## MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.







# THE GREEN IMPERATIVE CHILLER FOR THE HIGHEST EFFICIENCY

**EER up to 3,36** 

SEER up to 5,32







## Air cooled chiller with inverter screw compressors and HFO 1234ze refrigerant. From 377 to 1463 kW

i-FX-G04 is the eco-friendly and high performing chiller that matches full inverter technology with green HFO refrigerant.

Dedicated to comfort applications – from small retail projects to large commercial and district cooling schemes, the new air cooled chiller with full inverter screw compressors meets the highest efficiency targets required by modern buildings, at the same time delivering a green approach to any centralized air conditioning system.

#### LEADING INVERTER TECHNOLOGY



The new i-FX-G04 showcases the latest variable speed technology applied on:

- dual screw compressors with integrated refrigerant cooled inverter motor and variable Vi technology
- high efficiency variable speed fans
- integrated variable speed hydronic modules (opt.)

## THIS INCREDIBLE PERFORMING CHILLER ADJUSTS THE ROTATIONAL SPEED AND THE INTERNAL GEOMETRY TO:

- perfectly match the cooling load of the plant in any condition
- offer stepless and accurate capacity control
- ensure premium efficiency values, thus cutting operating costs

#### **UNCOMPROMISED EFFICIENCY**



#### 2021 ECODESIGN DIRECTIVE COMPLIANT

Thanks to the latest variable speed technology applied both on the compressors and on the fans, i-FX-G04 achieves uncompromised part load efficiency values.

The new family exceeds the strictest 2021 Ecodesign Directive tier, placing it on the top level of the market.

## EXTENDED OPERATING RANGE

+55° -15°

Wide operating range, working with outdoor air temperatures from -15°C up to +55°C thanks to specifically developed options and smart control logics.

#### **ACOUSTIC VERSIONS**

# - Standard Unit with standard compressor's enclosures. Baseline Unit with noise reducer kit (Opt. 2315). -3 dB(A) Super low noise The highest level of noise reduction which cuts noise emissions down to -9dB(A), without compromising the unit's

#### **HEAT RECOVERY CONFIGURATIONS**



Standard unit

Unit for the production of chilled water.



Unit for the production of chilled water, equipped with an auxiliary heat exchanger on the compressor discharge for superheat recovery.

efficiency.

## ALL-ROUND SUSTAINABILITY



## i-FX-G04 is the result of Mitsubishi Electric Hydronics & IT Cooling Systems' extensive approach to sustainability.

Achieving outstanding performance and ensuring long-term sustainability are challenges that modern HVAC systems need to tackle.

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 i-FX-G04, a complete chiller range optimized for HFO refrigerant R1234ze, with nearly zero environmental impact.

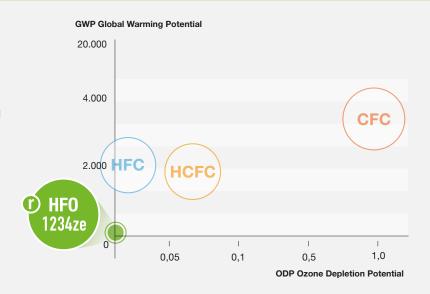
Combining brilliant annual efficiency with the use of a low GWP refrigerant, i-FX-G04 tackles both the indirect (due to the primary energy consumption) and the direct global warming impact, thus resulting the perfect choice for any new, forward-looking cooling system.

## The environmental impact of the refrigerants is measured by two parameters:

▶ ODP: Ozone Depletion Potential

▶ **GWP:** Global Warming Potential

While in the past the focus was on reducing ODP values to 0, new regulations encourage Member States to work harder on GWP.



#### The path to a greener world

Starting from the 70s, several international agreements have been made to drive the industry towards eco-friendly refrigerants. The last crucial step was taken in 2016, when the Kigali Amendment to the Montreal Protocol was passed, paving the way for the global phasedown of HFCs.











## QUICK&EASY INSTALLATION AND MAINTENANCE



#### A vast array of already mounted options together with a smart unit design for quick and easy installation and maintenance operations.

## HIGH DEGREE OF CONFIGURABILITY



Always the right solution for every project thanks to many specifically developed versions and a bespoke list of options (e.g. the integrated hydronic modules, several water flows controls).

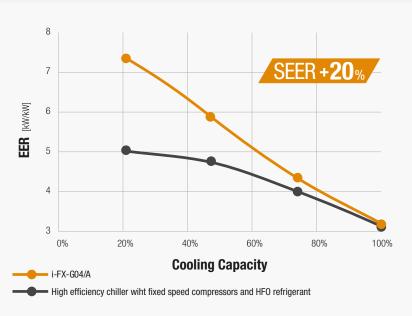




### **FULL INVERTER TECHNOLOGY**



#### HIGHER ENERGY EFFICIENCY



The increase in efficiency compared to high efficiency ErP 2018 compliant fixed speed units is expressed by drawing the EER trend to the conditions defined by the ErP directive 2009/125 /EC necessary for the calculation of SEER seasonal parameters.

#### **ErP 2021 COMPLIANT**



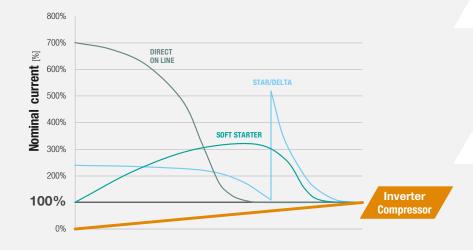
In most of cases, in comfort applications units are working at full load only for a very few hours every year.

This means that most of the time the units are working partialized. In this condition the inverter and variable Vi technology makes the real difference in terms of efficiency, even compared to the latest generation high efficiency fixed speed units.



#### **ABSENCE OF IN-RUSH CURRENTS**

The inverter technology involves a start-up phase with very low in-rush current. The frequency converters chosen by Mitsubishi Electric are characterized by values of Displacement Power Factor of between 0,97 and 0,99.



#### No electrical and mechanical stress

The unit never exceeds the nominal current, not even when starting up.

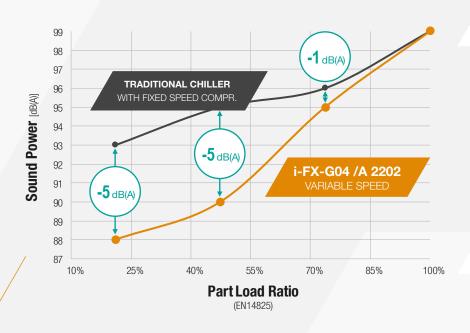
#### No additional equipment needed

Such as star/delta commuters or soft starters in order to reduce the in-rush currents.

The new i-FX-G04 chillers apply variable speed technology in all of its main components, achieving top-level performances in any load condition.



#### **REDUCED SOUND POWER LEVELS**



#### **LOWER SPEED, LOWER NOISE**

The unit working in partial loads is far more silent than a fixed speed compressor unit.

In applications with units working at part load for most of the year, i-FX-G04 ensures extremely low noise operations down to -5dB(A).

#### Ideal for sound sensitive environments

- Museums and Theatres
- ✓ Hospitals
- ✓ Institutions
- ✓ Hotels



#### **FLEXIBLE SELECTION**

The smart design of the units combined with the ELCAWorld selection software allows you to always choose the right unit for every project, prioritizing efficiency, additional future plant demands or reducing the initial investment and the footprint.





# 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.)

#### KIPlink USER INTERFACE

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





#### **Built-in pump group (Opt.)**

Factory-mounted pumps and pre-plumbed hydraulic components, for 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

#### Gas detector device

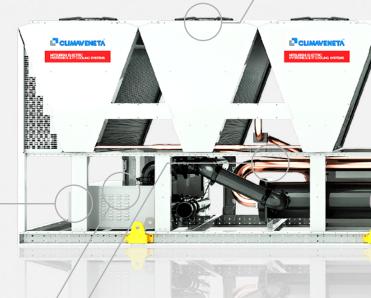
Included as standard for each refrigerant circuit. In case of refrigerant leak detection, this device raises an alarm.

#### Refrigerant circuits

One independent refrigerant circuit per compressor, to grant reliability and easy maintenance. Compressor enclosures are supplied as standard in all versions.

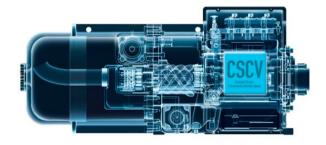
#### Variable speed fans

High performing EC fans, for higher efficiency and continuous speed modulation



## CSCV Compressors Engineered for R1234ze refrigerant

Inverter, Variable Vi dual rotor screw compressors, designed according to Mitsubishi Electric Hydronics & IT Cooling Systems specifications and for its' exclusive use.



Trusted reliability, simplified installation, maximized performance: i-FX-G04 improves the already high performance of the fixed speed chiller range adding new exceptional features.



#### 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 evironments (Opt.)



#### **HFO** refrigerant

4<sup>th</sup> generation refrigerant HFO 1234ze, with negligible greenhouse effect and zero impact on the ozone layer.

#### Negligible GWP

HFO 1234ze GWP<sub>100 year</sub> < 1 (R134a GWP<sub>100 year</sub> = 1300) GWP values according to IPCC rev. 5<sup>th</sup>

Rapid molecule disintegration in the atmosphere

HFO 1234ze = 2 weeks (R134a = 14 years)

Approved by international standards

ASHRAE 34, ISO 817:

A2L classification (non toxic, mildly flammable)

Compatible with common construction materials

No special components

No extra cost

In-line with environmental regulation objectives

No future retrofit required

#### 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

#### **Electrical panel**

Large electrical panel with power circuit components and control main board.

▶ Forced-air cooling system

#### **Variable Speed Drive**

Integrated and compact frequency converter, refrigerant cooled, for outstanding seasonal efficiency and wide capacity regulation.

#### Automatic internal volume ratio adaption

Obtained thanks to an integrated Vi slider which adapts the internal geometry to the current operating condition, thus ensuring the best efficiency.

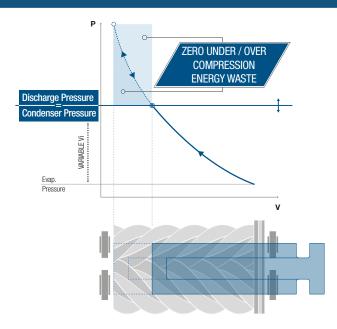
## Extra durability achieved thanks to dedicated components:

- Envelope control function, 3-stage warning and alarm system, safe-torque-off function.
- Carbon steel bearings granted for a lifetime of over 150.000 hours.

#### High efficiency high speed motor

For unprecedented full and part load efficiencies and extremely wide and accurate capacity regulation.

#### **SMART VARIABLE VI LOGIC**





# CORE FEATURES FOR ALL YOUR EQUIPMENT NEEDS

#### W3000TE control and KIPlink innovative interface

The logic behind i-FX-G04 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.



## 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 i-FX-G04 unit.



#### 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.

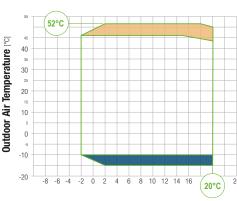


## LED switch

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

In addition (Opt. 1442, 1444) or in substitution (Opt. 6194, 6195) to the KIPlink, i-FX-G04 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).

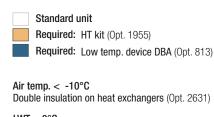
#### **EXTENSIVE OPERATING LIMITS**



#### Leaving Water Temperature [°C]

#### **A VERSION (High Efficiency)**

#### ULL LOAD OPERATION



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

#### PARTIAL LOAD OPERATION

In case of higher outdoor air temperature, i-FX-G04 automatically partializes its resources to ensure uninterrupted operation. Operating limits when working partialized (water \*/7°C):

/A /SL-A 55°C

Climaveneta brand products have always been synonymous for best in class performance and high versatility. This is particularly true for i-FX-G04, the innovative chiller where all the features have been designed for complete customer peace of mind.

#### Hydronic modules and flow controls

i-FX-G04 units come equipped as standard with terminal and modulating signal (0-10V) to control the activation and speed of one external variable speed pump, with the internally developed VPF.E control logic, which adjusts the pump speed on the basis of the plant's thermal load, in order to maintain the defined plant-side  $\Delta T$  (primary circuit).

#### **Factory-mounted pump group**

2 pumps (duty/standby) provide low or high head (available head approx. 100 or 200 kPa)

#### **Fixed speed pumps**

1 pump, 2-pole motor: Opt. 4706 (LH) / 4707 (HH) 2 pump, 2-pole motor: Opt. 4711 (LH) / 4712 (HH) 2 pump, 4-pole motor: Opt. 4708 (LH) / 4709 (HH)

#### Variable speed pumps

1 pump, 2-pole motor: Opt. 4717 (LH) / 4718 (HH) 2 pump, 2-pole motor: Opt. 4722 (LH) / 4723 (HH) 2 pump, 4-pole motor: Opt. 4719 (LH) / 4721 (HH)

#### Terminals for external pump control

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

#### Terminals + Modulating signal

1 pump: Standard 2 pumps: Opt. 4714 These arrangements allow you to control the activation / deactivation of fixed speed pumps too!

#### Other possible variable primary flow control logics:



#### **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

#### **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



### **ACCESSORIES AND SERVICES**

#### **MICROCHANNEL COILS**

Al - Regular (std)

Al - E-coating (Opt. 876)







E-coating process



cleaning



water rinse





Oven bake



**TUBE & FIN COILS** 

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





#### Heresite P-413C \* **RFQ**

Phenolic resin

- ✓ 6000 h ASTM B117
- ✓ UV rays good
- \* Heresite Protective Coating, LLC

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

#### WITNESS TESTING

Test your chiller before installation and make sure its' performance is 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



#### All the flexibility you need to fit the most diverse application requirements

#### **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**

#### Connectivity

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,

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 + compressor off (Opt. 3433): Factory installed device.

#### **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

Rubber type (Opt. 2101) or spring type (Opt. 2102) anti-vibration mountings: Reduce vibrations,

#### **Packing**

Reinforcing bars (Opt. 1971): Steel brackets used to strengthen the unit structure. Suggested in case of long truck transport.

**Nylon packing (Opt. 9966):** i-FX-G04 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): i-FX-G04 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).





#### i-FX-G04 2202 - 7823

Air cooled chillers with inverter screw compressors and HFO refrigerant. From 377 to 1463 kW



-FX-G04 /A			2202	2602	2702	2722	3602	4202	4802
ower supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/5
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1)	kW	382,7	417,9	486,9	534,8	642,0	725,9	843,1
otal power input	(1)	kW	117,7	130,2	147,7	168,4	211,1	237,1	281,3
ER	(1)	kW/kW	3,251	3,210	3,297	3,176	3,041	3,062	2,997
COOLING ONLY (EN14511 VALUE)	(1)	INV/INV	0,201	5,210	5,231	5,176	0,041	0,002	2,001
	(1)(0)	LAM	201 5	416.4	40E 7	E00.0	600.7	700.4	0.41.1
Cooling capacity	(1)(2)	kW	381,5	416,4	485,7	533,2	639,7	723,4	841,1
ER	(1)(2)	kW/kW	3,210	3,160	3,260	3,140	3,000	3,020	2,970
Cooling energy class			А	А	А	А	В	В	В
NERGY EFFICIENCY									
EASONAL EFFICIENCY IN COOLING (Re	eg. EU 2016/2281)								
mbient refrigeration									
rated,c	(7)	kW	382	416	486	533	640	723	841
EER	(7)(8)		5,18	5,26	5,26	5,18	5,09	5,18	5,09
Performance ns	(7)(9)	%	204	207	207	204	201	204	201
XCHANGERS	(1)(3)	/0	204	201	201	204	201	204	201
	OFDATION								
IEAT EXCHANGER USER SIDE IN REFRI		.,	40.00	40.00	00.00	05.50	00.70	0.4.74	40.00
Vater flow	(1)	l/s	18,30	19,98	23,29	25,58	30,70	34,71	40,32
ressure drop	(1)	kPa	35,3	42,1	30,1	36,4	46,1	46,8	30,8
REFRIGERANT CIRCUIT									
Compressors nr.		N°	2	2	2	2	2	2	2
lo. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	63,0	70,0	81,0	86,0	108	124	134
IOISE LEVEL		ng	00,0	7 0,0	01,0	55,0	100	127	104
Jound Pressure	(2)	dB(A)	67	68	68	69	68	70	72
	(3)	. ,							
ound power level in cooling	(4)(5)	dB(A)	99	100	100	101	101	103	105
IZE AND WEIGHT									
ength	(6)	mm	4150	5400	5400	5400	6650	7900	7900
Vidth	(6)	mm	2260	2260	2260	2260	2260	2260	2260
	(0)	mm	2500	2500	2500	2500	2500	2500	2500
leight	(6)	1111111							
leight Iperating weight	(6) (6)	kg	4780	5220	5360	5430	6060	6820	7810
•						5430	6060	6820	7810
perating weight			4780	5220	5360				
Perating weight -FX-G04 /A	(6)	kg	4780 <b>4822</b>	5220 <b>6002</b>	5360 <b>6022</b>	6603	7203	7223	7823
-FX-G04 /A vower supply	(6)		4780	5220	5360				7823
Perating weight -FX-G04 /A	(6)	kg	4780 <b>4822</b>	5220 <b>6002</b>	5360 <b>6022</b>	6603	7203	7223	7823
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-FX-G04 /A -FX-G04 /A	(6)	kg	4780 <b>4822</b>	5220 <b>6002</b>	5360 <b>6022</b>	6603	7203	7223	<b>7823</b> 400/3/5
-FX-G04 /A  Tower supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity	(6)	kg V/ph/Hz kW	4780 4822 400/3/50 915,7	5220 <b>6002</b> 400/3/50 994,1	5360 <b>6022</b> 400/3/50	<b>6603</b> 400/3/50	<b>7203</b> 400/3/50	<b>7223</b> 400/3/50	<b>7823</b> 400/3/5
-FX-G04 /A  lower supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity otal power input	(f) (1) (1)	kg V/ph/Hz kW kW	4780 4822 400/3/50 915,7 305,7	5220 <b>6002</b> 400/3/50 994,1 322,1	5360 <b>6022</b> 400/3/50 1038 340,6	6603 400/3/50 1146 379,0	<b>7203</b> 400/3/50  1280 423,0	<b>7223</b> 400/3/50  1399 471,2	<b>7823</b> 400/3/5 1463 499,3
Poerating weight  -FX-G04 /A  Power supply PERFORMANCE  DOLING ONLY (GROSS VALUE)  Cooling capacity otal power input ER	(6)	kg V/ph/Hz kW	4780 4822 400/3/50 915,7	5220 <b>6002</b> 400/3/50 994,1	5360 <b>6022</b> 400/3/50	<b>6603</b> 400/3/50	<b>7203</b> 400/3/50	<b>7223</b> 400/3/50	<b>7823</b> 400/3/5 1463 499,3
Perating weight  -FX-G04 /A  FX-G04 /A  FX-G04 /A  FX-G04 /A  FX-G0V /A  FX-G	(f) (1) (1) (1)	kg V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995	5220 <b>6002</b> 400/3/50 994,1 322,1 3,086	5360 <b>6022</b> 400/3/50 1038 340,6 3,048	6603 400/3/50 1146 379,0 3,024	<b>7203</b> 400/3/50  1280 423,0 3,026	<b>7223</b> 400/3/50  1399 471,2 2,969	7823 400/3/5 1463 499,3 2,930
Poperating weight  -FX-G04 /A  Power supply  PERFORMANCE  COOLING ONLY (GROSS VALUE)  Cooling capacity  otal power input  EER  COOLING ONLY (EN14511 VALUE)  Cooling capacity	(f) (1) (1) (1) (1)(2)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6	5220 6002 400/3/50 994,1 322,1 3,086 991,0	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035	6603 400/3/50 1146 379,0 3,024 1143	7203 400/3/50 1280 423,0 3,026	<b>7223</b> 400/3/50  1399 471,2 2,969  1394	7823 400/3/5 1463 499,3 2,930
Poperating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLIN	(f) (1) (1) (1)	kg V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035 3,010	6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	7223 400/3/50 1399 471,2 2,969 1394 2,930	7823 400/3/5 1463 499,3 2,930 1458 2,890
Perating weight  -FX-G04 /A  Over supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Otal power input ER COOLING ONLY (EN14511 VALUE) Cooling capacity ER Cooling capacity ER Cooling energy class	(f) (1) (1) (1) (1)(2)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6	5220 6002 400/3/50 994,1 322,1 3,086 991,0	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035	6603 400/3/50 1146 379,0 3,024 1143	7203 400/3/50 1280 423,0 3,026	<b>7223</b> 400/3/50  1399 471,2 2,969  1394	7823 400/3/5 1463 499,3 2,930
Poperating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLIN	(f) (1) (1) (1) (1)(2)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035 3,010	6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	7223 400/3/50 1399 471,2 2,969 1394 2,930	7823 400/3/5 1463 499,3 2,930 1458 2,890
Perating weight  -FX-G04 /A  Over supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Otal power input ER COOLING ONLY (EN14511 VALUE) Cooling capacity ER Cooling capacity ER Cooling energy class	(1) (1) (1) (1) (1)(2) (1)(2)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035 3,010	6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	7223 400/3/50 1399 471,2 2,969 1394 2,930	7823 400/3/5 1463 499,3 2,930 1458 2,890
Poerating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE) POOLING ONLY (GROSS VALUE) POOLING ONLY (EN14511 VALUE) POOLING ONLY (EN14511 VALUE) POOLING CAPACITY POOLING C	(1) (1) (1) (1) (1)(2) (1)(2)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035 3,010	6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	7223 400/3/50 1399 471,2 2,969 1394 2,930	7823 400/3/5 1463 499,3 2,930 1458 2,890
Poerating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE) POOLING ONLY (EN14511 VALUE) POOLING ONLY (EN14511 VALUE) POOLING EASONAL EFFICIENCY PERSONAL EFFICIENCY IN COOLING (Reunbient refrigeration)	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281)	kg V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360 <b>6022</b> 400/3/50 1038 340,6 3,048 1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/8 1463 499,3 2,930 1458 2,890 B
Poperating weight  -FX-G04 /A  FX-G04 /A  FX-G04 /A  FX-G04 /A  FX-G00LING ONLY (GROSS VALUE)  FX-G00LING ONLY (GROSS VALUE)  FX-G00LING ONLY (EN14511 VALUE)  FX-G00LING CAPACITY  FX-G00LING ENTRY  FX-G00LING E	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7)	V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/8 1463 499,3 2,930 1458 2,890 B
Poerating weight  -FX-G04 /A  FX-G04 /A  FX-GOUP SUPPLY  FX-FRORMANCE  FX-COOLING ONLY (GROSS VALUE)  FX-COOLING ONLY (EN14511 VALUE)  FX-COOLING ONLY (EN14511 VALUE)  FX-COOLING CAPACITY  FX-COOLING ENERGY EFFICIENCY  FX-FRORMAN EFFICIENCY IN COOLING (Resumblent refrigeration trated, collected)	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8)	kg V/ph/Hz kW kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7825 400/3/8 1463 499,3 2,930 1458 2,890 B
Perating weight  -FX-G04 /A  FX-G04 /A  FX-G04 /A  FX-GOUP STATE OF THE PROOF OF TH	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7)	kg V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7825 400/3/8 1463 499,3 2,930 1458 2,890 B
Poperating weight  -FX-G04 /A  Power supply PERFORMANCE PROOLING ONLY (GROSS VALUE)  PROOLING ONLY (EN14511 VALUE)  PROOLING ONLY (EN14511 VALUE)  PROOLING CAPACITY  PROOLING PROOLING (Recomplete or complete or	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9)	kg V/ph/Hz kW kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7825 400/3/8 1463 499,3 2,930 1458 2,890 B
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  COOLING ONLY (GROSS VALUE)  COOLING ONLY (EN14511 VALUE)  COOLING ONLY	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(9) GERATION	kg V/ph/Hz kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7825 400/3/8 1463 499,3 2,930 1458 2,890 B
Perating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE)  Cooling capacity POOLING ONLY (EN14511 VALUE)  Cooling capacity PER  POOLING ONLY (EN14511 VALUE)  Cooling capacity PER  POOLING ONLY (EN14511 VALUE)  COOLING ORDER  PERFORMANCE FICIENCY IN COOLING (Rembient refrigeration rated, c  PEEER  PETOT MANGER S  PETOT MANGER USER SIDE IN REFRICATE EXCHANGERS  PETOT MANGER USER SIDE IN REFRICATE EXCHANGER USER SIDE	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 913 5,06 199	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 991 5,13 202	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197
Perating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE)  Cooling capacity POOLING ONLY (EN14511 VALUE)  Cooling capacity PER  POOLING ONLY (EN14511 VALUE)  Cooling capacity PER  POOLING ONLY (EN14511 VALUE)  COOLING ORDER  PERFORMANCE FICIENCY IN COOLING (Rembient refrigeration rated, c  PEEER  PETOT MANGER S  PETOT MANGER USER SIDE IN REFRICATE EXCHANGERS  PETOT MANGER USER SIDE IN REFRICATE EXCHANGER USER SIDE	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(9) GERATION	kg V/ph/Hz kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/5 1463 499,3 2,930 1458 2,890 B
Perating weight  -FX-G04 /A  tower supply ERFORMANCE  COOLING ONLY (GROSS VALUE) COOLING ONLY (EN14511 VALUE) COOLING ONLY (EN14511 VALUE) COOLING CAPACITY ER  COOLING EASONAL EFFICIENCY EASONAL EFFICIENCY IN COOLING (Rembient refrigeration rated, c EER EET EXCHANGERS  EAT EXCHANGER USER SIDE IN REFRICATION  Vater flow Vater flow Verssure drop	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 913 5,06 199	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 991 5,13 202	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200	6603 400/3/50 1146 379,0 3,024 1143 2,990 B	7203 400/3/50 1280 423,0 3,026 1276 2,990 B	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197
perating weight  -FX-G04 /A  ower supply  ERFORMANCE  OOLING ONLY (GROSS VALUE)  ooling capacity otal power input  ER  OOLING ONLY (EN14511 VALUE)  ooling capacity  ER  ooling energy class  NERGY EFFICIENCY  EASONAL EFFICIENCY IN COOLING (Rembient refrigeration rated, c  EER  erformance ηs  XCHANGERS  EAT EXCHANGER USER SIDE IN REFRICATE flow  ressure drop  EFRIGERANT CIRCUIT	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 913 5,06 199	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199	7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7823 400/3/8 1463 499,3 2,930 1458 2,890 B 1458 5,00 197
Perating weight  -FX-G04 /A  ower supply ERFORMANCE  OOLING ONLY (GROSS VALUE)  cooling capacity ooling capacity ER  OOLING ONLY (EN14511 VALUE)  cooling capacity ER  cooling energy class  NERGY EFFICIENCY EASONAL EFFICIENCY IN COOLING (Rembient refrigeration rated, c EER  erformance ns  XCHANGERS  IEEAT EXCHANGER USER SIDE IN REFRICATION TO THE STREET OF THE STRE	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 913 5,06 199 43,79 47,0	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199	7823 400/3/8 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3
Perating weight  -FX-G04 /A  FX-G04 /A  FOWER SUPPLY  PERFORMANCE  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  PER  POOLING PER  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  PER  POOLING CAPACITY  PER  POOLING PER  PER  PER  PER  PER  PER  PER  PER	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8 2 2	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7825 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3
Perating weight  -FX-G04 /A  FX-G04 /A  FOWER SUPPLY  FERFORMANCE  FOOLING ONLY (GROSS VALUE)  FOOLING ONLY (EN14511 VALUE)  FOOLING ONLY (EN14511 VALUE)  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FERFORMANCE  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING (Remains)  FOOLI	(6) (1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 913 5,06 199 43,79 47,0	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199	7823 400/3/8 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  COOLING ONLY (GROSS VALUE)  COOLING ONLY (GROSS VALUE)  COOLING ONLY (EN14511 VALUE)  COOLING ONLY (E	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9)  GERATION (1) (1)	kg V/ph/Hz kW kW/kW kW/kW  kW kW/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0 2 2 139	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189	7203 400/3/50  1280 423,0 3,026  1276 2,990 B  1276 5,04 199  61,21 40,8  3 3 195	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 3 218
Perating weight  -FX-G04 /A  Power supply PERFORMANCE POOLING ONLY (GROSS VALUE)  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING ORDER  POOLING ORDER  PERFORMANCE ORDER  PE	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (8) (7)(8) (7)(9)  GERATION (1) (1) (1)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW dw/kW kW/kW kW/kW dw/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0  2 2 139	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171  72	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3 195	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7825 400/3/8 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 218
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING EASONAL EFFICIENCY IN COOLING (Resumbient refrigeration rated, color of the color of	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9)  GERATION (1) (1)	kg V/ph/Hz kW kW/kW kW/kW  kW kW/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0 2 2 139	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189	7203 400/3/50  1280 423,0 3,026  1276 2,990 B  1276 5,04 199  61,21 40,8  3 3 195	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7825 400/3/8 1463 499,3 2,930 1458 2,890 8 1458 5,00 197 69,95 53,3 3 3 218
Perating weight  -FX-G04 /A  FX-G04 /A  FOWER SUPPLY  FERFORMANCE  FOOLING ONLY (GROSS VALUE)  FOOLING ONLY (EN14511 VALUE)  FOOLING ONLY (EN14511 VALUE)  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FERFORMANCE  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING CAPACITY  FOOLING (Remains)  FOOLI	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (8) (7)(8) (7)(9)  GERATION (1) (1) (1)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW dw/kW kW/kW kW/kW dw/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0  2 2 139	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171  72	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3 195	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 3 218
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPAC	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)  GERATION (1) (1) (3) (4)(5)	kg V/ph/Hz kW kW kW/kW kW/kW kW/kW dw/kW kW/kW kW/kW dw/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0  2 2 139	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171  72	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3 195	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 3 218
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING ONLY	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)  GERATION (1) (1) (1) (3) (4)(5) (6)	kg V/ph/Hz kW kW kW/kW kW/kW  KW kW/kW  M  M  M  M  M  M  M  M  M  M  M  M  M	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0 2 2 139 72 105 9150	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8 2 2 167 72 105 10400	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171  72 105  10400	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189 72 105 11650	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3 195 72 105	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7 3 3 203 73 106	7825 400/3/8 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 218 73 106
Perating weight  -FX-G04 /A  Power supply PERFORMANCE  POOLING ONLY (GROSS VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING ONLY (EN14511 VALUE)  POOLING ONLY (EN14511 VALUE)  POOLING CAPACITY  POOLING CAPAC	(6) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)  GERATION (1) (1) (3) (4)(5)	kg V/ph/Hz kW kW kW/kW kW/kW  KW kW/kW  dW kW/kW	4780  4822  400/3/50  915,7 305,7 2,995  912,6 2,960 B  913 5,06 199  43,79 47,0 2 2 139 72 105	5220  6002  400/3/50  994,1 322,1 3,086  991,0 3,050 A  991 5,13 202  47,54 42,8  2 2 167 72 105	5360  6022  400/3/50  1038 340,6 3,048  1035 3,010 A  1035 5,09 200  49,65 43,8  2 2 171 72 105	6603 400/3/50 1146 379,0 3,024 1143 2,990 B 1143 5,11 201 54,79 40,1 3 3 189 72 105	7203 400/3/50 1280 423,0 3,026 1276 2,990 B 1276 5,04 199 61,21 40,8 3 3 195 72 105	7223 400/3/50 1399 471,2 2,969 1394 2,930 B 1394 5,04 199 66,89 48,7 3 3 203	7823 400/3/5 1463 499,3 2,930 1458 2,890 B 1458 5,00 197 69,95 53,3 3 3 218

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.

<sup>6</sup> 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 HF0-1234ze [GWP₁₀₀ 7]
fluorinated greenhouse gases.
Certified data in EUROVENT



i-FX-G04 /SL-A





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	377,2	421,3	480,7	527,2	633,2	718,2	832,9
Total power input	(1)	kW	116,8	125,4	145,9	167,1	207,2	234,4	269,9
EER	(1)	kW/kW	3,229	3,360	3,295	3,155	3,056	3,064	3,086
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2)	kW	376,1	419,8	479,5	525,7	631,0	715,7	830,5
EER	(1)(2)	kW/kW	3,190	3,310	3,260	3,120	3,010	3,020	3,050
Cooling energy class			А	А	А	А	В	В	А
ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration	eg. EU 2016/2281)	1							
Prated,c	(7)	kW	376	420	480	526	631	716	830
SEER	(7)	KVV							
	(7)(8)	0/	5,18	5,32	5,26	5,18	5,09	5,19	5,21
Performance ηs	(7)(9)	%	204	210	207	204	201	205	205
EXCHANGERS	OFDATION								
HEAT EXCHANGER USER SIDE IN REFRI		1/0	10.04	20.15	22.00	05.01	20.20	04.04	20.02
Water flow	(1)	l/s	18,04	20,15	22,99	25,21	30,28	34,34	39,83
Pressure drop	(1)	kPa	34,3	42,8	29,4	35,3	44,8	45,9	38,9
REFRIGERANT CIRCUIT		NIO	2	0	0	0	0	0	0
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	63,0	73,0	81,0	86,0	108	124	134
NOISE LEVEL	(0)	JD(A)	00	04	04	00	04	00	00
Sound Pressure	(3)	dB(A)	60	61	61	62	61	63	63
Sound power level in cooling	(4)(5)	dB(A)	92	93	93	94	94	96	96
SIZE AND WEIGHT									
Length	(6)	mm	4150	5400	5400	5400	6650	7900	9150
Width	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Height	(6)	mm	2500	2500	2500	2500	2500	2500	2500
		l.o.	5020	5600	5680	5760	6390	7160	8400
Operating weight	(6)	kg	3020						
Operating weight	(6)	ку	3020						
	(6)	ку				6603	7203	7223	7823
i-FX-G04 /SL-A	(6)		4822	6002	6022	<b>6603</b>	<b>7203</b> 400/3/50	<b>7223</b> 400/3/50	<b>7823</b>
i-FX-G04 /SL-A Power supply	(6)	V/ph/Hz				<b>6603</b> 400/3/50	<b>7203</b> 400/3/50	<b>7223</b> 400/3/50	<b>7823</b> 400/3/50
i-FX-G04 /SL-A Power supply PERFORMANCE	(6)		4822	6002	6022				
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE)		V/ph/Hz	<b>4822</b> 400/3/50	<b>6002</b> 400/3/50	<b>6022</b> 400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity	(1)	V/ph/Hz	<b>4822</b> 400/3/50	<b>6002</b> 400/3/50 972,2	<b>6022</b> 400/3/50	400/3/50	400/3/50 1262	400/3/50 1391	400/3/50 1458
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input	(1) (1)	V/ph/Hz	<b>4822</b> 400/3/50 902,8 303,4	<b>6002</b> 400/3/50 972,2 318,4	6022 400/3/50 1024 337,4	400/3/50 1141 376,1	400/3/50 1262 416,2	400/3/50 1391 468,8	400/3/50 1458 499,7
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER	(1)	V/ph/Hz	<b>4822</b> 400/3/50	<b>6002</b> 400/3/50 972,2	<b>6022</b> 400/3/50	400/3/50	400/3/50 1262	400/3/50 1391	400/3/50 1458
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE)	(1) (1) (1)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976	6002 400/3/50 972,2 318,4 3,053	6022 400/3/50 1024 337,4 3,035	400/3/50 1141 376,1 3,034	400/3/50 1262 416,2 3,032	400/3/50 1391 468,8 2,967	400/3/50 1458 499,7 2,918
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity	(1) (1) (1) (1)(2)	V/ph/Hz  kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8	6002 400/3/50 972,2 318,4 3,053 969,3	6022 400/3/50 1024 337,4 3,035	400/3/50 1141 376,1 3,034 1138	400/3/50 1262 416,2 3,032 1258	1391 468,8 2,967	1458 499,7 2,918
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER	(1) (1) (1)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940	6002 400/3/50 972,2 318,4 3,053 969,3 3,020	6022 400/3/50 1024 337,4 3,035 1021 3,000	400/3/50 1141 376,1 3,034 1138 3,000	400/3/50 1262 416,2 3,032 1258 3,000	400/3/50 1391 468,8 2,967 1386 2,930	1458 499,7 2,918 1455 2,890
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class	(1) (1) (1) (1)(2)	V/ph/Hz  kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8	6002 400/3/50 972,2 318,4 3,053 969,3	6022 400/3/50 1024 337,4 3,035	400/3/50 1141 376,1 3,034 1138	400/3/50 1262 416,2 3,032 1258	1391 468,8 2,967	1458 499,7 2,918
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY	(1) (1) (1) (1)(2) (1)(2)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940	6002 400/3/50 972,2 318,4 3,053 969,3 3,020	6022 400/3/50 1024 337,4 3,035 1021 3,000	400/3/50 1141 376,1 3,034 1138 3,000	400/3/50 1262 416,2 3,032 1258 3,000	400/3/50 1391 468,8 2,967 1386 2,930	1455 2,890
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re	(1) (1) (1) (1)(2) (1)(2)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940	6002 400/3/50 972,2 318,4 3,053 969,3 3,020	6022 400/3/50 1024 337,4 3,035 1021 3,000	400/3/50 1141 376,1 3,034 1138 3,000	400/3/50 1262 416,2 3,032 1258 3,000	400/3/50 1391 468,8 2,967 1386 2,930	1455 2,890
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING eergy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Readmitted or supplied or suppli	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Real Ambient refrigeration Prated,c	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	1391 468,8 2,967 1386 2,930 B	1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (ReAmbient refrigeration Prated,c SEER	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	400/3/50 1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING onley (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (ReAmbient refrigeration Prated, c. SEER Performance ns	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	1391 468,8 2,967 1386 2,930 B	1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Readmitter) Ambient refrigeration Prated, c SEER Performance ns EXCHANGERS	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	400/3/50 1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) EER COoling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Read) Ambient refrigeration Prated, c SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9)	V/ph/Hz kW kW kW/kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) EER COoling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Read) Ambient refrigeration Prated, c SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz kW kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201	400/3/50 1141 376,1 3,034 1138 3,000 B	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201	400/3/50 1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated, c SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION	V/ph/Hz kW kW kW/kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A	1141 376,1 3,034 1138 3,000 B	400/3/50 1262 416,2 3,032 1258 3,000 B	1391 468,8 2,967 1386 2,930 B	400/3/50 1458 499,7 2,918 1455 2,890 B
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated, c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz kW kW kW/kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201	400/3/50 1141 376,1 3,034 1138 3,000 B 1138 5,12 202	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201	1391 468,8 2,967 1386 2,930 B 1386 5,10 201	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197
I-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) COOling capacity EER COOLING ONLY (EN14511 VALUE) COOLING ONLY (EN14511 VALUE) COOLING COOLING (Re Ambient refrigeration Prated, c SEER Performance np EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz kW kW kW/kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B	972,2 318,4 3,053 969,3 3,020 A	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201	400/3/50 1141 376,1 3,034 1138 3,000 B 1138 5,12 202	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201	1391 468,8 2,967 1386 2,930 B 1386 5,10 201	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz kW kW kW/kW kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7	972.2 318,4 3,053 969,3 3,020 A 969 5,12 202	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6	400/3/50  1141 376,1 3,034  1138 3,000 B  1138 5,12 202  54,56 39,7	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7	1391 468,8 2,967 1386 2,930 B 1386 5,10 201	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197 69,70 30,9
I-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated, c SEER Performance \(\text{n}\) EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors \(\text{nr}\). No. Circuits	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz  kW kW kW/kW  kW/kW  kW/kN	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7	1391 468,8 2,967 1386 2,930 B 1386 5,10 201	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197 69,70 30,9 3
I-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Reambient refrigeration Prated, c SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow PREFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz  kW kW kW/kW  kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7	972.2 318,4 3,053 969,3 3,020 A 969 5,12 202	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6	400/3/50  1141 376,1 3,034  1138 3,000 B  1138 5,12 202  54,56 39,7 3	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7	1391 468,8 2,967 1386 2,930 B 1386 5,10 201	400/3/50 1458 499,7 2,918 1455 2,890 B 1455 5,01 197 69,70 30,9
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz  kW kW/kW  kW/kW  kW/kR  kW  %	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7	1391 468,8 2,967 1386 2,930 B 1386 5,10 201 66,50 48,1	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9  3 3 223
i-FX-G04 /SL-A Power supply PerFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated, c. SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1) (1)	V/ph/Hz  kW kW kW/kW  kW/kW  kW  kW  dW  dB(A)	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202 46,49 40,9 2 2 167	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171 63	400/3/50  1141 376,1 3,034  1138 3,000 B  1138 5,12 202  54,56 39,7  3 3 189  63	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7  3 3 204	1391 468,8 2,967 1386 2,930 B 1386 5,10 201 66,50 48,1 3 3 213	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9  3 3 223
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling capacity EER Cooling energy class EMERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated, c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1)	V/ph/Hz  kW kW/kW  kW/kW  kW/kR  kW  %	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7	1391 468,8 2,967 1386 2,930 B 1386 5,10 201 66,50 48,1	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9  3 3 223
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	(1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1) (1)	V/ph/Hz  kW kW kW/kW  kW/kW  KW/kW  dW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139 63 96	6002 400/3/50 972,2 318,4 3,053 969,3 3,020 A 969 5,12 202 46,49 40,9 2 2 167 63 96	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171 63 96	400/3/50  1141 376,1 3,034  1138 3,000 B  1138 5,12 202  54,56 39,7  3 3 189 63 96	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7  3 3 204 63 96	400/3/50  1391 468,8 2,967  1386 2,930 B  1386 5,10 201  66,50 48,1  3 3 213 64 97	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9 3 3 223 64 97
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated,c SEER Performance ns EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT Length	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1) (1) (1)	V/ph/Hz  kW kW kW/kW  kW/kW  kW/kW  M  Graph of the control of the	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139 63 96	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202 46,49 40,9 2 2 167 63 96	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171 63 96 10400	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7 3 189 63 96	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7 3 204 63 96	400/3/50  1391 468,8 2,967  1386 2,930 B  1386 5,10 201  66,50 48,1 3 3 213 64 97	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9 3 3 223 64 97
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER Cooling capacity EER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN COOLING (Re Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound Pressure Sound power level in cooling SIZE AND WEIGHT Length Width	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1) (1) (1)	V/ph/Hz  kW kW/kW  kW/kW  kW/kW  kW/kW  dW/kW  kW/kW	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139 63 96 9150 2260	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202 46,49 40,9 2 2 167 63 96	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171 63 96 10400 2260	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7 3 189 63 96	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7 3 204 63 96  12900 2260	400/3/50  1391 468,8 2,967  1386 2,930 B  1386 5,10 201  66,50 48,1  3 3 213  64 97  12900 2260	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9 3 223 64 97  12900 2260
i-FX-G04 /SL-A Power supply PERFORMANCE COOLING ONLY (GROSS VALUE) Cooling capacity Total power input EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) Cooling capacity EER COOLING ONLY (EN14511 VALUE) COOLING ONLY (EN14511 VALUE) COOLING COOLING (REAL COOLING	(1) (1) (1) (1)(2) (1)(2) eg. EU 2016/2281) (7) (7)(8) (7)(9) GERATION (1) (1) (1)	V/ph/Hz  kW kW kW/kW  kW/kW  kW/kW  M  Graph of the control of the	4822 400/3/50 902,8 303,4 2,976 899,8 2,940 B 900 5,06 199 43,17 45,7 2 2 139 63 96	972,2 318,4 3,053 969,3 3,020 A 969 5,12 202 46,49 40,9 2 2 167 63 96	6022 400/3/50 1024 337,4 3,035 1021 3,000 A 1021 5,10 201 48,96 42,6 2 2 171 63 96 10400	1141 376,1 3,034 1138 3,000 B 1138 5,12 202 54,56 39,7 3 189 63 96	400/3/50  1262 416,2 3,032  1258 3,000 B  1258 5,11 201  60,35 39,7 3 204 63 96	400/3/50  1391 468,8 2,967  1386 2,930 B  1386 5,10 201  66,50 48,1 3 3 213 64 97	400/3/50  1458 499,7 2,918  1455 2,890 B  1455 5,01 197  69,70 30,9 3 3 223 64 97

- 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 HF0-1234ze [GWP₁₀₀ 7]
  fluorinated greenhouse gases.
  Certified data in EUROVENT



## "BY FAR THE BEST PROOF IS EXPERIENCE"

Sir Francis Bacon

British philosopher (1561 - 1626)



#### **GABBANA**

017 Windhof - Luxembourg

Office buildings

Cooling capacity: 386 kW Installed machines:

1x FX-FC HFO/NG/SL-T+/S screw compressor chiller with HFO refrigerant





#### Soclima

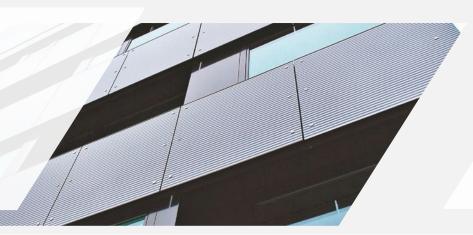
2017 Foetz - Luxembourg

Office building

Cooling capacity: 1016 kW Installed machines:

1x FOCS2-W HFO screw compressor chiller with HFO refrigerant, 1x TECS2-W HFO oil-free compressor

chiller with HFO refrigerant



Every project is characterised by different needs and system specifications for various climates. All these projects share high energy efficiency, maximum integration, and total reliability resulting from the Climaveneta brand experience.



#### Siemens

2017 Zurich - Switzerland

Office Building

Cooling capacity: 1015 kW Heating capacity: 1340 kW Installed machines:

2x FOCS2-W HFO screw compressor chillers with HFO refrigerant



#### **Hotel Atlantic**

2017 Stavanger - Norway

Hotel and resorts

Cooling capacity: 675 kW Installed machines:

2x FOCS2-W HFO screw compressor chillers with HFO refrigerant



#### Genève Plage

2015 Geneve - Switzerland

Sport structures

Heating capacity: 700 kW Installed machines:

2x TECS2-W HFO oil-free compressor chillers with HFO refrigerant









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.

## MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.

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