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





i-FR-G04-Z

THE FUTURE-PROOF CHILLER FOR GREEN EFFICIENCY

EER* up to 4,10

SEPR HT up to 6,43

*EER conditions: evap. 26/18°C, air 35°C







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

i-FR-G04-Z is the eco-friendly and high performing chiller that matches the advantages of full inverter technology with environmental benefits of HFO green refrigerant.

Dedicated to rapidly changing data centers, i-FR-G04-Z air cooled chiller strives to reduce running costs while ensuring complete infrastructure dependability.

LEADING INVERTER TECHNOLOGY



The new i-FR-G04-Z 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-FR-G04-Z 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.

COOLING DEPENDABILITY



Designed for continuous operation, i-FR-G04-Z meets the needs of an industry that cannot afford cooling interruptions. Bespoke devices and and functions maximize the unit uptime even in case of emergency circumstances.

ACOUSTIC VERSIONS

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

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

T HFO 1234ze

i-FR-G04-Z 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).

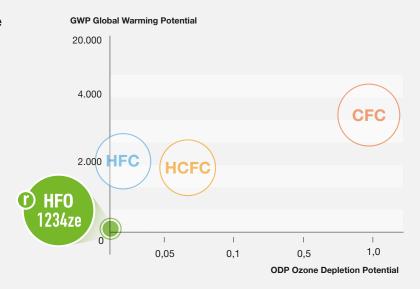
Fully committed to support the creation of a greener tomorrow, Mitsubishi Electric Hydronics & IT Cooling Systems designed i-FR-G04-Z, a complete chiller range optimized for HFO refrigerant R1234ze, with nearly zero environmental impact.

Combining brilliant annual efficiency with the use of a low GWP refrigerant, i-FR-G04-Z 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

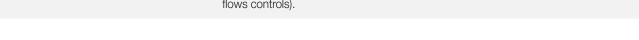


Always the right solution for every project thanks to many specifically developed versions and a bespoke list of options (e.g. the integrated hydronic modules, several water flows controls).

EXTENDED OPERATING RANGE



Wide operating range, working with outdoor air temperatures from -20°C up to +55°C thanks to specifically developed options and smart control logics.

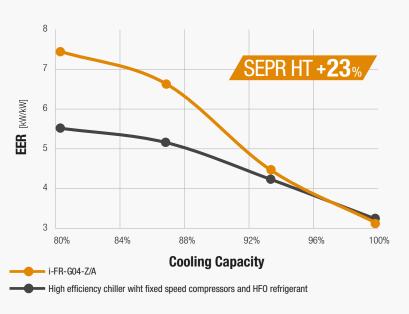




FULL INVERTER TECHNOLOGY



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 SEPR HT seasonal parameters.

ErP 2021 COMPLIANT



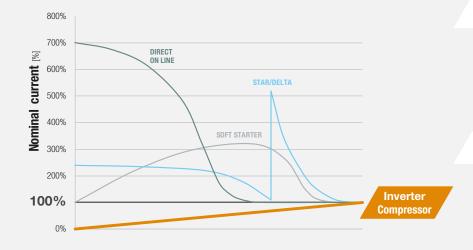
IT environments are usually characterized by high thermal loads, all year round.

Even in high load profile applications, i-FR-G04-Z ensures significant efficiency improvement compared to traditional fixed speed compressor 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-FR-G04-Z 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-FR-G04-Z ensures extremely low noise operations down to -5dB(A).

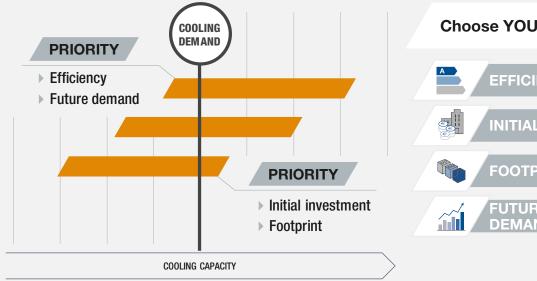
Ideal for sound sensitive environments located nearby

- Offices
- Meeting rooms



FLEXIBLE SELECTION

The smart design of the units combined with 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.



Choose YOUR target





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

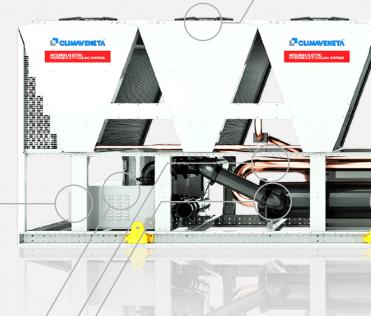
Included as standard for each refrigerant circuit. In case of refrigerant leak detection, this device raises an alarm.

Refrigerant circuits

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

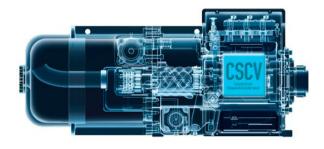
Variable speed fans

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



CSCV CompressorsEngineered 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-FR-G04-Z 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

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

Negligible GWP

HFO 1234ze GWP_{100 year} < 1 (R134a GWP_{100 year} = 1300) GWP values according to IPCC rev. 5th

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.

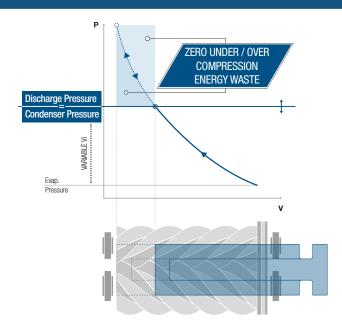
Extra durability achieved thanks to dedicated components:

- 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-FR-G04-Z 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-FR-G04-Z unit.

Same and the same

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.



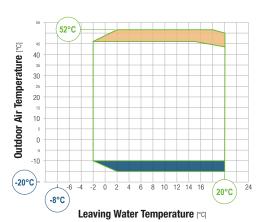
LED switch

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-FR-G04-Z 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).

Standard unit

EXTENSIVE OPERATING LIMITS



A VERSION (High Efficiency)

FULL LOAD OPERATION PA

Required: HT kit (Opt. 1955)

Required: Low temp. device DBA (Opt. 813)

Air temp. < -10°C

Double insulation on heat exchangers (Opt. 2631)

LWT < 0°CCompressor liquid injection (Opt. 871)

PARTIAL LOAD OPERATION

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

/A /SL-A 55°C

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

Hydronic modules and flow controls

i-FR-G04-Z units come equipped as standard with terminal and modulating signal (0-10V) to control the activation and speed of one external variable speed pump, and with a parameter set constant water control to set the pump speed. This latest arrangement is particularly useful during the installation and commisioning to adjust water flow and the pressure head according to the current plant characteristics.

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 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

VPF.E: constant ΔT

For systems with only the primary circuit and terminals with bypass. Opt. 4869

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)







cleaning









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



EQUIPMENT FOR MISSION CRITICAL APPLICATIONS

Committed to ensure the highest standards of reliability, i-FR-G04-Z includes a full range of devices and functions that maximize unit's uptime in case of emergency circumstances.

FAST RESTART

Ensures a **faster return to the necessary cooling** levels in the shortest time possible, while maintaining the **reliability** of the chiller.





Have the unit running at full load in a shorter time

A 2-cpr unit in standard working conditions delivers 100% of cooling capacity within 180" after power is restored.

Fast restart - UPS excluded (Opt.4501)

This option requires an external 230V AC UPS, not supplied with the unit, to keep the on-board controller functional and ensure fast restart after a power outage.

Fast restart - UPS included (Opt. 4502)

This option includes an electric device capable of keeping the controller power supply uninterrupted during a power failure. The capacity of this device is selected on the basis of the needs of a specific project.

DOUBLE POWER SUPPLY



Redundancy increases uptime. i-FR-G04-Z extends this concept also to the electrical supply: the unit, equipped with an ATS*, can be connected to two separate power lines to enhance the system's dependability.

In case of a main line power outage, the ATS* automatically switches over to the backup line, granting uninterrupted power supply to the unit. The double power supply makes i-FR-G04-Z suitable for Uptime Institute's TIER III and TIER IV** design topologies, the highest standards of reliability.

- * ATS: Automatic Transfer Switch
- ** The Tier Classification System provides the data center industry with a consistent method to compare typically unique facilities based on expected site infrastructure performance, or uptime.

Double power supply (ATS) (Opt. 1561)

The ATS, installed within the electrical board, automatically senses if one of the sources has lost or gained power. The switching is completely automatic (line priority and frequency of checking are selectable).

Double power supply (Motorized changeover) (Opt. 1562)

The motorized changeover, installed within the electrical board, is with remote control (i.e. signal of generator start-up).

ENERGY METER

You can't manage what you don't measure.

PUE (Power usage effectiveness) is the ratio that determines how energy efficient data centers are comparing the power currently used for the IT equipment with the power used by the infrastructure which keeps that IT equipment working, including the cooling system. Energy meter option to acquire the electrical data and the power absorbed by the unit and send them to the supervisor for energy metering.







i-FR-G04-Z 2202 - 7823

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



-FR-G04-Z /A			2202	2602	2702	2722	3602	4202	480
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
ERFORMANCE									
OOLING ONLY (GROSS VALUE)	(4)	kW	202.7	417.0	406.0	E04.0	640.0	705.0	0.40.1
ooling capacity otal power input	(1) (1)	kW	382,7 117,7	417,9 130,2	486,9 147,7	534,8 168,4	642,0 211,1	725,9 237,1	843,1 281,3
ER	(1)	kW/kW	3,251	3,210	3,297	3,176	3,041	3,062	2,997
OOLING ONLY (EN14511 VALUE)	(1)	NVV/NVV	3,231	3,210	5,291	3,170	3,041	3,002	2,331
ooling 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
ooling energy class	(./(=/		Α	Α	Α	A	В	В	В.
EPR	(3)(4)		6,18	6,15	6,26	5,99	5,93	6,39	5,85
OOLING ONLY (GROSS VALUE)	()()		,	,	,	,	,	,	,
6°C/10°C									
ooling capacity	(5)	kW	420,4	458,8	536,3	587,8	707,3	797,1	929,
otal power input	(5)	kW	122,5	135,3	153,6	175,3	218,7	243,9	287,
ER	(5)	kW/kW	3,432	3,391	3,492	3,353	3,234	3,268	3,23
3°C/15°C									
ooling capacity	(6)	kW	484,3	528,2	620,4	677,5	818,9	917,8	1077
otal power input	(6)	kW	130,0	143,1	162,8	186,3	231,1	254,4	294,
ER	(6)	kW/kW	3,725	3,691	3,811	3,637	3,543	3,608	3,65
(CHANGERS	OFD ATION								
EAT EXCHANGER USER SIDE IN REFRI		17-	10.00	10.00	00.00	05.50	00.70	0.4.74	40.0
ater flow	(1)	l/s	18,30	19,98	23,29	25,58	30,70	34,71	40,3
essure drop EFRIGERANT CIRCUIT	(1)(2)	kPa	35,3	42,1	30,1	36,4	46,1	46,8	30,8
ompressors nr.		N°	2	2	2	2	2	2	2
ompressors nr. o. Circuits		N°	2	2	2	2	2	2	2
ofrigerant charge		kg	63,0	70,0	81,0	86,0	108	124	134
DISE LEVEL		ny	00,0	70,0	01,0	00,0	100	124	134
ound Pressure	(7)	dB(A)	67	68	68	69	68	70	72
ound power level in cooling	(8)(9)	dB(A)	99	100	100	101	101	103	105
ZE AND WEIGHT	(5)(5)	45(1)	00	100	100			100	.00
ngth	(10)	mm	4150	5400	5400	5400	6650	7900	790
idth	(10)	mm	2260	2260	2260	2260	2260	2260	226
eight	(10)	mm	2500	2500	2500	2500	2500	2500	2500
		1111111	2000	2300	2300	2000	2000		
perating weight	(10)	kg	4780	5220	5360	5430	6060	6820	
			4780	5220	5360	5430	6060	6820	7810
-FR-G04-Z /A									7810 782
-FR-G04-Z /A ower supply		kg	4780 4822	5220 6002	5360 6022	5430 6603	6060 7203	6820 7223	7810 782
perating weight -FR-G04-Z /A		kg	4780 4822	5220 6002	5360 6022	5430 6603	6060 7203	6820 7223	7810 782
FR-G04-Z /A ower supply ERFORMANCE		kg	4780 4822	5220 6002	5360 6022	5430 6603	6060 7203	6820 7223	7810 782 400/3/
FR-G04-Z /A ower supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity	(10)	kg V/ph/Hz	4780 4822 400/3/50	5220 6002 400/3/50	5360 6022 400/3/50	5430 6603 400/3/50	6060 7203 400/3/50	6820 7223 400/3/50	7810 782 400/3/
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input	(10)	kg V/ph/Hz kW	4780 4822 400/3/50 915,7	5220 6002 400/3/50 994,1	5360 6022 400/3/50	5430 6603 400/3/50	7203 400/3/50	6820 7223 400/3/50	7810 782 400/3/ 1460 499,
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input ER	(10)	kg V/ph/Hz kW kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995	5220 6002 400/3/50 994,1 322,1 3,086	5360 6022 400/3/50 1038 340,6 3,048	5430 6603 400/3/50 1146 379,0 3,024	6060 7203 400/3/50 1280 423,0 3,026	6820 7223 400/3/50 1399 471,2 2,969	7810 782 400/3/ 1463 499, 2,93
FR-G04-Z /A ower supply ERFORMANCE OOLING ONLY (GROSS VALUE) ooling capacity tal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity	(10) (1) (1) (1) (1)(2)	kg 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 6022 400/3/50 1038 340,6 3,048 1035	5430 6603 400/3/50 1146 379,0 3,024 1143	6060 7203 400/3/50 1280 423,0 3,026 1276	6820 7223 400/3/50 1399 471,2 2,969 1394	7810 782 400/3/ 1463 499, 2,93
PFR-G04-Z /A ower supply ERFORMANCE DOLING ONLY (GROSS VALUE) oboling capacity tal power input ER DOLING ONLY (EN14511 VALUE) boling capacity ER	(10) (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 6022 400/3/50 1038 340,6 3,048 1035 3,010	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930	7810 782 400/3/ 1463 499, 2,93 1458 2,89
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input R DOLING ONLY (EN14511 VALUE) boling capacity R boling energy class	(10) (1) (1) (1) (1)(2) (1)(2)	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	5430 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	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B	781 782 400/3 146 499, 2,93 145 2,89 B
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input ER DOLING ONLY (EN14511 VALUE) boling capacity ER boling energy class EPR	(10) (1) (1) (1) (1)(2)	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 6022 400/3/50 1038 340,6 3,048 1035 3,010	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990	7203 400/3/50 1280 423,0 3,026 1276 2,990	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930	7810 782 400/3, 146: 499, 2,93 145: 2,89 B
FR-G04-Z /A ower supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity Ital power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER Doling energy class EPR DOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1)(2) (1)(2)	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	5430 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	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B	7810 782 400/3, 146: 499, 2,93 145: 2,89 B
DOLING ONLY (GROSS VALUE) COOLING ONLY (EN14511 VALUE) COOLING ONLY (EN14511 VALUE) COOLING ONLY (EN16511 VALUE) COOLING ONLY (EN16511 VALUE) COOLING ONLY (EN16511 VALUE) COOLING ONLY (GROSS VALUE) COOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4)	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 5,71	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76	7810 782 400/3/ 1460 499, 2,93 1450 2,89 B 5,66
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input ER DOLING ONLY (EN14511 VALUE) boling capacity ER boling energy class EPR DOLING ONLY (GROSS VALUE) BOC/10°C boling capacity	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4)	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 5,71	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76	7810 782 400/3, 1466 499, 2,93 1455 2,89 B 5,66
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PC/C/10°C Doling capacity tal power input	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5)	kg V/ph/Hz kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76	7810 782 400/3, 146: 499, 2,93 145: 2,89 8 5,66:
PFR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity Ital power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER Doling energy class EPR DOLING ONLY (GROSS VALUE) So'C/10°C Doling capacity Ital power input Ita	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4)	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 5,71	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76	7810 782 400/3, 146: 499, 2,93 145: 2,89 8 5,66:
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) DOLING ONLY (GROSS VALUE) PC/10°C DOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (5)	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 5,71 1007 311,4 3,234	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202	7810 782 400/3. 1466 499, 2,93 1456 2,89 8 5,66 1600 509, 3,15
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PC/C10°C DOLING ONLY (GROSS VALUE) PC/C15°C DOLING CAPACITY DOLING CAPACITY DOLING ONLY (GROSS VALUE) DOLING CAPACITY DOLING CAPACI	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (5)	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 8 5,71 1007 311,4 3,234 1162	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774	7810 782 400/3/ 1466 499, 2,93 1456 2,89 8 5,68 1609 3,15 1858
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PC/10°C DOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (5) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6	7810 782 400/3/ 1460 499, 2,93 1456 2,89 5,66 1600 509, 3,15 1856 521,
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input ER DOLING ONLY (EN14511 VALUE) boling capacity ER DOLING ONLY (GROSS VALUE) SPC/10°C boling capacity tal power input ER PC/15°C boling capacity tal power input ER PC/15°C boling capacity tal power input ER	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (5)	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 8 5,71 1007 311,4 3,234 1162	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774	7810 782 400/3 1466 499, 2,93 1456 2,89 8,5,66 1600 509, 3,15 1856 521,
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6	7810 782 400/3 1466 499, 2,93 1456 2,89 8,5,66 1600 509, 3,15 1856 521,
FR-G04-Z /A wer supply RFORMANCE IOLING ONLY (GROSS VALUE) oling capacity al power input R IOLING ONLY (EN14511 VALUE) oling capacity R oling energy class PR IOLING ONLY (GROSS VALUE) °C/10°C oling capacity al power input R °C/15°C oling capacity al power input R °C/15°C oling capacity al power input R CHANGERS EAT EXCHANGER USER SIDE IN REFRI	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6 3,609	7810 782 400/3. 146: 499, 2,93 145: 2,89 8 5,66: 160: 509, 3,15 185: 521, 3,55
FR-G04-Z /A wer supply RFORMANCE OLING ONLY (GROSS VALUE) Dling capacity al power input 3 OLING ONLY (EN14511 VALUE) Dling capacity Bling energy class PR OLING ONLY (GROSS VALUE) PC/10°C Dling capacity al power input 3 PC/15°C Dling capacity al power input 3 CHANGERS AT EXCHANGER USER SIDE IN REFRI tter flow	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 B 5,71 1007 311,4 3,234 1162 317,6 3,659	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89	7810 782 400/3. 1466 499, 2,93 1456 2,89 8 5,66 1600 509, 3,15 1855 521, 3,55
FR-G04-Z /A wer supply RFORMANCE IOLING ONLY (GROSS VALUE) oling capacity ial power input R IOLING ONLY (EN14511 VALUE) oling capacity R oling capacity R oling onergy class PR IOLING ONLY (GROSS VALUE) **C/10**C oling capacity al power input R **C/15**C oling capacity al power input R CHANGERS AT EXCHANGER USER SIDE IN REFRI ater flow assure drop	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6 3,609	7810 782 400/3. 1466 499, 2,93 1456 2,89 8 5,66 1600 509, 3,15 1855 521, 3,55
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Holing capacity tal power input R DOLING ONLY (EN14511 VALUE) Holing capacity R Holing energy class PR DOLING ONLY (GROSS VALUE) PC/10°C Holing capacity tal power input R PC/15°C Holing capacity tal power input R HCHANGERS EAT EXCHANGER USER SIDE IN REFRI ater flow EFRIGERANT CIRCUIT	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7	7810 782 400/3/ 1466 499, 2,93 1456 2,89 8,5,68 1609, 3,15 1858 521, 3,55
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PC/10°C DOLING ONLY (GROSS VALUE) PC/10	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7	7810 782 400/3/ 146: 499, 2,93 145: 2,89 8 5,66: 1609; 3,15 1858; 521, 3,55 69,9 53,3
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity tal power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER Doling energy class EPR Doling ONLY (GROSS VALUE) SPC/10°C Doling capacity tal power input ER SPC/15°C Doling capacity tal power input ER CCHANGERS EAT EXCHANGER USER SIDE IN REFRI ater flow ESSURE drop EFRIGERANT CIRCUIT Impressors nr. D. Circuits	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0 2 2	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7	7810 782 400/3/ 146: 499, 2,93 145i 2,89 8 5,66 1600 509, 3,15 1858; 521, 3,555 69,9 53,3
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity tal power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER DOLING ONLY (GROSS VALUE) Sec/10°C Doling capacity tal power input ER PC/15°C Doling capacity tal power input ER CCHANGERS EAT EXCHANGER USER SIDE IN REFRI ater flow DESCRIPTION DESCR	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7	7810 782 400/3/ 146(499, 2,93) 145(2,89) 8 5,65 1600 509, 3,15(1858 521, 3,55(69,9) 53,3
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input R DOLING ONLY (EN14511 VALUE) boling capacity R boling energy class PR DOLING ONLY (GROSS VALUE) toling capacity tal power input R tal power input R CO-10°C boling capacity tal power input R CCHANGERS EAT EXCHANGER USER SIDE IN REFRI ater flow essure drop EFRIGERANT CIRCUIT bompressors nr. D. Circuits frigerant charge DISE LEVEL	(10) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (6) (1) (1)(2)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0 2 2 139	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8 2 2 171	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 3 189	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 3 195	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 3 203	7810 782 400/3/ 1463 499, 2,93 1458 2,89 8 5,66 1608 509, 3,15; 521, 3,55; 69,9 53,3 3 3 3 3 218
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (EN14511 VALUE) DOLING ONLY (GROSS VALUE) DOLING CAPACITY DOLING ONLY (GROSS VALUE) DOLING CAPACITY DOLING CAPACITY DOLING ONLY (GROSS VALUE) DOLING CAPACITY	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (1) (1)(2) (7)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW dB(A)	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0 2 2 139	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8 2 2 167	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 3 189	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 3 195	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 3 203 73	7810 782 400/3/ 1463 499,; 2,931 1458 2,899 8 5,65 1609 3,151 1858 521,; 3,559 69,99 53,3 3 3 218
PR-G04-Z /A Dever supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity Ital power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PR DOLING ONLY (GROSS VALUE) PS C/10°C Doling capacity Ital power input ER PS C/15°C Doling capacity Ital power input ER CCHANGERS EAT EXCHANGER USER SIDE IN REFRI ATER (CHANGER) EFFIGERANT CIRCUIT DIPPIPESSORS Nr. D. Circuits Defrigerant charge DISE LEVEL DUND PRESSURE DUND P	(10) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (6) (1) (1)(2)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0 2 2 139	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8 2 2 171 72	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 3 189	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 3 195	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 3 203	7810 782 400/3/ 1463 499,; 2,931 1458 2,899 8 5,65 1609 3,151 1858 521,; 3,559 69,99 53,3 3 3 218
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity tal power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER DOLING ONLY (GROSS VALUE) EPPR DOLING ONLY (GROSS VALUE) EPPR DOLING ONLY (GROSS VALUE) EPPR DOLING CAPACITY EN ENCY/10°C Doling capacity tal power input ER EXCHANGERS EAT EXCHANGER USER SIDE IN REFRI ATTER TOP EFRIGERANT CIRCUIT DIMPRESSORS NT. D. CIrcuits EPTIGERANT CIRCUIT DIMPRESSURE UNITED TO THE TOP ENTIRE TO THE TOP ENTIRE TO THE TOP ENTIRE TO	(10) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (1) (1)(2) (7)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW dB(A)	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 43,79 47,0 2 2 139	5220 6002 400/3/50 994,1 322,1 3,086 991,0 3,050 A 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8 2 2 167	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8 2 2 171 72	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 3 189	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 3 195	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 3 203 73	7810 782 400/3/ 1463 499.; 2,930 1458 2,890 8 5,65 509.; 3,150 521.; 3,555 69,90 53,3 3 218 73 106
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) boling capacity tal power input R DOLING ONLY (EN14511 VALUE) boling capacity R boling energy class EPR DOLING ONLY (GROSS VALUE) Sec/10°C boling capacity tal power input R BYC/15°C boling capacity tal power input R CCHANGERS EAT EXCHANGER USER SIDE IN REFRI ater flow essure drop EFRIGERANT CIRCUIT DIMPRESSORS IT. D. Circuits Efrigerant charge DISE LEVEL BUILD PESSURE UNITED PRESSURE	(10) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (1) (1)(2) (7) (8)(9)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW dB(A) dB(A)	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 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 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8 2 2 167 72 105	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8 2 2 171 72 105	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 8 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 189 72 105	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 8 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 3 195 72 105	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 8 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 203 73 106	7810 782 400/3/ 1463 499.; 2,931 1458 2,891 8 5,655 1600 509.; 3,156 69,91 53,3 3 218 73 1066
FR-G04-Z /A wer supply ERFORMANCE DOLING ONLY (GROSS VALUE) Doling capacity Ital power input ER DOLING ONLY (EN14511 VALUE) Doling capacity ER Doling energy class EPR DOLING ONLY (GROSS VALUE)	(10) (1) (1) (1) (1) (1) (1)(2) (3)(4) (5) (5) (6) (6) (6) (6) (7) (8)(9) (10)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW dB(A) dB(A) mm	4780 4822 400/3/50 915,7 305,7 2,995 912,6 2,960 8 5,71 1007 311,4 3,234 1162 317,6 3,659 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 5,80 1095 327,5 3,344 1267 333,3 3,801 47,54 42,8 2 2 167 72 105	5360 6022 400/3/50 1038 340,6 3,048 1035 3,010 A 5,78 1143 346,7 3,297 1322 353,4 3,741 49,65 43,8 2 2 171 72 105 10400	5430 6603 400/3/50 1146 379,0 3,024 1143 2,990 B 5,88 1263 386,4 3,269 1464 395,4 3,703 54,79 40,1 3 189 72 105	6060 7203 400/3/50 1280 423,0 3,026 1276 2,990 B 5,87 1412 431,8 3,270 1638 442,5 3,702 61,21 40,8 3 195 72 105 11650	6820 7223 400/3/50 1399 471,2 2,969 1394 2,930 B 5,76 1539 480,7 3,202 1774 491,6 3,609 66,89 48,7 3 203 73 106 12900	7810 782: 400/3/ 1463 499,3 2,93(1458 2,89(B 5,65 1609 509,8 3,158 1855 521,2 3,550 69,98 53,3 3 3 3 218

- 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.

 Seasonal energy efficiency ratio

 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]

 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.

 Plant (side) cooling exchanger water (in/out) 23°C/ 15°C; Source (side) heat exchanger air (in) 35°C.

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.
 The units highlighted in this publication contain HF0-1234ze [GW_{P100} 7] fluorinated greenhouse gases.







www.eurovent-certification.com	HELE V / (W)			VAILT HIME LOW	SHEEL & FOL	/ 0[/	MINE	JOHLAN	
-FR-G04-Z /SL-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	377,2	421,3	480,7	527,2	633,2	718,2	832,9
otal power input	(1)	kW	116,8	125,4	145,9	167,1	207,2	234,4	269,9
ER	(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
ER	(1)(2)	kW/kW	3,190	3,310	3,260	3,120	3,010	3,020	3,050
cooling energy class			Α	Α	А	Α	В	В	А
EPR	(3)(4)		6,22	6,34	6,31	6,05	5,99	6,44	6,02
OOLING ONLY (GROSS VALUE) 6°C/10°C									
ooling capacity	(5)	kW	414,0	462,9	528,9	578,7	696,8	787,9	918,3
otal power input	(5)	kW	121,9	130,2	152,2	174,4	215,3	241,7	275,3
ER .	(5)	kW/kW	3,396	3,555	3,475	3,318	3,236	3,260	3,336
3°C/15°C									
cooling capacity	(6)	kW	476,2	533,3	610,8	665,7	805,3	905,5	1065
otal power input	(6)	kW	130,1	137,6	162,2	186,1	228,4	252,9	281,7
ER	(6)	kW/kW	3,660	3,876	3,766	3,577	3,526	3,580	3,781
XCHANGERS EAT EXCHANGER USER SIDE IN RI	FERIGERATION								
later flow	(1)	I/s	18,04	20,15	22,99	25,21	30,28	34,34	39,83
ressure drop	(1)(2)	kPa	34,3	42,8	29,4	35,3	44,8	45,9	38,9
EFRIGERANT CIRCUIT	, , , ,		,	·	,		,		,
ompressors nr.		N°	2	2	2	2	2	2	2
o. Circuits		N°	2	2	2	2	2	2	2
efrigerant charge		kg	63,0	73,0	81,0	86,0	108	124	134
OISE LEVEL ound Pressure	(7)	dB(A)	60	61	61	62	61	63	63
ound power level in cooling	(8)(9)	dB(A)	92	93	93	94	94	96	96
IZE AND WEIGHT	(0)(0)	ab(r)	02	00	00	01	01	00	00
ength	(10)	mm	4150	5400	5400	5400	6650	7900	9150
/idth	(10)	mm	2260	2260	2260	2260	2260	2260	2260
leight	(10)	mm	2500	2500	2500	2500	2500	2500	2500
perating weight	(10)	kg	5020	5600	5680	5760	6390	7160	8400
-FR-G04-Z /SL-A			4822	6002	6022	6603	7203	7223	7823
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
ERFORMANCE COOLING ONLY (GROSS VALUE)									
				972,2	1024	1141	1000		
•	(1)	L/M	an2 8					1301	1/58
ooling capacity	(1) (1)	kW kW	902,8 303.4	,			1262 416.2	1391 468 8	
ooling capacity otal power input	(1)	kW	303,4	318,4	337,4	376,1	416,2	468,8	499,7
ooling capacity otal power input ER			,	,					499,7
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity	(1)	kW	303,4 2,976 899,8	318,4	337,4 3,035 1021	376,1 3,034 1138	416,2 3,032 1258	468,8 2,967 1386	499,7 2,918 1455
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER	(1)	kW kW/kW	303,4 2,976 899,8 2,940	318,4 3,053 969,3 3,020	337,4 3,035 1021 3,000	376,1 3,034 1138 3,000	416,2 3,032 1258 3,000	468,8 2,967 1386 2,930	499,7 2,918 1455 2,890
ooling capacity ptal power input ER OOLING ONLY (EN14511 VALUE) pooling capacity ER pooling energy class	(1) (1) (1)(2) (1)(2)	kW kW/kW	303,4 2,976 899,8 2,940 B	318,4 3,053 969,3 3,020 A	337,4 3,035 1021 3,000 A	376,1 3,034 1138 3,000 B	416,2 3,032 1258 3,000 B	468,8 2,967 1386 2,930 B	499,7 2,918 1455 2,890 B
cooling capacity ital power input ER COOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR	(1) (1) (1)(2)	kW kW/kW	303,4 2,976 899,8 2,940	318,4 3,053 969,3 3,020	337,4 3,035 1021 3,000	376,1 3,034 1138 3,000	416,2 3,032 1258 3,000	468,8 2,967 1386 2,930	499,7 2,918 1455 2,890
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER ooling energy class EPR OOLING ONLY (GROSS VALUE)	(1) (1) (1)(2) (1)(2)	kW kW/kW	303,4 2,976 899,8 2,940 B	318,4 3,053 969,3 3,020 A	337,4 3,035 1021 3,000 A	376,1 3,034 1138 3,000 B	416,2 3,032 1258 3,000 B	468,8 2,967 1386 2,930 B	499,7 2,918 1455 2,890 B
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER ooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C	(1) (1) (1)(2) (1)(2) (3)(4)	kW kW/kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76	318,4 3,053 969,3 3,020 A 5,85	337,4 3,035 1021 3,000 A 5,85	376,1 3,034 1138 3,000 B 5,94	416,2 3,032 1258 3,000 B 5,99	468,8 2,967 1386 2,930 B	499,7 2,918 1455 2,890 B 5,73
cooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity	(1) (1) (1)(2) (1)(2) (3)(4)	kW kW/kW	303,4 2,976 899,8 2,940 B	318,4 3,053 969,3 3,020 A	337,4 3,035 1021 3,000 A	376,1 3,034 1138 3,000 B	416,2 3,032 1258 3,000 B	468,8 2,967 1386 2,930 B 5,85	499,7 2,918 1455 2,890 B 5,73
cooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity otal power input	(1) (1) (1)(2) (1)(2) (3)(4)	kW kW/kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76	318,4 3,053 969,3 3,020 A 5,85	337,4 3,035 1021 3,000 A 5,85	376,1 3,034 1138 3,000 B 5,94	416,2 3,032 1258 3,000 B 5,99	468,8 2,967 1386 2,930 B 5,85	499,7 2,918 1455 2,890 B 5,73
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER ooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C ooling capacity otal power input ER 3°C/15°C	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5)	kW kW/kW kW/kW kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193	499,7 2,918 1455 2,890 8 5,73 1602 510,8 3,136
cooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6)	kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193	499,7 2,918 1455 2,890 8 5,73 1602 510,6 3,136
coling capacity ital power input ital power input ital pouling only (EN14511 VALUE) coling capacity ital pouling energy class EPR COLING ONLY (GROSS VALUE) socioling capacity ital power input	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4	499,7 2,918 1455 2,890 B 5,73 1602 510,6 3,136 1845 523,6
cooling capacity otal power input ER COOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR COOLING ONLY (GROSS VALUE) So C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input eR 3°C/15°C cooling capacity otal power input eR	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6)	kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193	499,7 2,918 1455 2,890 B 5,73 1602 510,6 3,136 1845 523,6
cooling capacity tal power input ER DOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR COOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity tal power input ER 3°C/15°C cooling capacity tal power input ER KCHANGERS	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8
cooling capacity tal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) cooling capacity tal power input ER 3°C/10°C cooling capacity otal power input ER KCHANGERS EAT EXCHANGER USER SIDE IN R	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522
coling capacity tal power input CR DOLING ONLY (EN14511 VALUE) coling capacity CR coling energy class CPR DOLING ONLY (GROSS VALUE) COLING ONLY (GROSS VALUE) COLING CAPACITY	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522
pooling capacity intal power input ER DOLING ONLY (EN14511 VALUE) pooling capacity ER pooling energy class EPR DOLING ONLY (GROSS VALUE) Socioling capacity intal power input ER 3°C/10°C pooling capacity intal power input ER KCHANGERS EAT EXCHANGER USER SIDE IN R later flow essure drop EFRIGERANT CIRCUIT	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9
pooling capacity intal power input ER DOLING ONLY (EN14511 VALUE) pooling capacity ER pooling energy class EPR DOLING ONLY (GROSS VALUE) S°C/10°C pooling capacity stal power input ER 3°C/15°C pooling capacity stal power input ER KCHANGERS EAT EXCHANGER USER SIDE IN R later flow ressure drop EFRIGERANT CIRCUIT pompressors nr.	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9
cooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 60°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN R later flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. Circuits	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9
coling capacity tal power input cr DOLING ONLY (EN14511 VALUE) coling capacity cr coling energy class cpr DOLING ONLY (GROSS VALUE) coling energy class cpr DOLING ONLY (GROSS VALUE) coling capacity tal power input cr	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,6 3,136 1845 523,6 3,522 69,70 30,9
pooling capacity tal power input ER OOLING ONLY (EN14511 VALUE) pooling capacity ER pooling energy class EPR OOLING ONLY (GROSS VALUE) pooling capacity tal power input ER pooling capacity potal power input ER CCHANGERS EAT EXCHANGER USER SIDE IN Relater flow ressure drop EFRIGERANT CIRCUIT COMPRESSED FOR TORSON TO CO. Circuits Enfigerant charge OISE LEVEL	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7) (8)	kW kW/kW kW/kW kW kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 523,8 3,522 69,70 30,9
coling capacity ital power input ital ital power input ital ital ital ital ital ital ital ita	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7)	kW kW/kW kW/kW kW kW kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER ooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C ooling capacity otal power input ER 3°C/15°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN R Atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL ound Pressure ound power level in cooling	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7) (8)	kW kW/kW kW/kW kW kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9
ooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) ooling capacity ER ooling capacity ER OOLING ONLY (EN14511 VALUE) ooling capacity ER OOLING ONLY (GROSS VALUE) 6°C/10°C ooling capacity otal power input ER 3°C/15°C ooling capacity otal power input ER XCHANGERS IEAT EXCHANGER USER SIDE IN RI Vater flow ressure drop IEFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge IOISE LEVEL ound Pressure ound power level in cooling IZE AND WEIGHT ength	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7)	kW kW/kW kW/kW kW kW kW kW/kW kW/kW kW/kW	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1	2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9 3 223 64 97
cooling capacity otal power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN R later flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. Circuits efrigerant charge OISE LEVEL could power level in cooling IZE AND WEIGHT	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (6) (7) (8)(9)	kW kW/kW kW/kW kW kW kW kW/kW kW/kW dB(A)	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7 2 2 139 63 96	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9 2 2 167 63 96	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6 2 2 171 63 96	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7 3 189 63 96	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7 3 204	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1 3 3 213 64	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9 3 3 223 64 97
pooling capacity ital power input ital ital power input ital pooling ONLY (EN14511 VALUE) pooling capacity ital pooling energy class ital pooling capacity ital power input ital ital power input ital ital power input ital ital ital ital ital ital ital ita	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10) (10) (10)	kW kW/kW kW/kW kW/kW kW/kW kW/kW dB/A N° kg dB(A)	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7 2 2 139 63 96 9150 2260 2500	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9 2 2 167 63 96 10400 2260 2500	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6 2 2 171 63 96 10400 2260 2500	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7 3 189 63 96	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7 3 204 63 96	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1 3 3 213 64 97	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9 3 3 223 64 97 12900 2260 2500
cooling capacity total power input ER OOLING ONLY (EN14511 VALUE) cooling capacity ER cooling energy class EPR OOLING ONLY (GROSS VALUE) 6°C/10°C cooling capacity total power input ER 3°C/15°C cooling capacity otal power input ER EXCHANGERS EAT EXCHANGER USER SIDE IN R later flow ressure drop EFRIGERANT CIRCUIT compressors nr. co. Circuits efrigerant charge OISE LEVEL cound pressure cound pres	(1) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10)	kW kW/kW kW/kW kW/kW kW/kW kW/kW dB(A) dB(A)	303,4 2,976 899,8 2,940 B 5,76 992,0 309,6 3,204 1143 316,8 3,608 43,17 45,7 2 2 139 63 96	318,4 3,053 969,3 3,020 A 5,85 1070 324,4 3,298 1236 331,1 3,733 46,49 40,9 2 2 167 63 96	337,4 3,035 1021 3,000 A 5,85 1126 344,1 3,272 1300 351,8 3,695 48,96 42,6 2 2 171 63 96	376,1 3,034 1138 3,000 B 5,94 1257 384,4 3,270 1454 394,7 3,684 54,56 39,7 3 3 189 63 96	416,2 3,032 1258 3,000 B 5,99 1392 425,3 3,273 1614 436,4 3,698 60,35 39,7 3 204 63 96	468,8 2,967 1386 2,930 B 5,85 1529 478,8 3,193 1762 490,4 3,593 66,50 48,1 3 3 213 64 97	499,7 2,918 1455 2,890 B 5,73 1602 510,8 3,136 1845 523,8 3,522 69,70 30,9

- 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.

 Seasonal energy efficiency ratio

 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]

 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.

 Plant (side) cooling exchanger water (in/out) 23°C/ 15°C; Source (side) heat exchanger air (in) 35°C.

- 7 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.

 8 Sound power on the basis of measurements made in compliance with ISO 9614.

 9 Sound power level in cooling, outdoors.

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

 The units highlighted in this publication contain HF0-1234ze [GW_{P100} 7] fluorinated greenhouse gases.

 Certified data in EUROVENT



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

Automatic circuit breakers for all major electrical loads (compressors excluded) (Opt. 3414):

Protect all the major electrical loads (compressors excluded) from possible current peaks, over-current switches are provided in place of the standard fuses. The compressors are already protected by extra-fast fuses.

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, 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 + 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.

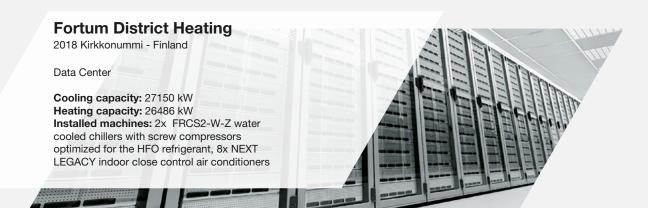
Nylon packing (Opt. 9966): i-FR-G04-Z is covered with a protective nylon layer and provided with the lifting eye-plates, to load the unit into a truck.

Container packing (Opt. 9979): i-FR-G04-Z 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).

"BY FAR THE BEST PROOF IS EXPERIENCE"

Sir Francis Bacon

British philosopher (1561-1626)



BNP Paribas

2015 Bailly Romainvilliers - France

Data Center

Cooling capacity: 12208 kW Installed machines:

2x FR FC-Z NG free-cooling chillers with screw compressors, 10x FRCS2-Z air cooled chillers with screw compressors, 28x indoor close control air conditioners



Telecom Data Center Acilia, Tier IV

2016 Rome - Italy

Data Center

Cooling capacity: 7804 kW Installed machines:

3x TRCS2/SL-CA-S-Z oil-free compressor chillers, 5x i-FR(1+i)/CA-S-Z fixed speed and inverte speed compressor chillers



2017 Bangalore - India

Data Center

Cooling capacity: 4495 kW

Installed machines: 4x i-FR(1+i)/CA/S-Z high efficiency chillers with fixed speed and inverter speed compressors









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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