# 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

D

Partial condensing heat recovery function

# ALL-ROUND SUSTAINABILITY

# (F) R513A

# 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	<sup>©</sup> 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.

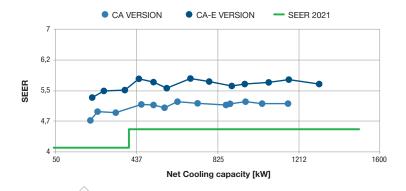


# TECHNOLOGICAL CHOICES

# 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.

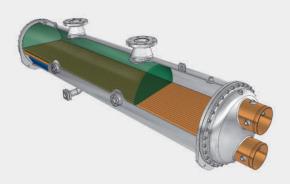


The chart shows as all TECS2-G05 versions are far above SEER 2021 limits. Right and safe solution for your building future design.

#### 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.

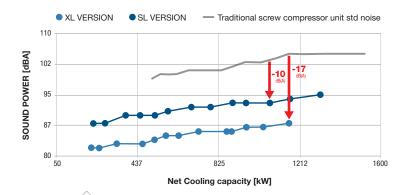
#### **EC FANS FOR A SUPER SILENT OPERATION**

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.

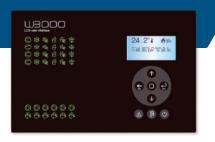


The electronic valve is adopted to grant the ideal operation of the evaporator in all conditions. In the air cooled unit the control is made with a precise measurement of the subcooling in the condenser coil.

EEU BLECTRONIC EXPANSION VALVE

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 \ 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 \		134/	200.0	055.0	0.40.4	400.0	504.0	505.7	044.0
Cooling capacity EER	(1)(2)	kW kW/kW	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
ESEER		kW/kW	4,600	4,760	4,550	4,880	4,920	4,810	4,840
Cooling energy class	(1)(2)	NVV/NVV	4,000 A	4,700 A	4,550 A	4,000 A	4,920 A	4,810 A	4,840 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	NDE :::	DEEDIAES :	TION						
HEAT EXCHANGER USER S				10.04	16 40	20.04	04.00	07.10	20.76
Nater flow Pressure drop	(1)	l/s kPa	11,02 35,7	12,24 27,0	16,42 28,1	20,94 27,0	24,03 27,0	27,13 34,4	30,76 20,7
REFRIGERANT CIRCUIT	(1)	nr a	33,1	21,0	20,1	21,0	21,0	54,4	20,1
Compressors nr.		N°	1	1	1	2	2	2	2
No. Circuits		N°	1	i	i	1	1	1	1
Refrigerant charge		kg	100	100	120	210	180	210	240
NOISE LEVEL		J							
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	(=)		0.40=	6105	4000	4005	1005	5005	
A	(6)	mm	3100	3100	4000	4900	4900	5800	7000
В	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight				2370	3050	4000	4240	4530	5800
Operating weight	(6)	kg	2320	2370	3050	4000	4240	4530	5800
Operating weight TECS2-G05/SL-CA				2370 <b>0853</b>	3050 <b>0913</b>	4000 <b>1013</b>	4240 <b>1054</b>	4530 <b>1154</b>	5800
TECS2-G05/SL-CA Power supply	(6)		2320						5800
TECS2-G05/SL-CA	(6)	kg	2320 <b>0712</b>	0853	0913	1013	1054	1154	5800
TECS2-G05/SL-CA Power supply PERFORMANCE	(6)	kg	2320 <b>0712</b>	0853	0913	1013	1054	1154	5800
TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA	(6) ALUE)	kg V/ph/Hz	2320 <b>0712</b> 400/3/50	<b>0853</b> 400/3/50	<b>0913</b> 400/3/50	<b>1013</b> 400/3/50	<b>1054</b> 400/3/50	<b>1154</b> 400/3/50	5800
TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER	(6) ALUE)	kg V/ph/Hz kW kW kW/kW	2320 <b>0712</b> 400/3/50 733,3	<b>0853</b> 400/3/50 840,5	<b>0913</b> 400/3/50 891,7	1013 400/3/50 964,6	<b>1054</b> 400/3/50	<b>1154</b> 400/3/50 1173	5800
TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER	(6) ALUE) (1) (1) (1) (1)	kg V/ph/Hz kW kW	2320 0712 400/3/50 733,3 225,0	0853 400/3/50 840,5 269,6	0913 400/3/50 891,7 287,3	1013 400/3/50 964,6 309,1	1054 400/3/50 1056 335,2	1154 400/3/50 1173 373,3	5800
TECS2-G05/SL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N	(6) ALUE) (1) (1) (1) (1) VALUE)	kg V/ph/Hz kW kW kW/kW kW/kW	2320 0712 400/3/50 733,3 225,0 3,259	0853 400/3/50 840,5 269,6 3,118	0913 400/3/50 891,7 287,3 3,104	1013 400/3/50 964,6 309,1 3,121	1054 400/3/50 1056 335,2 3,150	1154 400/3/50 1173 373,3 3,142	5800
TECS2-G05/SL-CA  Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING apacity Total power input EER ESEER COOLING ONLY (EN14511 N	(6) ALUE) (1) (1) (1) (1) (VALUE) (1)(2)	kg  V/ph/Hz  kW kW kW/kW kW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7	0853 400/3/50 840,5 269,6 3,118	0913 400/3/50 891,7 287,3 3,104	1013 400/3/50 964,6 309,1 3,121 962,5	1054 400/3/50 1056 335,2 3,150	1154 400/3/50 1173 373,3 3,142	5800
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	(6) ALUE) (1) (1) (1) (1) (2) (1)(2) (1)(2)	kg  V/ph/Hz  kW kW kW/kW kW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230	0853 400/3/50 840,5 269,6 3,118 838,5 3,090	0913 400/3/50 891,7 287,3 3,104 889,3 3,070	1013 400/3/50 964,6 309,1 3,121 962,5 3,090	1054 400/3/50 1056 335,2 3,150 1053 3,120	1154 400/3/50 1173 373,3 3,142 1170 3,110	5800
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	(6)  ALUE) (1) (1) (1) (1) (1) VALUE) (1)(2) (1)(2)	kg  V/ph/Hz  kW kW kW/kW kW/kW	2320  0712  400/3/50  733,3 225,0 3,259  731,7 3,230 4,920	0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870	0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820	1013 400/3/50 964,6 309,1 3,121 962,5 3,090 4,850	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830	1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890	5800
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 capacity EER ESEER Cooling energy class	(6) ALUE) (1) (1) (1) (1) (2) (1)(2) (1)(2)	kg  V/ph/Hz  kW kW kW/kW kW/kW	2320 0712 400/3/50 733,3 225,0 3,259 731,7 3,230	0853 400/3/50 840,5 269,6 3,118 838,5 3,090	0913 400/3/50 891,7 287,3 3,104 889,3 3,070	1013 400/3/50 964,6 309,1 3,121 962,5 3,090	1054 400/3/50 1056 335,2 3,150 1053 3,120	1154 400/3/50 1173 373,3 3,142 1170 3,110	5800
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TECS2-G05/SL-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	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (1)(2) (7)	kg V/ph/Hz 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)	0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A	0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	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	1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A	5800
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TECS2-G05/SL-CA  Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING CONLY (GROSS VACCOOLING CONLY (EN14511 NCCOOLING CONLY (EN14511 NCCOOLING CONLY (EN14511 NCCOOLING CANCOUNTY (EN1451	(6)  ALUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9)  SIDE IN	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	0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A	0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	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	1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ERRESER COOLING ONLY (EN14511 VACCOOLING ERRESER ESEER COOLING ONLY (EN14511 VACCOOLING ERRESER ESEER ESEER ESEER ESEER ENERGY EFFICIENCY INAMBIENT refrigeration Prated,c SEER Performance \( \eta \) EXCHANGERS HEAT EXCHANGER USER S Water flow	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (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  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  TION 35,07	0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A 838 5,08 200	0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A 889 5,04 199	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 1053 5,08 200	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 VACCOOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ERER ESEER COOLING ONLY (EN14511 VACCOOLING ERER ENERGY EFFICIENCY INAMBIENT FICIENCY INAMBIENT REFICIENCY REFICIENCY INAMBIENT REFICIENCY	(6)  ALUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7)(8) (7)(9)  SIDE IN	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	0853 400/3/50 840,5 269,6 3,118 838,5 3,090 4,870 A	0913 400/3/50 891,7 287,3 3,104 889,3 3,070 4,820 A	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	1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A	5800
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 Prated, co SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (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	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	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	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	964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7	1154 400/3/50 1173 373,3 3,142 1170 3,110 4,890 A 1170 5,11 201 56,08 36,7	5800
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESEER COOLING ONLY (EN14511 N Cooling capacity EER ESEER 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.	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (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  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	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	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	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	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7	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 VACCOOLING CONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 NCCOOLING ONLY (EN14511 NCCOOLING CAPACITY (EN14511 N	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (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	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	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	964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7 4	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 VACCOOLING CONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 NCCOOLING ONLY (EN14511 NCCOOLING CANCOUNTY	(6)  ALUE) (1) (1) (1) (1) (1) (1)(2) (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  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	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	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	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	1054 400/3/50 1056 335,2 3,150 1053 3,120 4,830 A 1053 5,08 200 50,52 34,7	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 ONLY (EN14511 N 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	(6)  ALUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (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	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	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	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	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	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
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 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	(6)  ALUE) (1) (1) (1) (1) (1)(2) (1)(2) (7) (7)(8) (7)(9)  SIDE IN (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	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	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	964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490	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	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 ONLY (EN14511 N 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	(6)  ALUE) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)  SIDE IN (1) (1) (1) (3)	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	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	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	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	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	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
TECS2-G05/SL-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 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) (2) (1)(2) (1)(2) (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	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	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	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	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	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
TECS2-G05/SL-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 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) (1)(2) (1)(2) (1)(2) (7) (7)(8) (7)(9)  SIDE IN (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/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	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	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	964,6 309,1 3,121 962,5 3,090 4,850 A 962 5,10 201 46,13 29,0 3 2 490	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	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
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 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)  ALUE) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (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/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	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	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	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	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	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 [GWP<sub>100</sub> 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	. ,	kW/kW	3,167	3,175	3,106	3,171	3,141	3,349	3,081
ESEER	(1)	kW/kW	0,107	0,170	0,100	0,171	0,141	0,040	0,001
COOLING ONLY (EN14511 V	٠,	NVV/NVV							
Cooling capacity		kW	217,2	051.7	337,7	420.0	E17.0	E74 /	632,9
0 1 ,	(1)(2)			251,7		430,0	517,9	571,4	
EER	. , . ,	kW/kW	3,120	3,140	3,070	3,140	3,110	3,310	3,060
ESEER	(1)(2)	kW/kW	4,610	4,860	4,670	4,990	4,980	4,900	4,990
Cooling energy class			А	Α	В	А	А	Α	В
ENERGY EFFICIENCY									
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	IDE IN	REFRIGERA	TION						
Nater flow	(1)	l/s	10,42	12,07	16,19	20,61	24,83	27,40	30,32
Pressure drop	(1)	kPa	32,0	26,3	27,3	26,2	28,8	35,1	20,1
REFRIGERANT CIRCUIT	(1)	Al d	02,0	20,0	21,0	20,2	20,0	55,1	20,1
Compressors nr.		N°	1	1	1	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
				-	•		· · · · · · · · · · · · · · · · · · ·		270
Refrigerant charge		kg	100	100	130	220	220	240	270
NOISE LEVEL	(0)	15(4)							
Sound Pressure	(3)	dB(A)	50	50	51	51	52	52	52
Sound power level in cooling	(4)(5)	dB(A)	82	82	83	83	84	85	85
SIZE AND WEIGHT									
A	(6)	mm	3100	3100	4000	4900	5800	7000	7000
В	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	(6)	kg	2370	2420	3200	4240	4690	5350	6150
operating trought	(0)	5							
	(0)	3	0712	0853	0913	1013	1054	1154	
TECS2-G05/XL-CA			0712			1013			
TECS2-G05/XL-CA Power supply		V/ph/Hz		<b>0853</b> 400/3/50	<b>0913</b> 400/3/50		<b>1054</b> 400/3/50	<b>1154</b> 400/3/50	
TECS2-G05/XL-CA Power supply PERFORMANCE			0712			1013			
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA	LUE)	V/ph/Hz	<b>0712</b> 400/3/50	400/3/50	400/3/50	<b>1013</b> 400/3/50	400/3/50	400/3/50	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity	LUE) (1)	V/ph/Hz kW	<b>0712</b> 400/3/50 730,0	400/3/50 865,8	400/3/50 888,0	1013 400/3/50 959,1	400/3/50 1040	400/3/50 1163	
TECS2-G05/XL-CA Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input	(1)	V/ph/Hz kW kW	0712 400/3/50 730,0 226,0	400/3/50 865,8 279,0	400/3/50 888,0 290,4	1013 400/3/50 959,1 311,0	400/3/50 1040 330,3	400/3/50 1163 376,9	
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	<b>0712</b> 400/3/50 730,0	400/3/50 865,8	400/3/50 888,0	1013 400/3/50 959,1	400/3/50 1040	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	400/3/50 865,8 279,0	400/3/50 888,0 290,4	1013 400/3/50 959,1 311,0	400/3/50 1040 330,3	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) (2)	V/ph/Hz kW kW kW/kW kW/kW	0712 400/3/50 730,0 226,0 3,230	400/3/50 865,8 279,0 3,103	888,0 290,4 3,058	1013 400/3/50 959,1 311,0 3,084	1040 330,3 3,149	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) (1)(2)	V/ph/Hz kW kW kW/kW kW/kW	0712 400/3/50 730,0 226,0 3,230 728,4	400/3/50 865,8 279,0 3,103	400/3/50 888,0 290,4 3,058	1013 400/3/50 959,1 311,0 3,084	1040 330,3 3,149	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) (1)(2)	V/ph/Hz kW kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200	865,8 279,0 3,103 863,6 3,070	888,0 290,4 3,058 885,7 3,030	1013 400/3/50 959,1 311,0 3,084 957,0 3,060	1040 330,3 3,149 1037 3,120	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	(1) (1) (1) (1) (1) (1) (2) (1)(2)	V/ph/Hz kW kW kW/kW kW/kW	0712 400/3/50 730,0 226,0 3,230 728,4	400/3/50 865,8 279,0 3,103	400/3/50 888,0 290,4 3,058	1013 400/3/50 959,1 311,0 3,084	1040 330,3 3,149	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 EER ESEER	(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	865,8 279,0 3,103 863,6 3,070	888,0 290,4 3,058 885,7 3,030	1013 400/3/50 959,1 311,0 3,084 957,0 3,060	1040 330,3 3,149 1037 3,120	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 energy class	(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 4,990	865,8 279,0 3,103 863,6 3,070 4,980	888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1040 330,3 3,149 1037 3,120 4,950	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 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	0712 400/3/50 730,0 226,0 3,230 728,4 3,200 4,990 A	865,8 279,0 3,103 863,6 3,070 4,980	888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1040 330,3 3,149 1037 3,120 4,950	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 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	0712 400/3/50 730,0 226,0 3,230 728,4 3,200 4,990 A	865,8 279,0 3,103 863,6 3,070 4,980	888,0 290,4 3,058 885,7 3,030 4,990	959,1 311,0 3,084 957,0 3,060 4,990	1040 330,3 3,149 1037 3,120 4,950	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 ONLY (EN14511 V Cooling energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient 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	0712 400/3/50 730,0 226,0 3,230 728,4 3,200 4,990 A	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	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	(1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (1)(2) (7)	V/ph/Hz  kW kW/kW kW/kW kW/kW	730,0 226,0 3,230 728,4 3,200 4,990 A	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	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	(1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (1)(2) (7) (7)(8)	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	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	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	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	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)	W/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	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	1163 376,9 3,086 1160 3,050 4,970 B	
Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input EER ESSEER 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 S	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (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	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	400/3/50  1163 376,9 3,086  1160 3,050 4,970 B  1160 5,18 204	
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 energy class ENERGY EFFICIENCY SEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \( \text{qs} \) EXCHANGERS HEAT EXCHANGER USER S Water flow	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (1))	kW kW/kW kW/	730,0 226,0 3,230 728,4 3,200 4,990 A 2016/2281) 728 5,19 205	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	400/3/50  1163 376,9 3,086  1160 3,050 4,970 B  1160 5,18 204	
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 Ambient refrigeration Prated,c SEER Performance \(\pa\) EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (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	865,8 279,0 3,103 863,6 3,070 4,980 A	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	1040 330,3 3,149 1037 3,120 4,950 A	400/3/50  1163 376,9 3,086  1160 3,050 4,970 B  1160 5,18 204	
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 S Water flow Pressure drop REFRIGERANT CIRCUIT	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203	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 957 5,23 206	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204	
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 S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (1))	W/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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203	888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	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 Ambient refrigeration Prated,c SEER Performance ηs EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203	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 957 5,23 206	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	1163 376,9 3,086 1160 3,050 4,970 B 1160 5,18 204	
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 \( \pa_S \) EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (1))	W/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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203	888,0 290,4 3,058 885,7 3,030 4,990 B 886 5,17 204	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204	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 ESSEER 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 S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge	(1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1)(DE IN (1))	W/ph/Hz  kW kW/kW kW/kW kW/kW kW/kW kW/kW  REFRIGERA l/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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	400/3/50  1163 376,9 3,086  1160 3,050 4,970 B  1160 5,18 204  55,63 36,1 4 2	
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 SEER Performance \(\gamma\) SEER EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1)	V/ph/Hz  kW kW/kW kW/kW kW/kW kW/kW  NG (Reg. EU kW %  REFRIGERA I/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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	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	
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 Ambient refrigeration Prated,c SEER Performance 19 EXCHANGERS HEAT EXCHANGER USER S Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure	(1) (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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500	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	
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 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	(1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1)(2) (1)(2) (7) (7)(8) (7)(9) (1) (1) (1) (1)	V/ph/Hz  kW kW/kW kW/kW kW/kW kW/kW  NG (Reg. EU kW %  REFRIGERA I/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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7	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	
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 BEASONAL EFFICIENCY IN Ambient refrigeration Prated,c SEER Performance \( \psi	(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/	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	865,8 279,0 3,103 863,6 3,070 4,980 A 864 5,15 203 41,40 33,1 3 2 410	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87	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 \(\gamma\) EER 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	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW defended by the control of the control	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 53 86 7900	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	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 10600	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87	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	
Power supply 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 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 A B BISTER ONLY OF TOTAL OR	(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) (6)	kW kW/kW dw/kw dw/	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 53 86 7900 2260	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 2260	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 2260	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	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87	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 2260	
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	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW defended by the control of the control	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 53 86 7900	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	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 10600	1040 330,3 3,149 1037 3,120 4,950 A 1037 5,18 204 49,75 33,7 4 2 500 54 87	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			000 4		004.0	4505	500 5	500 5	005.0
Cooling capacity	(1)	kW	226,4	282,8	381,9	450,5	520,5	583,5	695,8
Total power input EER	(1)	kW kW/kW	67,41	81,04	112,7	133,0 3,387	154,1	168,3	203,5
ESEER	(1) (1)	kW/kW	3,359	3,491	3,389	3,307	3,378	3,467	3,419
COOLING ONLY (EN14511 V	, ,	KVV/KVV							
Cooling capacity	(1)(2)	kW	225,6	281,9	380,8	449,4	519,2	581,8	694,4
EER		kW/kW	3,310	3,440	3,340	3,350	3,340	3,420	3,390
SEER	(1)(2)	kW/kW	5,100	5,300	5,200	5,520	5,400	5,300	5,530
Cooling energy class			Α	Α	Α	Α	Α	А	Α
ENERGY EFFICIENCY									
SEASONAL EFFICIENCY IN	COOLI	NG (Reg. EU	2016/2281)						
Ambient refrigeration	(3)	1.34/	000	000	201	4.40	540	500	00.4
Prated,c	(7)	kW	226	282	381	449	519	582	694
SEER	(7)(8)	%	5,33 210	5,49 216	5,51 217	5,79 229	5,71 225	5,56 219	5,80 229
Performance ηs EXCHANGERS	(7)(9)	%	210	210	217	229	223	219	229
HEAT EXCHANGER USER S	IDE IN	DEEDIGEDA	LION						
Nater flow	(1)	I/S	10,83	13,52	18,26	21,55	24,89	27,90	33,27
Pressure drop	(1)	kPa	34,5	33,0	34,7	28,6	29,0	36,4	24,2
REFRIGERANT CIRCUIT	(1)	🔾	0.,5	20,0	J .,.	_0,0		55, 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)	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
4	(6)	mm	2430	2430	2430	2430	2430 4230	2430 4570	2430 6040
									0040
Operating weight	(6)	kg	2270	2350	3130	4070	4230	4070	00.0
TECS2-G05/SL-CA-E	(6)	кд	0712	0853	0913	1013	1054	1154	
ΓECS2-G05/SL-CA-E		кg							
ΓECS2-G05/SL-CA-E	(6) /ph/Hz	кg	0712	0853	0913	1013	1054	1154	
TECS2-G05/SL-CA-E Power supply V	/ph/Hz	кд	0712	0853	0913	1013	1054	1154	
TECS2-G05/SL-CA-E Power supply PERFORMANCE	/ph/Hz	kg kW	0712	0853	0913	1013	1054	1154	
TECS2-G05/SL-CA-E Power supply PERFORMANCE COOLING ONLY (GROSS VA	/ph/Hz		<b>0712</b> 400/3/50	<b>0853</b> 400/3/50	<b>0913</b> 400/3/50	<b>1013</b> 400/3/50	<b>1054</b> 400/3/50	<b>1154</b> 400/3/50	
TECS2-G05/SL-CA-E  Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity	/ph/Hz <b>LUE)</b> (1)	kW kW	<b>0712</b> 400/3/50 786,2	<b>0853</b> 400/3/50 894,0	<b>0913</b> 400/3/50 956,7	1013 400/3/50	<b>1054</b> 400/3/50	<b>1154</b> 400/3/50	
TECS2-G05/SL-CA-E Power supply V/ PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity Total power input	/ph/Hz LUE) (1) (1)	kW kW kW/kW	0712 400/3/50 786,2 233,3	0853 400/3/50 894,0 263,0	<b>0913</b> 400/3/50  956,7 279,5	1013 400/3/50 1071 316,2	1054 400/3/50 1168 335,5	1154 400/3/50 1313 382,5	
PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity fotal power input EER ESEER COOLING ONLY (EN14511 V.	/ph/Hz LUE) (1) (1) (1) (1) ALUE)	kW kW kW/kW kW/kW	0712 400/3/50 786,2 233,3 3,370	0853 400/3/50 894,0 263,0 3,399	0913 400/3/50 956,7 279,5 3,423	1013 400/3/50 1071 316,2 3,387	1054 400/3/50 1168 335,5 3,481	1154 400/3/50 1313 382,5 3,433	
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	/ph/Hz LUE) (1) (1) (1) (1) ALUE) (1)(2)	kW kW kW/kW kW/kW	0712 400/3/50 786,2 233,3 3,370	0853 400/3/50 894,0 263,0 3,399	0913 400/3/50 956,7 279,5 3,423	1013 400/3/50 1071 316,2 3,387	1054 400/3/50 1168 335,5 3,481	1154 400/3/50 1313 382,5 3,433	
TECS2-G05/SL-CA-E  Power supply PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity fotal power input EER ESEER COOLING ONLY (EN14511 V. Cooling capacity EER	/ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1) ALUE) (1)(2) (1)(2)	kW kW kW/kW kW/kW	0712 400/3/50 786,2 233,3 3,370 784,3 3,330	0853 400/3/50 894,0 263,0 3,399 891,6 3,360	0913 400/3/50 956,7 279,5 3,423 953,9 3,380	1013 400/3/50 1071 316,2 3,387 1068 3,350	1054 400/3/50 1168 335,5 3,481 1164 3,430	1154 400/3/50 1313 382,5 3,433 1309 3,380	
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	/ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1) ALUE) (1)(2) (1)(2)	kW kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	956,7 279,5 3,423 953,9 3,380 5,400	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
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	/ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1) ALUE) (1)(2) (1)(2)	kW kW kW/kW kW/kW	0712 400/3/50 786,2 233,3 3,370 784,3 3,330	0853 400/3/50 894,0 263,0 3,399 891,6 3,360	0913 400/3/50 956,7 279,5 3,423 953,9 3,380	1013 400/3/50 1071 316,2 3,387 1068 3,350	1054 400/3/50 1168 335,5 3,481 1164 3,430	1154 400/3/50 1313 382,5 3,433 1309 3,380	
POWER SUPPLY PERFORMANCE COOLING ONLY (GROSS VA Cooling capacity fotal power input EER SSEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER COOLING ONLY (EN14511 V. Cooling capacity EER ESSEER Cooling energy class ENERGY EFFICIENCY	/ph/Hz (1) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2)	kW kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460 A	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	956,7 279,5 3,423 953,9 3,380 5,400	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
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 ESER ESEER ESER ESEER ESE	/ph/Hz (1) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2)	kW kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460 A	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310	956,7 279,5 3,423 953,9 3,380 5,400	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
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	/ph/Hz LUE) (1) (1) (1) (1) ALUE) (1)(2) (1)(2) (1)(2) COOLI	kW kW/kW kW/kW kW/kW kW/kW	0712 400/3/50 786,2 233,3 3,370 784,3 3,330 5,460 A	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	956,7 279,5 3,423 953,9 3,380 5,400 A	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
POWER SUPPLY PERFORMANCE COOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VAC	/ph/Hz LUE) (1) (1) (1) (1) (1) ALUE) (1)(2) (1)(2) (1)(2) COOLI	kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460 A	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	956,7 279,5 3,423 953,9 3,380 5,400 A	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380	
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 ENERGY EFFICIENCY Ambient refrigeration Prated,c EEER	/ph/Hz LUE) (1) (1) (1) (1) (1) (1) (1)(2) (1)(2) (1)(2) (1)(2) (7) (7)(8)	kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460 A 2016/2281) 784 5,61	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	956,7 279,5 3,423 953,9 3,380 5,400 A	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
POWER SUPPLY PERFORMANCE COOLING ONLY (GROSS VACCOOLING ONLY (GROSS VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ONLY (EN14511 VACCOOLING ENERGY EFFICIENCY IN AMBient refrigeration Prated, c SEER Performance ηS	/ph/Hz LUE) (1) (1) (1) (1) (1) ALUE) (1)(2) (1)(2) (1)(2) COOLI	kW kW/kW kW/kW kW/kW kW/kW	786,2 233,3 3,370 784,3 3,330 5,460 A	0853 400/3/50 894,0 263,0 3,399 891,6 3,360 5,310 A	956,7 279,5 3,423 953,9 3,380 5,400 A	1013 400/3/50 1071 316,2 3,387 1068 3,350 5,390 A	1054 400/3/50 1168 335,5 3,481 1164 3,430 5,530 A	1154 400/3/50 1313 382,5 3,433 1309 3,380 5,380 A	
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- 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.

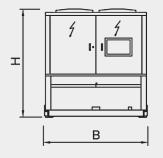
  4 Sound power on the basis of measurements made in compliance with ISO 9614.

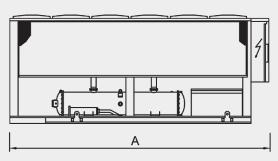
  5 Sound power level in cooling, outdoors.

- 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 [GWP<sub>100</sub> 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





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**

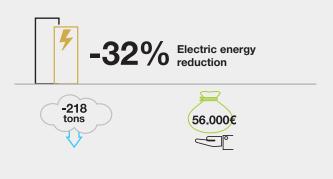
The units selected to serve the building's requirements were: one ERACS2-Q SLCA 2722 unit, from the INTEGRA range, and one TECS2/SL-CAE/S 0512 chiller with magnetic levitation compressors. The results of the study revealed that replacing existing old chillers and boilers with heat recovery heat pumps 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.

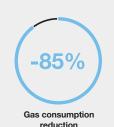
Starting from the energy analysis of the previous system, the data revealed that the building was characterized by a high cooling demand, even during the winter, together with a considerable overlap of heating and cooling requirements, as is frequently the case in office buildings.







reduction





#### 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.

Head Office: Via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy Tel (+39) 0424 509 500 - Fax (+39) 0424 509 509 www.climaveneta.com www.melcohit.com

