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

IT COOLING

CHILLERS





TRC\$2-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 | P513A | 631 | NON flammable |
| PR454B | 466 | MILDLY flammable | ^T 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).

*IPCC AR4 **ASHRAE 34 - ISO 817

SIMPLIFIED LOGISTICS



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.

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.

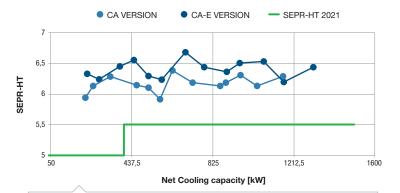


TECHNOLOGICAL CHOICES

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.

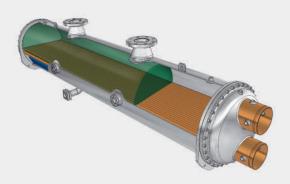


Every version of TECS2-G05, is erp 2021 compliant for High temperature Process application, and is at the maximum level of efficiency at both partial and full load

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.

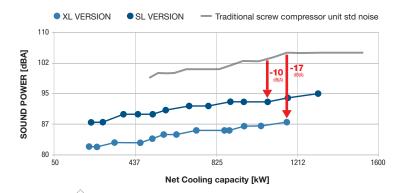
EC FANS FOR A SUPER SILENT OPERATION

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

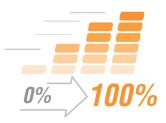
Committed to ensure the highest standards of reliability, TRCS2-G05-Z includes a full range of devices and functions that maximize unit's uptime in case of emergency circumstances.

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.

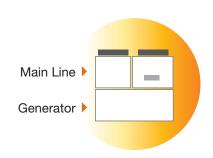
Fast restart - UPS excluded (Opt.4501)

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 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 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.





| TRCS2-G05-Z/SL-CA | | | 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 | IIE, | | | | | | | | |
| COOLING ONLY (GROSS VAI Cooling capacity | _UE) (1) | kW | 230,4 | 255,9 | 343,3 | 437,9 | 502,5 | 567,3 | 643,1 |
| Total power input | (1) | kW | 70,85 | 80,82 | 110,0 | 137,7 | 160,7 | 173,5 | 207,2 |
| EER | | kW/kW | 3,254 | 3,167 | 3,121 | 3,180 | 3,127 | 3,270 | 3,104 |
| COOLING ONLY (EN14511 VA | • | kW | 000.6 | 055.0 | 240.4 | 406.0 | E01.0 | ECE 7 | 641.0 |
| Cooling capacity EER | (1)(2) (1)(2) | | 229,6 3,210 | 255,2 3,130 | 342,4 3,090 | 436,9 3,150 | 501,3 3,100 | 565,7 3,230 | 641,9 3,080 |
| Cooling energy class | (')(=) | 10071000 | Α | Α | Α | Α | Α | A | Α |
| SEPR | (3)(4) | | 5,80 | 5,87 | 6,04 | 5,92 | 6,00 | 5,68 | 6,15 |
| COOLING ONLY (GROSS VAI 16°C/10°C | LUE) | | | | | | | | |
| Cooling capacity | (5) | kW | 254,9 | 282,6 | 376,8 | 483,5 | 554,5 | 649,1 | 739,0 |
| Total power input | (5) | kW | 71,05 | 81,17 | 113,4 | 138,1 | 161,4 | 186,9 | 212,8 |
| EER | (5) | kW/kW | 3,590 | 3,480 | 3,323 | 3,501 | 3,436 | 3,473 | 3,473 |
| 23°C/15°C Cooling capacity | (6) | kW | 296,3 | 330,2 | 453,0 | 565,0 | 649,7 | 710,8 | 849,7 |
| Total power input | (6) | kW | 70,49 | 81,28 | 116,2 | 137,7 | 162,0 | 193,5 | 217,5 |
| EER | (6) | kW/kW | 4,203 | 4,062 | 3,898 | 4,103 | 4,010 | 3,673 | 3,907 |
| EXCHANGERS HEAT EXCHANGER USER SI | DE IN D | EEDICED AT | TON | | | | | | |
| Water flow | DE IN K (1) | /s | 11,02 | 12,24 | 16,42 | 20,94 | 24,03 | 27,13 | 30,76 |
| Pressure drop | (1)(2) | kPa | 35,7 | 27,0 | 28,1 | 27,0 | 27,0 | 34,4 | 20,7 |
| REFRIGERANT CIRCUIT | | NIO. | 4 | | | 0 | 0 | 0 | 0 |
| Compressors nr. No. Circuits | | N° N° | 1 1 | 1 1 | 1 1 | 2 1 | 2 1 | 2 1 | 2 1 |
| Refrigerant charge | | kg | 100 | 100 | 120 | 210 | 180 | 210 | 240 |
| NOISE LEVEL | | | | | | | | | |
| Sound Pressure | (7) | dB(A) | 56 88 | 56 88 | 58 90 | 58 90 | 58 90 | 59 91 | 59 92 |
| Sound power level in cooling SIZE AND WEIGHT | (8)(9) | dB(A) | 80 | δδ | 90 | 90 | 90 | 91 | 92 |
| A | (10) | mm | 3100 | 3100 | 4000 | 4900 | 4900 | 5800 | 7000 |
| В | (10) | mm | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 |
| H Operating weight | (10) (10) | mm kg | 2430 2320 | 2430 2370 | 2430 3050 | 2430 4000 | 2430 4240 | 2430 4530 | 2430 5800 |
| operating weight | (, | 9 | 2020 | 20.0 | 0000 | .000 | | .000 | 0000 |
| | | | | | | | | | |
| TRCS2-G05-Z/XL-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 | IIE) | V/ph/Hz | | | | | | | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI | - | V/ph/Hz kW | 400/3/50 | | | | | | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input | (1) (1) | kW kW | 400/3/50 733,3 225,0 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 1056 335,2 | 400/3/50 1173 373,3 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER | (1) (1) (1) | kW | 400/3/50 733,3 | 400/3/50 840,5 | 400/3/50 891,7 | 400/3/50 964,6 | 400/3/50 1056 | 400/3/50 1173 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER | (1) (1) (1) | kW kW kW/kW | 400/3/50 733,3 225,0 | 400/3/50 840,5 269,6 | 400/3/50 891,7 287,3 | 964,6 309,1 | 400/3/50 1056 335,2 | 400/3/50 1173 373,3 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI Cooling capacity EER Cooling energy class SEPR | (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling energy class | (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 | (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 | (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 | |
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| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI 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 | (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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 Total power input EER Total power input EER | (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) (5) (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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI 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 | (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (5) (6) (6) (6) | 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI Cooling capacity EER 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 | (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 TION 35,07 | 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI 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 | (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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI Cooling capacity EER 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 | (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 TION 35,07 | 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 Total power input EER EXCHANGERS HEAT EXCHANGER USER SI 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 | 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VA 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 | (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 7ION 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 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VAI 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 | (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 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 TION 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VA 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 | (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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 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 | (1) (1) (1) (1) (1) (1) (2) (1)(2) (1 | kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT 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 7ION 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 | 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 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C 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 | (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)(2) (1)(2) (1)(2) (1)(2) (1)(2) (1)(2) | kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° N° kg dB(A) dB(A) | 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 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 | 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI 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 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 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 7ION 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 | 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 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 VA Cooling capacity EER Cooling capacity EER COOLING ONLY (GROSS VAI 16°C/10°C 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 | (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)(2) (1)(2) (1)(2) (1)(2) (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) | 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 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 | 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 | 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 | |





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 | | 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 VA | LUE) | | | | | | | | |
| Cooling capacity | (1) | kW | 217,9 | 252,4 | 338,6 | 431,0 | 519,2 | 573,0 | 634,0 |
| Total power input | (1) | kW | 68,84 | 79,54 | 109,0 | 135,9 | 165,3 | 171,1 | 205,8 |
| EER COOLING ONLY (EN14511 V | (1) | kW/kW | 3,167 | 3,175 | 3,106 | 3,171 | 3,141 | 3,349 | 3,081 |
| Cooling capacity | (1)(2) | kW | 217,2 | 251,7 | 337,7 | 430,0 | 517,9 | 571,4 | 632,9 |
| EER | (1)(2) | kW/kW | 3,120 | 3,140 | 3,070 | 3,140 | 3,110 | 3,310 | 3,060 |
| Cooling energy class | (0) (4) | | A | A | В | A | A | A | В |
| SEPR COOLING ONLY (GROSS VA | (3)(4) | | 5,93 | 6,13 | 6,28 | 6,14 | 6,10 | 5,92 | 6,38 |
| 16°C/10°C | LUL) | | | | | | | | |
| Cooling capacity | (5) | kW | 240,7 | 278,6 | 387,1 | 475,4 | 573,1 | 647,9 | 726,1 |
| Total power input | (5) | kW | 69,03 | 79,90 | 110,0 | 136,3 | 166,1 | 179,5 | 206,5 |
| EER 23°C/15°C | (5) | kW/kW | 3,488 | 3,487 | 3,519 | 3,488 | 3,450 | 3,609 | 3,516 |
| Cooling capacity | (6) | kW | 281,3 | 326,3 | 445,4 | 557,1 | 671,5 | 740,2 | 836,0 |
| Total power input | (6) | kW | 68,83 | 80,21 | 113,6 | 136,2 | 166,9 | 187,6 | 212,9 |
| EER | (6) | kW/kW | 4,089 | 4,069 | 3,921 | 4,090 | 4,023 | 3,946 | 3,927 |
| EXCHANGERS HEAT EXCHANGER USER SI | DE IN R | EFRIGERA | TION | | | | | | |
| Water flow | (1) | l/s | 10,42 | 12,07 | 16,19 | 20,61 | 24,83 | 27,40 | 30,32 |
| Pressure drop | (1)(2) | kPa | 32,0 | 26,3 | 27,3 | 26,2 | 28,8 | 35,1 | 20,1 |
| REFRIGERANT CIRCUIT 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 | () | -ID(A) | 50 | 50 | F.4 | F-4 | F0 | F0 | 50 |
| Sound Pressure Sound power level in cooling | (8)(9) | dB(A) dB(A) | 50 82 | 50 82 | 51 83 | 51 83 | 52 84 | 52 85 | 52 85 |
| SIZE AND WEIGHT | (6)(9) | UD(A) | 02 | 02 | 03 | 03 | 04 | 00 | 0.0 |
| A | (10) | mm | 3100 | 3100 | 4000 | 4900 | 5800 | 7000 | 7000 |
| В | (10) | mm | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 |
| H Operating weight | (10) (10) | mm kg | 2430 2370 | 2430 2420 | 2430 3200 | 2430 4240 | 2430 4690 | 2430 5350 | 2430 6150 |
| | , , | 9 | | | | | | | 0.00 |
| TRCS2-G05-Z/SL-CA- | Æ | | 0712 | 0853 | 0913 | 1013 | 1054 | 1154 | |
| | | | | | | | | | |
| Power supply | V/ph/Hz | | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | |
| Power supply PERFORMANCE | V/ph/Hz | | | | | | | | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VA | V/ph/Hz | kW | 400/3/50 730,0 | 400/3/50 865,8 | | | 400/3/50 | 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) | | 400/3/50 730,0 | 400/3/50 865,8 | 400/3/50 888,0 | 400/3/50 959,1 | 400/3/50 | 400/3/50 1163 | |
| Power supply PERFORMANCE COOLING ONLY (GROSS VAI Cooling capacity Total power input EER COOLING ONLY (EN14511 V | V/ph/Hz LUE) (1) (1) (1) ALUE) | 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 EER | V/ph/Hz LUE) (1) (1) (1) | 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 | V/ph/Hz (1) (1) (1) (1) ALUE) (1)(2) (1)(2) | 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 | 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 | 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 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 Cooling capacity | V/ph/Hz LUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (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 | V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2) (1)(2) (3)(4) LUE) (5) (5) | 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 | V/ph/Hz LUE) (1) (1) (1) ALUE) (1)(2) (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) (1)(2) (3)(4) LUE) (5) (5) | 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 1149 331,8 3,463 1346 | 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) (2) (1)(2) (3)(4) LUE) (5) (5) (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 | 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 | V/ph/Hz LUE) (1) (1) (1) (1) ALUE) (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 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)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) | 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 | 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 EER EXCHANGERS HEAT EXCHANGER USER SI Water flow | V/ph/Hz LUE) (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 | 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 TION 34,91 | 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 | 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 | 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 (GROSS VAI 16°COING ONLY (GROSS VAI 16°COING apacity 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 LUE) (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 EFRIGERA l/s kPa | 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 TION 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 | 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 | 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 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. | V/ph/Hz LUE) (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 | 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 TION 34,91 | 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 REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge | V/ph/Hz LUE) (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 EFRIGERA 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 TION 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 | 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 NOISE LEVEL | V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) (1)(2) | kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° kg | 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 TION 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 | 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 | 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 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 PREFRIGERANT CIRCUIT Compressors nr. No. Circuits REGRIGERANT CIRCUIT COMPRESSORS IN CONSELEVEL SOUND PRESSURE NOISE LEVEL SOUND PRESSURE | V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) | kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° kg | 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 TION 34,91 26,7 2 1 310 53 | 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 | 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 | 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 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 | V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) (7) (1)(2) | kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° kg | 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 TION 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 | 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 | 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 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) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (1)(2) | kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERA 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 | 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 9700 | 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 | 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) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10) | kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° N° kg dB(A) dB(A) | 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 TION 34,91 26,7 2 1 310 53 86 7900 2260 | 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 | 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 10600 2260 | 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 11200 2260 | 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 PREFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT A B H | V/ph/Hz LUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (1)(2) (7) (8)(9) (10) (10) (10) | kW kW/kW kW/kW kW/kW kW/kW kW/kW EFRIGERA 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 710N 34,91 26,7 2 1 310 53 86 7900 2260 2430 | 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 B 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) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8)(9) (10) (10) | kW kW/kW kW/kW kW/kW kW/kW EFRIGERA I/s kPa N° N° kg dB(A) dB(A) | 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 TION 34,91 26,7 2 1 310 53 86 7900 2260 | 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 | 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 10600 2260 | 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 11200 2260 | 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.

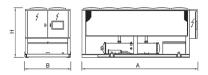
 10 Unit in standard configuration/execution, without optional accessories.

 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 VA) Cooling capacity | | kW | 226,4 | 282,8 | 381,9 | 450,5 | 520,5 | E02 E | 695,8 |
| Total power input | (1) (1) | kW | 67,41 | 262,6 81,04 | 112,7 | 133,0 | 154,1 | 583,5 168,3 | 203,5 |
| EER | (1) | kW/kW | 3,359 | 3,491 | 3,389 | 3,387 | 3,378 | 3,467 | 3,419 |
| COOLING ONLY (EN14511 V | , , | , | 0,000 | 0, .0 . | 0,000 | 0,00. | 0,0.0 | 0, 101 | 5,115 |
| 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 | | | Α | Α | Α | Α | Α | Α | Α |
| SEPR | (3)(4) | | 6,32 | 6,24 | 6,45 | 6,56 | 6,29 | 6,23 | 6,68 |
| COOLING ONLY (GROSS VAI | LUE) | | | | | | | | |
| 16°C/10°C | (E) | kW | 250,5 | 308,4 | 414,8 | 498,1 | 594,6 | 636,1 | 756,7 |
| Cooling capacity Total power input | (5) (5) | kW | 67,53 | 85,47 | 117,1 | 133,3 | 167,2 | 177,7 | 209,9 |
| EER | (5) | kW/kW | 3,711 | 3,607 | 3,542 | 3,737 | 3,556 | 3,580 | 3,605 |
| 23°C/15°C | (0) | , | 5, | 0,007 | 0,0 .2 | 0,107 | 0,000 | 0,000 | 0,000 |
| 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 |
| EER | (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 |
| Water flow | (1)(2) | l/s kPa | 10,83 | 13,52 | 18,26 | 21,55 | 24,89 | 27,90 | 33,27 |
| Pressure drop REFRIGERANT CIRCUIT | (1)(2) | кга | 34,5 | 33,0 | 34,7 | 28,6 | 29,0 | 36,4 | 24,2 |
| Compressors nr. | | N° | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | i | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 100 | 100 | 130 | 220 | 220 | 240 | 270 |
| NOISE LEVEL | | Ü | | | | | | | |
| Sound Pressure | (7) | dB(A) | 56 | 56 | 58 | 58 | 58 | 59 | 59 |
| Sound power level in cooling | (8)(9) | dB(A) | 88 | 88 | 90 | 90 | 90 | 91 | 92 |
| SIZE AND WEIGHT | (4.0) | | 0400 | 0400 | 4000 | 4000 | 4000 | 5000 | 7000 |
| A B | (10) | mm | 3100 2260 | 3100 2260 | 4000 2260 | 4900 2260 | 4900 2260 | 5800 2260 | 7000 2260 |
| 5 H | (10) (10) | mm mm | 2430 | 2430 | 2430 | 2430 | 2430 | 2430 | 2430 |
| 11 | | | | | | | | 2400 | 2400 |
| Operating weight | . , | | | | | | | 4570 | 6040 |
| Operating weight | (10) | kg | 2270 | 2350 | 3130 | 4070 | 4230 | 4570 | 6040 |
| | (10) | | | | | | | 4570 1154 | 6040 |
| TRCS2-G05-Z/SL-CA- | (10) | | 2270 | 2350 | 3130 | 4070 | 4230 | | 6040 |
| TRCS2-G05-Z/SL-CA-Power supply PERFORMANCE | (10) E V/ph/Hz | | 2270 0712 | 2350 0853 | 3130 0913 | 4070 1013 | 4230 1054 | 1154 | 6040 |
| TRCS2-G05-Z/SL-CA-Power supply PERFORMANCE REFRIGERAZIONE (GROSS | (10) E V/ph/Hz VALUE) | kg | 2270 0712 400/3/50 | 2350 0853 400/3/50 | 3130 0913 400/3/50 | 4070 1013 400/3/50 | 4230 1054 400/3/50 | 1154 400/3/50 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity | (10) E V/ph/Hz VALUE) (1) | kg kW | 2270 0712 400/3/50 786,2 | 2350 0853 400/3/50 894,0 | 3130 0913 400/3/50 956,7 | 4070 1013 400/3/50 1071 | 4230 1054 400/3/50 1168 | 1154 400/3/50 1313 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input | (10) E V/ph/Hz VALUE) (1) (1) | kg kW kW | 2270 0712 400/3/50 786,2 233,3 | 2350 0853 400/3/50 894,0 263,0 | 3130 0913 400/3/50 956,7 279,5 | 4070 1013 400/3/50 1071 316,2 | 4230 1054 400/3/50 1168 335,5 | 1154 400/3/50 1313 382,5 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER | (10) E V/ph/Hz VALUE) (1) (1) (1) | kg kW kW | 2270 0712 400/3/50 786,2 | 2350 0853 400/3/50 894,0 | 3130 0913 400/3/50 956,7 | 4070 1013 400/3/50 1071 | 4230 1054 400/3/50 1168 | 1154 400/3/50 1313 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/ | (10) E V/ph/Hz VALUE) (1) (1) (1) ALUE) | kW kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 | 2350 0853 400/3/50 894,0 263,0 3,399 | 3130 0913 400/3/50 956,7 279,5 3,423 | 4070 1013 400/3/50 1071 316,2 3,387 | 4230 1054 400/3/50 1168 335,5 3,481 | 1154 400/3/50 1313 382,5 3,433 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/Cooling capacity | (10) E V/ph/Hz (1) (1) (1) (1)(2) | kW kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 | 4070 1013 400/3/50 1071 316,2 3,387 1068 | 4230 1054 400/3/50 1168 335,5 3,481 1164 | 1154 400/3/50 1313 382,5 3,433 1309 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/COOLING CAPACITY) Cooling capacity EER | (10) E V/ph/Hz VALUE) (1) (1) (1) ALUE) | kW kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 | 2350 0853 400/3/50 894,0 263,0 3,399 | 3130 0913 400/3/50 956,7 279,5 3,423 | 4070 1013 400/3/50 1071 316,2 3,387 | 4230 1054 400/3/50 1168 335,5 3,481 | 1154 400/3/50 1313 382,5 3,433 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/C Cooling capacity EER Cooling capacity EER Cooling energy class | (10) E V/ph/Hz (1) (1) (1) (1)(2) | kW kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input TER COOLING ONLY (EN14511 V/Cooling capacity TER Cooling capacity TER Cooling energy class TER COOLING ONLY (GROSS VAI | (10) E V/ph/Hz VALUE) (1) (1) (1) (2) (1)(2) (3)(4) | kW kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS 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 | (10) E V/ph/Hz (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) | kW kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/Cooling capacity EER Cooling energy class SEPP COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity | (10) E V/ph/Hz (1) (1) (1) (1)(2) (1)(2) (1)(2) (3)(4) LUE) (5) | kg kW kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 W Cooling capacity EER Cooling energy class SEPR COOLING ONLY (GROSS VAI 16°C/10°C Cooling capacity Total power input | (10) E V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) | kg kW kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS 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 | (10) E V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) | kg kW kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS 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 | (10) E V/ph/Hz (1) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (5) | kg kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS 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 | (10) E VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) | kg kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 | 6040 |
| PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V. Cooling capacity EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Total power input EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Total power input EER 22°C/15°C Cooling capacity Total power input TER 22°C/15°C Cooling capacity Total power input | (10) E V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) | kg kW kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS 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 Cooling capacity Total power input EER Cooling capacity Total power input EER | (10) E V/ph/Hz VALUE) (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) | kg kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 V/Cooling capacity EER Cooling energy class EEPR 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 capacity Total power input EER EXCHANGERS | (10) E V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) | kg kW kW/kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 | 2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 A 6,36 1012 282,4 3,584 1128 291,6 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 | 6040 |
| PERFORMANCE REFRIGERAZIONE (GROSS 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 22°C/15°C Cooling capacity Total power input EER EER EER EER EER EER EER EER EER EE | (10) E V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1) | kg kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 7ION 37,60 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 51,24 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 55,85 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 | 6040 |
| POWER SUPPLY PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Fotal power input EER COOLING ONLY (EN14511 W Cooling capacity EER COOLING ONLY (GROSS VAI BECOLING ONLY (GROSS VAI BECOLING ONLY (GROSS VAI BECOLING CAPACITY Cooling capacity Fotal power input EER 23°C/15°C Cooling capacity Fotal power input EER EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop | (10) E W/ph/Hz (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) DE IN R | kW kW kW/kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 | 4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 A 6,53 1165 327,2 3,561 1352 342,8 3,944 | 4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 A 6,20 1274 354,3 3,596 1460 378,8 3,854 | 1154 400/3/50 1313 382,5 3,433 1309 3,380 A 6,43 1428 400,1 3,569 1651 422,8 3,905 | 6040 |
| POWER SUPPLY PERFORMANCE REFRIGERAZIONE (GROSS COOLING CALLEY COOLING ONLY (EN14511 V. COOLING ONLY (EN14511 V. COOLING ONLY (GROSS VAL 16°C/10°C COOLING CALLEY CALL | (10) E V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1) | kg kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| POWER SUPPLY PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Fotal power input EER COOLING ONLY (EN14511 V/Cooling capacity EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input EER COOLING CAPACITY FOTAL POWER COOLING COOLING CAPACITY FOTAL POWER COOLING CAPACITY FOTAL | (10) E V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1) | kg kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Fotal power input EER COOLING ONLY (EN14511 V/Cooling capacity EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input EER COOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input EER COCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits | (10) E V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1) | kg kW kW/kW kW/kW kW/kW kW/kW EFRIGERAT I/s kPa N° | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity FERECOOLING ONLY (EN14511 V. Cooling capacity FERECOOLING ONLY (GROSS VAI Gooling capacity FERECOOLING ONLY (GROSS VAI Gooling capacity FERECOOLING ONLY (GROSS VAI Gooling capacity FERECOOLING CONLY (GROSS VAI Gooling capacity FOR COOLING CONLY (GROSS VAI GOOLING CAN FERECOOLING CAN FOR COOLING CONLY FOR COOLING CAN FOR COOLING CONLY FOR COOLING COOLING FOR COOLING COOLING FOR | (10) E V/ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (6) DE IN R (1) | kg kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 A 6,51 1043 289,9 3,598 1206 304,6 3,959 45,75 40,4 3 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| TRCS2-G05-Z/SL-CA- Power supply PERFORMANCE REFRIGERAZIONE (GROSS Cooling capacity Total power input EER COOLING ONLY (EN14511 W 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 | (10) E V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1)(2) | kg kW kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW/kW kW/kW kPa N° kg | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 FION 37,60 31,0 2 1 310 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 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 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| POWER SUPPLY COOLING ONLY (GROSS VAI COOLING CONLY (GROSS VAI COOLING CAPACITY COOLING CONLY (GROSS VAI COOLING CAPACITY CAPACITY COOLING CAPACITY CAPA | (10) E V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) | kg kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 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 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| POWER SUPPLY COOLING ONLY (EN14511 V. Cooling capacity FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling Capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling Capacity Fotal power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling Capacity Fotal Power input FERPOLING ONLY (GROSS VAI 6°C/10°C Cooling Capacity Fotal Only (GROSS VAI 6°C/10°C FOTAL ONLY (GROSS VAI 6°C FOTAL ONLY (GROSS VAI 6°C FOTAL ONLY (GROSS VAI 6°C | (10) E V/ph/Hz VALUE) (1) (1) (1) (1) (2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) (8) (9) (1) (1)(2) | kg kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 FION 37,60 31,0 2 1 310 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 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 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
| POWER SUPPLY PERFORMANCE REFRIGERAZIONE (GROSS 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 22°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 | (10) E V/ph/Hz VALUE) (1) (1) (1) (1)(2) (1)(2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) | kg kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) | 2270 0712 400/3/50 786,2 233,3 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 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 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 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 | 1154 400/3/50 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 | 6040 |
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| TRCS2-G05-Z/SL-CA- | (10) E V/ph/Hz VALUE) (1) (1) (1) (1) (1) (2) (3)(4) LUE) (5) (5) (6) (6) (6) (7) DE IN R (1) (1)(2) (1)(2) | kg kW kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW EFRIGERAT I/s kPa N° kg dB(A) dB(A) mm | 2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 A 6,44 854,3 243,0 3,516 987,0 255,5 3,863 FION 37,60 31,0 2 1 310 59 92 7900 | 2350 0853 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 | 3130 0913 400/3/50 956,7 279,5 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 9700 | 4070 1013 400/3/50 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 | 4230 1054 400/3/50 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 11200 | 1154 400/3/50 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 12400 | 6040 |





"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

対ラ

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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