-Net interface kit (Opt. 4187):** Interface module to allow the integration of the unit with Mitsubishi Electric proprietary communication protocol M-Net.

Energy Meter

- Energy meter for BMS (Opt. 5924):** Acquires electrical data and the power absorbed by the unit and send them the BMS for energy metering (Modbus RS485).

Refrigerant circuit

- Dual pressure relief valves with switch (Opt. 1961):** One valve is isolated from the refrigerant circuit while the other is in service. The user can work on the isolated valve for periodic maintenance or replacement, without removing the refrigerant from the circuit.
- Compressor suction valve (Opt. 1901):** Installed on each compressor suction line, it simplifies maintenance activity (discharge valves are present as per standard).

Refrigerant leak detector

- Leak detector (Opt. 3431):** Factory installed device. In case of a gas leak detection it raises an alarm.
- Leak detector + compressor off (Opt. 3433):** Factory installed device. In case of a gas leak detection it raises an alarm and stops the units.

Hydraulic

- Water flow switch (Opt. 1801):** Designed to protect the unit where the water flow across the evaporator is not sufficient and falls outside of the operating parameters.
- Delta T > 8°C (Opt. 2881):** Evaporator designed to operate with low primary circuit water flow.
- Flanged hydraulic connections (Opt. 2911):** Grooved coupling with flanged counter-pipe.

Structure

- Anti-intrusion grilles (Opt. 2021):** Perimeter metal grilles to protect against the intrusion of solid bodies into the unit structure.
- Rubber type (Opt. 2101) or spring type (Opt. 2102) anti-vibration mountings:** Reduce vibrations, keeping noise transmission to a minimum.

Packing

- Reinforcing bars (Opt. 1971):** Steel brackets used to strengthen the unit structure. Suggested in case of long truck transport.
- Nylon packing (Opt. 9966):** FX-G05 is covered with a protective nylon layer and provided with the lifting eye-plates, to load the unit into a truck.
- Container packing (Opt. 9979):** FX-G05 is covered with a protective nylon layer, provided with structural reinforcing bars and equipped with both lifting eye-plates and handling devices to load it on a container (metal slides, front handling bar).

**FX-G05 0751 - 1801**

Chiller, air source for outdoor installation,
from 140 to 396 kW.



FX-G05 /K			0751	0851	0951	0961	1101
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	145,5	160,1	202,8	221,9	238,0
Total power input	(1)	kW	52,12	61,09	66,27	76,37	88,76
EER	(1)	kW/kW	2,793	2,620	3,059	2,904	2,680
ESEER	(1)	kW/kW	3,930	3,920	3,970	4,010	4,000
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	145,1	159,7	202,1	221,1	237,1
EER	(1)(2)	kW/kW	2,760	2,600	3,020	2,860	2,640
ESEER	(1)(2)	kW/kW	3,830	3,840	3,850	3,880	3,870
Cooling energy class			C	D	B	C	D
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	145	160	202	221	237
SEER	(7)(8)		3,80	3,80	3,87	3,89	3,83
Performance η_{s}	(7)(9)	%	149	149	152	153	150
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	6,957	7,654	9,696	10,61	11,38
Pressure drop	(1)	kPa	20,6	20,1	30,2	36,2	41,6
REFRIGERANT CIRCUIT							
Compressors nr.		N°	1	1	1	1	1
No. Circuits		N°	1	1	1	1	1
Refrigerant charge		kg	23,0	25,0	32,0	36,0	38,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	62	62	62	62	64
Sound power level in cooling	(4)(5)	dB(A)	94	94	94	94	96
SIZE AND WEIGHT							
Length	(6)	mm	1500	1500	2750	2750	2750
Width	(6)	mm	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	1480	1510	2100	2130	2460

FX-G05 /K			1301	1401	1421	1431	1801
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	274,7	299,1	329,0	347,7	395,7
Total power input	(1)	kW	91,61	106,9	123,7	116,2	140,9
EER	(1)	kW/kW	2,999	2,798	2,660	2,992	2,808
ESEER	(1)	kW/kW	4,020	3,970	3,990	3,940	3,960
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	273,7	297,8	327,7	346,8	394,4
EER	(1)(2)	kW/kW	2,950	2,750	2,620	2,960	2,770
ESEER	(1)(2)	kW/kW	3,890	3,820	3,850	3,860	3,850
Cooling energy class			B	C	D	B	C
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	274	298	328	347	394
SEER	(7)(8)		3,85	3,80	3,83	3,90	3,86
Performance η_{s}	(7)(9)	%	151	149	150	153	152
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	13,14	14,30	15,73	16,63	18,92
Pressure drop	(1)	kPa	42,5	50,4	44,9	29,5	38,2
REFRIGERANT CIRCUIT							
Compressors nr.		N°	1	1	1	1	1
No. Circuits		N°	1	1	1	1	1
Refrigerant charge		kg	44,0	48,0	53,0	56,0	63,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	64	65	66	66	66
Sound power level in cooling	(4)(5)	dB(A)	96	97	98	98	98
SIZE AND WEIGHT							
Length	(6)	mm	2750	2750	2750	4000	4000
Width	(6)	mm	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	2510	2540	2580	3110	3540

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

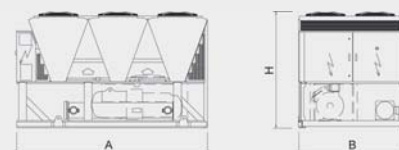
- Unit in standard configuration/execution, without optional accessories.
 - Parameter calculated according to [REGULATION (EU) N. 2016/2281]
 - Seasonal energy efficiency ratio
 - Seasonal space cooling energy efficiency
- The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.**

Certified data in EUROVENT



FX-G05 /SL-K			0751	0851	0951	0961	1101
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	140,1	169,5	195,5	214,7	245,9
Total power input	(1)	kW	52,54	56,12	66,96	78,02	83,46
EER	(1)	kW/kW	2,669	3,021	2,918	2,753	2,945
ESEER	(1)	kW/kW	3,940	4,130	3,940	4,050	4,060
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	139,7	169,0	194,9	214,0	244,9
EER	(1)(2)	kW/kW	2,640	2,990	2,880	2,720	2,900
ESEER	(1)(2)	kW/kW	3,840	4,020	3,840	3,930	3,920
Cooling energy class			D	B	C	C	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	140	169	195	214	245
SEER	(7)(8)		3,80	4,01	3,84	3,91	3,92
Performance η_{s}	(7)(9)	%	149	157	151	153	154
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	6,698	8,107	9,351	10,27	11,76
Pressure drop	(1)	kPa	19,1	22,6	28,1	33,9	44,4
REFRIGERANT CIRCUIT							
Compressors nr.			1	1	1	1	1
No. Circuits			1	1	1	1	1
Refrigerant charge	kg		24,0	29,0	33,0	37,0	43,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	52	52	53	53	55
Sound power level in cooling	(4)(5)	dB(A)	84	84	85	85	87
SIZE AND WEIGHT							
Length	(6)	mm	1500	2750	2750	2750	2750
Width	(6)	mm	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	1640	2050	2270	2290	2770

FX-G05 /SL-K			1301	1401	1421	1431	1801
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	265,0	287,8	331,8	346,5	395,0
Total power input	(1)	kW	92,83	109,0	117,3	112,3	135,5
EER	(1)	kW/kW	2,856	2,640	2,829	3,085	2,915
ESEER	(1)	kW/kW	4,050	3,940	4,180	4,290	4,010
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	264,1	286,6	330,5	345,6	393,7
EER	(1)(2)	kW/kW	2,820	2,600	2,790	3,050	2,880
ESEER	(1)(2)	kW/kW	3,930	3,800	4,030	4,180	3,900
Cooling energy class			C	D	C	B	C
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	264	287	330	346	394
SEER	(7)(8)		3,87	3,80	4,02	4,21	3,94
Performance η_{s}	(7)(9)	%	152	149	158	165	155
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	12,67	13,76	15,86	16,57	18,89
Pressure drop	(1)	kPa	39,5	46,6	45,7	29,3	38,1
REFRIGERANT CIRCUIT							
Compressors nr.			1	1	1	1	1
No. Circuits			1	1	1	1	1
Refrigerant charge	kg		46,0	49,0	58,0	60,0	68,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	55	56	57	57	57
Sound power level in cooling	(4)(5)	dB(A)	87	88	89	89	89
SIZE AND WEIGHT							
Length	(6)	mm	2750	2750	4000	4000	4000
Width	(6)	mm	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	2770	2790	3250	3410	3880



**FX-G05 1502 - 7823**

Chiller, air source for outdoor installation,
from 289 to 1710 kW.



FX-G05 /K			1502	1702	1902	1922	2202	2602	2652	2702	2722
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	299,6	325,8	383,2	432,0	480,6	533,4	558,7	600,7	658,3
Total power input	(1)	kW	104,7	122,0	136,1	149,4	176,5	192,9	202,0	212,1	244,6
EER	(1)	kW/kW	2,862	2,670	2,816	2,892	2,723	2,765	2,766	2,832	2,691
ESEER	(1)	kW/kW	4,170	4,160	4,210	4,230	4,170	4,230	4,250	4,220	4,210
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	298,9	324,9	382,1	430,5	479,3	531,7	557,1	598,8	656,3
EER	(1)(2)	kW/kW	2,830	2,640	2,780	2,850	2,700	2,730	2,740	2,800	2,660
ESEER	(1)(2)	kW/kW	4,050	4,030	4,060	4,060	4,030	4,070	4,110	4,060	4,060
Cooling energy class			C	D	C	C	C	C	C	C	D
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	299	325	382	430	479	532	557	599	656
SEER	(7)(8)		4,07	4,03	4,09	4,11	4,10	4,10	4,10	4,11	4,10
Performance η_s	(7)(9)	%	160	158	160	161	161	161	161	161	161
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	14,33	15,58	18,32	20,66	22,98	25,51	26,72	28,73	31,48
Pressure drop	(1)	kPa	23,9	28,3	33,6	42,7	32,3	39,8	34,9	40,3	38,5
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	51,0	54,0	63,0	72,0	79,0	87,0	92,0	101	108
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	67	67	67	68	68	68	68	68	70
Sound power level in cooling	(4)(5)	dB(A)	99	99	99	100	100	100	100	100	102
SIZE AND WEIGHT											
Length	(6)	mm	2750	2750	4000	4000	4000	5250	5250	5250	5250
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3160	3170	3720	3810	4610	5060	5060	5130	5520

FX-G05 /K			3152	3602	3902	4202	4502	4802	4812	4822	5412
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	725,4	802,7	871,9	926,5	982,4	1021	1059	1146	1176
Total power input	(1)	kW	260,4	278,6	301,8	322,7	351,1	377,8	362,3	405,4	433,0
EER	(1)	kW/kW	2,786	2,881	2,889	2,871	2,798	2,702	2,923	2,827	2,716
ESEER	(1)	kW/kW	4,200	4,180	4,180	4,200	4,180	4,190	4,200	4,230	4,190
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	722,9	800,2	869,2	923,3	979,4	1018	1055	1142	1172
EER	(1)(2)	kW/kW	2,750	2,850	2,850	2,830	2,770	2,670	2,880	2,790	2,690
ESEER	(1)(2)	kW/kW	4,030	4,020	4,020	4,030	4,030	4,020	4,030	4,050	4,040
Cooling energy class			C	C	C	C	C	D	C	C	D
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	723	800	869	923	979	1018	1055	1142	1172
SEER	(7)(8)		4,10	4,11	4,10	4,10	4,11	4,10	4,11	4,11	4,10
Performance η_s	(7)(9)	%	161	161	161	161	161	161	161	162	161
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	34,69	38,39	41,70	44,31	46,98	48,82	50,65	54,81	56,25
Pressure drop	(1)	kPa	46,8	40,9	42,6	48,1	41,8	45,1	48,5	53,3	42,2
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	120	135	146	155	161	168	174	189	193
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	69	69	70	70	71	71	71	71	72
Sound power level in cooling	(4)(5)	dB(A)	102	102	103	103	104	104	104	104	105
SIZE AND WEIGHT											
Length	(6)	mm	6500	6500	7750	7750	7750	7750	9000	9000	9150
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	6450	6940	7440	7560	7790	7820	8250	8370	8660

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

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

7 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

8 Seasonal energy efficiency ratio

9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

Certified data in EUROVENT



R R513A

A ENERGY CLASS

COOLING

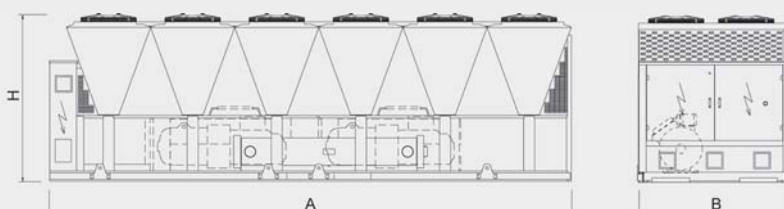
SCREW

VPF VAR. PRIM. FLOW

T SHELL & TUBES

AXIAL

FX-G05 /K			6002	6022	6303	6903	7203	7213	7223
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	1239	1303	1401	1481	1547	1654	1710
Total power input	(1)	kW	443,8	485,7	485,8	535,1	569,7	593,7	619,2
EER	(1)	kW/kW	2,792	2,683	2,884	2,768	2,715	2,786	2,762
ESEER	(1)	kW/kW	4,190	4,220	4,190	4,200	4,160	4,200	4,230
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	1235	1298	1397	1476	1543	1649	1704
EER	(1)(2)	kW/kW	2,760	2,650	2,850	2,730	2,690	2,750	2,730
ESEER	(1)(2)	kW/kW	4,030	4,040	4,030	4,030	4,020	4,040	4,050
Cooling energy class			C	D	C	C	D	C	C
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	1235	1298	1397	1476	1543	1649	1704
SEER	(7)(8)		4,10	4,10	4,12	4,11	4,10	4,12	4,13
Performance η_{15}	(7)(9)	%	161	161	162	162	161	162	162
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	59,26	62,29	67,01	70,81	74,00	79,11	81,79
Pressure drop	(1)	kPa	46,9	51,8	45,4	50,7	39,0	44,6	51,2
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	3	3	3	3	3
No. Circuits		N°	2	2	3	3	3	3	3
Refrigerant charge		kg	208	214	236	244	254	273	288
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	73	73	73	73	73	73	73
Sound power level in cooling	(4)(5)	dB(A)	106	106	106	106	106	106	106
SIZE AND WEIGHT									
Length	(6)	mm	10400	10400	11650	11650	11650	12900	12900
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9200	9310	11880	11940	11950	12490	12570



**FX-G05 1502 - 7823**

Chiller, air source for outdoor installation,
from 289 to 1710 kW.



FX-G05 /SL-K			1502	1702	1902	1922	2202	2602	2652	2702	2722
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	288,5	333,4	381,6	418,7	476,0	518,6	556,0	578,5	663,2
Total power input	(1)	kW	105,5	117,7	131,2	152,3	168,2	182,0	199,9	216,1	232,1
EER	(1)	kW/kW	2,735	2,833	2,909	2,749	2,830	2,849	2,781	2,677	2,857
ESEER	(1)	kW/kW	4,140	4,160	4,190	4,220	4,190	4,250	4,230	4,220	4,180
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	287,8	332,5	380,5	417,3	474,7	517,0	554,4	576,8	661,2
EER	(1)(2)	kW/kW	2,710	2,800	2,880	2,720	2,800	2,820	2,750	2,650	2,820
ESEER	(1)(2)	kW/kW	4,020	4,030	4,050	4,050	4,050	4,090	4,090	4,070	4,030
Cooling energy class			C	C	C	C	C	C	C	D	C
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	288	332	380	417	475	517	554	577	661
SEER	(7)(8)		4,02	4,04	4,10	4,10	4,11	4,10	4,10	4,11	4,10
Performance η_s	(7)(9)	%	158	159	161	161	161	161	161	161	161
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	13,80	15,94	18,25	20,02	22,76	24,80	26,59	27,66	31,72
Pressure drop	(1)	kPa	22,2	29,6	33,3	40,1	31,7	37,6	34,5	37,4	39,1
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	51,0	59,0	67,0	72,0	83,0	91,0	97,0	101	116
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	55	55	56	56	57	57	57	57	57
Sound power level in cooling	(4)(5)	dB(A)	87	87	88	88	89	89	89	89	90
SIZE AND WEIGHT											
Length	(6)	mm	2750	4000	4000	4000	5250	5250	5250	5250	6500
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3420	4160	4230	4230	5200	5560	5580	5620	6610

FX-G05 /SL-K			3152	3602	3902	4202	4502	4802	4812	4822	5412
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	716,6	770,8	838,7	892,9	964,9	1021	1052	1137	1169
Total power input	(1)	kW	257,3	283,3	307,1	328,4	349,6	368,2	355,4	396,9	424,6
EER	(1)	kW/kW	2,785	2,721	2,731	2,719	2,760	2,773	2,960	2,865	2,753
ESEER	(1)	kW/kW	4,200	4,170	4,190	4,200	4,180	4,200	4,200	4,210	4,180
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	714,1	768,6	836,2	890,0	962,1	1018	1048	1133	1166
EER	(1)(2)	kW/kW	2,750	2,690	2,700	2,690	2,730	2,740	2,920	2,820	2,720
ESEER	(1)(2)	kW/kW	4,030	4,030	4,040	4,030	4,030	4,030	4,030	4,030	4,030
Cooling energy class			C	D	C	D	C	C	B	C	C
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	714	769	836	890	962	1018	1048	1133	1166
SEER	(7)(8)		4,10	4,11	4,10	4,10	4,11	4,10	4,11	4,11	4,11
Performance η_s	(7)(9)	%	161	161	161	161	162	161	162	161	162
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	34,27	36,86	40,11	42,70	46,14	48,85	50,30	54,38	55,91
Pressure drop	(1)	kPa	45,7	37,7	39,4	44,7	40,3	45,2	47,9	52,5	41,7
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	125	135	146	155	168	178	183	198	204
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	58	58	59	59	60	60	61	61	61
Sound power level in cooling	(4)(5)	dB(A)	91	91	92	92	93	93	94	94	94
SIZE AND WEIGHT											
Length	(6)	mm	6500	6500	7750	7750	9000	9000	10250	10250	10400
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	7080	7550	8090	8200	9000	8870	9360	9470	9780

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

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

7 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

8 Seasonal energy efficiency ratio

9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

Certified data in EUROVENT



R R513A

A ENERGY CLASS

COOLING

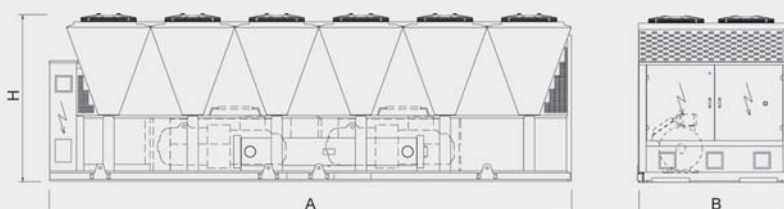
SCREW

VPF VAR.PRIM.FLOW

T SHELL & TUBES

AXIAL

FX-G05 /SL-K			6002	6022	6303	6903	7203	7213	7223
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	1194	1289	1350	1463	1530	1595	1649
Total power input	(1)	kW	451,2	478,6	494,5	531,6	563,4	607,6	635,5
EER	(1)	kW/kW	2,646	2,693	2,730	2,752	2,716	2,625	2,595
ESEER	(1)	kW/kW	4,180	4,220	4,180	4,200	4,160	4,170	4,180
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	1190	1285	1346	1458	1526	1590	1644
EER	(1)(2)	kW/kW	2,620	2,660	2,700	2,720	2,690	2,600	2,570
ESEER	(1)(2)	kW/kW	4,020	4,040	4,030	4,030	4,030	4,030	4,020
Cooling energy class			D	D	C	C	D	D	D
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	1190	1285	1346	1458	1526	1590	1644
SEER	(7)(8)		4,10	4,12	4,11	4,11	4,12	4,11	4,10
Performance η_{15}	(7)(9)	%	161	162	161	161	162	161	161
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	57,11	61,64	64,56	69,97	73,16	76,27	78,86
Pressure drop	(1)	kPa	43,5	50,7	42,1	49,5	38,2	41,5	47,6
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	3	3	3	3	3
No. Circuits		N°	2	2	3	3	3	3	3
Refrigerant charge		kg	208	224	236	255	267	278	288
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	61	61	61	61	61	61	62
Sound power level in cooling	(4)(5)	dB(A)	94	94	94	94	94	94	95
SIZE AND WEIGHT									
Length	(6)	mm	10400	11650	11650	12900	12900	12900	12900
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9860	10420	12810	13340	13340	13420	13500



**FX-G05 1502 - 7823**

Chiller, air source for outdoor installation,
from 289 to 1710 kW.



FX-G05 /CA			1502	1702	1902	1922	2202	2602	2652
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	302,4	349,6	395,0	461,7	513,2	551,4	590,7
Total power input	(1)	kW	99,27	112,9	130,0	149,8	166,3	182,0	191,9
EER	(1)	kW/kW	3,045	3,097	3,038	3,082	3,086	3,030	3,078
ESEER	(1)	kW/kW	4,290	4,310	4,310	4,280	4,310	4,310	4,320
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	301,6	348,6	393,8	460,5	511,7	549,9	588,9
EER	(1)(2)	kW/kW	3,010	3,060	3,000	3,050	3,050	3,000	3,040
ESEER	(1)(2)	kW/kW	4,150	4,160	4,150	4,150	4,160	4,170	4,160
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	302	349	394	460	512	550	589
SEER	(7)(8)		4,21	4,21	4,20	4,21	4,22	4,16	4,16
Performance ηs	(7)(9)	%	166	166	165	166	166	163	164
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	14,46	16,72	18,89	22,08	24,54	26,37	28,25
Pressure drop	(1)	kPa	24,4	32,6	35,7	29,8	36,8	34,0	39,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	55,0	62,0	67,0	78,0	91,0	93,0	100
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	66	66	67	67	68	68	68
Sound power level in cooling	(4)(5)	dB(A)	98	98	99	99	100	100	101
SIZE AND WEIGHT									
Length	(6)	mm	4000	4000	4000	5250	5250	5250	6500
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3660	3720	3760	4660	5040	5090	5830

FX-G05 /CA			2702	2722	3152	3602	3902	4202	4502
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	628,7	683,7	766,2	837,8	904,7	956,0	1031
Total power input	(1)	kW	203,9	226,5	251,5	270,8	291,1	311,7	333,0
EER	(1)	kW/kW	3,083	3,019	3,047	3,094	3,108	3,067	3,096
ESEER	(1)	kW/kW	4,310	4,330	4,310	4,300	4,320	4,330	4,310
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	626,6	681,5	764,0	835,0	901,7	952,5	1028
EER	(1)(2)	kW/kW	3,040	2,980	3,010	3,050	3,070	3,020	3,050
ESEER	(1)(2)	kW/kW	4,140	4,160	4,150	4,130	4,140	4,140	4,140
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	627	682	764	835	902	952	1028
SEER	(7)(8)		4,19	4,22	4,24	4,21	4,23	4,22	4,22
Performance ηs	(7)(9)	%	165	166	167	165	166	166	166
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	30,07	32,70	36,64	40,06	43,26	45,72	49,29
Pressure drop	(1)	kPa	44,2	41,6	37,2	44,5	45,8	51,2	46,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	106	115	130	141	153	162	174
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	68	68	68	69	69	70	70
Sound power level in cooling	(4)(5)	dB(A)	101	101	101	102	102	103	103
SIZE AND WEIGHT									
Length	(6)	mm	6500	6500	7750	7750	9000	9000	10400
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	5690	6110	6970	7440	7890	8000	8700

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

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

7 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

8 Seasonal energy efficiency ratio

9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

Certified data in EUROVENT



R R513A

A ENERGY CLASS

❄️ COOLING

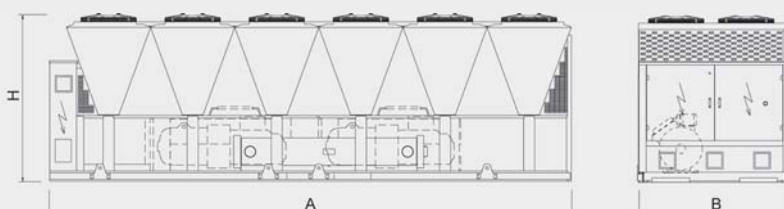
🌀 SCREW

📈 VPF VAR. PRIM. FLOW

T SHELL & TUBES

🌀 AXIAL

FX-G05 /CA			4802	4822	5412	5703	6303	6603
Power supply		V/ph/Hz	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	1098	1177	1236	1342	1460	1521
Total power input	(1)	kW	353,4	390,4	406,9	431,5	477,7	504,8
EER	(1)	kW/kW	3,107	3,015	3,038	3,110	3,056	3,013
ESEER	(1)	kW/kW	4,340	4,310	4,330	4,270	4,290	4,300
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	1094	1173	1232	1338	1456	1517
EER	(1)(2)	kW/kW	3,060	2,980	3,000	3,070	3,030	2,980
ESEER	(1)(2)	kW/kW	4,160	4,160	4,160	4,120	4,160	4,160
Cooling energy class			B	B	B	B	B	B
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7)	kW	1094	1173	1232	1338	1456	1517
SEER	(7)(8)		4,25	4,24	4,25	4,25	4,25	4,27
Performance η_{15}	(7)(9)	%	167	167	167	167	167	168
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	52,53	56,31	59,13	64,17	69,81	72,73
Pressure drop	(1)	kPa	50,1	42,3	46,7	41,6	34,7	37,7
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	3	3	3
No. Circuits		N°	2	2	2	3	3	3
Refrigerant charge		kg	185	199	209	227	260	258
NOISE LEVEL								
Sound Pressure	(3)	dB(A)	70	70	71	71	71	71
Sound power level in cooling	(4)(5)	dB(A)	103	103	104	104	104	104
SIZE AND WEIGHT								
Length	(6)	mm	10400	10400	11650	12900	12900	12900
Width	(6)	mm	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	8780	9040	10120	12160	12330	12640



**FX-G05 1502 - 7823**

Chiller, air source for outdoor installation,
from 289 to 1710 kW.



FX-G05 /SL-CA			1502	1702	1902	1922	2202	2602	2652
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	304,2	344,9	394,3	450,1	500,7	560,7	582,8
Total power input	(1)	kW	98,67	112,2	126,9	149,7	166,1	185,7	189,1
EER	(1)	kW/kW	3,082	3,074	3,107	3,007	3,014	3,019	3,082
ESEER	(1)	kW/kW	4,290	4,310	4,320	4,250	4,300	4,310	4,300
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	303,4	343,9	393,1	449,0	499,3	559,1	581,0
EER	(1)(2)	kW/kW	3,050	3,040	3,070	2,980	2,980	2,990	3,040
ESEER	(1)(2)	kW/kW	4,160	4,160	4,160	4,130	4,160	4,150	4,150
Cooling energy class			B	B	B	B	B	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	303	344	393	449	499	559	581
SEER	(7)(8)		4,22	4,21	4,20	4,19	4,22	4,22	4,18
Performance η_s	(7)(9)	%	166	165	165	165	166	166	164
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	14,55	16,49	18,85	21,53	23,94	26,81	27,87
Pressure drop	(1)	kPa	24,7	31,7	35,6	28,3	35,1	35,1	38,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	55,0	62,0	71,0	82,0	91,0	101	112
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	55	56	56	57	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	87	88	88	89	89	90	91
SIZE AND WEIGHT									
Length	(6)	mm	4000	4000	5250	5250	5250	6500	6500
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	4130	4190	4680	5140	5520	6140	6390

FX-G05 /SL-CA			2702	2722	3152	3602	3902	4202	4502
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	615,6	680,7	754,1	819,3	899,1	947,9	1020
Total power input	(1)	kW	204,4	221,1	246,8	262,5	285,1	305,7	327,1
EER	(1)	kW/kW	3,012	3,079	3,056	3,121	3,154	3,101	3,118
ESEER	(1)	kW/kW	4,290	4,330	4,300	4,290	4,300	4,330	4,300
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	613,9	678,5	752,0	816,7	896,1	944,5	1017
EER	(1)(2)	kW/kW	2,980	3,040	3,020	3,080	3,110	3,060	3,080
ESEER	(1)(2)	kW/kW	4,150	4,160	4,160	4,120	4,130	4,140	4,140
Cooling energy class			B	B	B	B	A	B	B
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)									
Ambient refrigeration									
Prated,c	(7)	kW	614	678	752	817	896	944	1017
SEER	(7)(8)		4,22	4,24	4,25	4,21	4,23	4,23	4,24
Performance η_s	(7)(9)	%	166	166	167	166	166	166	167
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1)	l/s	29,44	32,55	36,06	39,18	43,00	45,33	48,80
Pressure drop	(1)	kPa	33,7	41,2	36,1	42,6	45,3	50,3	45,1
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	123	136	148	162	171	184	197
NOISE LEVEL									
Sound Pressure	(3)	dB(A)	58	59	59	59	59	60	60
Sound power level in cooling	(4)(5)	dB(A)	91	92	92	92	92	93	93
SIZE AND WEIGHT									
Length	(6)	mm	6500	7750	7750	9000	10250	10250	11650
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	6520	7150	7610	8500	8990	9280	9810

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 EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- 5 Sound power level in cooling, outdoors.

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

7 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

8 Seasonal energy efficiency ratio

9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

Certified data in EUROVENT



R R513A

A ENERGY CLASS

COOLING

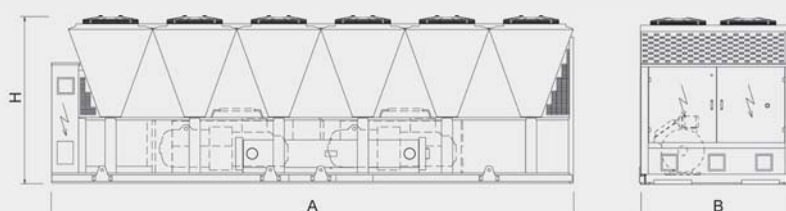
SCREW

VPF VAR. PRIM. FLOW

T SHELL & TUBES

AXIAL

FX-G05 /SL-CA			4802	4822	5412	5703	6303
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	1086	1163	1219	1310	1442
Total power input	(1)	kW	347,6	384,6	401,4	426,7	479,4
EER	(1)	kW/kW	3,124	3,024	3,037	3,070	3,008
ESEER	(1)	kW/kW	4,330	4,310	4,330	4,280	4,280
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	1082	1160	1215	1306	1439
EER	(1)(2)	kW/kW	3,080	2,990	3,000	3,040	2,980
ESEER	(1)(2)	kW/kW	4,150	4,160	4,160	4,130	4,150
Cooling energy class			B	B	B	B	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	1082	1160	1215	1306	1439
SEER	(7)(8)		4,25	4,26	4,26	4,25	4,25
Performance η_{15}	(7)(9)	%	167	167	167	167	167
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	51,94	55,63	58,31	62,64	68,95
Pressure drop	(1)	kPa	48,9	41,3	45,4	39,7	33,9
REFRIGERANT CIRCUIT							
Compressors nr.		N°	2	2	2	3	3
No. Circuits		N°	2	2	2	3	3
Refrigerant charge		kg	210	220	237	260	226
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	60	60	62	62	62
Sound power level in cooling	(4)(5)	dB(A)	93	93	95	95	95
SIZE AND WEIGHT							
Length	(6)	mm	11650	11650	12900	12900	12900
Width	(6)	mm	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9890	10230	10760	13130	13260



**FX-G05 1502 - 7823**

Chiller, air source for outdoor installation,
from 289 to 1710 kW.



FX-G05 / E			1502	1702	1902	1922	2202	2602	2652	2702	2722
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	316,5	362,6	413,8	451,2	530,5	575,8	612,9	649,8	703,3
Total power input	(1)	kW	98,32	112,6	128,0	142,3	162,6	177,5	188,6	199,6	221,8
EER	(1)	kW/kW	3,220	3,220	3,233	3,171	3,263	3,244	3,250	3,256	3,171
ESEER	(1)	kW/kW	4,350	4,370	4,360	4,370	4,360	4,360	4,370	4,390	4,360
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	315,8	361,6	412,9	450,1	529,0	574,4	611,2	647,9	701,5
EER	(1)(2)	kW/kW	3,190	3,180	3,200	3,140	3,220	3,210	3,210	3,220	3,140
ESEER	(1)(2)	kW/kW	4,230	4,220	4,250	4,240	4,210	4,230	4,220	4,240	4,230
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	316	362	413	450	529	574	611	648	702
SEER	(7)(8)		4,32	4,29	4,32	4,28	4,32	4,28	4,27	4,32	4,32
Performance ηs	(7)(9)	%	170	168	170	168	170	168	168	170	170
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	15,14	17,34	19,79	21,58	25,37	27,54	29,31	31,07	33,63
Pressure drop	(1)	kPa	22,9	30,1	24,0	28,5	35,8	29,5	33,4	37,5	31,4
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	56,0	64,0	74,0	82,0	94,0	102	109	116	125
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	66	67	67	67	67	67	68	68	68
Sound power level in cooling	(4)(5)	dB(A)	98	99	99	99	100	100	101	101	101
SIZE AND WEIGHT											
Length	(6)	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3720	4240	4360	4420	5590	5920	6400	6490	6600

FX-G05 / E			3152	3602	3902	4202	4502	4802	4822	5412	
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	785,8	854,0	931,3	986,6	1054	1123	1219	1277	
Total power input	(1)	kW	245,6	266,4	288,3	309,5	330,1	350,9	388,4	407,4	
EER	(1)	kW/kW	3,200	3,206	3,230	3,188	3,193	3,200	3,139	3,135	
ESEER	(1)	kW/kW	4,350	4,370	4,420	4,380	4,400	4,400	4,330	4,350	
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	783,7	851,4	927,8	983,6	1051	1119	1216	1274	
EER	(1)(2)	kW/kW	3,160	3,170	3,180	3,150	3,150	3,150	3,110	3,100	
ESEER	(1)(2)	kW/kW	4,210	4,210	4,210	4,210	4,220	4,210	4,200	4,210	
Cooling energy class			A	A	A	A	A	A	A	A	
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	784	851	928	984	1051	1119	1216	1274	
SEER	(7)(8)		4,32	4,33	4,33	4,32	4,32	4,31	4,32	4,35	
Performance ηs	(7)(9)	%	170	170	170	170	170	169	170	171	
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	37,58	40,84	44,54	47,18	50,39	53,70	58,31	61,05	
Pressure drop	(1)	kPa	34,6	40,9	53,0	42,1	46,1	51,2	34,4	37,7	
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	
No. Circuits		N°	2	2	2	2	2	2	2	2	
Refrigerant charge		kg	140	152	166	176	187	200	217	228	
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	68	69	69	70	70	70	70	71	
Sound power level in cooling	(4)(5)	dB(A)	101	102	102	103	103	103	103	104	
SIZE AND WEIGHT											
Length	(6)	mm	9000	9000	10250	10250	11650	11650	11650	12900	
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	
Operating weight	(6)	kg	7400	7880	8420	8660	9190	9270	10330	11170	

Notes:

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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 made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.

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

7 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

8 Seasonal energy efficiency ratio

9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.

Certified data in EUROVENT



R R513A

A ENERGY CLASS

COOLING

SCREW

VPF VAR. PRIM. FLOW

T SHELL & TUBES

AXIAL

FX-G05 /SL-E			1502	1702	1902	1922	2202	2602	2652	2702	2722
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	312,8	359,1	409,0	447,3	524,1	568,3	605,2	641,9	696,6
Total power input	(1)	kW	97,03	110,3	126,2	141,4	160,5	176,0	186,6	197,3	220,9
EER	(1)	kW/kW	3,225	3,256	3,241	3,163	3,265	3,229	3,243	3,253	3,153
ESEER	(1)	kW/kW	4,380	4,390	4,360	4,370	4,370	4,450	4,430	4,440	4,430
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	312,1	358,1	408,1	446,2	522,6	566,9	603,6	640,0	694,9
EER	(1)(2)	kW/kW	3,190	3,220	3,210	3,130	3,230	3,200	3,210	3,210	3,120
ESEER	(1)(2)	kW/kW	4,260	4,250	4,250	4,240	4,220	4,320	4,290	4,280	4,290
Cooling energy class			A	A	A	A	A	A	A	A	A
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	312	358	408	446	523	567	604	640	695
SEER	(7)(8)		4,33	4,30	4,31	4,27	4,33	4,34	4,32	4,36	4,37
Performance η_s	(7)(9)	%	170	169	169	168	170	171	170	172	172
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	14,96	17,17	19,56	21,39	25,06	27,18	28,94	30,70	33,31
Pressure drop	(1)	kPa	22,4	29,5	23,4	28,0	34,9	28,7	32,6	36,6	30,8
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	56,0	64,0	74,0	82,0	94,0	102	109	116	125
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	56	57	57	57	57	58	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	88	89	89	89	90	91	91	92	92
SIZE AND WEIGHT											
Length	(6)	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3960	4460	4620	4680	6120	6460	6940	7040	7140

FX-G05 /SL-E			3152	3602	3902	4202	4502	4802	4822	5412	
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	776,1	841,9	918,4	973,5	1040	1108	1205	1260	
Total power input	(1)	kW	244,2	264,3	286,4	307,9	328,4	349,1	389,0	406,2	
EER	(1)	kW/kW	3,178	3,185	3,207	3,162	3,167	3,174	3,098	3,102	
ESEER	(1)	kW/kW	4,400	4,410	4,460	4,420	4,410	4,410	4,360	4,370	
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	774,1	839,4	915,0	970,6	1037	1104	1202	1257	
EER	(1)(2)	kW/kW	3,140	3,150	3,160	3,120	3,130	3,130	3,070	3,070	
ESEER	(1)(2)	kW/kW	4,260	4,250	4,260	4,260	4,240	4,220	4,240	4,230	
Cooling energy class			A	A	A	A	A	A	B	B	
ENERGY EFFICIENCY											
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)											
Ambient refrigeration											
Prated,c	(7)	kW	774	839	915	971	1037	1104	1202	1257	
SEER	(7)(8)		4,35	4,36	4,36	4,35	4,33	4,32	4,35	4,36	
Performance η_s	(7)(9)	%	171	171	171	171	170	170	171	171	
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	37,11	40,26	43,92	46,55	49,72	52,98	57,62	60,28	
Pressure drop	(1)	kPa	33,7	39,7	51,5	41,0	44,9	49,8	33,6	36,7	
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	
No. Circuits		N°	2	2	2	2	2	2	2	2	
Refrigerant charge		kg	140	152	166	176	187	200	217	228	
NOISE LEVEL											
Sound Pressure	(3)	dB(A)	59	59	59	60	60	60	60	62	
Sound power level in cooling	(4)(5)	dB(A)	92	92	92	93	93	93	93	95	
SIZE AND WEIGHT											
Length	(6)	mm	9000	9000	10250	10250	11650	11650	11650	12900	
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	
Operating weight	(6)	kg	7990	8500	8990	9290	9830	9910	10900	11530	

MORE THAN 1000 PROJECTS ALL OVER THE WORLD

Howard Smith Wharves

2018 Brisbane - Australia

Mixed-Use Development

Plant type: Hydronic System

Cooling capacity: 1200 kW

Installed machines:

2x FX/CA high efficiency screw compressor chiller



Woolworths Brookvale

2017 Brookvale - Australia

Supermarket

Plant type: Hydronic System

Cooling capacity: 466 kW

Installed machines:

1x FX/K screw compressor chiller



Gabbana

2017 Windhof - Luxembourg

Office building

Plant type: Hydronic System

Cooling capacity: 386 kW

Installed machines:

1x FX-FC HFO screw compressor free-cooling chiller with HFO refrigerant



Each one featured by different usage, location and system requirements.
All of them sharing the highest efficiency, lowest noise emissions and complete reliability of Climaveneta's unique experience and know how.

Kernot Hall

2018 LaTrobe Victoria - Australia

Institutions

Plant type: Hydronic System

Cooling capacity: 582 kW

Installed machines:

1x FX/K screw compressor chiller



FICO Eataly World

2017 Bologna - Italy

Food & Drink

Plant type: Hydronic System

Cooling capacity: 6324 kW

Installed machines: 2x TECS2 SL CA high efficiency oil-free compressor chillers, 2x FOCS2 CA high efficiency screw compressor chillers, 1x FX screw compressor chiller



De Bijenkorf Amsterdam

2018 Amsterdam - Netherlands

Retail

Plant type: Hydronic System

Cooling capacity: 415 kW

Installed machines: 1x FX HFO screw compressor chiller with HFO refrigerant





for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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