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

NR-FC-Z is the ultimate RC 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), NR-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 NR-FC-Z to other chillers and enhance the system's efficiency and stability.

FULL CONFIGURABILITY FOR EVERY INSTALLATION OPPORTUNITY

IT COOLING APPLICATIONS



AVERAGE VALUES

EER: 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.

TFC: Total free-cooling temperature. Water (in/out) 28/20°C, Et. glycol 30%.

ACOUSTIC VERSIONS

FREE-COOLING CONFIGURATIONS

Standard Unit with standard soundproofing equipment. Baseline **Base** Standard free-cooling unit. Unit with acoustical compressor -2 dB(A) enclosure (Opt. 2312). Super low Special acoustic insulation of the No Glycol -9 dB(A) Free-cooling is possible without the use compressor enclosure and the pumps of glycol on the plant side. noise (if present), devoted fan speed reduction

No compromises on efficiency!

and increased heat exchange surface.

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

SMART LAN LOGICS



MASSIVE FREE-COOLING



EMBEDDED FUNCTIONS FOR MULTI-UNIT SYSTEMS

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

Dynamic master

Group controls

- Stand-by unit management
- Load sharing or sequencing
- ▶ Resource priority management
- ▶ Group fast restart
- ▶ Centralized pump control

TOTAL FREE-COOLING FROM 11°C

Thanks to large free-cooling coils, NR-FC-Z uses the outdoor air as main source to produce cooling.

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

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



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).

NR-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.

11°C 10 15 20 25 30

T water OUT [°C]

Admitted water temperature

UNYIELDING IN EXTREME CONDITIONS



PACKAGED SOLUTION



READY FOR MISSION CRITICAL APPLICATIONS



NR-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.

NR-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 commissioning.

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



FREE-COOLING TECHNOLOGY

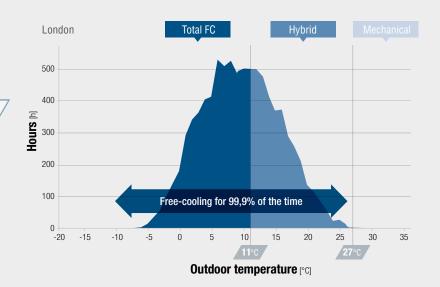
The ultimate solution to harness the full potential of outdoor air.

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.

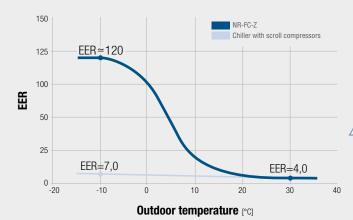
The higher the water operating temperature, the greater the annual free-cooling potential.

In a data center located in London, with operating water temperature 28/20°C, NR-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 NR-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 NR-FC-Z and a traditional scroll compressor chiller, the enormous efficiency gap in the free-cooling 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, NR-FC-Z makes the most of free-cooling, always granting a secure and efficient cooling capacity back-up with highly performing compressors.

How RC masters free-cooling

RC'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.
- $\blacktriangleright \mbox{ Compressors are partialized}.$

OPTIMISED RESOURCE MANAGEMENT

Mechanical cooling

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

CONVENTIONAL CHILLER OPERATION

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

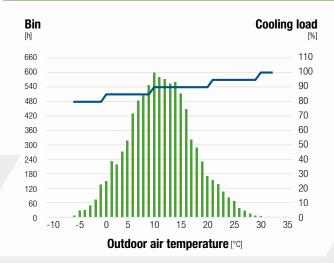
Fluid temperature: 26/18°C

Fluid type: Water + et. glycol 30% Electricity cost: 0,12 €/kWh

Inflation rate: 3%

Interest rate: 6%

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

5,91

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

SEPR HT:

Chillers with full inverter screw compressors

CC: (26/18°C) 673 kW EER: (26/18°C) 3,81

SEPR HT: 6,16

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, NR-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 NR-FC-Z reflects the higher free-cooling potential of the new unit compared to regular free-cooling units.

AT A GLANCE

SEPR HT:

Power input savings

për year

840 tons, equivalent to CO₂ missions produced by a petrol car driving 5.000.000 km

CO_a saved

Payback period

Annual energy savings

4 months

-53 %



TECHNOLOGICAL CHOICES

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

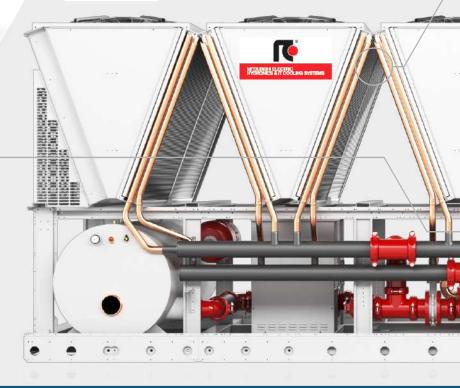
➤ -30% refrigerant charge reduction Vs. traditional solutions.



Cu/Al coils for the free-cooling heat exchanger

▶ Ideally designed to optimize airflow and heat transfer.

Protective coatings available (Opt.)



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

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

PUMPS + BUFFER TANK

- ▶ 1000 litre buffer tank
- ▶ 20 mm insulation lining
- Including: expansion vessel, safety valve, manometer.

ONLY TERMINALS

- Control 1 or 2 external pumps
- On/off or modulating signal

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

EC axial fans

SEASONAL EFFICIENCY: up to +5%



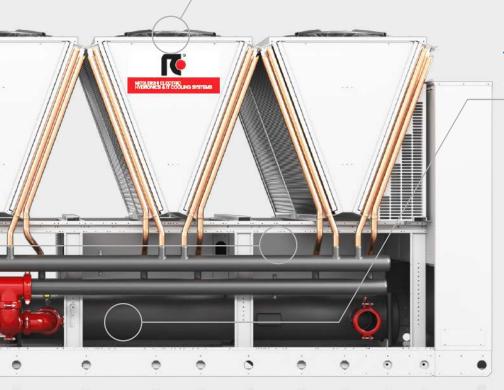
New generation axial fans, for precise airflow management and reduced power consumption.

NR-FC-Z / A versions

High performing EC fans for the highest efficiency

NR-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

The NR-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, NR-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.



SMART LAN FUNCTIONS

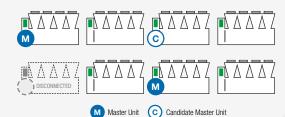
The control of NR-FC-Z features embedded functions that leverages the LAN connection between the chillers and the indoor units, in order to enhance the system's efficiency and dependability.

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.

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.



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.



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.

FURTHER FUNCTIONS

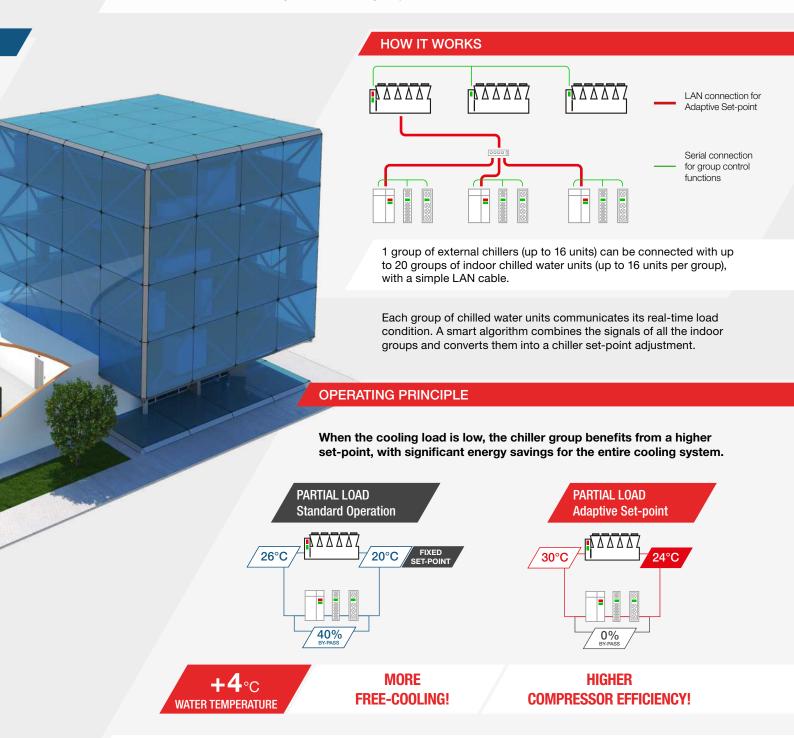
- Pump controls are available both for individual and centralized pump group configurations (on/off, VPF, 2PS, etc.)
- Auxiliary inputs are applied at a group level (set-point adjustment, demand limit, etc.)

FAST RESTART

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



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.



CORE FEATURES FOR ALL YOUR EQUIPMENT NEEDS

W3000+ control and KIPlink innovative interface



The logic behind NR-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 NR-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, NR-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, NR-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.

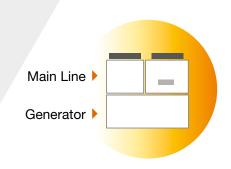
Fast restart - UPS excluded (Opt.4501)

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. NR-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 NR-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.





O384 - 0926
Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)



NR-FC-Z/K

			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
ER	(1)	kW/kW	3,730	3,628	3,701	3,655	3,753	3,651	3,626
MECHANICAL COOLING (EN14511 VALU									
Cooling capacity	(2)(3)	kW	366,5	386,8	417,7	441,9	474,2	498,5	533,7
ER	(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
OTAL FREE-COOLING (GROSS VALUE)									
otal free-cooling temperature	(6)	°C	9,6	8,9	9,8	9,2	9,9	9,3	8,3
Cooling capacity	(6)	kW	367,4	387,8	418,9	443,0	475,5	499,5	534,9
ER	(6)	kW/kW	32,23	34,02	31,50	33,31	31,28	32,86	35,19
MECHANICAL COOLING (GROSS VALUE)				. ,.	. ,			. ,	
6°C/10°C									
ooling capacity	(7)	kW	295,5	312,4	336,4	359,3	384,6	404,7	431,4
otal power input	(7)	kW	93,06	100,4	106,2	113,6	118,9	127,8	137,0
ER	(7)	kW/kW	3,174	3,112	3,168	3,163	3,235	3,167	3,149
	(1)	KVV/KVV	3,174	3,112	3,100	3,103	3,233	3,107	3,149
3°C/15°C	(0)								
ooling capacity	(8)	kW	335,8	354,7	382,5	407,2	436,5	458,5	489,5
otal 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
XCHANGERS									
EAT EXCHANGER USER SIDE IN REFRI	IGERATION								
later flow	(3)	l/s	12,10	12,77	13,80	14,59	15,66	16,45	17,62
ressure drop	(2)(3)	kPa	35,7	40,3	46,7	42,0	46,9	34,6	36,4
EFRIGERANT CIRCUIT	1111			.,,-	-,-	,-	.,-	1=	
ompressors nr.		N°	4	4	4	4	4	4	4
o. Circuits		N°	2	2	2	2	2	2	2
			40,0	45,0	52,0	52,0	56,0	58,0	64,0
efrigerant charge		kg	40,0	40,0	J2,U	JZ,U	50,0	J0,U	04,0
OISE LEVEL	(0)	-ID(A)	20	60	00	00	00	00	
ound Pressure	(9)	dB(A)	62	62	62	62	62	62	62
ound power level in cooling	(10)(11)	dB(A)	94	94	94	95	95	95	95
IZE AND WEIGHT									
	(12)	mm	3905	3905	5080	5080	5080	5080	5080
			2260	2260	2260	2260	2260	2260	2260
	(12)	mm	2200	2200	2200				
							2450	2450	2450
l	(12)	mm	2450	2450	2450 4110	2450	2450 4610	2450 5180	2450 4720
l					2450			2450 5180	2450 4720
l Operating weight	(12)	mm	2450 3580	2450 3610	2450 4110	2450 4420	4610	5180	4720
l Operating weight Model	(12)	mm kg	2450 3580 0594	2450 3610 0624	2450 4110 0685	2450 4420 0746	4610 0836	5180 0866	4720 0926
l Operating weight Aodel Power supply	(12)	mm	2450 3580	2450 3610	2450 4110	2450 4420	4610	5180	4720
3 H Operating weight Model Power supply PERFORMANCE	(12) (12)	mm kg	2450 3580 0594	2450 3610 0624	2450 4110 0685	2450 4420 0746	4610 0836	5180 0866	4720 0926
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iperating weight Iodel Tower supply TERFORMANCE MECHANICAL COOLING (GROSS VALUE) Cooling capacity	(12) (12) (12)	mm kg V/ph/Hz kW	2450 3580 0594 400/3/50	2450 3610 0624 400/3/50 603,6	2450 4110 0685 400/3/50	2450 4420 0746 400/3/50 713,6	4610 0836 400/3/50 796,4	5180 0866 400/3/50 837,8	4720 0926 400/3/50 895,9
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input	(12) (12) (12)	mm kg V/ph/Hz kW kW	2450 3580 0594 400/3/50 567,5 155,5	2450 3610 0624 400/3/50 603,6 163,2	2450 4110 0685 400/3/50 649.7 179,2	2450 4420 0746 400/3/50 713,6 190,1	4610 0836 400/3/50 796,4 220,7	5180 0866 400/3/50 837,8 226,3	4720 0926 400/3/50 895,9 247,1
perating weight fodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) tooling capacity total power input ER	(12) (12) (12)	mm kg V/ph/Hz kW	2450 3580 0594 400/3/50	2450 3610 0624 400/3/50 603,6	2450 4110 0685 400/3/50	2450 4420 0746 400/3/50 713,6	4610 0836 400/3/50 796,4	5180 0866 400/3/50 837,8	4720 0926 400/3/50 895,9
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE)	(12) (12)) (1) (1) (1) (1) UE)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650	2450 3610 0624 400/3/50 603,6 163,2 3,699	2450 4110 0685 400/3/50 649,7 179,2 3,626	2450 4420 0746 400/3/50 713,6 190,1 3,754	4610 0836 400/3/50 796,4 220,7 3,609	5180 0866 400/3/50 837,8 226,3 3,702	4720 0926 400/3/50 895,9 247,1 3,626
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity	(12) (12) (12)) (1) (1) (1) (1) (1) (2)(3)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2	2450 4420 0746 400/3/50 713,6 190,1 3,754 712,2	4610 0836 400/3/50 796,4 220,7 3,609 794,5	5180 0866 400/3/50 837,8 226,3 3,702 835,7	895,9 247,1 3,626
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity stal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER	(12) (12)) (1) (1) (1) (1) UE)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650	2450 3610 0624 400/3/50 603,6 163,2 3,699	2450 4110 0685 400/3/50 649,7 179,2 3,626	2450 4420 0746 400/3/50 713,6 190,1 3,754	4610 0836 400/3/50 796,4 220,7 3,609	5180 0866 400/3/50 837,8 226,3 3,702	4720 0926 400/3/50 895,9 247,1 3,626
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU coling capacity ER EFR EFR EFR	(12) (12) (12)) (1) (1) (1) (1) (1) (2)(3)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2	2450 4420 0746 400/3/50 713,6 190,1 3,754 712,2	4610 0836 400/3/50 796,4 220,7 3,609 794,5	5180 0866 400/3/50 837,8 226,3 3,702 835,7	895,9 247,1 3,626
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER	(12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590	2450 4420 0746 400/3/50 713.6 190,1 3,754 712.2 3,720	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE)	(12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590	2450 4420 0746 400/3/50 713.6 190,1 3,754 712.2 3,720	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660	926 400/3/50 895,9 247,1 3,626 893,4 3,580
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature	(12) (12) (12)) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5)	mm kg V/ph/Hz kW kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	2450 4420 0746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity	(12) (12) (12) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	2450 4420 0746 400/3/50 713.6 190,1 3,754 712,2 3,720 6,28 9,9 713,6	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8.8 796,4	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9
perating weight Iodel ower supply ERFORMANCE ERECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER BECHANICAL COOLING (EN14511 VALU ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER	(12) (12) (12) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	2450 4420 0746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER ER IECHANICAL COOLING (GROSS VALUE)	(12) (12) (12) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88	2450 4420 0746 400/3/50 713.6 190,1 3,754 712,2 3,720 6,28 9,9 713,6	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8.8 796,4	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9
perating weight lode! ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity EE ECHANICAL COOLING (GROSS VALUE) ital free-cooling temperature ooling capacity EE ECHANICAL COOLING (GROSS VALUE) 6°C/10°C	(12) (12) (12) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	2450 4420 0746 400/3/50 713.6 190,1 3,754 712,2 3,720 6,28 9,9 713.6 31,30	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93	5180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity EPR OTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) OFFICE OFF	(12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	2450 4420 0746 400/3/50 713,6 190,1 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	\$180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
perating weight lodel ower supply ERFORMANCE IEECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) SER IECHANICAL COOLING (GROSS VALUE) COOLING CAROSS VALUE) COOLING CAROSS VALUE) COOLING COOLING (GROSS VALUE) COOLING CAROSS VALUE)	(12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	2450 4420 0746 400/3/50 713,6 190,1 3,754 712,2 3,720 6,28 9,9 713,6 31,30	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 649,3 205,7	5180 0866 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	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
perating weight lode! ower supply ERFORMANCE IEICHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IEICHANICAL COOLING (EN14511 VALU ooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity EE IEICHANICAL COOLING (GROSS VALUE) ooling capacity EE IEICHANICAL COOLING (GROSS VALUE) oo'C/10°C ooling capacity ooling capacity ooling capacity apacity apacity ooling capacity ooling capacity ooling capacity ooling capacity ooling capacity ooling capacity	(12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	mm kg V/ph/Hz kW kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	2450 3610 0624 400/3/50 603,6 163,2 3,699 602,2 3,660 5,79 9,7 603,6 31,77	2450 4110 0685 400/3/50 649,7 179,2 3,626 648,2 3,590 5,88 9,0 649,7 34,19	2450 4420 0746 400/3/50 713,6 190,1 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	\$180 0866 400/3/50 837,8 226,3 3,702 835,7 3,660 5,96 9,8 837,8 31,50	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 33,68
perating weight lodel ower supply BERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tala power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity EBPR DTAL FREE-COOLING (GROSS VALUE) cooling capacity EBR EBCHANICAL COOLING (GROSS VALUE) cooling capacity ER COOLING (GROSS VALUE) cooling capacity ER COOLING (GROSS VALUE) COOLING (GROSS VALUE) COOLING capacity tala power input ER 3°C/15°C	(12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6) (7) (7)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	2450 3580 0594 400/3/50 567,5 155,5 3,650 566,2 3,610 5,83 9,2 567,5 33,19	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 649,3 205,7 3,157	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tala power input ER IECHANICAL COOLING (EN14511 VALU coling capacity ER ECHANICAL COOLING (GROSS VALUE) tala free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) coling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 33°C/15°C cooling capacity	(12) (12) (12) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6) (7) (7) (7)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tala power input ER IECHANICAL COOLING (EN14511 VALU coling capacity ER ECHANICAL COOLING (GROSS VALUE) tala free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) coling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 33°C/15°C cooling capacity	(12) (12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7)	mm kg V/ph/Hz kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ERFORMANCE IECHANICAL COOLING (EN14511 VALU cooling capacity ERF ECHANICAL COOLING (GROSS VALUE) cotal free-cooling temperature cooling capacity ERF ERF IECHANICAL COOLING (GROSS VALUE) cooling capacity ERF ERCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 3°C/15°C cooling capacity tal power input tal power input	(12) (12) (12) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6) (7) (7) (7)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7	5180 0866 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	4720 0926 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
perating weight lode! wer supply BERFORMANCE IECHANICAL COOLING (GROSS VALUE) boling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU boling capacity EPPR DTAL FREE-COOLING (GROSS VALUE) boling capacity ER ECHANICAL COOLING (GROSS VALUE) boling capacity ER 6°C/10°C boling capacity tal power input ER 3°C/15°C boling capacity boling capacity tal power input ER 3°C/15°C boling capacity bolin	(12) (12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7)	mm kg V/ph/Hz kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE ECCHANICAL COOLING (GROSS VALUE) boling capacity tatal power input ER ECHANICAL COOLING (EN14511 VALU ooling capacity EPR DTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature ooling capacity ER ECHANICAL COOLING (GROSS VALUE) ooling capacity ECHANICAL COOLING (GROSS VALUE) ooling capacity tatal power input ER BR CO-10°C ooling capacity tatal power input ER BR CHANGERS CHANGERS	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW kW/kW **C kW kW/kW kW/kW kW/kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE EECHANICAL COOLING (GROSS VALUE) booling capacity tal power input ER ECHANICAL COOLING (EN14511 VALU booling capacity ER ECHANICAL COOLING (GROSS VALUE) booling capacity ER ECHANICAL COOLING (GROSS VALUE) bal free-cooling temperature booling capacity ER ECHANICAL COOLING (GROSS VALUE) booling capacity ER BOOLING (GROSS VALUE) CECHANICAL COOLING (G	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE EECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER ECHANICAL COOLING (EN14511 VALU cooling capacity ER ECHANICAL COOLING (GROSS VALUE) cooling capacity cap	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW **KW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 649,3 205,7 3,157 732,7 214,0 3,424	5180 0866 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	4720 0926 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
perating weight Odel Ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boling capacity tall power input ER ECHANICAL COOLING (EN14511 VALU boling capacity EPPR OTAL FREE-COOLING (GROSS VALUE) tall free-cooling temperature boling capacity ER ECHANICAL COOLING (GROSS VALUE) TO boling capacity tall power input ER ECHANICAL COOLING (GROSS VALUE) To boling capacity tall power input ER ECHANICAL COOLING (GROSS VALUE) ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (G	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER DITAL FREE-COOLING (GROSS VALUE) talal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 33°C/15°C cooling capacity tal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRI tater flow ressure drop EFRIGERANT CIRCUIT	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 3,609 794,5 3,570 6,19 8,8 796,4 34,93 205,7 3,157 732,7 214,0 3,424	5180 0866 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	4720 0926 400/3/50 895,9 247,1 3,626 893,4 3,580 6,06 9,0 895,9 229,8 3,172 824,4 239,5 3,442 29,50 55,0
perating weight lodel ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ERFORMANCE IECCHANICAL COOLING (EN14511 VALU cooling capacity ERF ECHANICAL COOLING (GROSS VALUE) cotal free-cooling temperature cooling capacity ERF IECCHANICAL COOLING (GROSS VALUE) cooling capacity ERF IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ERF 3°C/15°C cooling capacity tal power input ERF XCHANGERS EAT EXCHANGER USER SIDE IN REFRII fater flow ressure drop EFRIGERANT CIRCUIT compressors nr.	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW kW/kW **C KW kW/kW **W/kW **W **KW **KW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tala power input ER IECHANICAL COOLING (EN14511 VALU coling capacity EB EPR OTAL FREE-COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) cooling capacity ER STOCISC Cooling capacity tala power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRII fater flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. Circuits	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tatal power input ER IECHANICAL COOLING (EN14511 VALU coling capacity ER OTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) coling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tatal power input ER 3°C/15°C cooling capacity tatal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRI fater flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. Circuits efrigerant charge	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8)	mm kg V/ph/Hz kW kW kW/kW kW kW/kW **C KW kW/kW **W/kW **W **KW **KW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity cap	(12) (12) (12) (12) (12) (13) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EPPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ELECHANICAL COOLING (GROSS VALUE) ooling capacity ER ER 3°C/10°C ooling capacity talal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRII atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits effigerant charge OISE LEVEL ound Pressure	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (6) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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 63	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity tala power input ER IECHANICAL COOLING (EN14511 VALU coling capacity EB EPR OTAL FREE-COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) cooling capacity ER STOCISC Cooling capacity tala power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRII fater flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. Circuits	(12) (12) (12) (12) (12) (13) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EPPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ELECHANICAL COOLING (GROSS VALUE) ooling capacity ER ER 3°C/10°C ooling capacity talal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRII atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits effigerant charge OISE LEVEL ound Pressure	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (6) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW kW/kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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 63	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER DITAL FREE-COOLING (GROSS VALUE) talal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) talal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 33°C/15°C cooling capacity tal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRI tater flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. circuits efrigerant charge OISE LEVEL ound pressure ound power level in cooling IZE AND WEIGHT	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (10)(11)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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 63 96	5180 0866 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	4720 0926 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 6 2 82,0 64 97
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ELECHANICAL COOLING (GROSS VALUE) ooling capacity ER ECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input ER 3°C/10°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRII ater flow ressure drop EFRIGERANT CIRCUIT ompressors r. o. Circuits efrigerant charge OISE LEVEL ound Pressure ound power level in cooling IZE AND WEIGHT	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (6) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9) (10)(11) (12)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW/kW kW kW kW/kW kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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 63 96	5180 0866 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	4720 0926 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
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) coling capacity talal power input ER IECHANICAL COOLING (EN14511 VALU cooling capacity ER DITAL FREE-COOLING (GROSS VALUE) talal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) talal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 33°C/15°C cooling capacity tal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRI tater flow ressure drop EFRIGERANT CIRCUIT compressors nr. o. circuits efrigerant charge OISE LEVEL ound pressure ound power level in cooling IZE AND WEIGHT	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (10)(11)	mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW	2450 3580 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	2450 3610 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	2450 4110 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	2450 4420 0746 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	4610 0836 400/3/50 796,4 220,7 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 63 96	5180 0866 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	4720 0926 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 6 2 82,0 64 97

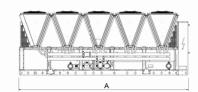
- ► Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 ► Values in compliance with EN14511

- values in compliance with ENT4511
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 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%.
- 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.
- Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.







NR-FC-Z/SL-K

			2224	0444	0404	0404	0404	0504	0554
Model Power supply		V/ph/Hz	0384 400/3/50	0414 400/3/50	0434 400/3/50	0464 400/3/50	0494 400/3/50	0524 400/3/50	0554 400/3/50
PERFORMANCE		v/pii/i1Z	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	364,5	385,9	417,0	439,4	466,5	503,5	534,1
Total power input	(1)	kW	97,59	105,7	111,3	120,1	128,7	133,6	144,1
ER Mechanical Cooling (en14511 value	(1)	kW/kW	3,735	3,651	3,747	3,659	3,625	3,769	3,706
Cooling capacity	(2)(3)	kW	363,6	384,9	415,8	438,3	465,2	502,4	532,9
ER	(2)(3)	kW/kW	3,690	3,610	3,700	3,620	3,580	3,730	3,670
SEPR	(4)(5)		6,13	6,01	6,21	6,01	6,08	5,99	6,03
OTAL FREE-COOLING (GROSS VALUE)									
otal free-cooling temperature	(6)	°C	9,3	8,6	9,3	8,7	8,1	9,7	9,0
Cooling capacity ER	(6)	kW kW/kW	364,5 44,51	385,9 47,12	417,0 44,55	439,4 46,94	466,5 49,84	503,5 43,03	534,1 45,65
MECHANICAL COOLING (GROSS VALUE)	(0)	KVV/KVV	44,31	47,12	44,00	40,94	49,04	43,03	40,00
6°C/10°C									
Cooling capacity	(7)	kW	293,6	311,1	335,3	357,1	379,4	407,6	430,3
otal power input	(7)	kW	91,99	98,99	104,3	112,2	119,7	124,8	133,8
ER	(7)	kW/kW	3,191	3,142	3,215	3,183	3,170	3,266	3,216
3°C/15°C	(0)	LAM	333,4	353,0	381,0	404,3	429,3	401.0	400.0
ooling capacity otal power input	(8)	kW kW	95,09	102,7	108,1	116,6	124,6	461,9 129,6	488,6 139,5
ER	(8)	kW/kW	3,506	3,437	3,525	3,467	3,445	3,564	3,503
XCHANGERS	1=7		2,000	2,101	-,-20	2, .0.	2,	-,501	0,000
EAT EXCHANGER USER SIDE IN REFRIG	GERATION								
Vater flow	(3)	l/s	12,00	12,71	13,73	14,47	15,36	16,58	17,59
ressure drop	(2)(3)	kPa	35,1	40,1	46,5	41,3	45,9	35,2	36,3
EFRIGERANT CIRCUIT		No	4	Λ	1	1	1	4	4
ompressors nr. o. Circuits		N° 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		9	12,0	.,,0	00,0	02,0	02,0	01,0	00,0
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	(1.0)								
	(12)	mm	5080	5080	5080	5080	5080	6255	6255
						0000	0000		
	(12)	mm	2260	2260	2260	2260	2260	2260	2260
1	(12) (12)	mm mm	2260 2450	2260 2450	2260 2450	2450	2450	2450	2450
3 1 Operating weight	(12)	mm	2260	2260	2260				
i Operating weight Model	(12) (12)	mm mm kg	2260 2450 3960 0594	2260 2450 4080 0624	2260 2450 4600	2450 4580 0746	2450 4610 0836	2450 5850 0866	2450 5360 0926
i Operating weight Model Power supply	(12) (12)	mm mm	2260 2450 3960	2260 2450 4080	2260 2450 4600	2450 4580	2450 4610	2450 5850	2450 5360
I Jodel Ower supply PERFORMANCE	(12) (12)	mm mm kg	2260 2450 3960 0594	2260 2450 4080 0624	2260 2450 4600	2450 4580 0746	2450 4610 0836	2450 5850 0866	2450 5360 0926
I Ipperating weight Aodel Power supply FERFORMANCE AECHANICAL COOLING (GROSS VALUE)	(12) (12) (12)	mm mm kg V/ph/Hz	2260 2450 3960 0594 400/3/50	2260 2450 4080 0624 400/3/50	2260 2450 4600 0685 400/3/50	2450 4580 0746 400/3/50	2450 4610 0836 400/3/50	2450 5850 0866 400/3/50	2450 5360 0926 400/3/50
iperating weight Iodel ower supply ERFORMANCE MECHANICAL COOLING (GROSS VALUE) ooling capacity	(12) (12) (12) (12)	mm mm kg	2260 2450 3960 0594	2260 2450 4080 0624 400/3/50	2260 2450 4600	2450 4580 0746 400/3/50	2450 4610 0836 400/3/50	2450 5850 0866	2450 5360 0926
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input	(12) (12) (12)	mm mm kg V/ph/Hz	2260 2450 3960 0594 400/3/50	2260 2450 4080 0624 400/3/50	2260 2450 4600 0685 400/3/50	2450 4580 0746 400/3/50	2450 4610 0836 400/3/50	2450 5850 0866 400/3/50	2450 5360 0926 400/3/50 888,2
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER	(12) (12) (12) (12) (1) (1) (1)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770	2260 2450 4600 0685 400/3/50 643.7 176.2 3,653	2450 4580 0746 400/3/50 710,6 187,4 3,792	2450 4610 0836 400/3/50 801,0 213,1 3,759	2450 5850 0866 400/3/50 826,3 223,3 3,700	2450 5360 0926 400/3/50 888,2 244,8 3,628
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity	(12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER ER IECHANICAL COOLING (EN14511 VALUE ooling capacity ER	(12) (12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity stal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ER	(12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE)	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33
Iperating weight Iodel Ower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) Cooling capacity otal power input ER IRECHANICAL COOLING (EN14511 VALUE) Cooling capacity ER EPP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature	(12) (12) (12) (12) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6)	mm mm kg V/ph/Hz kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33
perating weight Iodel ower supply ERFORMANCE ERCHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER BECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5)	mm mm kg V/ph/Hz kW kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER ECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER ER	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (2)(3) (4)(5)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR DTAL FREE-COOLING (GROSS VALUE) total free-cooling temperature cooling capacity ER ER ECHANICAL COOLING (GROSS VALUE) cooling capacity ER ECHANICAL COOLING (GROSS VALUE) 6°C/10°C	(12) (12) (12) (12) (13) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	2450 4580 0746 400/3/50 710.6 187,4 3,792 709,2 3,760 6,62 9,6 710.6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
perating weight lodel wwer supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) poling capacity tall power input ER IECHANICAL COOLING (EN14511 VALUE) poling capacity EPP DTAL FREE-COOLING (GROSS VALUE) tald free-cooling temperature poling capacity ER ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) FOC/10°C Dolling capacity	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
perating weight lodel ower supply ERFORMANCE ECCHANICAL COOLING (GROSS VALUE) booling capacity stal power input ER ECCHANICAL COOLING (EN14511 VALUE) coling capacity EPR DTAL FREE-COOLING (GROSS VALUE) stal free-cooling temperature ooling capacity ER ECCHANICAL COOLING (GROSS VALUE) secondary ECCHANICAL COOLING (GROSS VALUE) cooling capacity stal power input	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW cC kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643.7 176.2 3.653 642.2 3.610 6.11 9,0 643.7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
perating weight lodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity btal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPP DTAL FREE-COOLING (GROSS VALUE) btal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity btal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity btal power input	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
perating weight lode! wer supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tatal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity EPP OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ER 6°C/10°C ooling capacity tatal power input ER 3°C/15°C	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643.7 176.2 3.653 642.2 3.610 6,11 9,0 643.7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189
perating weight odel ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) boling capacity ER DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature boling capacity ER ECHANICAL COOLING (GROSS VALUE) 3°C/10°C boling capacity tal power input ER 3°C/15°C boling capacity tal power input ER 3°C/15°C boling capacity	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW kW/kW cC kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 400/3/50 604,0 160,2 3,770 602,6 3,730 6,07 9,7 604,0 43,14	2260 2450 4600 0685 400/3/50 643.7 176.2 3.653 642.2 3.610 6.11 9,0 643.7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 400/3/50 801,0 213,1 3,759 799,1 3,720 6,48 9,7 801,0 42,83	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50
perating weight lodel wer supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) pooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) poling capacity ER EPPR DTAL FREE-COOLING (GROSS VALUE) potal free-cooling temperature pooling capacity ER ECHANICAL COOLING (GROSS VALUE) pooling capacity ER 3°C/10°C pooling capacity tal power input ER 3°C/15°C pooling capacity stal power input ER STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL STAL S	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (6) (7) (7) (7) (7)	mm mm kg 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	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 400/3/50 643,7 176,2 3,653 642,2 3,610 6,11 9,0 643,7 45,98	2450 4580 0746 400/3/50 710,6 187,4 3,792 709,2 3,760 6,62 9,6 710,6 43,33	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0
perating weight Odel Ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) Doling capacity Ital power input ER ECHANICAL COOLING (EN14511 VALUE) Doling capacity EPP DTAL FREE-COOLING (GROSS VALUE) DIG pacity ER ECHANICAL COOLING (GROSS VALUE) Sec'10°C Doling capacity Ital power input ER BY C715°C Doling capacity Ital power input ER CHANGERS CCHANGERS	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8)	mm mm kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 400/3/50 568,2 154,7 3,673 566,9 3,630 6,04 8,4 568,2 48,56	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 3,792 709.2 3,760 6,62 9,6 710.6 43,33 578,1 175,6 3,292 654,8 182,2	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 3,700 824,2 3,660 6,25 9,0 826,3 44,19 669,6 207,5 3,227	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 818,0 237,0
perating weight lodel Dwer supply ERFORMANCE EECHANICAL COOLING (GROSS VALUE) Dooling capacity Dooling capacity EECHANICAL COOLING (EN14511 VALUE) Dooling capacity ER ECHANICAL COOLING (GROSS VALUE) DOTAL FREE-COOLING (GROSS VALUE) DOTAL FREE-COOLING (GROSS VALUE) ER ECHANICAL COOLING (GROSS VALUE) DOTAL FREE-COOLING (GROSS VA	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) GERATION	mm mm kg V/ph/Hz kW kW/kW kW/kW cC kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight odel wer supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) boling capacity ER ECHANICAL COOLING (GROSS VALUE) boling capacity EPR DTAL FREE-COOLING (GROSS VALUE) boling capacity ER ECHANICAL COOLING (GROSS VALUE) boling capacity ER BOOLING (GROSS VALUE) BOOLING	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (SERATION (3)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187,4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight odel ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boling capacity tial power input ER ECHANICAL COOLING (EN14511 VALUE) boling capacity EPPR DTAL FREE-COOLING (GROSS VALUE) tial free-cooling temperature boling capacity ER ECHANICAL COOLING (GROSS VALUE) TOTAL FREE-COOLING (GROSS VALUE) TOTAL FREE-COOLI	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) GERATION	mm mm kg V/ph/Hz kW kW/kW kW/kW cC kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight odel ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) boling capacity tal power input ER ECHANICAL COOLING (EN14511 VALUE) boling capacity ER DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature boling capacity ER ECHANICAL COOLING (GROSS VALUE) so'C/10°C boling capacity tal power input ER 3°C/15°C boling capacity tal power input ER CCHANGERS EAT EXCHANGER USER SIDE IN REFRIG ater flow essure drop EFRIGERANT CIRCUIT	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (SERATION (3)	mm mm kg 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	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710,6 187,4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight lodel ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER 3°C/15°C cooling capacity tal power input ER SYCHANGERS EAT EXCHANGER USER SIDE IN REFRIG fater flow ressure drop EFRIGERANT CIRCUIT compressors in.	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (SERATION (3)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187,4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ECHANICAL COOLING (GROSS VALUE) ooling capacity ER ECHANICAL COOLING (GROSS VALUE) of Cooling capacity otal power input ER 3°C/15°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIG Atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (SERATION (3)	mm mm kg 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	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight lodel ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) coling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER IECHANICAL COOLING (GROSS VALUE) coling capacity ER COOLING (GROSS VALUE) coling capacity tal power input ER COOLING (GROSS VALUE) cooling capacity tal power input ER COCHANGER COOLING (GROSS VALUE) COOLING CAPACITY CA	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	mm mm kg V/ph/Hz kW kW/kW kW/kW kW/kW *C kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight lode! wer supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity stal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPER OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER EPER OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER EPER OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER ER 3°C/10°C ooling capacity stal power input ER ER 3°C/15°C ooling capacity obtal power input ER ER SCHANGERS EAT EXCHANGER USER SIDE IN REFRIG later flow ressure drop EFRIGERANT CIRCUIT ompressors rr. o. Circuits efrigerant charge olise Level ound Pressure	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (8) (9)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW kW/kW **KW/kW **W **KW **KW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710,6 187,4 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 6 2 82,0	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight lodel ower supply EEROMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tatal power input EER IECHANICAL COOLING (EN14511 VALUE ooling capacity EER OTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature ooling capacity EER IECHANICAL COOLING (GROSS VALUE) ooling capacity ooling capacity tatal power input EER 37C/15°C ooling capacity tatal power input EER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIG fater flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL ound Pressure ound pressure ound pressure ound pressure	(12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	mm mm kg V/ph/Hz kW kW/kW kW/kW kW/kW *C kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710.6 187.4 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	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight lodel ower supply ERFORMANCE EIECHANICAL COOLING (GROSS VALUE) ooling capacity stal power input EER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ETER OTAL FREE-COOLING (GROSS VALUE) stal free-cooling temperature ooling capacity ER EIECHANICAL COOLING (GROSS VALUE) office capacity ER EICHANICAL COOLING (GROSS VALUE) office Chooling capacity otal power input ER 37C/15°C ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIG Ater flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL ound Pressure ound power level in cooling IZE AND WEIGHT	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	mm mm kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710,6 187,4 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 55 88	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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 57 90	2450 5360 0926 400/3/50 888,2 244,8 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
perating weight Iodel ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity Ooling capacity otal power input ER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIG Atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OIDSE LEVEL ound Pressure ound power level in cooling IZE AND WEIGHT	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8) (SERATION (3) (2)(3) (9) (10)(11) (12)	mm mm kg V/ph/Hz kW kW kW/kW kW/kW **C kW kW/kW kW/kW kW/kW kW/kW kW kW kW/kW kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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 7430	2450 4580 0746 400/3/50 710,6 187,4 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 55 88	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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 57 90	2450 5360 0926 400/3/50 888,2 244,8 3,628 885,7 3,580 6,33 8,5 888,2 47,50 723,9 227,0 3,189 227,0 3,451 29,25 54,1 6 2 86,0
perating weight Iodel Ower supply ERFORMANCE	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	mm mm kg V/ph/Hz kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW kW/kW	2260 2450 3960 0594 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	2260 2450 4080 0624 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	2260 2450 4600 0685 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	2450 4580 0746 400/3/50 710,6 187,4 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 55 88	2450 4610 0836 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	2450 5850 0866 400/3/50 826,3 223,3 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 57 90	2450 5360 0926 400/3/50 888,2 244,8 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 29,25 54,1 6 2 86,0

▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 ▶ Values in compliance with EN14511

- 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%.
- 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 \rightarrow Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.



O384 - 0926
Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)



NR-FC-Z/A

Model			2224	0444	0404	0404	0.10.1	0504	0554
ower supply		V/ph/Hz	0384 400/3/50	0414 400/3/50	0434 400/3/50	0464 400/3/50	0494 400/3/50	0524 400/3/50	0554 400/3/50
PERFORMANCE		v/pii/riz	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30
MECHANICAL COOLING (GROSS VALUE)									
cooling capacity	(1)	kW	389,4	422,0	454,6	479,6	510,6	542,8	577,2
otal 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)	(0) (0)								
cooling capacity	(2)(3)	kW	388,5	420,8	453,2	478,3	509,1	541,5	575,8
ER EPR	(2)(3)	kW/kW	3,990	4,020	4,070	4,060	4,080 6,33	4,050	4,010
OTAL FREE-COOLING (GROSS VALUE)	(4)(5)		6,39	6,43	6,54	6,40	0,33	6,26	6,41
otal 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
ER	(6)	kW/kW	40,06	37,35	34,97	32,85	31,52	33,51	35,63
MECHANICAL COOLING (GROSS VALUE)	(0)	NW/NW	10,00	07,00	01,07	02,00	01,02	00,01	00,00
6°C/10°C									
Cooling capacity	(7)	kW	312,7	337,9	363,1	386,0	410,1	436,6	462,0
otal power input	(7)	kW	91,42	98,14	104,0	110,6	116,8	125,0	133,4
ER	(7)	kW/kW	3,421	3,444	3,491	3,490	3,511	3,493	3,463
3°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	DATION								
EAT EXCHANGER USER SIDE IN REFRIGER		1/0	10.00	12.00	14.07	15.70	16.00	17.07	10.01
Vater flow	(3)	l/s kPa	12,82 39,3	13,90 46,8	14,97 53,9	15,79 48,1	16,82 53,2	17,87 39,4	19,01 41,2
ressure drop REFRIGERANT CIRCUIT	(2)(3)	кгd	39,3	40,0	53,9	40,1	33,2	39,4	41,2
compressors nr.		N°	4	4	4	4	4	4	4
lo. Circuits		N°	2	2	2	2	2	2	2
efrigerant charge		kg	40,0	45,0	52,0	65,0	67,0	67,0	70,0
IOISE LEVEL		9	.0,0	.5,0	02,0	30,0	0.,0	0.,0	70,0
ound Pressure	(9)	dB(A)	63	63	64	63	64	64	64
ound power level in cooling	(10)(11)	dB(A)	95	95	96	96	97	97	97
IZE AND WEIGHT									
	(12)	mm	3905	5080	5080	6255	6255	6255	6255
	(12)	mm	2260	2260	2260	2260	2260	2260	2260
	(12)	mm	2450	2450	2450	2450	2450	2450	2450
perating weight	(12)	kg	3580	4070	4260	5110	5300	5340	5360
Nodel		Mah III-	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	0926 400/3/50
ower supply ERFORMANCE		V/ph/Hz							
ower supply Erformance Mechanical cooling (Gross Value)	(1)	·	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
ower supply ERFORMANCE 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
ower supply ERFORMANCE IECHANICAL 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	400/3/50 704,5 171,8	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
ower supply ERFORMANCE BECHANICAL COOLING (GROSS VALUE) booling capacity otal power input ER		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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) iooling capacity otal power input ER IECHANICAL 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	759,3 185,5 4,093	854,5 211,8 4,034	895,8 222,0 4,035	952,0 241,2 3,947
ower supply ERFORMANCE BECHANICAL COOLING (GROSS VALUE) booling capacity otal power input ER	(1) (1) (2)(3)	kW kW	400/3/50 612,0 151,0	400/3/50 650,6 159,6	400/3/50 704,5 171,8	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
ower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IRECHANICAL COOLING (EN14511 VALUE) cooling capacity	(1)	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	400/3/50 704,5 171,8 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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER ER ER	(1) (1) (2)(3) (2)(3)	kW kW kW/kW kW/kW	612,0 151,0 4,053 610,4 4,000 6,31	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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature	(1) (1) (2)(3) (2)(3) (4)(5)	kW 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
ower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER RICCHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature 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	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
tower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER INFORMANCE INFO	(1) (1) (2)(3) (2)(3) (4)(5)	kW 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
ower supply ERFORMANCE IRECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER AECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER ER HECHANICAL 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	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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature cooling capacity ER ERCHANICAL 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
ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) cooling capacity tatal power input ECH IECCHANICAL COOLING (EN14511 VALUE) cooling capacity ER ET ET OTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature cooling capacity ER IECCHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) COOLING CROSS VALUE) COOLING CROSS VALUE	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW kW kW/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
ower supply ERFORMANCE IECCHANICAL COOLING (GROSS VALUE) ooling capacity otal power input EER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER EICHANICAL COOLING (GROSS VALUE) otal free-Cooling temperature ooling capacity ER COOLING (GROSS VALUE) Office Cooling CROSS VALUE) Ooling capacity otal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7)	kW kW kW/kW kW/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	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
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 grapacity otal free-dooling temperature and the cooling temperature office capacity text of the cooling capacity and the cooling capacity text of the cooling capacity and power input ER	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6)	kW kW kW/kW kW/kW kW kW/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	400/3/5(952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EPR OTAL FREE-COOLING (GROSS VALUE) cotal free-cooling temperature cooling capacity ER ER COOLING (GROSS VALUE) 6°C/10°C cooling capacity catal power input ER ER 3°C/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 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	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 32,99 689,0 199,4 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	400/3/5/ 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) ooling capacity tatal power input EER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPER OTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature ooling capacity ER EICHANICAL COOLING (GROSS VALUE) off COOLING (GROSS VALUE) ooling capacity ER EICHANICAL COOLING (GROSS VALUE) ooling capacity tatal power input ER 37C/15°C ooling capacity	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	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	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	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 3,455 780,5	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	400/3/56 952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity total power input ER ECHANICAL COOLING (EN14511 VALUE) cooling capacity ER ECHANICAL COOLING (EN14511 VALUE) cooling capacity ER EP OTAL FREE-COOLING (GROSS VALUE) total free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity tal power input ER 3°C/15°C cooling capacity tal power input tal power input	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (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	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 3,455 780,5 206,1	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	400/3/5 952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EPPR OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity EE IECHANICAL COOLING (GROSS VALUE) 6°C/10°C ooling capacity ooling capacity EE IECHANICAL COOLING (GROSS VALUE) 6°C/10°C ooling capacity otal power input ER 3°C/15°C ooling capacity tal power input ER 3°C/15°C	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7)	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	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	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 3,455 780,5	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	400/3/5 952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) bolling capacity tal power input = R ECHANICAL COOLING (EN14511 VALUE) bolling capacity R DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature bolling capacity R ECHANICAL COOLING (GROSS VALUE) secondary tal power input R Office of the cooling capacity tal power input R CHANGERS CCHANGERS CCHANGERS	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (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	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 3,455 780,5 206,1	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	400/3/5 952,0 241,2 3,947 949,1 3,890 6,52 10,7 952,0 36,76 770,9 225,5 3,419 874,1 234,3
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) OF	(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	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	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	895,8 222,0 4,035 893,3 3,980 6,52 11,4 895,8 34,59 719,8 208,2 3,457	400/3/56 952,0 241,2 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
ower supply ERFORMANCE ECHANICAL COOLING (GROSS VALUE) poling capacity poling capacity poling capacity error for the cooling (entity) poling capacity error poling capacity tal power input error proving capacity tal powe	(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	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	400/3/50 704,5 171,8 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	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	400/3/5 952,0 241,2 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
cover supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) tal free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) 6°C/10°C cooling capacity tal power input ER CACHANGERS EAT EXCHANGERS USER SIDE IN REFRIGEF fater flow ressure drop	(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/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	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	400/3/56 952,0 241,2 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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity tal power input EECHANICAL COOLING (EN14511 VALUE) ooling capacity EECHANICAL COOLING (GROSS VALUE) ooling capacity ER DTAL FREE-COOLING (GROSS VALUE) ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity ECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER 33°C/15°C ooling capacity tal power input ER CHANGERS EAT EXCHANGER USER SIDE IN REFRIGEF ater flow ressure drop EFRIGERANT CIRCUIT	(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 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	400/3/50 704,5 171,8 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	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	400/3/5 952,0 241,2 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
cover supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER ECHANICAL COOLING (EN14511 VALUE) ooling capacity ER DTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER ER EAT EXCHANGER USER SIDE IN REFRIGER later flow essure drop EFRIGERANT CIRCUIT ompressors nr.	(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 *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	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	400/3/5 952,0 241,2 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) ooling capacity tal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER DTAL FREE-COOLING (GROSS VALUE) tal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity ER OTAL FREE-COOLING (GROSS VALUE) ooling capacity tal power input ER 3°C/16°C ooling capacity tal power input ER CHANGERS EAT EXCHANGER USER SIDE IN REFRIGEF atter flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8)	kW kW kW/kW kW/kW *C *C kW kW/kW *kW/kW *W/kW *W/kW *W *W *W *W *W *W *W *W *W	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	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 29,50 53,7	400/3/5 952,0 241,2 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) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EP BOTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) off capacity ER IECHANICAL COOLING (GROSS VALUE) Ooling capacity otal power input ER Ooling capacity otal power input ER STC COOling capacity otal power input ER ER EAT EXCHANGER USER SIDE IN REFRIGEF ater flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (7) (7) (7) (8) (9) (9) (9) (1) (1) (1) (1) (1) (1) (2) (3) (2) (3)	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	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 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	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 28,14 50,1 6 2	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	400/3/5 952,0 241,2 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) ooling capacity tatal power input EER IECHANICAL COOLING (EN14511 VALUE) ooling capacity EER OTAL FREE-COOLING (GROSS VALUE) tatal free-cooling temperature ooling capacity EER EECHANICAL COOLING (GROSS VALUE) tatal free-cooling temperature ooling capacity EECHANICAL COOLING (GROSS VALUE) 60°C/10°C ooling capacity tatal power input EER 3°C/15°C ooling capacity tatal power input EER XCHANGERS EAT EXCHANGER USER SIDE IN REFRIGEF fater flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL ound Pressure	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (2)(3)	kW kW kW/kW kW/kW kW/kW *C 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 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	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	400/3/5 952,0 241,2 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
cover supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) cooling capacity total power input ER IECHANICAL COOLING (EN14511 VALUE) cooling capacity ER DTAL FREE-COOLING (GROSS VALUE) total free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) total free-cooling temperature cooling capacity ER ECHANICAL COOLING (GROSS VALUE) cooling capacity total power input ER COOLING (GROSS VALUE) COOLING (GROSS VALUE) COOLING (GROSS VALUE) COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) ECHANICAL COOLING (GROSS VALUE) COOLING (G	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (7) (7) (7) (8) (9) (9) (9) (1) (1) (1) (1) (1) (1) (2) (3) (2) (3)	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	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 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	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 28,14 50,1 6 2	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	400/3/5 952,0 241,2 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) ooling capacity tal power input EECHANICAL COOLING (EN14511 VALUE) ooling capacity EECHANICAL COOLING (EN14511 VALUE) ooling capacity ER DTAL FREE-COOLING (GROSS VALUE) ooling capacity ER IECHANICAL COOLING (GROSS VALUE) ooling capacity ECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER 33°C/15°C ooling capacity tal power input ER SICHISTO COOLING (GROSS VALUE) ooling capacity tal power input ER SICHISTO Ooling Capacity tal power input ER SICHISTO Ooling Capacity tal power input ER OOLING (GROSS VALUE)	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (10)(11)	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 *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 64 97	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 65 98	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	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 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	400/3/56 952,0 241,2 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
ower supply ERFORMANCE IECHANICAL COOLING (GROSS VALUE) ooling capacity otal power input ER IECHANICAL COOLING (EN14511 VALUE) ooling capacity ER EP OTAL FREE-COOLING (GROSS VALUE) otal free-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) off ree-cooling temperature ooling capacity ER IECHANICAL COOLING (GROSS VALUE) off C710°C ooling capacity otal power input ER 3°C/15°C ooling capacity otal power input ER SYCHANGER EAT EXCHANGER USER SIDE IN REFRIGER later flow ressure drop EFRIGERANT CIRCUIT ompressors nr. o. Circuits efrigerant charge OISE LEVEL ound Pressure ound power level in cooling IZE AND WEIGHT	(1) (1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (7) (7) (7) (7) (8) (8) (8) (8) (8) (2)(3)	kW kW kW/kW kW/kW kW/kW *C *C 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 64 97	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 65 98	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	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 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	400/3/5i 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
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 grapacity otal free-dooling temperature and the cooling temperature office capacity text of the cooling capacity and the cooling capacity text of the cooling capacity and power input ER	(1) (1) (2)(3) (2)(3) (4)(5) (6) (6) (6) (7) (7) (7) (8) (8) (8) (8) (8) (9) (10)(11)	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 *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 64 97	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 65 98	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	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 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	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 66 99

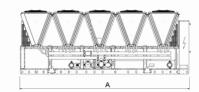
- ▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 ▶ Values in compliance with EN14511

- values in compliance with ENT4511
 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 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%.
- 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.
- Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.







NR-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
PERFORMANCE		v/pri/riz	100/0/00	100/0/00	100/0/00	100/0/00	100/0/00	100/0/0/
MECHANICAL COOLING (GROSS VALUE)								
Cooling capacity	(1)	kW	377,0	402,3	424,2	459,2	487,2	517,2
Total power input	(1)	kW	92,02	100,0	107,9	112,1	119,6	129,5
EER	(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)								
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)								
6°C/10°C								
Cooling capacity	(7)	kW	302,6	322,8	340,7	371,2	393,2	418,2
otal 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
3°C/15°C								
Cooling capacity	(8)	kW	344,3	367,2	387,4	421,5	446,8	474,1
Total power input	(8)	kW	89,82	97,42	104,8	109,0	116,3	125,6
ER	(8)	kW/kW	3,834	3,770	3,697	3,867	3,842	3,775
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGER	RATION							
Vater flow	(3)	l/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			. 1.	-,-	1-	.,-	.,=	,
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
VOISE LEVEL		5	.,,0	10	23,0	2.,0	2.10	33,0
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	(10)(11)	dD(r)						
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(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
Derating weight	(12)	kg	4190	4220	4300	5270	5300	5330
operating weight	(12)	ng	4130	4220	4000	3210	3300	3330
Model			0554	0594	0624	0685	0746	0836
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/5
PERFORMANCE		v/pn/nz	400/3/30	400/3/30	400/3/30	400/3/30	400/3/30	400/3/3
MECHANICAL COOLING (GROSS VALUE)								
Cooling capacity	(1)	kW	551,6	594,3	620,3	679,9	722,9	822,6
otal power input	(1)	kW	139,9	145,8	155,5	166,3	181,6	206,6
ER		kW/kW						
	(1)	KVV/KVV	3,943	4,076	3,989	4,088	3,981	3,982
MECHANICAL COOLING (EN14511 VALUE)	(2)(2)	IAM	EFO 4	E00.0	610.0	670.0	701 4	0000
Cooling capacity	(2)(3)	kW	550,4	592,8	618,8	678,2	721,4	820,6
ER	(2)(3)	kW/kW	3,900	4,030	3,940	4,040	3,940	3,930
SEPR	(4)(5)		6,76	6,91	6,69	7,14	7,22	7,11
TOTAL FREE-COOLING (GROSS VALUE)	(0)	20	0.1	10.0	10.1	40.0	10.0	10:
Total free-cooling temperature	(6)	°C	9,4	10,0	10,1	10,2	10,0	10,1
Cooling capacity	(6)	kW	551,6	594,3	620,3	679,9	722,9	822,6
ER	(6)	kW/kW	78,80	70,75	73,85	69,38	73,77	73,45
MECHANICAL COOLING (GROSS VALUE)								
6°C/10°C								
Cooling capacity	(7)	kW	443,8	483,1	504,1	550,7	587,3	666,5
otal power input	(7)	kW	129,9	135,7	144,6	155,3	170,2	192,8
ER	(7)	kW/kW	3,416	3,560	3,486	3,546	3,451	3,457
23°C/15°C								
Cooling capacity	(8)	kW	504,2	547,2	570,8	623,9	665,7	753,0
otal power input	(8)	kW	135,3	141,4	150,7	161,4	176,6	200,3
ER	(8)	kW/kW	3,727	3,870	3,788	3,866	3,770	3,759
XCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGER	RATION							
ILAI EXCITANGEN OSEN SIDE IN NEI MIGE	(3)	l/s	18,16	19,57	20,43	22,39	23,80	27,09
					41,2	44,8	35,8	46,4
Vater flow		kPa	38,2	43,7				
Vater flow Pressure drop	(2)(3)	KPa	38,2	43,7	41,2	11,0	00,0	
Nater flow Pressure drop REFRIGERANT CIRCUIT								6
Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr.		N°	4	4	4	5	6	6
Water flow Pressure drop REFRIGERANT CIRCUIT Compressors nr. Vo. Circuits		N° N°	4 2	4 2	4 2	5 2	6 2	2
Water flow Pressure drop Pressure drop REFRIGERANT CIRCUIT Compressors nr. No. Circuits Refrigerant charge NOISE LEVEL		N°	4	4	4	5	6	

55 88

7430 2260

2450 5460

55 88

6255 2260

2450 5360

Sound Pressure

SIZE AND WEIGHT

Operating weight

Sound power level in cooling

▶ Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 ▶ Values in compliance with EN14511

dB(A)

mm mm

mm

kg

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

(9) (10)(11)

(12) (12)

(12) (12)

- 6 Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 7 Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%.
- 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;

56 89

8605 2260

2450 6610

56 89

8605 2260

2450 5960

- 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.

56 89

7430 2260

2450 5500

12 > Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.



56 89

9780 2260

2450 7210

FURTHER OPTIONS

Auxiliary input

Double set-point: Enables the remote switch between 2 set-points (digital input).

Demand limit: Limits the unit's power absorption for safety reasons or in temporary situations (digital input).

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

Electrical

Connectivity

Serial card interface module to allow integration with BMS protocols:

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

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.

Compressor suction valve: Installed on each compressor suction line, it simplifies maintenance activity (discharge valves are present as per standard).

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

Container packing: NR-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).

A SELECTION OF RC INSTALLATIONS

TELECOM
DATA CENTER
TIER IV

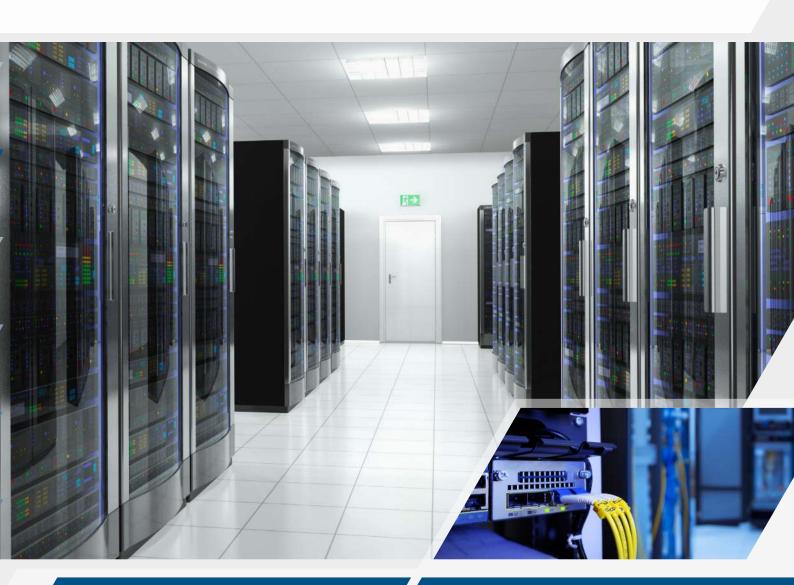
2016 ROME - ITALY

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 RC units, linked to centralized free cooling and geo cooling systems.

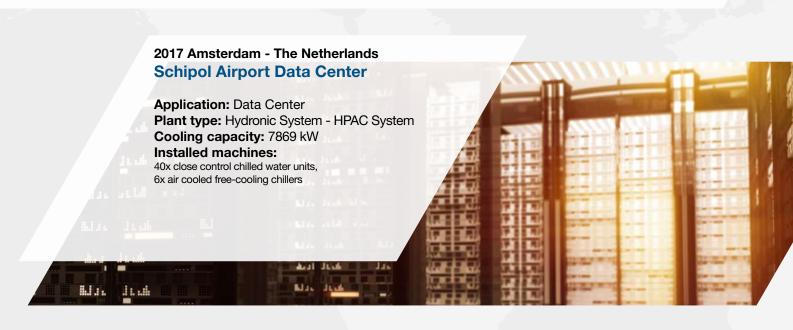
SOLUTION

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







RC'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.

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