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

IT COOLING

CHILLERS





TRCS2-G05-Z

THE GREEN CHILLER OPERATING AT PEAK EFFICIENCY





Air cooled chiller with oil-free compressors. From 218 to 1313 kW

Resulting from the recognised prestige of RC brand products utilising magnetic levitation technology, TRCS2-G05-Z air cooled chillers match together the advantages of the oil-free technology with the 513A innovative green refrigerant.

Brilliantly engineered to achieve premium levels of efficiency and reliability, TRCS2-G05-Z also feature a very compact layout and silent operation that make this unit the ideal solution for any IT cooling application.



LOW OPERATING COSTS

In application working for more than 8000 hours/ year, even a small increase in the product efficiency can lead to a significant saving on the overall energy bill. Each component must be accurately selected in order to achieve premium efficiency levels in all operating loads.

The combination of the oil-free compressors, the in-house designed evaporator and the high efficiency EC fans, make together TRCS2-G05-Z the solution that always harness the highest cooling efficiency, in every load condition.

IT COOLING APPLICATIONS

- Data centers and server rooms
- Technological hubs
- Telecommunication installations
- Laboratories and technical rooms



The uninterrupted operations of data centers, telecommunications infrastructures and manufacturing machineries depend on a steady and precise cooling load coverage.

RC's approach to cooling dependability goes beyond the unit's accurate and sturdy design. It also involves several devices and functions that maximise unit's uptime in case of emergency circumstances such as power supply outage.

ACOUSTIC VERSIONS

SL-CA

Super Low noise version, Class A of efficiency

XL-CA

Extra Low noise version, Class A of efficiency

SL-CA-E

Super Low noise version, Premium efficiency, Class A enhanced

HEAT RECOVERY CONFIGURATIONS



Basic function



Partial condensing heat recovery function

ALL-ROUND SUSTAINABILITY



TRCS2-G05-Z is the result of Mitsubishi Electric Hydronics & IT Cooling Systems' extensive approach to sustainability.

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

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

Fully committed to support the creation of a greener tomorrow, Mitsubishi Electric Hydronics & IT Cooling Systems designed TRCS2-G05-Z, a complete chiller range with reduced environmental impact, optimized for R513A refrigerant.

Combining brilliant annual efficiency with the use of a low GWP refrigerant, TRCS2-G05-Z tackles both the indirect (due to primary energy consumption) and the direct global warming, thus resulting in the perfect choice for any new, forward-looking cooling system.







REFRIGERANT BENCHMARK

© SCROLI	L ,	7	SCREW		
Refrigerant	GWP*	Flammability**	Refrigerant	GWP*	Flammability**
PR410A	2088	NON flammable	R134a	1430	NON flammable
r) R32	675	MILDLY flammable	PS13A	631	NON flammable
PR454B	466	MILDLY flammable	[©] 1234ze	7	MILDLY flammable
PR452B	698	MILDLY flammable	©1234yf	4	MILDLY flammable

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

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

The new refrigerant R513A, chosen for TRCS2-G05-Z, is a brilliant exception: it offers a -56% GWP reduction compared to R134a's while ensuring complete non-toxicity and non-flammability (Class A1 of ASHRAE 34, ISO 817).

SIMPLIFIED LOGISTICS

*IPCC AR4



Oil-free compressors feature an extremely advantageous capacity / weight ratio.

The considerable weight reduction allows simplified on-site operations and a more compact layout compared to traditional screw compressor chillers.

**ASHRAE 34 - ISO 817

LOW IN RUSH CURRENT



A further benefit is the very low inrush current, obtained thanks to the characteristics of the compressor and to the "inverter" starting. This is a crucial factor, as it allows a more favourable selection of the protection devices to be placed on the power supply between transformer and unit.

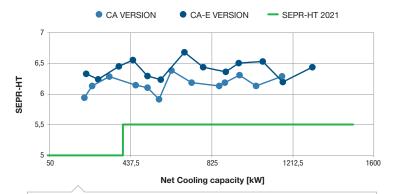


TECHNOLOGICAL CHOICES

CENTRIFUGAL COMPRESSOR WITH MAGNETIC LEVITATION

These top level technology compressors bring enormous benefits in terms of efficiency, adjustments, vibrations and weight. Magnetic levitation eliminates the need for lubricant, its delicate management and heat exchange penalisation. Partial load efficiency, which is crucial to reduce energy consumption during all-year-round operation, is therefore strongly increased

A profound knowledge is necessary to harness such a concentration of technology and here is where RC brand really makes the difference thanks to its profound experience in magnetic levitation compressor units and thousands of projects all over the world.

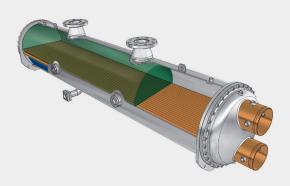


Every version of TECS2-G05, is erp 2021 compliant for High temperature Process application, and is at the maximum level of efficiency at both partial and full load

Flooded evaporator

Designed and built internally, the geometry of the flooded evaporator grants optimum temperature distribution along the shell, hence highly efficient heat exchange and low refrigerant pressure drops.

Allowing the over-heating surface to be eliminated, the flooded evaporation delivers unbeatable heat exchange efficiency, but it also requires maximum care in keeping the exact liquid refrigerant level.





W3000TE CONTROL AND USER-FRIENDLY INTERFACE

The logic behind TRCS2-G05-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 conditions:

Efficiency, silent operation and reliability. But also compact dimensions and reduced weight. These are the main features that make TRCS2-G05-Z the most reliable solution for IT Cooling applications.

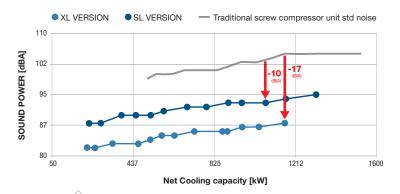
EC FANS FOR A SUPER SILENT OPERATION

On TRCS2-G05-Z units, the technology of EC electronic switching fans is introduced, as standard on SL-CA-E versions and optional on the other models.

The superior energy efficiency of the DC brushless motor further improves the chiller's

performance, that reaches the highest efficiencies at full and partial load level in the market.

More advantages are low inrush current and the ability to continuously modulate the rotational speed with an immediate gain in both silence and energy consumption.



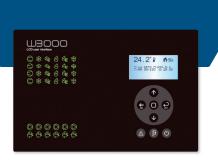
TRCS2-G05-Z shows as the EC fans on the XL and SL versions ensure very low noise levels compared to traditional screw compressor units. These unbeatable sound power levels make this unit the perfect solution for noise critical applications.

Electronic Expansion Valve

The electronic valve is adopted to grant the ideal operation of the evaporator in all conditions. In the air cooled unit the control is made with a precise measurement of the subcooling in the condenser coil.



The fast processing of the acquired data allow a quick, fluctuation-free regulation, and therefore a highly accurate adjustment to the swings of load and ambient conditions.



- Efficient and reliable operation in all conditions
- Connectivity with the most commonly used BMS protocols (Opt.)
- Demand limit option (available for double circuit units).



Easier on-site operation

Real-time graphs and trends

Data logger function

As an option, the 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).



EQUIPMENT FOR MISSION CRITICAL APPLICATIONS

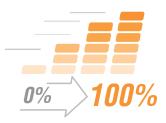
Committed to ensure the highest standards of reliability, TRCS2-G05-Z includes a full range of devices and functions that maximize unit's uptime in case of emergency circumstances.

FAST RESTART

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



Ensure immediate cooling start-up within 25"



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.

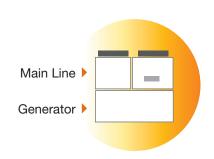
Fast restart - UPS excluded (Opt.4501)

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. TRCS2-G05-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 TRCS2-G05-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 untime

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 allows to acquire the electrical data and the power absorbed by the unit and send them to the supervisor for energy metering.





TRCS2-G05-Z 0211 - 1154

Chiller, air source for outdoor installation, from 218 to 1313 kW.





Page Supply Vight 12	TRCS2-G05-Z/SL-CA			0211	0251	0351	0452	0512	0552	0652
PREPORTANCE COLONING ONLY (GROSS VALUE) COLONING ONLY (GROSS			V/ph/Hz				400/3/50		400/3/50	
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Transport Tran	•	-								
Description Commonwealth Commo		. ,				,	,	,		,
		. ,			,	,	,		,	
Decing paperly			KVV/KVV	3,234	3,107	3,121	3,100	3,121	3,270	3,104
EER	•		kW	229.6	255.2	342.4	436.9	501.3	565.7	641.9
Decing partry class A	EER						,		,	
Column Only (GROSS VALUE)	Cooling energy class									Α
	SEPR			5,80	5,87	6,04	5,92	6,00	5,68	6,15
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	EER								,	
Time Description Time	23°C/15°C	. ,		,	ŕ	ŕ	,	ŕ	,	,
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NOISE LEVEL	No. Circuits									
Sound Pressure (7) dB(A) 56 56 58 58 58 59 59	Refrigerant charge		kg	100	100	120	210	180	210	240
Sound power level in cooling (8)(9) dB(A) 88 88 90 90 90 91 92		(7)	-ID(A)	50	50	50	50	50	50	F0
SIZE AND WEIGHT										
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1	A	(10)	mm	3100	3100	4000	4900	4900	5800	7000
(10) mm	В	. ,								
TRCS2-G05-Z/XL-CA	H	(10)	mm	2430	2430	2430	2430	2430	2430	2430
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Power supply V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 PERFORMANCE Cooling capacity	TD000 005 704 04							1051		
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Cooling capacity	TRCS2-G05-Z/XL-CA									
Total power input (1) kW 225,0 269,6 287,3 309,1 335,2 373,3 SER (1) kW/kW 3,259 3,118 3,104 3,121 3,150 3,142 SER (1) kW/kW 3,259 3,118 3,104 3,121 3,150 3,142 SER (1) kW/kW 3,259 3,118 3,104 3,121 3,150 3,142 SER (1) kW/kW 3,259 3,177 838,5 889,3 962,5 1053 1170 SER (1) kW/kW 3,230 3,090 3,070 3,090 3,120 3,110 SEPR (1)(2) kW/kW 3,230 3,090 3,070 3,090 3,120 3,110 SEPR (3)(4) 6,06 5,98 5,98 6,09 5,89 6,09 SEPR (3)(4) 822,3 922,7 978,7 1060 1167 1286 SEPR (5) kW 232,8 273,3 292,9 317,5 336,7 379,7 SER (5) kW/kW 3,532 3,376 3,341 3,339 3,466 3,387 SEPR (5) kW/kW 3,532 3,376 3,341 3,339 3,466 3,387 SEPR (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 SEXCHANGERS (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 SEXCHANGERS SEPR (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 SEXCHANGERS SEPR (1) kPa 26,9 31,2 35,1 29,0 34,7 36,7 SEPRICE TOOM (1) kPa 26,9 31,2 35,1 29,0 34,7 36,7 SEPRICE TOOM (1) kPa 26,9 31,2 35,1 29,0 34,7 36,7 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 26,9 31,2 35,1 29,0 34,7 36,7 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 42,64 46,13 50,52 56,08 SEPRICE TOOM (1) kPa 36,07 40,19 40	Power supply		V/ph/Hz							
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Cooling energy class A	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA	(1) (1) (1) ALUE)	kW kW kW/kW	400/3/50 733,3 225,0 3,259	400/3/50 840,5 269,6 3,118	891,7 287,3 3,104	964,6 309,1 3,121	400/3/50 1056 335,2 3,150	400/3/50 1173 373,3 3,142	
SEPR (3)(4) 6,06 5,98 5,98 6,09 5,89 6,09 5,89 6,09 5,89 6,09 5,89 6,09 5,80 6,00 5,80 5,90 5,80 5,80 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,80 5,90 5,90 5,80 5,90 5,90 5,80 5,90 5,80 5,90 5,90 5,80 5,90 5,90 5,80	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA	(1) (1) (1) ALUE) (1)(2)	kW kW kW/kW	733,3 225,0 3,259 731,7	400/3/50 840,5 269,6 3,118 838,5	891,7 287,3 3,104 889,3	964,6 309,1 3,121 962,5	400/3/50 1056 335,2 3,150 1053	400/3/50 1173 373,3 3,142 1170	
COOLING ONLY (GROSS VALUE) 16°C/10°C Cooling capacity (5) kW 822,3 922,7 978,7 1060 1167 1286 Cotal power input (5) kW 232,8 273,3 292,9 317,5 336,7 379,7 EER (5) kW/kW 3,532 3,376 3,341 3,339 3,466 3,387 32°C/15°C Cooling capacity (6) kW 928,7 1124 1181 1272 1364 1560 Total power input (6) kW 241,8 278,7 299,0 324,3 337,4 386,9 EER (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRIGERATION Water flow (1) 1/s 35,07 40,19 42,64 46,13 50,52 56,08 Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 REFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 3 3 4 4 4 No. Circuits N° 1 2 2 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 2260 2260 2260 2260 2260 2260 2260 2	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER	(1) (1) (1) ALUE) (1)(2)	kW kW kW/kW	733,3 225,0 3,259 731,7 3,230	400/3/50 840,5 269,6 3,118 838,5 3,090	891,7 287,3 3,104 889,3 3,070	964,6 309,1 3,121 962,5 3,090	400/3/50 1056 335,2 3,150 1053 3,120	400/3/50 1173 373,3 3,142 1170 3,110	
16°C/10°C 10°C	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class	(1) (1) (1) (1) (1)(2) (1)(2)	kW kW kW/kW	733,3 225,0 3,259 731,7 3,230 A	840,5 269,6 3,118 838,5 3,090 A	891,7 287,3 3,104 889,3 3,070 A	964,6 309,1 3,121 962,5 3,090 A	1056 335,2 3,150 1053 3,120 A	1173 373,3 3,142 1170 3,110 A	
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### REFRICE ### R	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C	(1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE)	kW kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06	840,5 269,6 3,118 838,5 3,090 A 5,98	891,7 287,3 3,104 889,3 3,070 A 5,98	964,6 309,1 3,121 962,5 3,090 A 6,09	1056 335,2 3,150 1053 3,120 A 5,89	1173 373,3 3,142 1170 3,110 A 6,09	
Cooling capacity	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity	(1) (1) (1) (1) (2) (1)(2) (3)(4) (5)	kW kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98	891,7 287,3 3,104 889,3 3,070 A 5,98	964,6 309,1 3,121 962,5 3,090 A 6,09	400/3/50 1056 335,2 3,150 1053 3,120 A 5,89	400/3/50 1173 373,3 3,142 1170 3,110 A 6,09	
Cooling capacity (6) kW 928,7 1124 1181 1272 1364 1560 Fotal power input (6) kW 241,8 278,7 299,0 324,3 337,4 386,9 EER (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EECH (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EECH (7) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EECH (8) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EECH EXCHANGER USER SIDE IN REFRIGERATION Water flow (1) l/s 35,07 40,19 42,64 46,13 50,52 56,08 Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 EEFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 3 3 4 4 N° 1 2 2 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 EER COOLING SEAD SEAD SEAD SEAD SEAD SEAD SEAD SEAD	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input	(1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06	840,5 269,6 3,118 838,5 3,090 A 5,98	891,7 287,3 3,104 889,3 3,070 A 5,98	964,6 309,1 3,121 962,5 3,090 A 6,09	1056 335,2 3,150 1053 3,120 A 5,89	1173 373,3 3,142 1170 3,110 A 6,09	
Total power input (6) kW 241,8 278,7 299,0 324,3 337,4 386,9 (EER (6) kW/kW 3,841 4,033 3,950 3,950 3,922 4,043 4,032 (EXCHANGERS) HEAT EXCHANGER USER SIDE IN REFRIGERATION Water flow (1) I/s 35,07 40,19 42,64 46,13 50,52 56,08 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,9 34,0 43,0 43,0 49,0 48,0 52,0 (Pressure drop (1)(2) kPa 26,0 42,0 43,0 44,0 44,0 46,13 50,5 (Pressure drop (1)(2) kPa 26,0 42,0 44,0 44,0 44,0 44,0 44,0 44,0 44	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER	(1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (5)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06	840,5 269,6 3,118 838,5 3,090 A 5,98	891,7 287,3 3,104 889,3 3,070 A 5,98	964,6 309,1 3,121 962,5 3,090 A 6,09	1056 335,2 3,150 1053 3,120 A 5,89	1173 373,3 3,142 1170 3,110 A 6,09	
EER (6) kW/kW 3,841 4,033 3,950 3,922 4,043 4,032 EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRIGERATION Water flow (1) I/s 35,07 40,19 42,64 46,13 50,52 56,08 Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 REFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 3 4 4 No. Circuits N° 1 2 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 2260 B (10) mm 2430 2430 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C	(1) (1) (1) (1)(2) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06	840,5 269,6 3,118 838,5 3,090 A 5,98	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341	964,6 309,1 3,121 962,5 3,090 A 6,09	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466	1173 373,3 3,142 1170 3,110 A 6,09	
### STATE ST	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Cooling capacity	(1) (1) (1) (1)(2) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181	964,6 309,1 3,121 962,5 3,090 A 6,09	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387	
Water flow (1) I/s 35,07 40,19 42,64 46,13 50,52 56,08 Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 REFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 4 4 No. Circuits N° 1 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 33 (10) mm 2260 2260 2260 2260 2260 2260	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9	
Pressure drop (1)(2) kPa 26,9 31,2 35,1 29,0 34,7 36,7 REFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 3 4 4 A. No. Circuits N° 1 2 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Cound Pressure (7) dB(A) 59 60 60 60 61 61 Cound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 Soluted power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 A. (10) mm 7000 8500 9700 10600 11200 11500 B. A. (10) mm 2260 2260 2260 2260 2260 2260 B. C.	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS	(1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6) (6)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9	
REFRIGERANT CIRCUIT Compressors nr. N° 2 3 3 3 4 4 No. Circuits N° 1 2 2 2 2 2 2 Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 2260 B (10) mm 2430 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII	(1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032	
Compressors nr. N° 2 3 3 3 3 4 4 4 A No. Circuits N° 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032	
No. Ċircuits N° 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032	
Refrigerant charge kg 280 340 430 490 480 520 NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 H (10) mm 2430 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	400/3/50 733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7	
NOISE LEVEL Sound Pressure (7) dB(A) 59 60 60 60 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 B (10) mm 2430 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7	
Sound Pressure (7) dB(A) 59 60 60 60 61 61 61 Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 H (10) mm 2430 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7	
Sound power level in cooling (8)(9) dB(A) 92 93 93 93 94 94 SIZE AND WEIGHT A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 H (10) mm 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	(1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7	
A (10) mm 7000 8500 9700 10600 11200 11500 B (10) mm 2260 2260 2260 2260 2260 2260 H (10) mm 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (3)(4) (5) (5) (5) (6) (6) (6) (6) (7) (1) (2) (1)(2)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7	
3 (10) mm 2260 2260 2260 2260 2260 2260 H (10) mm 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII 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) (3)(4) -UE) (5) (5) (5) (6) (6) (6) (6) (7)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg	400/3/50 733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340 60	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430 60	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490 60	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7 4	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7 4	
H (10) mm 2430 2430 2430 2430 2430 2430	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII 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) (1) (1) (1) (2) (1)(2) (1	kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° N° kg dB(A)	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280 59	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340 60 93	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430 60 93	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490 60 93	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7 4 2 480 61	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7 4 2 520 61	
	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII 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) (1) (1) (1) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (1) (2) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° N° kg dB(A) dB(A)	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280 59 92 7000	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340 60 93 8500	400/3/50 891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430 60 93 9700	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490 60 93 10600	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7 4 2 480 61 94	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7 4 2 520 61 94	
pperating weight (10) kg 0150 0940 7370 8150 8700 9020	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT A B	(1) (1) (1) (1) (1) (1) (1) (2) (1)(2	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280 59 92 7000 2260	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340 60 93 8500 2260	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430 60 93	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490 60 93 10600 2260	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7 4 2 480 61 94 11200 2260	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7 4 2 520 61 94 11500 2260	
	Power supply PERFORMANCE COOLING ONLY (GROSS VAL Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SII Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT A B H	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(1)(1)(2) (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	733,3 225,0 3,259 731,7 3,230 A 6,06 822,3 232,8 3,532 928,7 241,8 3,841 FION 35,07 26,9 2 1 280 59 92 7000 2260 2430	400/3/50 840,5 269,6 3,118 838,5 3,090 A 5,98 922,7 273,3 3,376 1124 278,7 4,033 40,19 31,2 3 2 340 60 93 8500 2260 2430	891,7 287,3 3,104 889,3 3,070 A 5,98 978,7 292,9 3,341 1181 299,0 3,950 42,64 35,1 3 2 430 60 93 9700 2260 2430	400/3/50 964,6 309,1 3,121 962,5 3,090 A 6,09 1060 317,5 3,339 1272 324,3 3,922 46,13 29,0 3 2 490 60 93 10600 2260 2430	1056 335,2 3,150 1053 3,120 A 5,89 1167 336,7 3,466 1364 337,4 4,043 50,52 34,7 4 2 480 61 94 11200 2260 2430	1173 373,3 3,142 1170 3,110 A 6,09 1286 379,7 3,387 1560 386,9 4,032 56,08 36,7 4 2 520 61 94 11500 2260 2430	





TRCS2-G05-Z 0211 - 1154

Chiller, air source for outdoor installation, from 218 to 1313 kW.

TRCS2-G05-Z/SL-CA-E			0211	0251	0351	0452	0512	0552	0652
Power supply PERFORMANCE		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
COOLING ONLY (GROSS VAI		kW	017.0	252,4	220.6	421.0	F10.0	F72.0	634,0
Cooling capacity Total power input	(1) (1)	kW	217,9 68,84	79,54	338,6 109,0	431,0 135,9	519,2 165,3	573,0 171,1	205,8
EER	(1)	kW/kW	3,167	3,175	3,106	3,171	3,141	3,349	3,081
Cooling capacity		kW	217,2	251,7	337,7	430,0	517,9	571,4	632,9
Cooling capacity EER	(1)(2) (1)(2)	kW/kW	3,120	3,140	3,070	3,140	3,110	3,310	3,060
Cooling energy class			Α	Α	В	Α	А	Α	В
SEPR COOLING ONLY (GROSS VAI	(3)(4)		5,93	6,13	6,28	6,14	6,10	5,92	6,38
16°C/10°C	LUE)								
Cooling capacity	(5)	kW	240,7	278,6	387,1	475,4	573,1	647,9	726,1
Total power input EER	(5) (5)	kW kW/kW	69,03 3,488	79,90 3,487	110,0 3,519	136,3 3,488	166,1 3,450	179,5 3,609	206,5 3,516
23°C/15°C	(3)	KVV/KVV	3,400	5,467	3,519	3,466	3,430	3,009	3,310
Cooling capacity	(6)	kW	281,3	326,3	445,4	557,1	671,5	740,2	836,0
Total power input EER	(6)	kW	68,83	80,21	113,6	136,2	166,9	187,6	212,9
EXCHANGERS	(6)	kW/kW	4,089	4,069	3,921	4,090	4,023	3,946	3,927
HEAT EXCHANGER USER SI									
Water flow Pressure drop	(1) (1)(2)	l/s kPa	10,42 32,0	12,07 26,3	16,19 27,3	20,61 26,2	24,83 28,8	27,40 35,1	30,32 20,1
REFRIGERANT CIRCUIT	(1)(2)	rFa	32,0	20,3	21,3	20,2	20,0	JJ, I	20,1
Compressors nr.		N°	1	1	1	2	2	2	2
No. Circuits		N° ka	1 100	1 100	1 130	1 220	1 220	1 240	1 270
Refrigerant charge NOISE LEVEL		kg	100	100	130	220	220	240	210
Sound Pressure	(7)	dB(A)	50	50	51	51	52	52	52
Sound power level in cooling SIZE AND WEIGHT	(8)(9)	dB(A)	82	82	83	83	84	85	85
A	(10)	mm	3100	3100	4000	4900	5800	7000	7000
В	(10)	mm	2260	2260	2260	2260	2260	2260	2260
H Otiit	(10)	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	2370	2420	3200	4240	4690	5350	6150
TRCS2-G05-Z/SL-CA-	_								
			0712	0853	0913	1013	1054	1154	
Power supply	V/ph/Hz		0712 400/3/50	0853 400/3/50	0913 400/3/50	1013 400/3/50	1054 400/3/50	1154 400/3/50	_
Power supply PERFORMANCE	V/ph/Hz						400/3/50		
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity	V/ph/Hz LUE) (1)	kW	400/3/50 730,0	400/3/50 865,8	400/3/50 888,0	400/3/50 959,1	400/3/50 1040	400/3/50 1163	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input	V/ph/Hz LUE) (1) (1)	kW	400/3/50 730,0 226,0	400/3/50 865,8 279,0	400/3/50 888,0 290,4	400/3/50 959,1 311,0	400/3/50 1040 330,3	400/3/50 1163 376,9	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER	V/ph/Hz LUE) (1) (1) (1)	kW kW/kW	400/3/50 730,0 226,0 3,230	400/3/50 865,8 279,0 3,103	400/3/50 888,0 290,4 3,058	959,1 311,0 3,084	400/3/50 1040 330,3 3,149	400/3/50 1163 376,9 3,086	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI Cooling capacity	V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2)	kW kW/kW	730,0 226,0 3,230 728,4	400/3/50 865,8 279,0 3,103 863,6	400/3/50 888,0 290,4 3,058 885,7	959,1 311,0 3,084 957,0	400/3/50 1040 330,3 3,149 1037	400/3/50 1163 376,9 3,086 1160	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER	V/ph/Hz LUE) (1) (1) (1) ALUE)	kW kW/kW	730,0 226,0 3,230 728,4 3,200	400/3/50 865,8 279,0 3,103 863,6 3,070	888,0 290,4 3,058 885,7 3,030	959,1 311,0 3,084 957,0 3,060	1040 330,3 3,149 1037 3,120	400/3/50 1163 376,9 3,086 1160 3,050	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR	V/ph/Hz (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4)	kW kW/kW	730,0 226,0 3,230 728,4	400/3/50 865,8 279,0 3,103 863,6	400/3/50 888,0 290,4 3,058 885,7	959,1 311,0 3,084 957,0	400/3/50 1040 330,3 3,149 1037	400/3/50 1163 376,9 3,086 1160	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI	V/ph/Hz (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4)	kW kW/kW	730,0 226,0 3,230 728,4 3,200 A	865,8 279,0 3,103 863,6 3,070 A	888,0 290,4 3,058 885,7 3,030 B	959,1 311,0 3,084 957,0 3,060 B	1040 330,3 3,149 1037 3,120 A	1163 376,9 3,086 1160 3,050 B	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C	V/ph/Hz LUE) (1) (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4) LUE) (5)	kW kW/kW	730,0 226,0 3,230 728,4 3,200 A	865,8 279,0 3,103 863,6 3,070 A	888,0 290,4 3,058 885,7 3,030 B	959,1 311,0 3,084 957,0 3,060 B	1040 330,3 3,149 1037 3,120 A	1163 376,9 3,086 1160 3,050 B	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input	V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2) (3)(4) LUE) (5) (5)	kW kW/kW kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7	888,0 290,4 3,058 885,7 3,030 B 6,18	959,1 311,0 3,084 957,0 3,060 B 6,30	1040 330,3 3,149 1037 3,120 A 6,13	400/3/50 1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER	V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2) (3)(4) LUE) (5) (5)	kW kW/kW kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13	888,0 290,4 3,058 885,7 3,030 B 6,18	959,1 311,0 3,084 957,0 3,060 B 6,30	1040 330,3 3,149 1037 3,120 A 6,13	400/3/50 1163 376,9 3,086 1160 3,050 B 6,28	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C	V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2) (3)(4) LUE) (5) (5)	kW kW/kW kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7	888,0 290,4 3,058 885,7 3,030 B 6,18	959,1 311,0 3,084 957,0 3,060 B 6,30	1040 330,3 3,149 1037 3,120 A 6,13	400/3/50 1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input	V/ph/Hz LUE) (1) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6)	kW kW/kW kW/kW kW/kW kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER COOLING ONLY (GROSS VAI 10°C) Cooling capacity Total power input EER Total power input EER Total power input EER	V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6)	kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152	888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346	400/3/50 1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS	V/ph/Hz LUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037	400/3/50 1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (EN14511 V/ Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2	400/3/50 959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 7ION 34,91 26,7	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL	V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2	400/3/50 959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling	V/ph/Hz LUE) (1) (1) (1) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1)(2)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 7ION 34,91 26,7	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1 3 2 410	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1 4 2 580	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (1) (1)(2)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 TION 34,91 26,7 2 1 310	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1 3 2 410 53 86	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2 450 53 86	400/3/50 959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6 3 2 520 54 87	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7 4 2 500	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1 4 2 580	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (EN14511 V/ Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	V/ph/Hz LUE) (1) (1) (1) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (1)(2)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 TION 34,91 26,7 2 1 310 53 86 7900	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1 3 2 410 53 86	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6 3 2 520 54 87	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7 4 2 500 54 87	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1 4 2 580	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow PRESSURE drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT B H	V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) (1)(2) (7) (8)(9) (10) (10) (10)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 7ION 34,91 26,7 2 1 310 53 86	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1 3 2 410 53 86 9400 2260 2430	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2 450 53 86 9700 2260 2430	400/3/50 959,1 311,0 3,084 957,0 3,060 8 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6 3 2 520 54 87 10600 2260 2430	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7 4 2 500 54 87	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1 4 2 580 55 88	
Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (EN14511 V/ Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kPa dB(A) dB(A)	730,0 226,0 3,230 728,4 3,200 A 6,18 817,5 228,8 3,573 941,8 236,1 3,989 7ION 34,91 26,7 2 1 310 53 86	400/3/50 865,8 279,0 3,103 863,6 3,070 A 6,13 950,3 282,7 3,362 1152 283,2 4,068 41,40 33,1 3 2 410 53 86 9400 2260	400/3/50 888,0 290,4 3,058 885,7 3,030 B 6,18 1020 291,5 3,499 1175 297,9 3,944 42,47 34,8 3 2 450 53 86 9700 2260	959,1 311,0 3,084 957,0 3,060 B 6,30 1097 312,6 3,509 1263 322,3 3,919 45,87 28,6 3 2 520 54 87	1040 330,3 3,149 1037 3,120 A 6,13 1149 331,8 3,463 1346 333,4 4,037 49,75 33,7 4 2 500 54 87	1163 376,9 3,086 1160 3,050 B 6,28 1338 377,4 3,545 1543 382,8 4,031 55,63 36,1 4 2 580 55 88	

- 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 Seasonal energy efficiency ratio
 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 5 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.
 6 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.

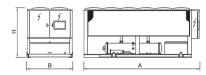
 10 Unit in standard configuration/execution, without optional accessories.

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

 Certified data in EUROVENT



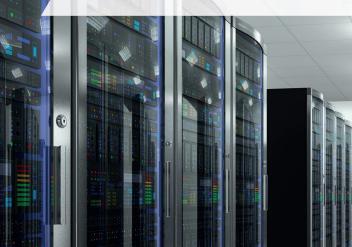
TRCS2-G05-Z/SL-CA-E			0211	0251	0351	0452	0512	0552	0652
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VAL		kW	226,4	000.0	381,9	450,5	520,5	583,5	695,8
Cooling capacity Total power input	(1) (1)	kW	67,41	282,8 81,04	112,7	450,5 133,0	520,5 154,1	168,3	203,5
EER	(1)		3,359	3,491	3,389	3,387	3,378	3,467	3,419
COOLING ONLY (EN14511 VA	ALUE)								
Cooling capacity	(1)(2)	kW	225,6	281,9	380,8	449,4	519,2	581,8	694,4
EER	(1)(2)	kW/kW	3,310	3,440	3,340	3,350	3,340	3,420	3,390
Cooling energy class SEPR	(3)(4)		A 6,32	A 6,24	A 6,45	A 6,56	A 6,29	A 6,23	A 6,68
COOLING ONLY (GROSS VAL			0,02	0,24	0,40	0,00	0,20	0,20	0,00
16°C/10°C	,								
Cooling capacity	(5)	kW	250,5	308,4	414,8	498,1	594,6	636,1	756,7
Total power input	(5)	kW	67,53	85,47	117,1	133,3	167,2	177,7	209,9
EER 23°C/15°C	(5)	kW/kW	3,711	3,607	3,542	3,737	3,556	3,580	3,605
Cooling capacity	(6)	kW	290,7	354,6	481,2	579,1	651,1	728,9	877,2
Total power input	(6)	kW	66,82	91,17	123,0	132,1	172,5	189,8	219,0
ER	(6)	kW/kW	4,352	3,888	3,912	4,384	3,774	3,840	4,005
EXCHANGERS									
HEAT EXCHANGER USER SI				10.50	10.00	04.55	04.00	07.00	00.07
Vater flow Pressure drop	(1)(2)	l/s kPa	10,83 34,5	13,52 33,0	18,26 34,7	21,55 28,6	24,89 29,0	27,90 36,4	33,27 24,2
REFRIGERANT CIRCUIT	(1)(2)	NFa	54,5	33,0	04,I	20,0	29,0	30,4	24,2
Compressors nr.		N°	1	1	1	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	100	100	130	220	220	240	270
NOISE LEVEL	(7)	dD/^\	FO	E.C.	F0	F0	E0.	F0	FO
Sound Pressure Sound power level in cooling	(8)(9)	dB(A) dB(A)	56 88	56 88	58 90	58 90	58 90	59 91	59 92
SIZE AND WEIGHT	(0)(3)	UD(A)	00	00	90	90	90	91	92
\ \	(10)	mm	3100	3100	4000	4900	4900	5800	7000
3	(10)	mm	2260	2260	2260	2260	2260	2260	2260
1	(10)	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	(10)	kg	2270	2350	3130	4070	4230	4570	6040
TRCS2-G05-Z/SL-CA-	E		0712	0853	0913	1013	1054	1154	
Power supply	E V/ph/Hz		0712 400/3/50	0853 400/3/50	0913 400/3/50	1013 400/3/50	1054 400/3/50	1154 400/3/50	
Power supply \PERFORMANCE	V/ph/Hz		400/3/50			400/3/50	400/3/50	400/3/50	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS) Cooling capacity	V/ph/Hz VALUE) (1)	kW	400/3/50 786,2	400/3/50 894,0	400/3/50 956,7	400/3/50 1071	400/3/50 1168	400/3/50 1313	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS ' Cooling capacity Total power input	V/ph/Hz VALUE) (1) (1)	kW	400/3/50 786,2 233,3	400/3/50 894,0 263,0	400/3/50 956,7 279,5	400/3/50 1071 316,2	400/3/50 1168 335,5	400/3/50 1313 382,5	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS ' Cooling capacity Total power input EER	V/ph/Hz VALUE) (1) (1) (1)		400/3/50 786,2	400/3/50 894,0	400/3/50 956,7	400/3/50 1071	400/3/50 1168	400/3/50 1313	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS ' Cooling capacity Total power input EER COOLING ONLY (EN14511 VA	V/ph/Hz VALUE) (1) (1) (1) ALUE)	kW kW/kW	400/3/50 786,2 233,3 3,370	400/3/50 894,0 263,0 3,399	956,7 279,5 3,423	400/3/50 1071 316,2 3,387	400/3/50 1168 335,5 3,481	400/3/50 1313 382,5 3,433	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS 'Cooling capacity Total power input EER COOLING ONLY (EN14511 VA	V/ph/Hz VALUE) (1) (1) (1)	kW	400/3/50 786,2 233,3	400/3/50 894,0 263,0	400/3/50 956,7 279,5	400/3/50 1071 316,2	400/3/50 1168 335,5	400/3/50 1313 382,5	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING capacity EER Cooling energy class	V/ph/Hz (1) (1) (1) ALUE) (1)(2) (1)(2)	kW kW/kW	786,2 233,3 3,370 784,3 3,330 A	894,0 263,0 3,399 891,6 3,360 A	956,7 279,5 3,423 953,9 3,380 A	1071 316,2 3,387 1068 3,350 A	1168 335,5 3,481 1164 3,430 A	1313 382,5 3,433 1309 3,380 A	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS IN COOLING CAPACITY COOLING ONLY (EN14511 VACCOOLING CAPACITY CA	V/ph/Hz (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4)	kW kW/kW	786,2 233,3 3,370 784,3 3,330	894,0 263,0 3,399 891,6 3,360	956,7 279,5 3,423 953,9 3,380	1071 316,2 3,387 1068 3,350	400/3/50 1168 335,5 3,481 1164 3,430	1313 382,5 3,433 1309 3,380	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS 'Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING CAPACITY Cooling capacity EER COOLING energy class SEPR COOLING ONLY (GROSS VAL	V/ph/Hz (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4)	kW kW/kW	786,2 233,3 3,370 784,3 3,330 A	894,0 263,0 3,399 891,6 3,360 A	956,7 279,5 3,423 953,9 3,380 A	1071 316,2 3,387 1068 3,350 A	1168 335,5 3,481 1164 3,430 A	1313 382,5 3,433 1309 3,380 A	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS 'Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING CAPACITY Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VALIG®C/10°C	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE)	kW kW/kW kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44	894,0 263,0 3,399 891,6 3,360 A 6,36	956,7 279,5 3,423 953,9 3,380 A 6,51	1071 316,2 3,387 1068 3,350 A 6,53	1168 335,5 3,481 1164 3,430 A 6,20	1313 382,5 3,433 1309 3,380 A 6,43	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VALIG® C/10° C Cooling capacity	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5)	kW kW/kW kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44	894,0 263,0 3,399 891,6 3,360 A 6,36	956,7 279,5 3,423 953,9 3,380 A 6,51	1071 316,2 3,387 1068 3,350 A 6,53	400/3/50 1168 335,5 3,481 1164 3,430 A 6,20	1313 382,5 3,433 1309 3,380 A 6,43	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING capacity EER Cooling capacity EER COOLING ONLY (GROSS VALIDE COOLING ONLY (GROSS VALIDE COOLING CAPACITY Total power input	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE)	kW kW/kW kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44	894,0 263,0 3,399 891,6 3,360 A 6,36	956,7 279,5 3,423 953,9 3,380 A 6,51	1071 316,2 3,387 1068 3,350 A 6,53	1168 335,5 3,481 1164 3,430 A 6,20	1313 382,5 3,433 1309 3,380 A 6,43	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C	V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5)	kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516	894,0 263,0 3,399 891,6 3,360 A 6,36	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Cooling capacity	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6)	kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS of Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING ONLY (GROSS VALIDADE) Cooling capacity EER COOLING ONLY (GROSS VALIDADE) COOLING ONLY (GROSS VALIDADE) COOLING ONLY (GROSS VALIDADE) COOLING CONLY (GROSS VALIDADE) COOLING CAPACITY COOLING C	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW/kW kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS Value) Cooling capacity Cooling capacity EER COOLING ONLY (EN14511 VACCOOLING energy class EEPR COOLING ONLY (GROSS VALUE) COOLING CONLY (GROSS VALUE) COOLING capacity Cooling capacity Cotal power input EER 23°C/15°C Cooling capacity Cotal power input COOLING COOLING CAPACITY CA	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6)	kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Foodling Cooling Capacity Cooling capacity FER COOLING ONLY (EN14511 VA Cooling capacity FER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Foodling capacity Foodling Cooling Capacity Foodling Cooling Capacity Foodling Capacity Foodling Capacity FOODLING ONLY (GROSS VAL 16°C/10°C Cooling Capacity FOOTLING ONLY (GROSS VAL 16°C/10°C Cooling Capacity FOOTLING ONLY (GROSS VAL 16°C/10°C Cooling Capacity FOOTLING ONLY (GROSS VAL 16°C/10°C COOLING O	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6)	kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER E3°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop	V/ph/Hz (1) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R	kW kW/kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTUAL COOLING	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VALOCING capacity fotal power input EER COOLING ONLY (EN14511 VACOCING capacity EER COOLING ONLY (GROSS VALOCING CAPACITY COOLING ONLY (GROSS VALOCING CAPACITY EER COOLING ONLY (GROSS VALOCING CAPACITY ECT COOLING CAPACITY EER EXCHANGERS HEAT EXCHANGER USER SINATER TOOP REFRIGERANT CIRCUIT Compressors nr.	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAL 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS V Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTUAL COOLING	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) (1)(2)	kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 7ION 37,60 31,0	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3 3 2 410	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4 4 2 500	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 62,77 46,0 4 2 580	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTUAL COOLING	V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0	894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTORIA) Cooling capacity Total power input EER COOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (GROSS VALIDADE) TOTAL POWER COOLING ONLY (GROSS VALIDADE) TOTAL POWER COOLING CAPACITY TOTAL POWER COOLING CAPACITY TOTAL POWER CAPACITY TOTAL	V/ph/Hz VALUE) (1) (1) (1) (1) (1) (1) (2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) (8)(9)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 710N 37,60 31,0 2 1 310	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3 3 2 410 60 93	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 2 450	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7 3 2 520	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4 4 2 500	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 62,77 46,0 4 2 580	
PERFORMANCE REFRIGERAZIONE (GROSS 'Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER COOLING ONLY (GROSS VALI 16°C/10°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SI WAter flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 TION 37,60 31,0 2 1 310 59 92 7900	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3 3 2 410 60 93 8500	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 2 450 60 93	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7 3 2 520 60 93	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4 4 2 500 61 94	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 62,77 46,0 4 2 580 62 95	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTUAL COOLING COOLING CAPACITY COOLING ONLY (EN14511 VAICTUAL COOLING CAPACITY COOLING CAPACITY EER COOLING ONLY (GROSS VALIG*C/10*C COOLING CAPACITY CA	V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 7ION 37,60 31,0 2 1 310 59 92	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3 3 2 410 60 93 8500 2260	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 2 450 60 93	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7 3 2 520 60 93 10600 2260	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4 4 2 500 61 94	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 62,77 46,0 4 2 580 62 95	
Power supply PERFORMANCE REFRIGERAZIONE (GROSS VICTORING COOLING CAPACITY COOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING CAPACITY COOLING CAPACITY COOLING ONLY (GROSS VALIDED COOLING CAPACITY CAPACI	V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10)	kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A)	786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 TION 37,60 31,0 2 1 310 59 92 7900	400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 3,868 42,75 35,3 3 2 410 60 93 8500	956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 2 450 60 93	1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 35,7 3 2 520 60 93	1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 42,4 4 2 500 61 94	1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 62,77 46,0 4 2 580 62 95	





"EXPERIENCE IS BY FAR THE BEST PROOF"

Sir Francis BaconBritish philosopher (1561-1626)



Telecom Data Center Tier IV

2016 Rome - Italy

Investor:
Telecom
Application:
Data Center
Plant type:
Hydronic System

Cooling capacity:
7804 kW
Installed machines:
3x TECS2/SL-CA-S high
efficiency chillers with oil-free
compressors,
5x high efficiency chillers with
fixed speed and variable speed



compressors.

CHALLENGE

5 →

The cooling system is based on high efficiency RC units, linked to centralized free cooling and geo cooling systems.

PROJECT

The structure has just been certified as TIER IV by Uptime Institute. That is to say, that these facilities have multiple, independent, and physically isolated systems that provide redundant capacity components and multiple, independent, diverse, and active distribution paths, which simultaneously serve the critical environment, achieving a fully Fault Tolerant infrastructure.

SOLUTION

Specifically, the M&E designers have selected 3 chillers with oil-free compressors and 5 chillers with fixed speed and variable speed screw compressors, getting a total cooling capacity of 7,800 kW. The large experience in air conditioning and the reliability of its solutions make Mitsubishi Electric Hydronics and IT Cooling System the ideal partner for cooling TIER IV data centers, like the newly certified Telecom IT structure in Acilia.

Fastweb Datacenter, Tier IV

2014 Milan - Italy

Data Center

Plant type: Hydronic System Cooling capacity: 2800 kW Installed machines: 4x oil-free compressor chillers

4x oil-free compressor chillers, 2x Optimization and control systems for the HVAC plant



Nos Data Centre

2018 Carnaxide - Portugal

Data Center

Plant type: Hydronic System Cooling capacity: 510 kW Installed machines: 1x high efficiency chiller with oil-free compressor



Wuxi National Super Computing Data Center

2016 Jiangsu Province - China

Data Center

Plant type: Hydronic System Installed machines:

18x water cooled chillers with oil-free

compressors



ECMWF - European Centre for Medium-Range Weather Forecasts

2013 Reading - Great Britain

Data Center - Office building

Plant type: Hydronic System Cooling capacity: 4596 kW Installed machines:

6x chillers with oil-free compressors, 2x high efficiency extra low noise chillers

with oil-free 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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