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

IT COOLING

CHILLERS

AIR COOLED CHILLER WITH FREE-COOLING FOR HIGH LEAVING WATER TEMPERATURE, FROM 364 TO 978 kW





THE FREE-COOLING CHILLER **DEDICATED TO HIGH TEMPERATURE IT ENVIRONMENTS**



Air cooled chiller with scroll compressors and free-cooling technology from 364 to 978 kW

NX-FC-Z is the ultimate Climaveneta brand chiller solution with scroll compressors and a free-cooling system, dedicated to IT infrastructures.

Specifically designed to operate with high water temperatures (set point up to 24°C) and high ΔT (up to 11°C), NX-FC-Z delivers concrete energy savings in modern data centers. The free-cooling hydraulic equipment allows the unit to

freely employ the outside air to satisfy the cooling capacity. When the air temperature is too high to grant complete free-cooling, highly efficient scroll compressors ensure full load coverage.

Smart LAN functions are natively present to easily connect NX-FC-Z to other chillers and enhance the system's efficiency and stability.

The highest standards of reliability and reduced running costs, without any compromises.

SMART LAN LOGICS



MASSIVE FREE-COOLING

TOTAL FREE-COOLING FROM 11°C

Thanks to large free-cooling coils,

to produce cooling.



EMBEDDED FUNCTIONS FOR MULTI-UNIT SYSTEMS

Group controls

Up to 16 chillers can be connected and run as a group to enhance the system's efficiency and dependability.

Dvnamic master

▶ Load sharing or sequencing

- ▶ Resource priority management
- ▶ Stand-by unit management
 - Group fast restart
 - ▶ Centralized pump control

With a set-point of 20°C, the total free-cooling operation is possible from outdoor air temperature of 11°C.

NX-FC-Z uses the outdoor air as main source

Adaptive set-point

The indoor chilled water units communicate their load conditions to the external group of chillers, that adjust their operating set-point accordingly, for the greatest energy savings.

This means that most of the time the chiller can provide the required cooling capacity without using the compressor, with unmatched efficiency.

IDEAL FOR HIGH TEMPERATURE IT ENVIRONMENTS



IT COOLING APPLICATIONS HIGHER TEMPERATURES FOR LOWER PUE

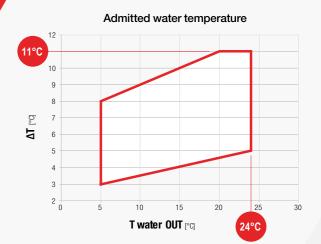
Modern IT infrastructures are designed to work with higher indoor temperatures than traditional levels (ASHRAE Thermal Guidelines for Data Processing Environments) to enhance the cooling equiptment's efficiency and lower the data center's PUE (Power Usage Effectiveness).

NX-FC-Z is optimized to efficiently work with high temperature IT environments:

Leaving water temperature up to 24°C To enhance the chiller's EER and fully capitalize on free-cooling.

ΔT up to 11°C

For a lower water flow rate and a consequent reduction of the pump consumption.



FULL CONFIGURABILITY FOR EVERY INSTALLATION OPPORTUNITY

High efficiency 4.05 6,65 10,8 Key efficiency 3,79 6,36 9,2 with EC fans

Kev efficiency

SFPR HT 3.69 6,03

AVERAGE VALUES

Water (in/out) 28/20°C, Air (in) 35°C, Et. glycol 30%. GROSS VALUE. SEPR HT: Water (in/out) */7°C - Regulation (EU) N.2281/2016. NET VALUES: EN14511, EN14825. Total free-cooling temperature, Water (in/out) 28/20°C, Et. glycol 30%,

ACOUSTIC VERSIONS

FREE-COOLING CONFIGURATIONS

Standard Unit with standard soundproofing equipment. Unit with acoustical compressor

enclosure (Opt. 2312).

-2 dB(A)

Standard free-cooling unit

Super low

Special acoustic insulation of the compressor enclosure and the pumps (if present), devoted fan speed reduction and increased heat exchange surface.

-9 dB(A)

No Glycol

Free-cooling is possible without the use

Data centers

Telecommunication installations

Server rooms

Technological hubs

UNYIELDING IN EXTREME **CONDITIONS**



NX-FC-Z can operate in all climates from -30°C (-40°C with special equipment) to +50°C and, equipped with highly resistant coil coatings, it can withstand even the harshest industrial or marine environments.

PACKAGED SOLUTION



READY FOR MISSION **CRITICAL APPLICATIONS**



NX-FC-Z is a complete all-in-one solution ready to be installed. The integrated hydronic modules includes the pumps, the buffer tanks and the main hydraulic components, allowing simplified installation and time-saving commissionina.

Designed for continuous operation. NX-FC-Z meets the needs of the uninterruptible industry. Devoted devices and functions maximize the unit's uptime even in case of emergency circumstances.



No compromises on efficiency!

FREE-COOLING TECHNOLOGY

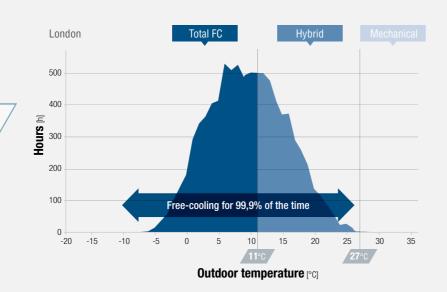
The ultimate solution to harness the full potential of outdoor air.

In many climates, data center managers can reduce the OPEX (Operating Expenditure) of their cooling plant by taking advantage of favorable environmental conditions, that is any time the outdoor air is colder than the operating water.

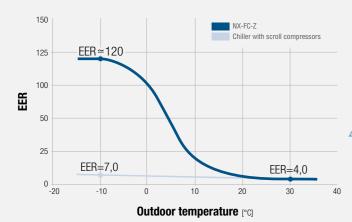
The higher the water operating temperature, the greater the annual free-cooling potential.

In a data center located in London, with operating water temperature 28/20°C, NX-FC-Z can satisfy the whole cooling demand for 50% of the time by only utilising free-cooling, while for 49% of the time by running the compressors at part loads.

This means that 99% of the time NX-FC-Z works with the free-cooling activated, and for very little time as an ordinary chiller.



Efficiency comparison:



Note: Operating water temperature (in/out) 28°C/20°C.

MECHANICAL COOLING vs FREE-COOLING

Comparing the efficiency of a NX-FC-Z and a traditional scroll compressor chiller, the enormous efficiency gap in the freecooling temperature range is evident.

In any modern IT infrastructure, free-cooling technology is a huge opportunity that must be seized.

In total free-cooling, the compressors are off and minimum energy is needed to satisfy the nominal cooling capacity.

Thanks to maximized free-cooling coils, NX-FC-Z makes the most of free-cooling, always granting a secure and efficient cooling capacity back-up with highly performing compressors.

How Climaveneta masters free-cooling

Climaveneta's free-cooling chillers work in three different modes:

- ▶ Total free-cooling
- ▶ Hybrid cooling
- ▶ Mechanical cooling

As the outdoor air temperature drops 1 degree below the returning water temperature, a valve system redirects the water to the special coils and the benefits of the free-cooling begin.

Total free-cooling

- ▶ The outdoor air temperature is low enough to satisfy the entire cooling demand.
- ▶ Compressors are off.

MAXIMUM ENERGY SAVING

Hybrid cooling

- ▶ The outdoor air temperature is lower than the returning water temperature but not cold enough to achieve total free-cooling.
- ▶ Compressors are partialized.

OPTIMISED RESOURCE MANAGEMENT

Mechanical cooling

- ▶ Outdoor air temperature is equal to or higher than the returning water temperature.
- ▶ Total cooling capacity provided by the compressors.

ENERGY ANALYSIS

Project: Large size data center

The data center, located in London, has a nominal cooling load of 3000 kW.

The infrastructure is characterized by a high temperature IT environment and the cooling equipment is based on a chilled water system operating with water temperature 26/18°C.

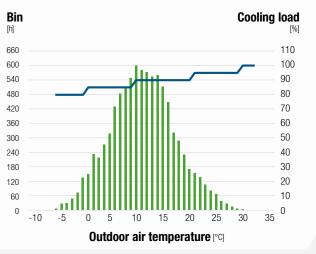
The data center is active 24/7, with a cooling load ranging from 80% to 100%, according to the outdoor conditions.

Energy analysis parameters:

Operating schedule: 24/7, all-year-round Fluid temperature: 26/18°C Fluid type: Water + et. glycol 30% Electricity cost: 0,12 €/kWh Inflation rate:

Interest rate:

Temperature profile



Comparison between technologies

According to the N+1 redundancy, 6 chillers of approximately 650 kW have been selected, for a total cooling capacity of 3900 kW.

The load is shared equally among all the 6 chillers, following the active redundancy principle.

The analysis compares three models of high efficiency chillers, with different technology.

Free-cooling chillers with screw compressors

CC: (26/18°C) 627 kW **EER:** (26/18°C) 3,76 **SEPR HT:** 5.91

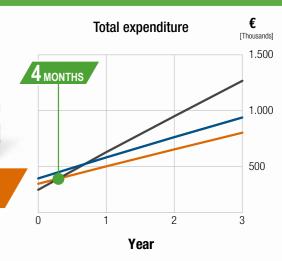
Chillers with full inverter screw compressors

CC: (26/18°C) 673 kW **EER:** (26/18°C) 3,81 **SEPR HT:** 6,16

NX-FC-Z /A 0926

CC: (26/18°C) 681 kW **EER:** (26/18°C) 3,96 **SEPR HT:** 6,42

Payback Time



Results

The results obtained are astounding: the chillers with free-cooling achieve -53% of annual energy consumption compared to the best-in-class full inverter screw chillers.

From the two free-cooling chillers, NX-FC-Z is evidently the winning solution. In fact multi-scroll units achieve a good part load performance, with limited investment costs compared to screw or MagLev compressors.

Significant annual energy savings of NX-FC-Z reflects the higher free-cooling potential of the new unit compared to regular free-cooling

AT A GLANCE

NX-FC-Z vs full inverter screw compressor chillers

1.527 MW

missions produced by a petr car driving 5.000.000 km

CO₂ saved per year

Payback period

Annual energy savings

4 months

-53 %



TECHNOLOGICAL CHOICES

Trusted reliability, simplified installation, maximized performance: NX-FC-Z is the ideal solution for forward-looking data centers.

W3000+ CONTROL

Fully in-house developed management software.

- ▶ Efficient and reliable operation in all conditions
- ▶ Connectivity with the most commonly used BMS protocols (Opt.)

KIPlink USER INTERFACE

Innovative Wi-Fi interface for an easy and enhanced unit management.





Scroll compressors

- > Tandem or trio configuration for multiple step regulation
- ▶ Acoustical enclosure as standard for SL (Super-low noise) versions



Air side heat exchangers

MICROCHANNEL

Full aluminum coils for the condenser

> -30% refrigerant charge reduction Vs. traditional solutions.

TUBE & FINS

Cu/Al coils for the free-cooling heat exchanger Ideally designed to optimize airflow and

Protective coatings available (Opt.)



EC axial fans

SEASONAL EFFICIENCY: up to +5%

New generation axial fans, for precise airflow management and reduced power consumption.

NX-FC-Z / A versions

High performing EC fans for the highest efficiency

NX-FC-Z / K versions

Variable speed AC fans equipped with phase-cut device

Shell and tube evaporator

ΔT: up to **11K**

Direct expansion shell & tube evaporator, with internal grooved copper tubes.

Water-side: single pass Refrigerant side (multi-circuit): double pass

- ▶ Robust, reliable, inspectionable
- ▶ Fully protected against ice formation
- Low pressure drops and optimal heat transfer efficiency

DESIGNED AND MANUFACTURED IN-HOUSE

2PS

CLIMAVENETA CLIMAVENETA

ALL-IN-ONE SOLUTION

The integrated hydronic module (opt.) includes the pumps, the buffer tank, and all the main hydraulic components, for the best optimization of the installation space, time and costs.

INTEGRATED HYDRONIC MODULES

PUMPS + BUFFER TANK

- Including: expansion vessel, safety valve, manometer.
- ▶ Control 1 or 2
- modulating signal

The NX-FC-Z is a Plug & Play package, ready to be installed.

Advanced water flow controls allow the user to make the most of the variable speed pumps, bringing time-saving commissioning, and significant energy reduction.

FLOW CONTROLS

CONSTANT FLOW

In addition to the traditional on/off pump control, NX-FC-Z offers the unique 2PS function.

VARIABLE FLOW

The VPF control series (Variable Flow Control) adjusts the pumps speed on the basis of the plant thermal load, ensuring the highest energy savings while keeping the chiller's operation stable.

Each time the free-cooling is activated, water pressure drops increase since the water must pass through additional coils. This may cause unwanted water flow variations.

The 2PS (2 Pump Speeds) automatically adjusts the pump speed according to the free-cooling chiller operating mode, keeping the water flow steady.



VSPEED

PUMPS

▶ Single or twin pumps

- ▶ Low or high head (approx. 100 or 200 kPa).
- ▶ Fixed or variable speed

▶ 1000 litre buffer tank

▶ 20 mm insulation lining

external pumps

ONLY TERMINALS

CHILLERS 08/09

SMART LAN FUNCTIONS

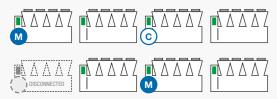
The control of NX-FC-Z features embedded functions that leverages the LAN connection between the chillers and the indoor units, in order to enhance the system's efficiency and dependability.

DYNAMIC MASTER WITH SUCCESSION PRIORITY

In case the master unit becomes disconnected, the Dynamic Master logic automatically elects a new master among the other units, allowing the chillers and their functions to continue working.

The Dynamic Master ensures the group's stability, granting a backup solution to the LAN functions, and overcoming the single point of failure typical of the static master architecture.

Master succession priority





Thanks to the innovative succession priority function, it is possible to set one or more succession master candidates. In case the master unit becomes disconnected, the new master is elected among the units set as priority.

RESOURCE PRIORITY MANAGEMENT

In case of a varying group of chillers, with different technologies, it is possible to set the usage priority of each unit, making the most of the available cooling resources. The load management function will be adjusted accordingly.

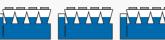
When available, free-cooling is always given priority and is fully exploited before activating any compressor. Then the activation of the compressors follows the priority level assigned to the units.

LOAD MANAGEMENT

There are two possible load management logics:

1. Load sharing

The load is distributed equally among the active units of the group.



2. Sequencing

The units are activated one after another. When the first unit is saturated (all the available resources are used), the second unit is activated, and so forth until the load is fully covered.











UP TO 16 UNITS

FURTHER FUNCTIONS

- ▶ Pump controls are available both for individual and centralized pump group configurations
- Auxiliary inputs are applied at a group level (set-point adjustment, demand limit, etc.)

FAST RESTART

No simultaneous start-ups of different unit's compressors, to prevent dangerous current peaks

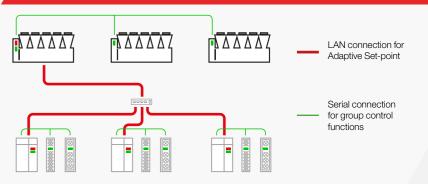
UP TO 16 UNITS PER GROUP

Selectable units start-up sequence

ADAPTIVE SET-POINT

Thanks to the Adaptive Set-point function, entire cooling equipment of the data center works as one. Outdoor chillers and indoor chilled water units coordinate to optimize their operation and enhance the system efficiency at part loads.

HOW IT WORKS

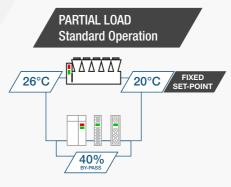


1 group of external chillers (up to 16 units) can be connected with up to 20 groups of indoor chilled water units (up to 16 units per group), with a simple LAN cable.

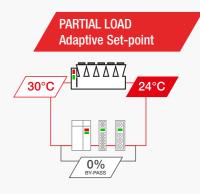
Each group of chilled water units communicates its real-time load condition. A smart algorithm combines the signals of all the indoor groups and converts them into a chiller set-point adjustment.

OPERATING PRINCIPLE

When the cooling load is low, the chiller group benefits from a higher set-point, with significant energy savings for the entire cooling system.







HIGHER **COMPRESSOR EFFICIENCY!**

AT FULL LOAD:

The system operates with 28/20°C operating temperature and the air conditioners use the whole water flow rate.

AT PARTIAL LOADS:

- In traditional applications, the air conditioners modulate their by-pass valves and the chillers work partialized, but with the same operating set-point.
- With the Adaptive Set-point, the air conditioners gradually close their by-bass valve and, at the same time, the chillers increase their operating set-point. Few degrees really make the difference, especially in case of a free-cooling chillers.

STAND-BY UNIT MANAGEMENT

- > Set the number of stand-by units
- ▶ Automatic rotation with running hours equalization.
- Immediate activation in case of a unit's failure or disconnection, or emergency load levels.

(on/off, VPF, 2PS, etc.)

CORE FEATURES FOR ALL YOUR EQUIPMENT NEEDS

W3000+ control and KIPlink innovative interface



The logic behind NX-FC-Z is the W3000+ control software. Characterized by advanced functions and algorithms, **W3000+ features proprietary settings** that ensure faster adaptive responses to different dynamics, in all operating modes. Direct control over the unit comes through the innovative KIPlink interface.

Based on Wi-Fi technology, **KIPlink** gets rid of the standard keyboard and **allows one to operate on the unit directly from a mobile device** (smartphone, tablet, notebook).

MAIN FEATURES



Easier on-site operation

Monitor each component while moving around the unit for maintenance operations. View and change all parameters with easy-to-understand screenshots and

dedicated tooltips.
Get devoted "help" messages / for alarm reset and trouble shooting.



Real-time graphs and trends

Monitor the immediate labor status of the compressors, heat exchangers, cooling circuits, and pumps. View the real-time graphs of the key operating variable trends.



Data logger function

View history of events and use the filter for a simple search.

Enhance diagnostics with data and graphs of 10 minutes before and after each alarm.

Download all the data for detailed analysis.

How to access the unit with KIPlink

LED switch



Direct access to the W3000TE control is achieved by scanning the QR-code positioned on the front side of the NX-FC-Z unit.



The three-colour LED button positioned on the electrical board allows the user to switch the unit on/off and visualize the genaral status of the equipment without using any mobile device.

In addition (Opt. 1442, 1444) or in substitution (Opt. 6194, 6195) to the KIPlink, NX-FC-Z can be provided with: a 7" color touch screen interface or with a keyboard with large display and LED icons.

In these cases, the LED switch is not provided.

Remote keyboard is possible (Opt. C9261063, C9261064, C926108911, C926108913).

EQUIPMENT FOR MISSION CRITICAL APPLICATIONS

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

FAST RESTART

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



Ensure fast cooling start-up



Have the unit running at full load in a shorter time

A 6-cpr unit in standard working conditions delivers 100% of cooling capacity (850 kW) within 72" after power is restored.

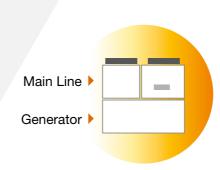
Fast restart - UPS excluded (Opt.4501)

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

Fast restart - UPS included (Opt. 4502)

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

DOUBLE POWER SUPPLY



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

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

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

Double power supply (ATS) (Opt. 1561)

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

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

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

ENERGY METER

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

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

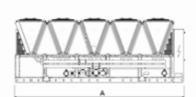




0384 - 0926Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)













NX-FC-Z/K

Model			0384	0414	0434	0464	0494	0524	0554
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		.,							
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	367,4	387,8	418,9	443,0	475,5	499,5	534,9
otal power input	(1)	kW	98,46	106,9	113,2	121,2	126,7	136,8	147,5
EER	(1)	kW/kW	3,730	3,628	3,701	3,655	3,753	3,651	3,626
MECHANICAL COOLING (EN14511 VALUE)									
Cooling capacity	(2)(3)	kW	366,5	386,8	417,7	441,9	474,2	498,5	533,7
EER	(2)(3)	kW/kW	3,690	3,590	3,650	3,610	3,700	3,620	3,590
SEPR	(4)(5)		5,79	5,68	5,90	5,93	5,88	5,69	5,77
TOTAL FREE-COOLING (GROSS VALUE)	(C)	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total free-cooling temperature	(6)	°C kW	9,6	8,9	9,8	9,2	9,9	9,3	8,3
Cooling capacity EER	(6)	kW/kW	367,4 32,23	387,8 34,02	418,9 31,50	443,0 33,31	475,5 31,28	499,5 32,86	534,9 35,19
MECHANICAL COOLING (GROSS VALUE)	(0)	NVV/NVV	32,20	34,02	31,30	33,31	31,20	32,00	33,13
16°C/10°C									
Cooling capacity	(7)	kW	295,5	312,4	336,4	359,3	384,6	404,7	431,4
Total power input	(7)	kW	93,06	100,4	106,2	113,6	118,9	127,8	137,0
EER	(7)	kW/kW	3,174	3,112	3,168	3,163	3,235	3,167	3,149
23°C/15°C									-,
Cooling capacity	(8)	kW	335,8	354,7	382,5	407,2	436,5	458,5	489,5
Total power input	(8)	kW	96,06	104,0	110,1	117,8	123,2	132,8	142,8
ER	(8)	kW/kW	3,494	3,411	3,474	3,457	3,543	3,453	3,428
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGER									
Water flow	(3)	l/s	12,10	12,77	13,80	14,59	15,66	16,45	17,62
Pressure drop	(2)(3)	kPa	35,7	40,3	46,7	42,0	46,9	34,6	36,4
REFRIGERANT CIRCUIT		No				,			
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	40,0	45,0	52,0	52,0	56,0	58,0	64,0
NOISE LEVEL	(0)	dR(A)	60	62	62	62	62	62	60
Sound Pressure Sound power level in cooling	(9) (10)(11)	dB(A) dB(A)	62 94	62 94	62 94	95	62 95	62 95	62 95
SIZE AND WEIGHT	(10)(11)	UD(A)	34	54	54	50	50	50	90
A	(12)	mm	3905	3905	5080	5080	5080	5080	5080
3	(12)	mm	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(12)	kg	3580	3610	4110	4420	4610	5180	4720
Speraling weight	(12)	Ny	0000						
pperating weight	(12)	ng							
Model	(12)		0594	0624	0685	0746	0836	0866	0926
Model Power supply	(12)	V/ph/Hz					0836 400/3/50	0866 400/3/50	0926
Model Power supply PERFORMANCE	(12)		0594	0624	0685	0746			0926
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE)		V/ph/Hz	0594 400/3/50	0624 400/3/50	0685 400/3/50	0746 400/3/50	400/3/50	400/3/50	0926 400/3/50
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity	(1)	V/ph/Hz kW	0594 400/3/50 567,5	0624 400/3/50 603,6	0685 400/3/50 649,7	0746 400/3/50 713,6	400/3/50 796,4	400/3/50 837,8	0926 400/3/50 895,9
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input	(1)	V/ph/Hz kW kW	0594 400/3/50 567,5 155,5	0624 400/3/50 603,6 163,2	0685 400/3/50 649,7 179,2	0746 400/3/50 713,6 190,1	796,4 220,7	400/3/50 837,8 226,3	0926 400/3/5/ 895,9 247,1
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input	(1)	V/ph/Hz kW	0594 400/3/50 567,5	0624 400/3/50 603,6	0685 400/3/50 649,7	0746 400/3/50 713,6	400/3/50 796,4	400/3/50 837,8	0926 400/3/50 895,9
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE)	(1) (1) (1)	V/ph/Hz kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650	0624 400/3/50 603,6 163,2 3,699	0685 400/3/50 649,7 179,2 3,626	713,6 190,1 3,754	796,4 220,7 3,609	837,8 226,3 3,702	0926 400/3/50 895,9 247,1 3,626
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity	(1) (1) (1) (2)(3)	V/ph/Hz kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2	0624 400/3/50 603,6 163,2 3,699 602,2	0685 400/3/50 649,7 179,2 3,626 648,2	713,6 190,1 3,754	400/3/50 796,4 220,7 3,609 794,5	400/3/50 837,8 226,3 3,702 835,7	0926 400/3/50 895,9 247,1 3,626
Aodel Yower supply EERFORMANCE AECHANICAL COOLING (GROSS VALUE) Oooling capacity EER AECHANICAL COOLING (EN14511 VALUE) Oooling capacity ER	(1) (1) (1) (1) (2)(3) (2)(3)	V/ph/Hz kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610	0624 400/3/50 603,6 163,2 3,699 602,2 3,660	0685 400/3/50 649,7 179,2 3,626 648,2 3,590	713,6 190,1 3,754 712,2 3,720	796,4 220,7 3,609 794,5 3,570	837.8 226,3 3,702 835,7 3,660	9926 400/3/5 895,9 247,1 3,626 893,4 3,580
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EER EER	(1) (1) (1) (2)(3)	V/ph/Hz kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2	0624 400/3/50 603,6 163,2 3,699 602,2	0685 400/3/50 649,7 179,2 3,626 648,2	713,6 190,1 3,754	400/3/50 796,4 220,7 3,609 794,5	400/3/50 837,8 226,3 3,702 835,7	0926 400/3/5 895,9 247,1 3,626 893,4
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER EEP EEP EEP FOTAL FREE-COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603.6 163.2 3,699 602.2 3,660 5,79	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	713.6 190,1 3,754 712.2 3,720 6,28	796,4 220,7 3,609 794,5 3,570 6,19	837,8 226,3 3,702 835,7 3,660 5,96	0926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06
Wodel Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity TEER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity TEER SEPR TOTAL FREE-COOLING (GROSS VALUE) TOTAL free-cooling temperature	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603,6 603,6 163,2 3,699 602,2 3,660 5,79	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	713,6 190,1 3,754 712,2 3,720 6,28	796,4 220,7 3,609 794,5 3,570 6,19	837,8 226,3 3,702 835,7 3,660 5,96	895,9 247,1 3,626 893,4 3,580 6,06
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	V/ph/Hz kW kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603,6 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7	713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4	837.8 226,3 3,702 835,7 3,660 5,96	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER EEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Dooling capacity EER	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603,6 603,6 163,2 3,699 602,2 3,660 5,79	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	713,6 190,1 3,754 712,2 3,720 6,28	796,4 220,7 3,609 794,5 3,570 6,19	837,8 226,3 3,702 835,7 3,660 5,96	895,9 247,1 3,626 893,4 3,580 6,06
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER FOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	V/ph/Hz kW kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603,6 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7	713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4	837.8 226,3 3,702 835,7 3,660 5,96	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	603,6 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7	713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4	837.8 226,3 3,702 835,7 3,660 5,96	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Octoling capacity EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Octoling capacity EER OCTOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW CC kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Zooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Zooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Zooling capacity EER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C Zooling capacity Total free cooling temperature Tocoling capacity ECR MECHANICAL COOLING (GROSS VALUE) Tocoling capacity Total power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW c°C kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	0624 400/3/50 603.6 163.2 3.699 602.2 3.660 5,79 9,7 603.6 31,77	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	713.6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C Cooling capacity Total power input EER	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW c°C kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-Cooling (GROSS VALUE) Total free-Cooling capacity EER Cooling capacity Total power input EER 23°C/15°C	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7)	V/ph/Hz kW kW kW/kW kW/kW c°C kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	0624 400/3/50 603.6 163.2 3.699 602.2 3.660 5,79 9,7 603.6 31,77	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	713.6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) Fotal free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) For Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) For Cooling capacity Fotal power input EER 23°C/15°C Cooling capacity	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 649,3 205,7 3,157	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity CER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity CER MECHANICAL COOLING (GROSS VALUE) COOLING capacity CER SEPR TOTAL FREE-COOLING (GROSS VALUE) Cotal free-cooling temperature Cooling capacity CER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C Cooling capacity CAPACITY COOLING CAPACITY COOLING CAPACITY CA	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7)	V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9	9624 400/3/50 603.6 163.2 3,699 602.2 3,660 5,79 9,7 603.6 31,77 490,9 152,2 3,225	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162	713.6 190,1 3,754 712,2 3,720 6,28 9,9 713.6 31,30 579,9 178,7 3,245	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 649,3 205,7 3,157	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (EN14511 VALUE) TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TECHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7)	V/ph/Hz kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Octal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR OTAL FREE-COOLING (GROSS VALUE) Octal free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Octal free-Cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Octoling capacity Octal power input EER ESC/15°C Cooling capacity Octal power input EER EER EER EER EER EER EER EER EECKCHANGERS	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172
Aodel Power supply ERFORMANCE ACCHANICAL COOLING (GROSS VALUE) Cooling capacity ER AECHANICAL COOLING (EN14511 VALUE) Cooling capacity ER AECHANICAL COOLING (EN14511 VALUE) COOLING capacity ER EPR O'TAL FREE-COOLING (GROSS VALUE) Cotal free-cooling temperature Cooling capacity ER AECHANICAL COOLING (GROSS VALUE) 6°C/10°C Cooling capacity Cotal power input ER 3°C/15°C Cooling capacity Cotal power input ER EXCHANGERS ELEAT EXCHANGER USER SIDE IN REFRIGER	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172
Andel Vower supply VERFORMANCE AECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input VER AECHANICAL COOLING (EN14511 VALUE) Cooling capacity VER OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity VER AECHANICAL COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity VER AECHANICAL COOLING (GROSS VALUE) OF COOLING CAPACITY OTAL FREE-COOLING (GROSS VALUE) OTAL FREE-COOLING CAPACITY OTAL FREE COOLING CAPACITY OTAL FREE-COOLING (GROSS VALUE) OTAL FREE-COOLING CAPACITY OTAL FREE-COOLING	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 667,2 185,1 3,551	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442
Aodel Power supply PERFORMANCE AECHANICAL COOLING (GROSS VALUE) Cooling capacity EER AECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER AECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR O'TOTAL FREE-COOLING (GROSS VALUE) Cooling capacity EER AECHANICAL COOLING (GROSS VALUE) 6°C/10°C Cooling capacity Cotal power input EER EIR EIR EIR EIR EIR EIR EIR EIR EIR	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442
Aodel Power supply PERFORMANCE ACCHANICAL COOLING (GROSS VALUE) Cooling capacity EER AECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER AECHANICAL COOLING (EN14511 VALUE) COOLING capacity EER COTAL FREE-COOLING (GROSS VALUE) OTAL FREE-COOLING (GROSS VALUE) OF C/10°C COOLING capacity Otal power input EER COOLING capacity Otal power input EER EXCHANGERS BEAT EXCHANGER USER SIDE IN REFRIGER Vater flow Pressure drop EEFRIGERANT CIRCUIT Compressors nr.	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8)	KW KW/kW kW/kW kW/kW *°C kW kW/kW kW/kW KW/kW KW/kW KW KW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442
Model Prower supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR EEPR EEPR EOTAL FREE-COOLING (GROSS VALUE) OTAL FREE COOLING (GROSS VALUE) OTAL FREE COOLI	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0
Alodel Vower supply VERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EFR MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EFR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR MECHANICAL COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR MECHANICAL COOLING (GROSS VALUE) Of Cooling capacity Otal power input EFR 33°C/15°C Cooling capacity Otal power input EFR EXCHANGERS WEAT EXCHANGER USER SIDE IN REFRIGER VALUE VA	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8)	KW KW/kW kW/kW kW/kW *°C kW kW/kW kW/kW KW/kW KW/kW KW KW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1	0926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity CER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity CER MECHANICAL COOLING (EN14511 VALUE) COOLING capacity CER SEPR TOTAL FREE-COOLING (GROSS VALUE) Cotal free-cooling temperature Cooling capacity CER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C COOLING capacity CER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C COOLING capacity CAPACITY COOLING CAPACITY C	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW/kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0 6 2 82,0
Wodel Power supply PERFORMANCE MICCHANICAL COOLING (GROSS VALUE) Cooling capacity EER MICCHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR SEPR SEPR COOLING (GROSS VALUE) IOTAL FREE-COOLING (GROSS VALUE) IOTAL FREE IOTAL F	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465 18,69 40,4	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 66 2 82,0
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Official power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRIGER MATER TION PRESSURE drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge MOISE LEVEL Sound Pressure Sound Pressure Sound Pressure	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW/kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0	9926 400/3/5 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0 6 2 82,0
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Official power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRIGER MATER TION PRESSURE drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge MOISE LEVEL Sound Pressure Sound Pressure Sound Pressure	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465 18,69 40,4 4 2 66,0 62 95	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0 63 96	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0 63 96	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0 64 97	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0 6 2 82,0 64 97
Wodel Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) FOTAL FREE-COOLING (GROSS VALUE) FOR ECHANICAL COOLING (GROSS VALUE	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465 18,69 40,4 4 2 66,0 62 95	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508 19,88 39,0 4 2 75,0 63 96 6255	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0 63 96 6255	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0 63 96 7430	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0 64 97	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 66 2 82,0 64 97 8605
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) FOTAL FREE-COOLING (GROSS VALUE) FOTAL FREE-COOLING (GROSS VALUE) FOTAL FREE-COOLING (GROSS VALUE) Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) FOTAL FREE-COOLING (GROSS VALUE) FOTAL FREE-CO	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	KW KW KW/kW KW/kW KW/kW CC KW KW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465 18,69 40,4 4 2 66,0 62 95	9624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0 63 96	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0 63 96	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0 64 97	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0 6 2 82,0 64 97
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total power input EER 23°C/15°C Cooling capacity Total power input EER 23°C/15°C Cooling capacity Total power input EER EXCHANGERS HEAT EXCHANGER USER SIDE IN REFRIGER Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL Sound Pressure Sound Pressure Sound Pressure Sound Power level in cooling SIZE AND WEIGHT A B B H	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	KW KW/kW kW/kW kW/kW *C kW kW/kW KW/kW KW/kW KW/kW KW KW KW/kW KW/kW	0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19 462,2 144,9 3,190 522,9 150,9 3,465 18,69 40,4 4 2 66,0 62 95	0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77 490,9 152,2 3,225 555,6 158,4 3,508 19,88 39,0 4 2 75,0 63 96 6255	0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19 528,3 167,1 3,162 597,9 173,8 3,440 21,40 41,7 5 2 75,0 63 96 6255	9746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30 579,9 178,7 3,245 657,2 185,1 3,551 23,50 34,9 6 2 75,0 63 96 7430	796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424 26,23 44,6 6 2 80,0	837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50 678,0 212,0 3,198 768,4 219,9 3,494 27,59 48,1 6 3 82,0 64 97	9926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68 728,9 229,8 3,172 824,4 239,5 3,442 29,50 66 2 82,0 64 97 8605

- 3 ▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- 4 > Seasonal energy efficiency ratio
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%.
- 1 > Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 2 > Values in compliance with EN14511

 8 > Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 9 > 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.

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

 - 11 Sound power level in cooling, outdoors.
 - 12 Unit in standard configuration/execution, without optional accessories. The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

NX-FC-Z/SL-K

Model			0384	0414	0434	0464	0494	0524	0554
ower supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/5
ERFORMANCE MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	364,5	385,9	417,0	439,4	466,5	503,5	534,1
otal power input	(1)	kW	97,59	105,7	111,3	120,1	128,7	133,6	144,1
ER	(1)	kW/kW	3,735	3,651	3,747	3,659	3,625	3,769	3,706
MECHANICAL COOLING (EN14511 VALUE)									
cooling capacity	(2)(3)	kW	363,6	384,9	415,8	438,3	465,2	502,4	532,9
ER EPR	(2)(3)	kW/kW	3,690 6,13	3,610 6,01	3,700 6,21	3,620 6,01	3,580 6,08	3,730 5,99	3,670 6,03
OTAL FREE-COOLING (GROSS VALUE)	(4)(5)		0,13	0,01	0,21	0,01	0,00	5,99	0,03
otal free-cooling temperature	(6)	°C	9,3	8,6	9,3	8,7	8,1	9,7	9,0
ooling capacity	(6)	kW	364,5	385,9	417,0	439,4	466,5	503,5	534,1
ER	(6)	kW/kW	44,51	47,12	44,55	46,94	49,84	43,03	45,65
IECHANICAL COOLING (GROSS VALUE)									
6°C/10°C		111/	000.0	0111	205.0	057.4	070.4	407.0	400.0
ooling capacity	(7)	kW kW	293,6 91,99	311,1 98,99	335,3 104,3	357,1 112,2	379,4 119,7	407,6 124,8	430,3
otal power input ER	(7)	kW/kW	3,191	3,142	3,215	3,183	3,170	3,266	133,8 3,216
3°C/15°C	(1)	NVV/NVV	5,131	3,142	3,213	3,103	3,170	3,200	3,210
ooling capacity	(8)	kW	333,4	353,0	381,0	404,3	429,3	461,9	488,6
otal power input	(8)	kW	95,09	102,7	108,1	116,6	124,6	129,6	139,5
R	(8)	kW/kW	3,506	3,437	3,525	3,467	3,445	3,564	3,503
KCHANGERS									
EAT EXCHANGER USER SIDE IN REFRIGE			40.00	10 -:	10 ==	44	45.00	10-0	
Vater flow	(3)	I/s	12,00	12,71	13,73	14,47	15,36	16,58	17,59
essure drop	(2)(3)	kPa	35,1	40,1	46,5	41,3	45,9	35,2	36,3
EFRIGERANT CIRCUIT ompressors nr.		N°	4	4	4	4	4	4	4
o. Circuits		N°	2	2	2	2	2	2	2
efrigerant charge		kg	42,0	47,0	50,0	52,0	52,0	57,0	60,0
OISE LEVEL				,					,0
ound Pressure	(9)	dB(A)	54	54	54	53	53	54	54
ound power level in cooling	(10)(11)	dB(A)	86	86	86	86	86	87	87
IZE AND WEIGHT									
	(12)	mm	5080	5080	5080	5080	5080	6255	6255
<u> </u>	(12)	mm	2260 2450	2260 2450	2260 2450	2260 2450	2260 2450	2260 2450	2260 2450
perating weight	(12)	mm kg	3960	4080	4600	4580	4610	5850	5360
pordaring mongrit	()	119	0000	1000	1000	1000	1010	0000	0000
Model			0594	0624	0685	0746	0836	0866	0926
ower supply		V/ph/Hz	0594 400/3/50	0624 400/3/50	0685 400/3/50	0746 400/3/50	0836 400/3/50	0866 400/3/50	
ower supply ERFORMANCE		V/ph/Hz							
ower supply Performance Mechanical cooling (Gross Value)	(1)		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/5
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) booling capacity	(1)	kW	400/3/50 568,2	400/3/50	400/3/50 643,7	400/3/50 710,6	400/3/50 801,0	400/3/50 826,3	400/3/5 888,2
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity otal power input	(1)	kW kW	400/3/50 568,2 154,7	400/3/50 604,0 160,2	400/3/50 643,7 176,2	710,6 187,4	400/3/50 801,0 213,1	826,3 223,3	400/3/5 888,2 244,8
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER		kW	400/3/50 568,2	400/3/50	400/3/50 643,7	400/3/50 710,6	400/3/50 801,0	400/3/50 826,3	400/3/5 888,2 244,8
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER ER IECHANICAL COOLING (EN14511 VALUE)	(1)	kW kW	400/3/50 568,2 154,7	400/3/50 604,0 160,2	400/3/50 643,7 176,2	710,6 187,4	400/3/50 801,0 213,1	826,3 223,3	400/3/5 888,2
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity	(1)	kW kW kW/kW	400/3/50 568,2 154,7 3,673	400/3/50 604,0 160,2 3,770	643,7 176,2 3,653	710,6 187,4 3,792	801,0 213,1 3,759	826,3 223,3 3,700	888,2 244,8 3,628
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ER EPR	(1) (1) (2)(3)	kW kW kW/kW	400/3/50 568,2 154,7 3,673 566,9	400/3/50 604,0 160,2 3,770 602,6	400/3/50 643,7 176,2 3,653 642,2	710,6 187,4 3,792	400/3/50 801,0 213,1 3,759 799,1	400/3/50 826,3 223,3 3,700 824,2	888,2 244,8 3,628 885,7
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tatal power input EER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW/kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04	604,0 160,2 3,770 602,6 3,730 6,07	643,7 176,2 3,653 642,2 3,610 6,11	710,6 187,4 3,792 709,2 3,760 6,62	801,0 213,1 3,759 799,1 3,720 6,48	826,3 223,3 3,700 824,2 3,660 6,25	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER ER EPER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	643,7 176,2 3,653 642,2 3,610 6,11	710,6 187,4 3,792 709,2 3,760 6,62	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7	826,3 223,3 3,700 824,2 3,660 6,25	888,2 244,8 3,628 885,7 3,580 6,33
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPR D77AL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6	400/3/50 801.0 213.1 3,759 799.1 3,720 6,48 9,7 801,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3	888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input EECHANICAL COOLING (EN14511 VALUE) cooling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	643,7 176,2 3,653 642,2 3,610 6,11	710,6 187,4 3,792 709,2 3,760 6,62	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7	826,3 223,3 3,700 824,2 3,660 6,25	888,2 244,8 3,628 885,7 3,580 6,33
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER ER IECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6	400/3/50 801.0 213.1 3,759 799.1 3,720 6,48 9,7 801,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3	888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) Doling capacity stal power input ER ECHANICAL COOLING (EN14511 VALUE) Doling capacity ER EPPR DTAL FREE-COOLING (GROSS VALUE) Ital free-cooling temperature Doling capacity ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) S°C/10°C	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6	400/3/50 801.0 213.1 3,759 799.1 3,720 6,48 9,7 801,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3	888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) colling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) colling capacity ER ET ET OTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) COOLING COOLING (GROSS VALUE) COOLING COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW °C kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) ooling capacity EE ECHANICAL COOLING (GROSS VALUE) ooling capacity EE CHANICAL COOLING (GROSS VALUE) ooling capacity EA IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER ER IECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW cC kW kW/kW	568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) coling capacity ER DTAL FREE-COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) coling capacity ECHANICAL COOLING (GROSS VALUE) coling capacity tal power input ER 3°C/15°C	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7)	kW kW kW/kW kW/kW °C kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input EECHANICAL COOLING (EN14511 VALUE) cooling capacity EECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity EECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ECCHANICAL COOLING (GROSS VALUE) tal power input EECHANICAL COOLING (GROSS VALUE) tal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	kW kW kW/kW kW/kW *C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) Dolling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) Dolling capacity ER ECHANICAL COOLING (GROSS VALUE) Utal free-cooling temperature Dolling capacity ER ECHANICAL COOLING (GROSS VALUE) TR ECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	kW kW kW/kW kW/kW *°C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) ooling capacity stal power input ER ECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPPR ooling capacity tal free-cooling (GROSS VALUE) tal free-cooling temperature ooling capacity ER ECHANICAL COOLING (GROSS VALUE) ooling capacity ER ECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER ooling capacity tal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	kW kW kW/kW kW/kW *C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) bolling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) bolling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature bolling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature bolling capacity ER ECHANICAL COOLING (GROSS VALUE) Se'C/10°C bolling capacity tal power input ER CCHANGERS ECHANGERS CCHANGERS	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8)	kW kW kW/kW kW/kW *°C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) Dolling capacity tal power input BECHANICAL COOLING (EN14511 VALUE) Dolling capacity BECHANICAL COOLING (GROSS VALUE) TAL FREE-COOLING (GROSS VALUE) TAL FREE-CO	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	kW kW kW/kW kW/kW °C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451
INVERSION STATES OF THE PROPERTY OF THE PROPER	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	kW kW kW/kW kW/kW *C kW kW/kW *KW/kW *KW/kW *KW/kW *KW/kW *KW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) bolling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) bolling capacity EP EP BOTAL FREE-COOLING (GROSS VALUE) bolling capacity ER ECHANICAL COOLING (GROSS VALUE) bolling capacity ER ECHANICAL COOLING (GROSS VALUE) bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) BOC/15°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	kW kW kW/kW kW/kW °C kW kW/kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input EECHANICAL COOLING (EN14511 VALUE) cooling capacity EECHANICAL COOLING (EN14511 VALUE) cooling capacity ER DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ECCHANICAL COOLING (GROSS VALUE) cooling capacity cap	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	kW kW kW/kW kW/kW *C kW kW/kW *KW/kW *KW/kW *KW/kW *KW/kW *KW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity tal power input ER 3°C/10°C ooling capacity tal power input ER 2°C Ooling capacity tal power input ER SYCHANGER EAT EXCHANGER USER SIDE IN REFRIGE later flow ressure drop EFRIGERANT CIRCUIT ompressors nr.	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	kW kW kW/kW kW kW/kW °C kW kW/kW kW/kW KW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) bolling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) bolling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature booling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature booling capacity ECHANICAL COOLING (GROSS VALUE) Sec'2.10°C bolling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VA	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW kW/kW KW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) TO COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8)	kW kW kW/kW kW kW/kW °C kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1 6 2 86,0
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) poling capacity ER ECHANICAL COOLING (EN14511 VALUE) poling capacity EP EP DTAL FREE-COOLING (GROSS VALUE) poling capacity ER ECHANICAL COOLING (GROSS VALUE) poling capacity ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) poling cap	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8)	kW kW kW/kW kW/kW *C kW kW/kW *W/kW *W/kW *W *W *W *W *W *W *W *W *W	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5 4 2 66,0	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505 27,21 46,8 6 3 86,0	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 6 2 86,0
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) soling capacity tall power input ER ECHANICAL COOLING (EN14511 VALUE) soling capacity ER ECHANICAL COOLING (GROSS VALUE) soling capacity ER EXTAL FREE-COOLING (GROSS VALUE) soling capacity ER ECHANICAL COOLING (GROSS VALUE) soling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) soling capacity tall power input ER EXCHANGER EXCHANGER USER SIDE IN REFRIGE atter flow essure drop EFRIGERANT CIRCUIT soling capacity capacity tall power input ER EXCHANGERS EAT EXCHANGER USER SIDE IN REFRIGE atter flow essure drop EFRIGERANT CIRCUIT soling capacity color of the	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8)	kW kW kW/kW kW kW/kW °C kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1 6 2 86,0
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boiling capacity tal power input EE ECHANICAL COOLING (EN14511 VALUE) boiling capacity ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature boiling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature boiling capacity ECHANICAL COOLING (GROSS VALUE) SerV-10°C boiling capacity tal power input ER SerV-10°C boiling capacity tal power input ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GR	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	kW kW kW/kW kW kW/kW °C kW kW/kW KW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5 4 2 66,0	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0 55 88	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2 79,0 57 90	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2 82,0	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0 56 89	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1 6 2 86,0 57 90
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER IECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER 3°C/15°C ooling capacity tal power input ER SXCHANGERS EAT EXCHANGER USER SIDE IN REFRIGE later flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge oise LEVEL bund Pressure und power level in cooling ize AND WEIGHT	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11) (12)	kW kW kW/kW kW/kW *C kW kW/kW *W/kW *W/kW *W *W *W *W *W *W *W *W *W	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5 4 2 66,0	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0 55 88	643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2 79,0	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2 82,0	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0 56 89	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505 27,21 46,8 6 3 86,0	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 6 2 9,25 54,1 6 2 86,0 57 90 9780
ower supply PERFORMANCE	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	kW kW kW/kW kW kW/kW °C kW kW/kW KW kW/kW	400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56 463,9 143,6 3,231 524,1 149,9 3,496 18,71 40,5 4 2 66,0	400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14 491,4 149,1 3,296 556,1 155,3 3,581 19,89 39,1 4 2 77,0 55 88	400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98 523,5 164,0 3,192 592,4 170,8 3,468 21,20 40,9 5 2 79,0 57 90	710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33 578,1 175,6 3,292 654,8 182,2 3,594 23,40 34,6 6 2 82,0	400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83 649,7 198,9 3,266 733,7 206,6 3,551 26,38 45,1 6 2 86,0 56 89	826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227 757,7 216,2 3,505	400/3/5 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0 3,451 29,25 54,1 6 2 86,0 57 90

- 3 ▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- 4 ▶ Seasonal energy efficiency ratio
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%.
- 1 > Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 2 > Values in compliance with EN14511

 8 > Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 9 > 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.

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

 - 11 Sound power level in cooling, outdoors. 12 • Unit in standard configuration/execution, without optional accessories.
 - The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.



0384 - 0926Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)













NX-FC-Z/A

Davier august.			0384	0414	0434	0464	0494	0524	0554
ower supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
ERFORMANCE									
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	389,4	422,0	454,6	479,6	510,6	542,8	577,2
Total power input	(1)	kW	96,52	103,6	109,9	116,6	123,2	132,5	142,3
ER	(1)	kW/kW	4,035	4,073	4,136	4,113	4,144	4,097	4,056
MECHANICAL COOLING (EN14511 VALUE)	(-)		.,	.,	.,	.,	.,	.,	.,
Cooling capacity	(2)(3)	kW	388,5	420,8	453,2	478,3	509,1	541,5	575,8
EER	(2)(3)	kW/kW	3,990	4,020	4,070	4,060	4,080	4,050	4,010
SEPR	(4)(5)	ICT/ICT	6,39	6,43	6,54	6,40	6,33	6,26	6,41
TOTAL FREE-COOLING (GROSS VALUE)	(1)(0)		0,00	0,10	0,01	0,10	0,00	0,20	0,11
Total free-cooling temperature	(6)	°C	10,1	10,8	11,3	11,7	12,0	11,6	11,1
Cooling capacity	(6)	kW	389,4	422,0	454,6	479,6	510,6	542,8	577,2
EER	(6)	kW/kW	40,06	37,35	34,97	32,85	31,52	33,51	35,63
MECHANICAL COOLING (GROSS VALUE)	(0)	NVV/NVV	40,00	31,33	34,37	32,03	31,32	33,31	33,03
16°C/10°C									
	(7)	kW	312,7	337,9	363,1	386,0	410,1	436,6	462,0
Cooling capacity	(7)	kW	91,42	98.14	104,0	110.6	116,8	125,0	133,4
Total power input	(7)								
ER	(7)	kW/kW	3,421	3,444	3,491	3,490	3,511	3,493	3,463
23°C/15°C									
Cooling capacity	(8)	kW	355,7	384,8	414,0	439,3	467,2	496,1	526,3
otal power input	(8)	kW	94,22	101,1	107,2	113,9	120,3	129,1	138,3
ER	(8)	kW/kW	3,776	3,806	3,862	3,857	3,884	3,843	3,805
XCHANGERS									
EAT EXCHANGER USER SIDE IN REFRIGER									
Nater flow	(3)	l/s	12,82	13,90	14,97	15,79	16,82	17,87	19,01
Pressure drop	(2)(3)	kPa	39,3	46,8	53,9	48,1	53,2	39,4	41,2
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	40,0	45,0	52,0	65,0	67,0	67,0	70,0
NOISE LEVEL									
Sound Pressure	(9)	dB(A)	63	63	64	63	64	64	64
Sound power level in cooling	(10)(11)	dB(A)	95	95	96	96	97	97	97
SIZE AND WEIGHT									
	(12)	mm	3905	5080	5080	6255	6255	6255	6255
3	(12)	mm	2260	2260	2260	2260	2260	2260	2260
1	(12)	mm	2450	2450	2450	2450	2450	2450	2450
Derating weight	(12)	kg	3580	4070	4260	5110	5300	5340	5360
		· ·							
ladal			0594	0624	0685	0740	0000	2222	2000
nouei			0007	0024	0000	0746	0836	0866	0926
		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
Power supply		V/ph/Hz							
Power supply PERFORMANCE		V/ph/Hz							
Power supply Performance Mechanical Cooling (Gross Value)	(1)	V/ph/Hz kW							400/3/50 952,0
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity	(1)	kW	400/3/50 612,0	400/3/50 650,6	400/3/50 704,5	400/3/50 759,3	400/3/50 854,5	400/3/50 895,8	400/3/50 952,0
Power supply PERFORMANCE ARCHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input	(1)	kW kW	400/3/50 612,0 151,0	400/3/50 650,6 159,6	704,5 171,8	400/3/50 759,3 185,5	400/3/50 854,5 211,8	400/3/50 895,8 222,0	952,0 241,2
Power supply PERFORMANCE BECHANICAL COOLING (GROSS VALUE) Pooling capacity otal power input EFR		kW	400/3/50 612,0	400/3/50 650,6	400/3/50 704,5	400/3/50 759,3	400/3/50 854,5	400/3/50 895,8	400/3/50 952,0
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Cotal power input EER MECHANICAL COOLING (EN14511 VALUE)	(1)	kW kW kW/kW	400/3/50 612,0 151,0 4,053	400/3/50 650,6 159,6 4,076	704,5 171,8 4,101	400/3/50 759,3 185,5 4,093	854,5 211,8 4,034	895,8 222,0 4,035	952,0 241,2 3,947
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Otal power input EFR MECHANICAL COOLING (EN14511 VALUE) Dooling capacity	(1) (1) (2)(3)	kW kW kW/kW	400/3/50 612,0 151,0 4,053 610,4	400/3/50 650,6 159,6 4,076 649,0	704,5 171,8 4,101 702,7	400/3/50 759,3 185,5 4,093 757,7	400/3/50 854,5 211,8 4,034 852,3	400/3/50 895,8 222,0 4,035 893,3	952,0 241,2 3,947 949,1
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EFR MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EFR	(1) (1) (2)(3) (2)(3)	kW kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000	400/3/50 650,6 159,6 4,076 649,0 4,030	400/3/50 704,5 171,8 4,101 702,7 4,050	400/3/50 759,3 185,5 4,093 757,7 4,050	400/3/50 854,5 211,8 4,034 852,3 3,980	400/3/50 895,8 222,0 4,035 893,3 3,980	952,0 241,2 3,947 949,1 3,890
Power supply PERFORMANCE ACCUMING (GROSS VALUE) POOLING capacity Otal power input EER AECHANICAL COOLING (EN14511 VALUE) POOLING capacity EER EER EER	(1) (1) (2)(3)	kW kW kW/kW	400/3/50 612,0 151,0 4,053 610,4	400/3/50 650,6 159,6 4,076 649,0	704,5 171,8 4,101 702,7	400/3/50 759,3 185,5 4,093 757,7	400/3/50 854,5 211,8 4,034 852,3	400/3/50 895,8 222,0 4,035 893,3	952,0 241,2 3,947
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input Teter MECHANICAL COOLING (EN14511 VALUE) Cooling capacity TER SEPR OTAL FREE-COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW kW/kW kW/kW	612,0 151,0 4,053 610,4 4,000 6,31	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29	704,5 171,8 4,101 702,7 4,050 6,42	759,3 185,5 4,093 757,7 4,050 6,79	854,5 211,8 4,034 852,3 3,980 6,62	895,8 222,0 4,035 893,3 3,980 6,52	952,0 241,2 3,947 949,1 3,890 6,52
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4	400/3/50 650.6 159.6 4,076 649.0 4,030 6,29	704,5 171,8 4,101 702,7 4,050 6,42	759,3 185,5 4,093 757,7 4,050 6,79	854,5 211,8 4,034 852,3 3,980 6,62	895,8 222,0 4,035 893,3 3,980 6,52	952,0 241,2 3,947 949,1 3,890 6,52
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EER EER FOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) Cooling capacity Cooling capacity Cooling capacity	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EER TOTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EER	(1) (1) (2)(3) (2)(3) (4)(5)	kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4	400/3/50 650.6 159.6 4,076 649.0 4,030 6,29	704,5 171,8 4,101 702,7 4,050 6,42	759,3 185,5 4,093 757,7 4,050 6,79	854,5 211,8 4,034 852,3 3,980 6,62	895,8 222,0 4,035 893,3 3,980 6,52	952,0 241,2 3,947 949,1 3,890 6,52
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR FOTAL FREE-COOLING (GROSS VALUE) fotal free-cooling temperature Cooling capacity EER EER MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	kW kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Total power input MECHANICAL COOLING (EN14511 VALUE) Dooling capacity MECHANICAL COOLING (EN14511 VALUE) Dooling capacity MECHANICAL COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Dooling capacity MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW c°C kW kW/kW	612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04	759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EER OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) EER ECOLORIO COOLING COOLING (GROSS VALUE) EER ECOLORIO COOLING	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW c°C kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EFR ACCHANICAL COOLING (EN14511 VALUE) Cooling capacity EFR EFR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR MECHANICAL COOLING (GROSS VALUE) 6°C/10°C Cooling capacity otal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7)	kW kW kW/kW kW/kW *C *C kW kW/kW	612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input ER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity ER ER FOTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity ER MECHANICAL COOLING (GROSS VALUE) 6°C/10°C Cooling capacity Otal power input ER ET	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW c°C kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR COTTAL FREE-COOLING (GROSS VALUE) Cooling capacity EER Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) 6°C/10°C Cooling capacity otal power input EER EER EER EER EER EER EER EC/15°C	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7)	kW kW/kW kW/kW kW/kW °C kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
Power supply PERFORMANCE ACCHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EER ACCHANICAL COOLING (EN14511 VALUE) Cooling capacity EER ECHANICAL COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EER ACCHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	kW kW kW/kW kW/kW cC kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER INCHANICAL COOLING (EN14511 VALUE) cooling capacity ER ECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER INCHANICAL COOLING (GROSS VALUE) OF COOLING (GROSS VALUE) OF COOLING (GROSS VALUE) ER INCHANICAL COOLING (GROSS VALUE) OF COOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7)	kW kW/kW kW/kW kW/kW °C kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EER ACCHANICAL COOLING (EN14511 VALUE) Cooling capacity EER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature Cooling capacity EER AECHANICAL COOLING (GROSS VALUE) of*C/10°C cooling capacity otal power input EER 33°C/15°C cooling capacity otal power input otal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	kW kW kW/kW kW/kW cC kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECCHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) cotal free-cooling temperature cooling capacity EE IECCHANICAL COOLING (GROSS VALUE) cooling capacity EE IECCHANICAL COOLING (GROSS VALUE) cooling capacity EE IECCHANICAL COOLING (GROSS VALUE) cooling capacity capa	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8)	kW kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER RECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EFPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal power input ER 3°C/15°C cooling capacity otal power input ER CR SIC/15°C cooling capacity otal power input ER R SIC/15°C Cooling capacity	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7)	kW kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input EFR MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EFR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR MECHANICAL COOLING (GROSS VALUE) OF COOLING (GROSS VALUE) OF COOLING (GROSS VALUE) OF COOLING CAPACITY OTAL FREE-COOLING (GROSS VALUE) OF COOLING CAPACITY OF COOLING CAPACITY OTAL FREE SIZE/15°C COOLING CAPACITY OTAL FREE COOLING OTAL FREE COOL	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER ACCHANICAL COOLING (EN14511 VALUE) cooling capacity ER ER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER BECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER XCHANGERS EEAT EXCHANGER USER SIDE IN REFRIGER Vater flow	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER RECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EFPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal power input ER 3°C/15°C cooling capacity otal power input ER R XCHANGERS EAT EXCHANGER USER SIDE IN REFRIGER VALET flow ressure drop	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ERF INCHANICAL COOLING (EN14511 VALUE) cooling capacity ER ECHANICAL COOLING (GROSS VALUE) cooling capacity ER ECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) OTAL FREE-COOLING (GROSS VALUE) OTAL FREE-COOLING (GROSS VALUE) ER IECHANICAL COOLING (GROSS VALUE) OTAL FREE ICHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER ACCHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER EXCHANGER LEAT EXCHANGER USER SIDE IN REFRIGER Vater flow ressure drop LEFRIGERANT CIRCUIT compressors IT.	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER R IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) Otal free-cooling temperature cooling capacity Otal power input ER IECHANICAL COOLING (GROSS VALUE) Otal power input ER ER SYCHS** SYCHS*	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW cC kW kW/kW kW/kW kW/kW kW/kW kW/kW kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6
ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) ooling capacity otal power input EER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ECCHANICAL COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECCHANICAL COOLING (GROSS VALUE) offector cooling temperature ooling capacity ER IECCHANICAL COOLING (GROSS VALUE) offector cooling capacity otal power input ER 37C/15°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIGER ATE EXCHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER ATE OF THE TECHANGER USER SIDE IN REFRIGER ATE OF THE TECHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER OF THE TECHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER OF THE TECHANGER USER SIDE IN REFRIGER ATE TECHANGER USER SIDE IN REFRIGER OF THE TECHANGER USER SIDE IN REFRIGER ATERIAL TECHNICAL USER SIDE USER SIDE IN REFRIGER ATERIAL TECHNICAL USER SIDE US	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) total free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) coling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity total power input ER 3°C/15°C cooling capacity total power input ER SCHANGER USER SIDE IN REFRIGER tater flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW *W/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0	400/3/50 952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2 89,0
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) offercooling temperature cooling capacity each include Cooling (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER XCHANGER EAT EXCHANGER USER SIDE IN REFRIGER //ater flow ressure drop EFRIGERANT CIRCUIT compressors in. o. Circuits efrigerant charge oliss LeveL cound Pressure	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW kW/kW *C 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	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7 4 2 77,0	400/3/50 650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4 2 81,0	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5 5 2 84,0	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER RECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EFPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER RECHANICAL COOLING (GROSS VALUE) otal power input ER 3°C/15°C cooling capacity otal power input ER XCHANGERS REAT EXCHANGER USER SIDE IN REFRIGER VALET flow ressure drop IEFRIGERANT CIRCUIT compressors nr. Io. Circuits lefrigerant charge IOISE LEVEL ound Pressure	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8)	kW kW/kW kW/kW kW/kW *C kW kW/kW *W/kW	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6
ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECCHANICAL COOLING (EN14511 VALUE) ooling capacity ER IECCHANICAL COOLING (GROSS VALUE) ooling capacity ER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECCHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER 37C/15°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIGER AITE IOW TERSURE OOL TO CITICUITS OOL TO COOLING OOL TO COOL TO COO	(1) (1) (2)(3) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	kW kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW dB(A) dB(A)	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7 4 2 77,0 64 97	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4 2 81,0	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5 2 84,0	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0 65 98	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0 66 99	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2 89,0
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity otal power input ER 3°C/15°C cooling capacity otal power input ER ST-COOLING (GROSS VALUE) ER ST-COOL	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	kW kW/kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kBPa N° N° kg dB(A) dB(A)	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7 4 2 77,0 64 97	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4 2 81,0	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5 2 84,0	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0 65 98	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1 6 2 89,0 65 98	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0 66 99	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2 89,0 66 99
Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input PEFF PEFF PEFF PEFF PEFF PEFF PEFF PEF	(1) (1) (2)(3) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11)	kW kW kW/kW kW/kW kW/kW °C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW dB(A) dB(A)	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7 4 2 77,0 64 97	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4 2 81,0	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5 2 84,0	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0 65 98	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0 66 99	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2 89,0
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER SEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) 16°C/10°C Cooling capacity Total power input EER EER E23°C/15°C Cooling capacity Total power input EER EECHANGERS HEAT EXCHANGER USER SIDE IN REFRIGER 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 B H	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	kW kW/kW kW/kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kBPa N° N° kg dB(A) dB(A)	400/3/50 612,0 151,0 4,053 610,4 4,000 6,31 11,4 612,0 34,38 495,4 141,8 3,494 562,3 147,0 3,825 20,16 45,7 4 2 77,0 64 97	650,6 159,6 4,076 649,0 4,030 6,29 11,6 650,6 33,54 526,2 149,7 3,515 597,3 155,3 3,846 21,42 44,6 4 2 81,0	704,5 171,8 4,101 702,7 4,050 6,42 12,1 704,5 31,04 567,1 162,3 3,494 644,2 167,6 3,844 23,20 47,3 5 2 84,0	400/3/50 759,3 185,5 4,093 757,7 4,050 6,79 11,5 759,3 33,45 613,8 175,6 3,495 697,6 181,1 3,852 25,01 38,6 6 2 86,0 65 98	854,5 211,8 4,034 852,3 3,980 6,62 11,7 854,5 32,99 689,0 199,4 3,455 780,5 206,1 3,787 28,14 50,1 6 2 89,0 65 98	400/3/50 895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457 816,9 215,6 3,789 29,50 53,7 6 3 89,0 66 99	952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3 3,731 31,35 60,6 6 2 89,0 66 99

- 3 ▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- 4 > Seasonal energy efficiency ratio
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%.
- 1 > Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 2 > Values in compliance with EN14511

 8 > Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 9 > 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.

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

 - 11 Sound power level in cooling, outdoors. 12 • Unit in standard configuration/execution, without optional accessories.
 - The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

NX-FC-Z/SL-A

Model			0384	0414	0434	0464	0494	0524
ower supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
ERFORMANCE		** p. v L	.00/0/00	100,0/00	100,0/00	.55,0/00	100,0,00	100/0/00
MECHANICAL COOLING (GROSS VALUE)								
cooling capacity	(1)	kW	377,0	402,3	424,2	459,2	487,2	517,2
otal power input	(1)	kW	92,02	100,0	107,9	112,1	119,6	129,5
ER	(1)	kW/kW	4,098	4,023	3,931	4,096	4,074	3,994
MECHANICAL COOLING (EN14511 VALUE)	(-)		.,	-,,	-,	.,	.,	-,
Cooling capacity	(2)(3)	kW	376,1	401,3	423,0	458,0	485,8	516,1
EER	(2)(3)	kW/kW	4,050	3,970	3,880	4,040	4,020	3,950
SEPR	(4)(5)		7,02	6,71	6,65	6,99	6,80	6,62
TOTAL FREE-COOLING (GROSS VALUE)	(1)(0)		7,02	0,7 1	0,00	0,00	0,00	0,02
Total free-cooling temperature	(6)	°C	10,3	10,2	9,7	10,5	10,5	10,0
Cooling capacity	(6)	kW	377,0	402,3	424,2	459,2	487,2	517,2
ER	(6)	kW/kW	67,32	71.84	75,75	65,60	69,60	73,89
MECHANICAL COOLING (GROSS VALUE)	(0)	NW/NW	01,02	71,04	10,10	03,00	00,00	70,00
6°C/10°C								
Cooling capacity	(7)	kW	302,6	322,8	340,7	371,2	393,2	418,2
Total power input	(7)	kW	87,02	94,22	101,1	105,2	112,3	121,0
ER	(7)	kW/kW	3,478	3,427	3,370	3,529	3,501	3,456
23°C/15°C	(1)	KVV/KVV	3,470	3,421	3,370	3,329	3,301	3,400
	/Q\	kW	344,3	367,2	387,4	421,5	446.8	474,1
Cooling capacity	(8)	kW	344,3 89,82	367,2 97,42	387,4 104,8	421,5 109,0	446,8 116,3	4/4,1 125,6
otal power input ER	(8)	kW/kW	3,834	3,770	3,697	3,867	3,842	
	(8)	KVV/KVV	3,034	3,770	3,097	3,607	3,042	3,775
XCHANGERS	DATION							
HEAT EXCHANGER USER SIDE IN REFRIGER		1/e	10.40	12.25	12.07	15.10	16.04	17.00
Nater flow	(3)	I/S	12,42	13,25	13,97	15,12	16,04	17,03
Pressure drop	(2)(3)	kPa	37,1	42,8	47,9	44,8	49,2	36,7
REFRIGERANT CIRCUIT		NIO	4	4	4	4	4	
Compressors nr.		N°	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2
Refrigerant charge		kg	47,0	47,0	50,0	67,0	67,0	66,0
IOISE LEVEL	(0)	JD(A)				F.4		
Sound Pressure	(9)	dB(A)	55	55	55	54	55	55
Sound power level in cooling	(10)(11)	dB(A)	87	87	87	87	88	88
SIZE AND WEIGHT	(1.0)							
1	(12)	mm	5080	5080	5080	6255	6255	6255
3	(12)	mm	2260	2260	2260	2260	2260	2260
1	(12)	mm	2450	2450	2450	2450	2450	2450
Operating weight	(12)	kg	4190	4220	4300	5270	5300	5330
	(12)	kg						
Model	(12)		0554	0594	0624	0685	0746	0836
Model Power supply	(12)	kg V/ph/Hz						0836
Operating weight Model Power supply PERFORMANCE	(12)		0554	0594	0624	0685	0746	0836
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE)		V/ph/Hz	0554 400/3/50	0594 400/3/50	0624 400/3/50	0685 400/3/50	0746 400/3/50	0836 400/3/50
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity	(1)	V/ph/Hz	0554 400/3/50 551,6	0594 400/3/50 594,3	0624 400/3/50 620,3	0685 400/3/50 679,9	0746 400/3/50 722,9	0836 400/3/50 822,6
Iodel ower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input	(1)	V/ph/Hz kW kW	0554 400/3/50 551,6 139,9	0594 400/3/50 594,3 145,8	0624 400/3/50 620,3 155,5	0685 400/3/50 679,9 166,3	0746 400/3/50 722,9 181,6	0836 400/3/50 822,6 206,6
Model Yower supply YERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Otal power input ER	(1)	V/ph/Hz	0554 400/3/50 551,6	0594 400/3/50 594,3	0624 400/3/50 620,3	0685 400/3/50 679,9	0746 400/3/50 722,9	0836 400/3/50 822,6
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE)	(1)	V/ph/Hz kW kW	0554 400/3/50 551,6 139,9	0594 400/3/50 594,3 145,8	0624 400/3/50 620,3 155,5	0685 400/3/50 679,9 166,3	0746 400/3/50 722,9 181,6	0836 400/3/50 822,6 206,6
Adodel Adover supply FERFORMANCE AECHANICAL COOLING (GROSS VALUE) ADODING capacity ADDITIONAL COOLING (EN14511 VALUE) ADDITIONAL COOLING (EN14511 VALUE) ADDITIONAL COOLING (EN14511 VALUE)	(1) (1) (1) (2)(3)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4	0594 400/3/50 594,3 145,8 4,076	0624 400/3/50 620,3 155,5 3,989 618,8	0685 400/3/50 679,9 166,3 4,088	722,9 181,6 3,981	0836 400/3/50 822,6 206,6 3,982 820,6
Todel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity ERF IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER	(1) (1) (1)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900	0594 400/3/50 594,3 145,8 4,076 592,8 4,030	0624 400/3/50 620,3 155,5 3,989 618,8 3,940	0685 400/3/50 679,9 166,3 4,088 678,2 4,040	7746 400/3/50 722,9 181,6 3,981 721,4 3,940	822,6 206,6 3,982 820,6 3,930
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ER EPR	(1) (1) (1) (2)(3)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4	0594 400/3/50 594,3 145,8 4,076	0624 400/3/50 620,3 155,5 3,989 618,8	0685 400/3/50 679,9 166,3 4,088	722,9 181,6 3,981	0836 400/3/50 822,6 206,6 3,982 820,6
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Total power input MECHANICAL COOLING (EN14511 VALUE) COOLING capacity MECHANICAL COOLING (EN14511 VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679.9 166,3 4,088 678.2 4,040 7,14	722,9 181,6 3,981 721,4 3,940 7,22	822,6 3,982 820,6 3,982 820,6 3,930 7,11
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input	(1) (1) (1) (1) (2)(3) (2)(3)	V/ph/Hz kW kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22	822,6 206,6 3,982 820,6 3,930 7,11
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Total power input TER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity TER SEPR TOTAL FREE-COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679.9 166,3 4,088 678.2 4,040 7,14	722,9 181,6 3,981 721,4 3,940 7,22	822,6 3,982 820,6 3,982 820,6 3,930 7,11
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER EEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Dooling capacity EER	(1) (1) (1) (2)(3) (2)(3) (4)(5)	V/ph/Hz kW kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22	822,6 206,6 3,982 820,6 3,930 7,11
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	V/ph/Hz k/W k/W k/W/k/W k/W/k/W	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity fotal power input EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER EEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Dooling capacity EER	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	V/ph/Hz k/W k/W k/W/k/W k/W/k/W	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Ooling capacity EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER DOOLING (GROSS VALUE) Oolal free-COOLING (GROSS VALUE) Ooling capacity EER MECHANICAL COOLING (GROSS VALUE) Ooling capacity EER MECHANICAL COOLING (GROSS VALUE) 6°C/10°C	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	V/ph/Hz k/W k/W k/W/k/W k/W/k/W	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EFR MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EFR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR EFR COOLING (GROSS VALUE) Cooling capacity ER COOLING (GROSS VALUE) Cooling capacity COOLING (GROSS VALUE) COOLING CROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45
Andel Vower supply VERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EFR MECHANICAL COOLING (EN14511 VALUE) COOLING capacity EFR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Cooling capacity EFR MECHANICAL COOLING (GROSS VALUE) OTAL FREE-COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38	722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45
Model Power supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity Otal power input EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER EEPR TOTAL FREE-COOLING (GROSS VALUE) Total free-cooling temperature Cooling capacity EER MECHANICAL COOLING (GROSS VALUE) MECHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	V/ph/Hz kW kW kW/kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38	722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45
Model Prower supply PERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity EER MECHANICAL COOLING (EN14511 VALUE) Cooling capacity EER TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE TOTAL	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7)	V/ph/Hz kW kW kW/kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38	722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45
Anddel Vower supply VERFORMANCE MECHANICAL COOLING (GROSS VALUE) Dooling capacity Otal power input EER MECHANICAL COOLING (EN14511 VALUE) Dooling capacity EER SEPR OTAL FREE-COOLING (GROSS VALUE) Otal free-cooling temperature Dooling capacity EER MECHANICAL COOLING (GROSS VALUE) Otal free-Cooling temperature Dooling capacity EER AIECHANICAL COOLING (GROSS VALUE) Otal power input EER 33°C/15°C Dooling capacity Dooling capacity	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7)	V/ph/Hz k/W k/W k/W/k/W k/W/k/W *C k/W k/W/k/W	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85	0685 400/3/50 679,9 166,3 4,088 676,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457
Todel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity EECHANICAL COOLING (GROSS VALUE) ooling capacity EECHANICAL COOLING (GROSS VALUE) ooling capacity EECHANICAL COOLING (GROSS VALUE) 6°C/10°C ooling capacity tal power input ER 3°C/15°C ooling capacity otal power input	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7)	V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38	722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457
Todel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity ooling capacity EECHANICAL COOLING (EN14511 VALUE) ooling capacity EER ECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity EER ECHANICAL COOLING (GROSS VALUE) ooling capacity EER SCCHANICAL COOLING (GROSS VALUE) 6°C/10°C ooling capacity otal power input EER 3°C/15°C ooling capacity otal power input etal power input etal	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7)	V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6	822,6 206,6 3,982 822,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3
Todel Tower supply TERFORMANCE IECHANICAL COOLING (GROSS VALUE) TERFORMANCE IECHANICAL COOLING (GROSS VALUE) TER IECHANICAL COOLING (EN14511 VALUE) TER TERE-TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6	822,6 206,6 3,982 822,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) Tooling capacity Tooling capacity TERF TECHANICAL COOLING (EN14511 VALUE) TOOLING (EN14511 VALUE) TOOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COO	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW ** ** ** ** ** ** ** ** **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (GROSS VALUE)	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759
Todel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) of "C710" C ooling capacity otal power input ER Ooling capacity otal power input ER STCHOST C Ooling capacity otal power input ER STCHOST C Ooling capacity otal power input ER STCHOST C Ooling capacity otal power input ER ER STCHOST C Ooling capacity otal power input ER ER ER EXCHANGER USER SIDE IN REFRIGEF AITER IND ERFRIGERANT CIRCUIT	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW kW/kW kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759
Todel Tower Supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) Tooling capacity Total power input TER TECHANICAL COOLING (EN14511 VALUE) TOTAL FREE-COOLING (GROSS V	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW ** ** ** ** ** ** ** ** **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4
Todel Tower supply TERFORMANCE IECHANICAL COOLING (GROSS VALUE) TOOLING capacity TOOLING (GROSS VALUE) TOOLING capacity TER TECHANICAL COOLING (EN14511 VALUE) TOOLING capacity TOTAL FREE-COOLING (GROSS VALUE) TECHNORY TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-CO	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW **KW/kW **LW **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4
Todel Tower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) Tooling capacity Tooling capacity Tooling capacity ER BECHANICAL COOLING (EN14511 VALUE) TOOLING (EN14511 VALUE) TOOLING (EN14511 VALUE) TOOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TOOLING capacity TOOLING CAPACITY TOOLING CAPACITY TOTAL FREE-COOLING (GROSS VALUE) TOTAL	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8)	V/ph/Hz kW kW kW/kW kW/kW ** ** ** ** ** ** ** ** **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4
Andel Power supply PERFORMANCE RECHANICAL COOLING (GROSS VALUE) PROBLEM TO THE TOOLING (GROSS VALUE) PROBLEM TO THE TOOLING (GROSS VALUE) PROBLEM TO THE TOOLING (GROSS VALUE) PROBLEM TOTAL FREE-COOLING (GROSS VALUE) PROBLEM TOTAL FREE-COOLING (GROSS VALUE) PROBLEM TOTAL FREE-COOLING (GROSS VALUE) PROBLEM TO THE TOOLING (GROSS VALUE) PROBLEM T	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (8)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4
Todel Tower supply TERFORMANCE TIECHANICAL COOLING (GROSS VALUE) TOOLING capacity TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COOLIN	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (9)	V/ph/Hz KW KW KW/KW KW/KW **C KW KW/KW **KW/KW KW KW/KW **KW KW KW KW KW KW KW KW KW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727 18,16 38,2 4 2 70,0	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788 20,43 41,2 4 2 79,0	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0	822,6 206,6 3,982 820,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 192,8 3,457 753,0 200,3 3,759 27,09 46,4 6 2 86,0
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (EN14511 VALUE) TECHANICAL COOLING (GROSS VALUE) TECHANICAL COOLING	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (8)	V/ph/Hz kW kW kW/kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) Tooling capacity Tooling capacity TER TECHANICAL COOLING (EN14511 VALUE) TOOLING (EN14511 VALUE) TOOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TOOLING capacity TOOLING (GROSS VALUE) TOOLING CAPACITY TOOLING CAPACI	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (9) (10)(11)	V/ph/Hz kW kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727 18,16 38,2 4 2 70,0 55 88	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7 4 2 77,0 55 88	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788 20,43 41,2 4 2 79,0 56 89	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0 56 89	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 666,7 176,6 3,770 23,80 35,8 6 2 84,0 56 89	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4 6 2 86,0
Andel Power supply PERFORMANCE RECHANICAL COOLING (GROSS VALUE) Cooling capacity Cooling capacity Cooling capacity CER RECHANICAL COOLING (EN14511 VALUE) COOLING capacity CER RECHANICAL COOLING (GROSS VALUE) COOLING capacity COOLING capacity CER RECHANICAL COOLING (GROSS VALUE) COOLING capacity CER RECHANICAL COOLING (GROSS VALUE) COOLING capacity COOLING capac	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW kW/kW kW/kW ** ** ** ** ** ** ** ** **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727 18,16 38,2 4 2 70,0 55 88	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7 4 2 77,0 55 88	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788 20,43 41,2 4 2 79,0 56 89 7430	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0 56 89	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0 56 89	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4 6 2 86,0 56 89
Andel Power supply PERFORMANCE ARECHANICAL COOLING (GROSS VALUE) Dooling capacity Ocoling capacity Ocoling capacity ER ARECHANICAL COOLING (EN14511 VALUE) Dooling capacity ER SEPR OTAL FREE-COOLING (GROSS VALUE) Ocoling capacity ER ARCCHANICAL COOLING (GROSS VALUE) Ocoling capacity Ocoling Capa	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3) (9) (10)(11) (12) (12)	V/ph/Hz kW kW kW/kW kW/kW *C kW kW/kW kW/kW kW/kW kW/kW kW kW	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727 18,16 38,2 4 2 70,0 55 88	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7 4 2 77,0 55 88	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788 20,43 41,2 4 2 79,0 56 89	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0 56 89	0746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0 56 89	822,6 400/3/50 822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4 6 2 86,0 56 89
Todel Tower supply TERFORMANCE TECHANICAL COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TO	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (2)(3)	V/ph/Hz kW kW kW/kW kW/kW ** ** ** ** ** ** ** ** **	0554 400/3/50 551,6 139,9 3,943 550,4 3,900 6,76 9,4 551,6 78,80 443,8 129,9 3,416 504,2 135,3 3,727 18,16 38,2 4 2 70,0 55 88	0594 400/3/50 594,3 145,8 4,076 592,8 4,030 6,91 10,0 594,3 70,75 483,1 135,7 3,560 547,2 141,4 3,870 19,57 43,7 4 2 77,0 55 88	0624 400/3/50 620,3 155,5 3,989 618,8 3,940 6,69 10,1 620,3 73,85 504,1 144,6 3,486 570,8 150,7 3,788 20,43 41,2 4 2 79,0 56 89 7430	0685 400/3/50 679,9 166,3 4,088 678,2 4,040 7,14 10,2 679,9 69,38 550,7 155,3 3,546 623,9 161,4 3,866 22,39 44,8 5 2 82,0 56 89	7746 400/3/50 722,9 181,6 3,981 721,4 3,940 7,22 10,0 722,9 73,77 587,3 170,2 3,451 665,7 176,6 3,770 23,80 35,8 6 2 84,0 56 89	822,6 206,6 3,982 820,6 3,930 7,11 10,1 822,6 73,45 666,5 192,8 3,457 753,0 200,3 3,759 27,09 46,4 6 2 86,0 56 89

- 3 ▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- 4 > Seasonal energy efficiency ratio

- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%.
- 1 > Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 2 > Values in compliance with EN14511

 8 > Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 9 > 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.

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

 - 11 Sound power level in cooling, outdoors.
 - 12 Unit in standard configuration/execution, without optional accessories.
 - The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

FURTHER OPTIONS

A SELECTION OF CLIMAVENETA INSTALLATIONS

4-20 mA: Enables remote set-point adjustments (analog input).

Night mode: Limits the unit sound level reducing the speed of compressor and fans. Sound power reduction (with factory settings): -3 dB(A).

Connectivity

Electrical

Auxiliary input

Serial card interface module to allow integration with BMS protocols:

Modbus / LonWorks / BACnet MS/TP / BACnet over IP / Konnex / Modbus TCP/IP/ SNM

Energy Meter

Energy meter for BMS: Acquires electrical data and the power absorbed by the unit and sends them the BMS for energy metering (Modbus RS485).

Energy meter for W3000: The electrical data acquired is available directely on the unit's control

Refrigerant circuit

Dual pressure relief valves with switch: One valve is isolated from the refrigerant circuit while the other is in service.

The user can work on the isolated valve for periodic maintenance or replacement, without removing the refrigerant from the circuit.

Refrigerant leak detector

Leak detector + compressor off: Factory installed device. In case of a gas leak detection it raises an alarm and stops the units.

Coils and Coatings

E-coated condensing coils: Highly resistant protection for microchannel coils

Free-cooling coils with pre-pianted fins: First grade of protection for traditional Cu/Al coils.

Free-cooling coils with Fing Guard Silver SB: Cu/Al coils fully covered with a highly resistant polyurethane coating.

Free-cooling coils Cu/Cu: Finned coils with copper tubes and copper fins

Hydraulic

Water flow switch: Designed to protect the unit when the water flow across the evaporator is not sufficient and falls outside of

FC modulating valve: Ensure the control of the leaving water temperature when the outdoor temperature is very low.

Flanged hydraulic connections: Grooved coupling with flanged counter-pipe

Structure

Anti-intrusion grilles: Perimeter metal grilles to protect against the intrusion of solid bodies into the unit structure. Spring type anti-vibration mountings: Reduce vibrations, keeping noise transmission to a minimum

Packing

Nylon packing: NX-FC-Z is covered with a protective nylon layer and provided with the lifting eye-plates, to load the unit into a truck. **Container packing:** NX-FC-Z is covered with a protective nylon layer, provided with structural reinforcing bars and equipped with both lifting eye-plates and handling devices to load it on a container (metal slides, front handling bar).

TELECOM DATA CENTER TIER IV

2016 ROME - ITALY

Application: **Data Center**

Plant type: **Hydronic System** Cooling capacity: 7804 kW

Installed machines:

3x high efficiency chillers with oil-free centrifugal compressors, 5x high efficiency chillers with screw compressors



PROJECT

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

CHALLENGE

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

SOLUTION

Specifically, the M&E designers have selected 3 chillers with oil-free compressors and 5 chillers with fixed speed and variable speed screw compressors, getting a total cooling capacity of 7,800 kW.

The large experience in air conditioning and the reliability of its solutions make Mitsubishi Electric Hydronics and IT Cooling Systems the ideal partner for cooling TIER IV data centers, like the newly certified Telecom IT structure in Acilia.



MORE THAN 1000 PROJECTS ALL OVER THE WORLD

Climaveneta's chiller units, with their unbeatable advantages in terms of efficiency, quality, and highly reliable standards are already the preferred choice of the major brands in the most prestigious projects all over the world.













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 Sarson 57/c - 36061 Bassano del Grappa (VI) - Italy Tel (+39) 0424 509 500 - Fax (+39) 0424 509 509 www.climaveneta.com www.melcohit.com