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

COMFORT

CHILLERS





TEGS2-G05

THE SILENT CHILLER OPERATING AT GREEN EFFICIENCY





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

Resulting from the recognised prestige of Climaveneta brand products utilising magnetic levitation technology, TECS2-G05 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, TECS2-G05 also feature a very compact layout and silent operation that make this unit the ideal solution for any comfort application.

COMFORT APPLICATIONS

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



UNBEATABLE EFFICIENCY AT PART LOAD

At partial loads, TECS2-G05 units are by far more efficient than traditional scroll/screw units, with SEER values up to 60% higher.

Running cost savings are evident and consistent, especially when all year round operation is required.



EXTREMELY SILENT OPERATION

Thanks to the oil-free compressor with magnetic levitation and the EC fans, TECS2-G05 sound power and pressure are very low, without peaks in any of the sound frequency spectrum.

Vibrations are dramatically reduced as well, with considerable advantages in terms of transmission to the building.

ACOUSTIC VERSIONS

SL-CA

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



TECS2-G05 is the result of Mitsubishi Electric Hydronics & IT Cooling Systems' extensive approach to sustainability.

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

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

Fully committed to support the creation of a greener tomorrow, Mitsubishi Electric Hydronics & IT Cooling Systems designed TECS2-G05, a complete chiller range with reduced environmental impact, optimized for R513A refrigerant.

Combining brilliant annual efficiency with the use of a low GWP refrigerant, TECS2-G05 tackles both the indirect (due to primary energy consumption) and the direct global warming, thus resulting in the perfect choice for any new, forward-looking cooling system.







REFRIGERANT BENCHMARK

© SCROLI	L ,	7	SCREW		
Refrigerant	GWP*	Flammability**	Refrigerant	GWP*	Flammability**
TR410A	2088	NON flammable	R134a	1430	NON flammable
r) R32	675	MILDLY flammable	R513A	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 TECS2-G05, is a brilliant exception: it offers a -56% GWP reduction compared to R134a's while ensuring complete non-toxicity and non-flammability (Class A1 of ASHRAE 34, ISO 817).

*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.

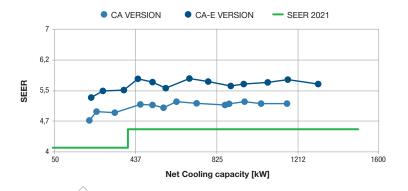


TECHNOLOGICAL CHOICES

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 in all-year -round operations, is therefore strongly increased.

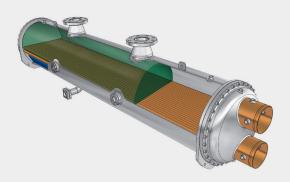
A profound knowledge is necessary to harness such a concentration of technology and here is where Climaveneta brand really makes the difference thanks to its profound experience in magnetic levitation compressor units and thousands of projects all over the world.



The chart shows as all TECS2-G05 versions are far above SEER 2021 limits. Right and safe solution for your building future design.

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 and a substantial increase of the cooling capacity.





W3000TE CONTROL AND USER-FRIENDLY INTERFACE

The logic behind TECS2-G05 is the W3000TE control software.

Characterized by advanced functions and algorithms, W3000TE features proprietary settings that ensure faster adaptive responses to different dynamics, in all operating conditions:

Efficiency, silent operation and reliability. But also compact dimensions and reduced weight. These are the main features that make TECS2-G05 the ideal solution for comfort applications.

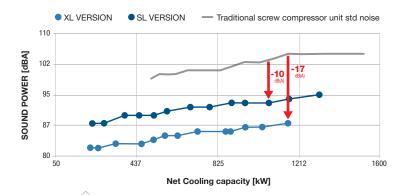
EC FANS FOR A SUPER SILENT OPERATION

On TECS2-G05 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 SEER 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.



TECS2-G05 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).





TECS2-G05 0211 - 1154

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

TECS2-G05/SL-CA			0211	0251	0351	0452	0512	0552	0652
Power supply V PERFORMANCE	//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 VA	ALUE)								
Cooling capacity	(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	(1)	kW/kW	3,254	3,167	3,121	3,180	3,127	3,270	3,104
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 \				055.0	0.40.4	400.0	504.0	505 7	244.0
Cooling capacity	(1)(2)	kW	229,6	255,2	342,4	436,9	501,3	565,7	641,9
EER ESEER		kW/kW kW/kW	3,210 4,600	3,130 4,760	3,090	3,150 4,880	3,100 4,920	3,230	3,080 4,840
Cooling energy class	(1)(2)	KVV/KVV	4,600 A	4,760 A	4,550 A	4,000 A	4,920 A	4,810 A	4,640 A
ENERGY EFFICIENCY				^				^	
SEASONAL EFFICIENCY IN	COOLIN	IG (Reg. EU	2016/2281)						
Ambient refrigeration		, ,	,						
Prated,c	(7)	kW	230	255	342	437	501	566	642
SEER	(7)(8)		4,76	4,92	4,86	5,07	5,16	5,03	5,11
Performance ηs	(7)(9)	%	188	194	192	200	203	198	201
EXCHANGERS									
HEAT EXCHANGER USER S				10 - :	40.15		0.4	.=	
Water flow	(1)	l/s	11,02	12,24	16,42	20,94	24,03	27,13	30,76
Pressure drop REFRIGERANT CIRCUIT	(1)	kPa	35,7	27,0	28,1	27,0	27,0	34,4	20,7
Compressors nr.		N°	1	1	1	2	2	2	2
Compressors nr. No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	100	100	120	210	180	210	240
NOISE LEVEL		9	.00	. 30	0	_10	. 50	_ , 0	0
Sound Pressure	(3)	dB(A)	56	56	58	58	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	88	88	90	90	90	91	92
SIZE AND WEIGHT									
4	(6)	mm	3100	3100	4000	4900	4900	5800	7000
В	(6)	mm	2260	2260	2260	2260	2260	2260	2260
	(6)	mm	2430	2430	2430	2430	2430	2430	2430
H									F000
H Operating weight	(6)	kg	2320	2370	3050	4000	4240	4530	5800
									5800
Operating weight TECS2-G05/SL-CA	(6)	kg	2320 0712	2370	3050	4000	4240	4530	5800
Operating weight TECS2-G05/SL-CA Power supply PERFORMANCE	(6)		2320	2370 0853	3050 0913	4000 1013	4240 1054	4530 1154	5800
Operating weight TECS2-G05/SL-CA Power supply	(6)	kg	2320 0712	2370 0853	3050 0913	4000 1013	4240 1054	4530 1154	5800
Operating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA	(6) ALUE)	kg V/ph/Hz	2320 0712 400/3/50	2370 0853 400/3/50	3050 0913 400/3/50	4000 1013 400/3/50	4240 1054 400/3/50	4530 1154 400/3/50	5800
Operating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA	(6) ALUE)	kg V/ph/Hz kW	2320 0712 400/3/50 733,3	2370 0853 400/3/50 840,5	3050 0913 400/3/50 891,7	4000 1013 400/3/50 964,6	4240 1054 400/3/50 1056	4530 1154 400/3/50 1173	5800
Operating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input	(6) ALUE) (1) (1)	kg V/ph/Hz kW kW	2320 0712 400/3/50 733,3 225,0	2370 0853 400/3/50 840,5 269,6	3050 0913 400/3/50 891,7 287,3	4000 1013 400/3/50 964,6 309,1	4240 1054 400/3/50 1056 335,2	4530 1154 400/3/50 1173 373,3	5800
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Poperating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Pratied,c SEER Performance ηs EXCHANGERS	(6) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A	5800
Poperating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING CONLY (GROSS VACCOOLING CONLY (EN14511 VACCOOLING CONLY	(6) (1) (1) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW REFRIGERA	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A	5800
Poperating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VACOUNTS ONLY (GROSS VACOUNTS ONLY (EN14511 NOTE ON THE ONLY (EN1451 N	(6) ALUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7)(8) (7)(9) SIDE IN (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW/kW KW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \(\eta\) EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(6) ALUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7)(8) (7)(9) SIDE IN (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	(6) ALUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7)(8) (7)(9) SIDE IN (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW KW KW KW KW KW KW KW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7	5800
Poperating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN1451 VACCOOL	(6) ALUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7)(8) (7)(9) SIDE IN (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4	5800
Poperating weight TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING CONLY (GROSS VACCOOLING CONLY (EN14511 Name) COOLING ONLY (EN14511 Name) COOLING ONLY (EN14511 Name) COOLING ONLY (EN14511 Name) COOLING CONLY (EN14511 Name) COOLING CONLY (EN14511 Name) COOLING CONLY (EN14511 Name) COOLING COOLING CONLY (EN14511 Name) COOLING COOLING CONLY (EN14511 Name) COOLING	(6) ALUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7) (7)(8) (7)(9) SIDE IN (1) (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW REFRIGERA l/s kPa N° kg	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VACOUNTS ONLY (GROSS	(6) ALUE) (1) (1) (1) (1) (1)(2) (1)(2) COOLI (7) (7)(8) (7)(9) SIDE IN (1) (1) (1) (3)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW/kW KW KW KW KW KW KW KW KW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280 59	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340 60	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430 60	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490 60	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480 61	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520 61	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling	(6) ALUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (7) (7)(8) (7)(9) SIDE IN (1) (1)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW REFRIGERA l/s kPa N° kg	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \(\gamma\) EXCHANGERS HEAT EXCHANGER USER S WAter flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	(6) ALUE) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) SIDE IN (1) (1) (1) (3) (4)(5)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280 59 92	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340 60 93	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430 60 93	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490 60 93	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480 61 94	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520 61 94	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	(6) (1) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (7)(8) (7)(9) (1) (1) (1) (1) (3) (4)(5) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW KW KW KW KW KW KW KW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280 59 92 7000	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340 60 93 8500	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430 60 93 9700	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490 60 93 10600	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480 61 94 11200	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520 61 94 11500	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN1451 VACCOOLING ONLY (E	(6) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW KW KW KW KW KW KW KW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280 59 92 7000 2260	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340 60 93 8500 2260	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430 60 93 9700 2260	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490 60 93 10600 2260	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480 61 94 11200 2260	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520 61 94 11500 2260	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound power level in cooling SIZE AND WEIGHT	(6) (1) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (7)(8) (7)(9) (1) (1) (1) (1) (3) (4)(5) (6)	kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW KW/kW KW/kW KW KW KW KW KW KW KW KW KW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230 4,920 A 2016/2281) 732 5,17 204 TION 35,07 26,9 2 1 280 59 92 7000	2370 0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200 40,19 31,2 3 2 340 60 93 8500	3050 0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199 42,64 35,1 3 2 430 60 93 9700	4000 1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490 60 93 10600	4240 1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4 2 480 61 94 11200	4530 1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7 4 2 520 61 94 11500	5800

- 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 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

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

 5 Sound power level in cooling, outdoors.

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

Certified data in EUROVENT



TECS2-G05/XL-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									
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	٠,	kW/kW	3,167	3,175	3,106	3,171	3,141	3,349	3,081
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 V		1.3.67	017.0	054.7	007.7	400.0	F47.0	F74 4	000.0
Cooling capacity EER	(1)(2) (1)(2)	kW kW/kW	217,2 3,120	251,7 3,140	337,7 3,070	430,0 3,140	517,9 3,110	571,4 3,310	632,9 3,060
ESEER	(/(/	kW/kW	4,610	4,860	4,670	4,990	4,980	4,900	4,990
Cooling energy class	(1)(2)	K V V / K V V	Α	4,000 A	н,ого В	4,550 A	4,360 A	4,300 A	н,350 В
ENERGY EFFICIENCY			7.	- ' '		- ' '		.,	
SEASONAL EFFICIENCY IN	COOLI	NG (Reg. EU	2016/2281)						
Ambient refrigeration			·						
Prated,c	(7)	kW	217	252	338	430	518	571	633
SEER	(7)(8)		4,77	4,99	4,96	5,16	5,15	5,08	5,23
Performance ηs	(7)(9)	%	188	197	195	203	203	200	206
EXCHANGERS									
HEAT EXCHANGER USER S				10.07	10.10	00.01	0.4.00	07.40	00.00
Vater flow Pressure drop	(1)	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)	KFd	32,0	20,3	21,3	20,2	20,0	30,1	20,1
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		,							
Sound Pressure	(3)	dB(A)	50	50	51	51	52	52	52
Sound power level in cooling SIZE AND WEIGHT	(4)(5)	dB(A)	82	82	83	83	84	85	85
A	(6)	mm	3100	3100	4000	4900	5800	7000	7000
3	(6)	mm	2260	2260	2260	2260	2260	2260	2260
Н	(6)	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	(6)	kg	2370	2420	3200	4240	4690	5350	6150
5 5	(0)	'\9	2010	2420	0200	4240	4000	0000	
	(0)	1.9	0712	0853	0913	1013	1054	1154	
TECS2-G05/XL-CA	. ,		0712	0853					
TECS2-G05/XL-CA Power supply	. ,	V/ph/Hz			0913	1013	1054	1154	
TECS2-G05/XL-CA Power supply PERFORMANCE			0712	0853	0913	1013	1054	1154	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA			0712	0853	0913	1013	1054	1154	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity	LUE)	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	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER	(1) (1) (1)	V/ph/Hz kW kW kW/kW	0712 400/3/50 730,0	0853 400/3/50 865,8	0913 400/3/50 888,0	1013 400/3/50 959,1	1054 400/3/50	1154 400/3/50 1163	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER	(1) (1) (1) (1) (1)	V/ph/Hz kW kW	0712 400/3/50 730,0 226,0	0853 400/3/50 865,8 279,0	0913 400/3/50 888,0 290,4	1013 400/3/50 959,1 311,0	1054 400/3/50 1040 330,3	1154 400/3/50 1163 376,9	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V.	(1) (1) (1) (1) (1) (ALUE)	V/ph/Hz kW kW kW/kW kW/kW	0712 400/3/50 730,0 226,0 3,230	0853 400/3/50 865,8 279,0 3,103	0913 400/3/50 888,0 290,4 3,058	1013 400/3/50 959,1 311,0 3,084	1054 400/3/50 1040 330,3 3,149	1154 400/3/50 1163 376,9 3,086	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity	(1) (1) (1) (1) (1) (1) (2)	V/ph/Hz kW kW kW/kW kW/kW	0712 400/3/50 730,0 226,0 3,230	0853 400/3/50 865,8 279,0 3,103	0913 400/3/50 888,0 290,4 3,058	1013 400/3/50 959,1 311,0 3,084	1054 400/3/50 1040 330,3 3,149	1154 400/3/50 1163 376,9 3,086	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 VA Cooling capacity EER	(1) (1) (1) (1) (1) (1) (2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200	0853 400/3/50 865,8 279,0 3,103 863,6 3,070	0913 400/3/50 888,0 290,4 3,058 885,7 3,030	1013 400/3/50 959,1 311,0 3,084 957,0 3,060	1054 400/3/50 1040 330,3 3,149 1037 3,120	1154 400/3/50 1163 376,9 3,086 1160 3,050	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 VA Cooling capacity EER ESEER	(1) (1) (1) (1) (1) (2) (1)(2)	V/ph/Hz kW kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling capacity	(1) (1) (1) (1) (1) (1) (2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200	0853 400/3/50 865,8 279,0 3,103 863,6 3,070	0913 400/3/50 888,0 290,4 3,058 885,7 3,030	1013 400/3/50 959,1 311,0 3,084 957,0 3,060	1054 400/3/50 1040 330,3 3,149 1037 3,120	1154 400/3/50 1163 376,9 3,086 1160 3,050	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY	(1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling capacity EER ESEER Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN	(1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 VA Cooling capacity EER ESEER	(1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAmbient refrigeration	(1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (1)(2)	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN (Ambient refrigeration Prated, c SEER Performance ηs	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7)	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηS EXCHANGERS	(1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SI	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (7)(9)	W/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW REFRIGERA	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESSER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMBIENT refrigeration Prated,c EER Performance \(\gamma\) Performance \(\gamma\) EXCHANGERS HEAT EXCHANGER USER SI Water flow	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMBIENT refrigeration Prated,c SEER Performance \(\text{NS} \) EER Performance \(\text{NS} \) EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (7)(9)	W/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW REFRIGERA	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B	959,1 311,0 3,084 957,0 3,060 4,990 B	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMbient refrigeration Prated, c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	kW kW/kW kW/	730,0 226,0 3,230 728,4 3,200 4,990 A 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMbient refrigeration Prated, c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW REFRIGERA I/s kPa N°	730,0 226,0 3,230 728,4 3,200 4,990 A 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8	1013 400/3/50 959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \(\text{y} \) EXECHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW REFRIGERA //s kPa N° N°	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW REFRIGERA I/s kPa N°	730,0 226,0 3,230 728,4 3,200 4,990 A 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8	1013 400/3/50 959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMBIENT refrigeration Prated,c SEER Performance \(\text{\text{9}} \) 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) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW % % REFRIGERA l/s kPa N° kg	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN CAMBIENT REFIGERACY Ambient refrigeration Prated,c SEER Performance \(\text{\text{9}} \) EXCHANGERS HEAT EXCHANGER USER SI Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (3)	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205 TION 34,91 26,7 2 1 310	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410 53	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3 2 520	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs 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	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW % % REFRIGERA l/s kPa N° kg	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205 TION 34,91 26,7	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance ηs 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)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (3)	V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW KW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205 TION 34,91 26,7 2 1 310	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410 53	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450	959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3 2 520	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1) (1) (1) (3) (4)(5)	kW kW/kW kW/	0712 400/3/50 730,0 226,0 3,230 728,4 3,200 4,990 A 1 2016/2281) 728 5,19 205 TION 34,91 26,7 2 1 310 53 86	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410 53 86	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450 53 86	1013 400/3/50 959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3 2 520 54 87	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580 55 88	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \(\gamma\) 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) (1) (1) (2) (1) (2) (1) (2) (1) (2) (7) (7) (8) (7) (9) (1) (1) (1) (1) (1) (1) (3) (4) (5) (6)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW dw/kW dw/	0712 400/3/50 730,0 226,0 3,230 728,4 3,200 4,990 A 1 2016/2281) 728 5,19 205 TION 34,91 26,7 2 1 310 53 86 7900	0853 400/3/50 865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410 53 86 9400	0913 400/3/50 888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204 42,47 34,8 3 2 450 53 86 9700	1013 400/3/50 959,1 311,0 3,084 957,0 3,060 4,990 B 957 5,23 206 45,87 28,6 3 2 520 54 87 10600	1054 400/3/50 1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87 11200	1154 400/3/50 1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204 55,63 36,1 4 2 580 55 88 12400	





TECS2-G05 0211 - 1154

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

TECS2-G05/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	(1)	kW	226,4	282,8	381,9	450,5	520,5	583,5	695,8
Total power input	(1)	kW	67,41	81,04	112,7	133,0	154,1	168,3	203,5
EER	٠,	kW/kW	3,359	3,491	3,389	3,387	3,378	3,467	3,419
ESEER	(1)	kW/kW							
COOLING ONLY (EN14511 V Cooling capacity	(1)(2)	kW	225,6	281,9	380,8	449,4	519,2	581,8	694,4
EER	(1)(2) (1)(2)	kW/kW	3,310	3,440	3,340	3,350	3,340	3,420	3,390
ESEER		kW/kW	5,100	5,300	5,200	5,520	5,400	5,300	5,530
Cooling energy class	(1)(2)	KVV/KVV	Α	Α	A	A	Α	Α	Α
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN	COOLII	NG (Reg. EU	2016/2281)						
Ambient refrigeration									
Prated,c	(7)	kW	226	282	381	449	519	582	694
SEER	(7)(8)		5,33	5,49	5,51	5,79	5,71	5,56	5,80
Performance ηs	(7)(9)	%	210	216	217	229	225	219	229
EXCHANGERS	IDE :::	DEED!A===:	TION						
HEAT EXCHANGER USER S Water flow			10,83	12.50	18,26	01.55	24,89	27.00	33,27
Pressure drop	(1)	l/s kPa	34,5	13,52 33,0	34,7	21,55 28,6	24,89	27,90 36,4	33,27 24,2
REFRIGERANT CIRCUIT	(1)	NFa	04,0	33,0	J4, I	20,0	29,0	30,4	24,2
Compressors nr.		N°	1	1	1	2	2	2	2
No. Circuits		N°	1	i	1	1	1	1	1
Refrigerant charge		kg	100	100	130	220	220	240	270
NOISE LEVEL		3							
Sound Pressure	(3)	dB(A)	56	56	58	58	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	88	88	90	90	90	91	92
SIZE AND WEIGHT									
4	(6)	mm	3100	3100	4000	4900	4900	5800	7000
3	(6)	mm	2260	2260	2260	2260	2260	2260	2260
	(0)				0/00	2430	2430	2430	2430
Н	(6)	mm	2430	2430	2430				
Н	(6) (6)	mm kg	2430 2270	2350	3130	4070	4230	4570	6040
H Operating weight	. ,					4070			
H Operating weight TECS2-G05/SL-CA-E	(6)		2270 0712	2350 0853	3130 0913	4070 1013	4230 1054	4570 1154	
H Operating weight TECS2-G05/SL-CA-E Power supply V	. ,		2270	2350	3130	4070	4230	4570	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE	(6) /ph/Hz		2270 0712	2350 0853	3130 0913	4070 1013	4230 1054	4570 1154	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA	/ph/Hz		0712 400/3/50	2350 0853 400/3/50	3130 0913 400/3/50	4070 1013	4230 1054	4570 1154	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA	(6) /ph/Hz	kg	2270 0712	2350 0853	3130 0913	4070 1013 400/3/50	4230 1054 400/3/50	4570 1154 400/3/50	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input	(6) /ph/Hz .LUE) (1) (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	4570 1154 400/3/50 1313	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER	(6) /ph/Hz (1) (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	4570 1154 400/3/50 1313 382,5	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V.	(6) /ph/Hz .LUE) (1) (1) (1) (1)	kW kW 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	4570 1154 400/3/50 1313 382,5 3,433	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2)	kW kW kW/kW kW/kW	2270 0712 400/3/50 786,2 233,3 3,370	2350 0853 400/3/50 894,0 263,0 3,399 891,6	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	4570 1154 400/3/50 1313 382,5 3,433 1309	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity Cooling capacity	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2) (1)(2)	kW kW 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	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380	
H Operating weight TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2) (1)(2)	kW kW kW/kW kW/kW	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER Cooling capacity	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2) (1)(2)	kW kW 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	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling eapacity EER ESEER Cooling energy class ENERGY EFFICIENCY	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2) (1)(2) (1)(2)	kg kW kW kW/kW kW/kW kW/kW	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN	(6) /ph/Hz .LUE) (1) (1) (1) (1) (2) (1)(2) (1)(2)	kg kW kW kW/kW kW/kW kW/kW	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration	/ph/Hz LUE) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (2) (3)(2)	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 5,460 A 2016/2281)	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER COoling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c	(6) /ph/Hz LUE) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7)	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 5,460 A 2016/2281)	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER	(6) /ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8)	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 5,460 A 2016/2281) 784 5,61	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated, c SEER Performance ηs	(6) /ph/Hz LUE) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7)	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 5,460 A 2016/2281)	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated, c SEER Performance \(\gamma\) EXCHANGERS	(6) /ph/Hz LUE) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9)	kW kW kW/kW kW/kW kW/kW kW/kW NG (Reg. EU kW 5,72 %	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY EASONAL EFFICIENCY IN Ambient refrigeration Prated, c ESEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S	(6) /ph/Hz LUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW sy.72 %	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 FION 37,60	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A 892 5,66 221	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224	
Pressure drop	(6) /ph/Hz LUE) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I	kW kW kW/kW kW/kW kW/kW kW/kW NG (Reg. EU kW 5,72 %	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
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TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated, c SEER Performance \(\psi	(6) /ph/Hz LUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I (1)	kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW sold (Reg. EU kW 5,72 % kPa N° N°	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 FION 37,60 31,0 2 1	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A 892 5,66 221 42,75 35,3 3 2	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A 954 5,70 224 45,75 40,4 3 2	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225 51,24 35,7	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228 55,85 42,4 4 2	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224 62,77 46,0 4 2	
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TECS2-G05/SL-CA-E Power supply V. PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESSEER COOLING ONLY (EN14511 V Cooling capacity EER ESSEER COOLING ONLY (EN14511 V Cooling capacity EER ESSEER Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \(\gamma\)	(6) //ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I (1) (1)	kg kW kW/kW kW/kW kW/kW kW/kW NG (Reg. EU kW 5,72 % REFRIGERA l/s kPa N° N° kg	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 FION 37,60 31,0 2 1 310	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A 892 5,66 221 42,75 35,3 3 2 410	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A 954 5,70 224 45,75 40,4 3 2 450	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225 51,24 35,7 3 2 520	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228 55,85 42,4 4 2 500	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224 62,77 46,0 4 2 580	
Person and the state of the st	(6) /ph/Hz /ph/Hz (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I (1) (1) (3)	kg kW kW/kW kW/kW kW/kW kW/kW NG (Reg. EU kW 5,72 % REFRIGERA l/s kPa N° kg dB(A)	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 FION 37,60 31,0 2 1 310 59	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A 892 5,66 221 42,75 35,3 3 2 410 60	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A 954 5,70 224 45,75 40,4 3 2 450 60	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225 51,24 35,7 3 2 520 60	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228 55,85 42,4 4 2 500 61	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224 62,77 46,0 4 2 580 62	
TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER COOLING ONLY (EN14511 V Cooling capacity EER ESEER Cooling energy class ENERGY EFFICIENCY IN Ambient refrigeration Prated, c SEER Performance \(\gamma\) EXECHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Gound Pressure Sound power level in cooling	(6) //ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9) IDE IN I (1) (1)	kg kW kW/kW kW/kW kW/kW kW/kW NG (Reg. EU kW 5,72 % REFRIGERA l/s kPa N° N° kg	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 FION 37,60 31,0 2 1 310	2350 0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A 892 5,66 221 42,75 35,3 3 2 410	3130 0913 400/3/50 956,7 279,5 3,423 953,9 3,380 5,400 A 954 5,70 224 45,75 40,4 3 2 450	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225 51,24 35,7 3 2 520	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228 55,85 42,4 4 2 500	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224 62,77 46,0 4 2 580	
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H Operating weight TECS2-G05/SL-CA-E	(6) //ph/Hz //ph/Hz (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9) IDE IN I (1) (1) (3) (4)(5) (6)	kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW sold (Reg. EU kW 5,72 % kPa N° kg dB(A) dB(A) mm	2270 0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61 226 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 5,310 A 892 5,66 221 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 5,400 A 954 5,70 224 45,75 40,4 3 2 450 60 93 9700	4070 1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A 1068 5,77 225 51,24 35,7 3 2 520 60 93 10600	4230 1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A 1164 5,66 228 55,85 42,4 4 2 500 61 94 11200	4570 1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A 1309 224 62,77 46,0 4 2 580 62 95 12400	

- 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 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

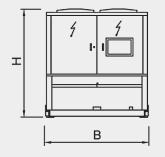
 4 Sound power on the basis of measurements made in compliance with ISO 9614.

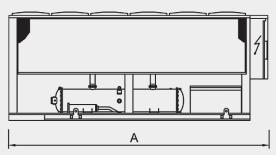
 5 Sound power level in cooling, outdoors.

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

Certified data in EUROVENT









"EXPERIENCE IS BY FAR THE BEST PROOF"

Sir Francis Bacon

British philosopher (1561-1626)

350 Euston Road

London - Great Britain - 2015

Application: Office buildings Plant type: Hydronic System

Cooling capacity: 1022 kW **Heating capacity:** 541 kW Installed machines:

1x ERACS2-Q/SL-CA/S 2222, 1x TECS2/SL-CAE/S 0512,

1x ClimaPRO



PROJECT

350 Euston Road is a grade A seven-storey office building that forms part of Regent's Place, a 13 acre, fully managed estate in the heart of London. Owned by British Land and managed by Broadgate Estates, the building features the latest sustainable design for a lively mix of retail, leisure and public spaces. In this high-demanding context, the replacement of the previous HVAC system was aimed to be in line with the energy targets established by the property owner.

SOLUTION

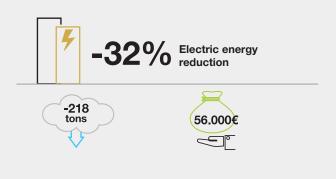
The units selected to serve the building's requirements were: one ERACS2-Q SLCA 2722 unit, from the INTEGRA range, and one TECS2/SL-CAE/S 0512 chiller with magnetic levitation compressors. The results of the study revealed that replacing existing old chillers and boilers with heat recovery heat pumps would lead to significant enhancements in terms of environmental, economic, and energy related aspects. After one year the new system has resulted in 218 less tons of CO, emissions and a reduction of primary energy consumption of around 50%, thus leading to an annual cost savings of 56000 €.

CASE STUDY

In order to investigate the advantages of replacing a traditional HVAC system based on existing boilers and chillers with smart heat pumps with heat recovery, an official case study was conducted.

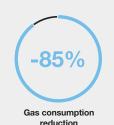
Starting from the energy analysis of the previous system, the data revealed that the building was characterized by a high cooling demand, even during the winter, together with a considerable overlap of heating and cooling requirements, as is frequently the case in office buildings.







reduction

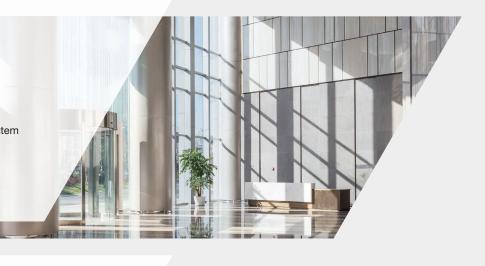




Data Center - Institutions

Plant type: Hydronic System - HPAC System Cooling capacity: 7488 kW Installed machines:

1x TECS2/SL-CA-E high efficiency oil-free compressor chiller, 70x ACU Indoor close control units



Hospital de Vic

2017 Barcelona - Spain

Healthcare / Hospitals

Plant type: Hydronic System Cooling capacity: 2510 kW Installed machines:

2x i-FX (1+i)/SL screw compressor chiller with inverter and fixed speed compressors, 1x TECS2/SL-CA-E oil-free compressor chiller, 1x ClimaPRO Optimization and control system



Baptist University

2015 Honk Kong

School / University

Plant type: Hydronic System Cooling capacity: 2015 kW Installed machines:

5x TECS2/SL-CA oil-free compressor chillers



Convention Centre Plaza America

2017 Varadero - Cuba

Fair and Exhibition

Plant type: Hydronic System Cooling capacity: 853 kW Installed machines:

1x TECS2/SL-CA oil-free compressor chiller









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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