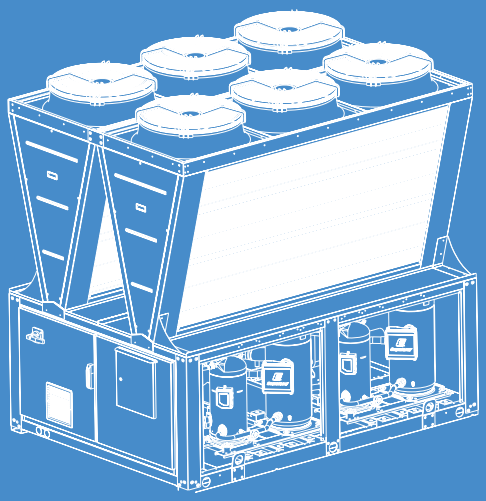
KELVIN
Air Conditioning System

Qualified for **Energy Technology List**
www.eca.gov.uk
TM

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management

KELVIN Clim A108

Cooling Capacity: 108 ~ 877 kW



A CLASS | R410A | PLATE | SHELL | A C | MICRO CHANNEL | EU

Air cooled liquid chillers with scroll compressors, plate/Shell&Tube heat exchengers, AC axial fans and Microchannel condensing coils

KELVIN AIR CONDITIONING

KELVIN Clim A108

KELVIN CLIM A108 : Air cooled liquid chillers in A class energy efficiency for outdoor installation, equipped with scroll compressor and microchannel condensing coils
Cooling capacity: 108 ~ 877 kW

EUROVENT CERTIFIED PERFORMANCE Pending... www.eurovent-certification.com

KELVIN AIR CONDITIONING

MAIN FEATURES

- Air cooled liquid chiller in A class energy efficiency.
- 31 models available, for a wide selection opportunity.
- Average step of 25kW.
- EER up to 3,21.
- ESEER up to 4,69.
- Latest generation scroll compressors.
- R410A Refrigerant charge.
- Units with one, two, three or four refrigerant circuits.
- Plate type or shell and tube heat exchangers.
- AC Axial fans.
- Electronic expansion valve.
- Units with one, two, three or four air circuits.
- Modular construction
- Suitable for outdoor installation.

MAIN BENEFITS

- Two compressors for each refrigerant circuit to reach high efficiency.
- Units with one, two, three or four refrigerant circuits.
- Microchannel condensing coils in aluminium.
- Low refrigerant charge.
- High EER and ESEER.
- A Class energy efficiency.
- Availability of kit for the reduction and the extreme reduction of the noise.
- Availability of pumping groups with low, medium, high discharge head.
- Availability of total or partial heat recovery system.
- Availability of EC fans with available external static pressure.
- Extremely easily of maintenance.
- Complete set of components dedicated to the safety of the unity.
- Eurovent Certification. (pending)

MICROCHANNEL CONDENSING COILS

The coil weight is only 50% compared to traditional copper pipes and aluminium fi ns of the same capacity. The reduced air resistance of the micro-channel coils allows to drastically reduce the fans motors electric energy consumption. At the same performances conditions, the micro-channels condensers require up-to less than 75% refrigerant when compared to the traditional heat exchangers.

ELECTRONIC EXPANSION VALVE

The electronic expansion valves are synonymous of an higher energy effi ciency and stability of the system.

A CLASS ENERGY EFFICIENCY

The best and most accurate components applied to the chillers.

WORKING LIMITS IN COOLING MODE

Chilled water outlet temperature: -12~20°C
Ambient temperature: -10~45°C

MAIN COMPONENTS

FRAMEWORK
- Base, self supporting frame and panelling in steel plate with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders.
- Containing box for compressors, evaporator and electrical panel (for W cabinet only);
- Compartment for electrical panel on unit front for direct access to control and regulation devices.
- Colour: RAL 9002;

COMPRESSORS
- Orbiting spiral (SCROLL) hermetic compressors with spiral profile optimized for R410A refrigerant;
- ON / OFF capacity control (0 / 100% each compressor);
- 2-pole 3-phase electric motor with direct on line starting;
- Crankcase heater;
- Electric motor thermal protection via internal winding temperature sensors;
- Equalization system of the lubricant oil for units equipped with 2 compressors operating on the same refrigerating circuit;
- Rubber supports.

EVAPORATOR
Up to model 430 P4 D VT4 included:
- AISI 316 stainless steel plates type, vacuum brazed using copper as brazing material:
- With single hydraulic circuit for all machines;
- With single refrigerant circuit for S version machines;
- With double refrigerant circuit for D version machines.
- Polyurethane insulation foam with closed cell;
- Temperature sensors on water inlet and outlet;
- Factory assembled differential water pressure switch for water flow control (size W);
- Paddle flow switch for water flow control, supplied in mounting kit (size VT).
- Antifreeze heater;
- Hydraulic piping insulated with closed cell elastomeric foam;
- Hydraulic connections with grooved end complete with fl exible joint and adapter pipe for solder connection.
- The hydraulic connections are carried outside the unit (size W only).

From model 455 P6 T VT5 included:
- Shell and tube evaporator optimized for R410A refrigerant.
- Tubes with a helical rifl ed internal surface.
- Intermediate baffl es positioned to ensure optimum speed of the fluid and low pressure drops.
- Refrigerant/Hydraulic circuit:

o Water side:
- Single circuit

o Refrigerant side
- Three circuits from 455 P6 T VT5 model to 646 P6 T VT6 model, both included
- Four circuits for the remaining models
- Shell, header, tube sheets, made of carbon steel, tubes in Cu.
- Polyurethane insulation foam with closed cell;
- Hydraulic piping insulated with closed cell elastomeric foam;
- Temperature sensors on water inlet and outlet.
- Water flow switch for water flow control on water outlet towards the plant, not installed but supplied in kit.
- Hydraulic connections with grooved end complete with flexible joint and adapter pipe for solder connection.
- Antifreeze heater.

CONDENSING COIL
- Microchannel condensing coil in aluminium and they are perfectly suitable for the civil and industrial applications cooling, while the protection function of the oxide layer allows an optimum resistance to corrosion also in case of aggressive ambient conditions;
- Extremely light construction. The coil weight is only 50% compared to traditional copper pipes and aluminum fins of the same capacity;
- Low air side pressure drop and consequentially drastic reduction of the fans motors electric energy consumption;
- Reduced internal volume capable of reducing the total refrigerant charge. At the same performances conditions, the micro-channels condensers require up-to less than 75% refrigerant when compared to the traditional heat exchangers;
- High heat exchange efficiency;
- Single air circuit for machine version S;
- Double air circuit for machine version D;
- Triple air circuit for machine version T;
- Quadruple air circuit for machine version Q;
- Frame in painted galvanized steel.

FANS SECTION
- Axial fans with sickle-shaped blades, fan guard and optimized for low noise levels;
- External rotor AC type electric motor with stepless variable speed for condensing pressure control;
- IP54 enclosure class.

REFRIGERANT CIRCUIT
Components for each refrigerant circuit:
- Electronic expansion valve. The valve allows high performance and system efficiency thanks to a timely and accurate response to changes in temperature and pressure;
- Electronic expansion valve energy reserve module to allow the closure of the valve in the event of lack of power supply.
- Sight glass;
- Filter dryer on liquid line;
- Service valves on liquid line and gas discharge;
- Safety valves on high and low pressure side;
- Pressure transducers with indication, control and protection functions, on low and high refrigerant pressure;
- High pressure safety switch with manual reset;
- Refrigerant circuit with copper tubing with insulation of the suction line;
- Plastic capillary hoses for pressure sensors connection;
- R410A refrigerant charge.

ELECTRICAL PANEL
In accordance with EN60204-1 norms, suitable for outdoor installation, complete with:
- Main switch with door lock safety on frontal panel;
- Magnetothermic switches or fuses for each compressor;
- Magnetothermic switches for each fan motor and water pump (if scheduled).
- Contactors for each compressor motor;
- Transformer for auxiliary circuit and microprocessor supply;
- Machine operating mode selector "Loc – Off - Remote":
- Loc position: Machine is active;
- Off position: Machine is deactivated;
- Remote position: The machine is remotely controlled with a command by the Customer. Electric connections in the terminal.
- Terminals:

OUTLETS
- Voltage free deviating contact for General Alarm 1.

INLETS
- External enabling (from timer, etc. At Customer care);
- Remote control (from operating mode selector. At Customer care);
- Emergency unit stop with signalling on display (external alarm. At Customer care).;
- Panel with machine controls;
- Power supply:

400V / 3Ph / 50Hz + N for machine size W
400V / 3Ph / 50Hz for machine size VT.

CONTROL SYSTEM
- Microprocessor control system with graphic display for control and monitor of operating and alarms status. 6 keys terminal. The system includes:
- Clock card for alarms date and time displaying and storing;
- Predisposition for the memorization of the intervened alarms;
- Predisposition for connectivity board housing (KELVIN Com MBUS/JBUS, LON, BACnet for Ethernet (SNMP- TCP/IP), BACnet for MS/TP).

The electronic cards are optional accessories;
- Main components hour-meter;
- Non-volatile "Flash" memory for data storage in case of power supply faulty;
- Analogue set point compensation (0~1 Vdc) according to an external analogue signal at Customer care;
- Menu with protection password;
- LAN connection.

OPTIONAL ACCESSORIES

KELVIN Clim A108	106 P2	128 P4	132 P2	140 P4	153 P4	164 P4	168 P2	168 P2	184 P4	190 P4	214 P4
VERSION	S	D	S	D	D	D	S	D	D	D	D
SIZE	WL	WL	WL	WL	WH	WH	WH	WH	WH	VT2	VT2
722 - Low discharge head single pump	●	●	●	●	●	●	●	●	●	●	●
723 - Low discharge head twin pump	●	●	●	●	●	●	●	●	●	●	●
720 - Medium discharge head single pump	●	●	●	●	●	●	●	●	●	●	●
721 - Medium discharge head twin pump	●	●	●	●	●	●	●	●	●	●	●
720 - High discharge head single pump	●	●	●	●	●	●	●	●	●	●	●
721 - High discharge head twin pump	●	●	●	●	●	●	●	●	●	●	●
727 - Water tank + 1 pump with low discharge head	●	●	●	●	●	●	●	●	●	●	●
728 - Water tank + 2 pumps with low discharge head	●	●	●	●	●	●	●	●	●	●	●
725 - Water tank + 1 pump with medium discharge head	●	●	●	●	●	●	●	●	●	●	●
726 - Water tank + 2 pumps medium discharge head	●	●	●	●	●	●	●	●	●	●	●
729 - Water tank + 1 pump with high discharge head	●	●	●	●	●	●	●	●	●	●	●
730 - Water tank + 2 pumps with high discharge head	●	●	●	●	●	●	●	●	●	●	●
1004 - Antifreezing heater for pumping group	●	●	●	●	●	●	●	●	●	●	●
150 - LNO kit (noise reduction)	●	●	●	●	●	●	●	●	●	●	●
151 - ELN kit (extremely noise reduction)	●	●	●	●	●	●	●	●	●	●	●
170 - Spring antivibration holders (kit)	-	-	-	-	-	-	-	-	-	●	●
171 - Rubber antivibration holders (kit)	●	●	●	●	●	●	●	●	●	●	●
118 - Kit brine A (for glycol solution production up to °6-C)	●	●	●	●	●	●	●	●	●	●	●
119 - Kit brine B (for glycol solution production up to °12-C)	●	●	●	●	●	●	●	●	●	●	●
79 - Electrical panel heating system	●	●	●	●	●	●	●	●	●	●	●
101 - EC fan	●	●	●	●	●	●	●	●	●	●	●
450 - Partial heat recovery	●	●	●	●	●	●	●	●	●	●	●
449 - Voltage free contact for partial heat recovery water pump activation	●	●	●	●	●	●	●	●	●	●	●
%100 - 451 heat recovery	●	●	●	●	●	●	●	●	●	●	●
454 - Voltage free contact for total heat recovery water pump activation	●	●	●	●	●	●	●	●	●	●	●
459 - Shell and tube evaporator	-	-	-	-	-	-	-	-	-	●	●
460 - Shell and tube evaporator for low temperature	-	-	-	-	-	-	-	-	-	●	●
350 -Kit TK PRO corrosion resistant painting treatment	●	●	●	●	●	●	●	●	●	●	●
252 - Anti-intrusion net	-	-	-	-	-	-	-	-	-	●	●
605 - Compr. power factor capacitor - 0,9	●	●	●	●	●	●	●	●	●	●	●
1002 - Soft Starter	●	●	●	●	●	●	●	●	●	●	●
83 - Compressor operation indicator	●	●	●	●	●	●	●	●	●	●	●
82 - Magnetothermic switch for each compressor	-	-	-	-	-	-	-	-	-	-	-
Service valve on compressor group suction	●	●	●	●	●	●	●	●	●	●	●
88 - Analog set point compensation	●	●	●	●	●	●	●	●	●	●	●
217 - Double safety valve	●	●	●	●	●	●	●	●	●	●	●
224 - Pressure gauge on high and low pressure	●	●	●	●	●	●	●	●	●	●	●
Ambient temperature sensor	●	●	●	●	●	●	●	●	●	●	●
85 - Demand limit	●	●	●	●	●	●	●	●	●	●	●
81 - Phases sequence control	●	●	●	●	●	●	●	●	●	●	●
1003 - Analogic flowmeter	●	●	●	●	●	●	●	●	●	●	●
1005 - Power supply analyzer	●	●	●	●	●	●	●	●	●	●	●
1009 - Multimeter kit	●	●	●	●	●	●	●	●	●	●	●
84 - Additional external alarm	●	●	●	●	●	●	●	●	●	●	●
923 - KELVIN-Com MBUS/JBUS Serial board	●	●	●	●	●	●	●	●	●	●	●
926 - LON Serial board	●	●	●	●	●	●	●	●	●	●	●
931 - BACnet Ethernet - SNMP - TCP/IP Serial board	●	●	●	●	●	●	●	●	●	●	●
932 - BACnet MS/TP Serial board	●	●	●	●	●	●	●	●	●	●	●
Espansion card 1	●	●	●	●	●	●	●	●	●	●	●
Espansion card 2	●	●	●	●	●	●	●	●	●	●	●
930 - Remote graphic terminal kit	●	●	●	●	●	●	●	●	●	●	●
962 - Kit modem GSM	●	●	●	●	●	●	●	●	●	●	●
957 - Plantwatch without modem	●	●	●	●	●	●	●	●	●	●	●
889 - Master plant SEQUENCER	●	●	●	●	●	●	●	●	●	●	●
KELVIN CLOUD PLATFORM	●	●	●	●	●	●	●	●	●	●	●

● available accessory; - not available accessory

OPTIONAL ACCESSORIES

KELVIN Clim A108	236 P4	270 P4	304 P4	340 P4	374 P4	390 P4	410 P4	430 P4	455 P6	504 P6
VERSION	D	D	D	D	D	D	D	D	T	T
SIZE	VT2	VT3	VT3	VT3	VT4	VT4	VT4	VT4	VT5	VT5
722 - Low discharge head single pump	●	●	●	●	●	●	●	●	●	●
723 - Low discharge head twin pump	●	●	●	●	●	●	●	●	●	●
720 - Medium discharge head single pump	●	●	●	●	●	●	●	●	●	●
721 - Medium discharge head twin pump	●	●	●	●	●	●	●	●	●	●
720 - High discharge head single pump	●	●	●	●	●	●	●	●	●	●
721 - High discharge head twin pump	●	●	●	●	●	●	●	●	●	●
727 - Water tank + 1 pump with low discharge head	●	●	●	●	●	●	●	●	-	-
728 - Water tank + 2 pumps with low discharge head	●	●	●	●	●	●	●	●	-	-
725 - Water tank + 1 pump with medium discharge head	●	●	●	●	●	●	●	●	-	-
726 - Water tank + 2 pumps medium discharge head	●	●	●	●	●	●	●	●	-	-
729 - Water tank + 1 pump with high discharge head	●	●	●	●	●	●	●	●	-	-
730 - Water tank + 2 pumps with high discharge head	●	●	●	●	●	●	●	●	-	-
1004 - Antifreezing heater for pumping group	●	●	●	●	●	●	●	●	●	●
150 - LNO kit (noise reduction)	●	●	●	●	●	●	●	●	●	●
151 - ELN kit (extremely noise reduction)	●	●	●	●	●	●	●	●	●	●
170 - Spring antivibration holders (kit)	●	●	●	●	●	●	●	●	●	●
171 - Rubber antivibration holders (kit)	●	●	●	●	●	●	●	●	●	●
118 - Kit brine A (for glycol solution production up to °6-C)	●	●	●	●	●	●	●	●	●	●
119 - Kit brine B (for glycol solution production up to °12-C)	●	●	●	●	●	●	●	●	●	●
79 - Electrical panel heating system	●	●	●	●	●	●	●	●	●	●
101 - EC fan	●	●	●	●	●	●	●	●	●	●
450 - Partial heat recovery	●	●	●	●	●	●	●	●	●	●
449 - Voltage free contact for partial heat recovery water pump activation	●	●	●	●	●	●	●	●	●	●
%100 - 451 heat recovery	●	●	●	●	●	●	●	●	-	-
454 - Voltage free contact for total heat recovery water pump activation	●	●	●	●	●	●	●	●	-	-
459 - Shell and tube evaporator	●	●	●	●	●	●	●	●	-	-
460 - Shell and tube evaporator for low temperature	●	●	●	●	●	●	●	●	●	●
350 -Kit TK PRO corrosion resistant painting treatment	●	●	●	●	●	●	●	●	●	●
252 - Anti-intrusion net	●	●	●	●	●	●	●	●	●	●
605 - Compr. power factor capacitor - 0,9	●	●	●	●	●	●	●	●	●	●
1002 - Soft Starter	●	●	●	●	●	●	●	●	-	-
83 - Compressor operation indicator	●	●	●	●	●	●	●	●	●	●
82 - Magnetothermic switch for each compressor	-	●	●	●	●	●	●	●	●	●
Service valve on compressor group suction	●	●	●	●	●	●	●	●	●	●
88 - Analog set point compensation	●	●	●	●	●	●	●	●	●	●
217 - Double safety valve	●	●	●	●	●	●	●	●	●	●
224 - Pressure gauge on high and low pressure	●	●	●	●	●	●	●	●	●	●
Ambient temperature sensor	●	●	●	●	●	●	●	●	●	●
85 - Demand limit	●	●	●	●	●	●	●	●	●	●
81 - Phases sequence control	●	●	●	●	●	●	●	●	●	●
1003 - Analogic flowmeter	●	●	●	●	●	●	●	●	●	●
1005 - Power supply analyzer	●	●	●	●	●	●	●	●	●	●
1009 - Multimeter kit	●	●	●	●	●	●	●	●	●	●
84 - Additional external alarm	●	●	●	●	●	●	●	●	●	●
923 - KELVIN-Com MBUS/JBUS Serial board	●	●	●	●	●	●	●	●	●	●
926 - LON Serial board	●	●	●	●	●	●	●	●	●	●
931 - BACnet Ethernet - SNMP - TCP/IP Serial board	●	●	●	●	●	●	●	●	●	●
932 - BACnet MS/TP Serial board	●	●	●	●	●	●	●	●	●	●
Espansion card 1	●	●	●	●	●	●	●	●	●	●
Espansion card 2	●	●	●	●	●	●	●	●	●	●
930 - Remote graphic terminal kit	●	●	●	●	●	●	●	●	●	●
962 - Kit modem GSM	●	●	●	●	●	●	●	●	●	●
957 - Plantwatch without modem	●	●	●	●	●	●	●	●	●	●
889 - Master plant SEQUENCER	●	●	●	●	●	●	●	●	●	●
KELVIN CLOUD PLATFORM	●	●	●	●	●	●	●	●	●	●

● available accessory; - not available accessory

OPTIONAL ACCESSORIES

KELVIN Clim A108	530 P6	550 P6	584 P6	604 P6	646 P6	670 P8	726 P8	780 P8	820 P8	860 P8
VERSION	T	T	T	T	T	Q	Q	Q	Q	Q
SIZE	VT5	VT5	VT6	VT6	VT6	VT6	VT7	VT7	VT8	VT8
722 - Low discharge head single pump	●	●	●	●	●	●	●	●	●	●
723 - Low discharge head twin pump	●	●	●	●	●	●	●	●	●	●
720 - Medium discharge head single pump	●	●	●	●	●	●	●	●	●	●
721 - Medium discharge head twin pump	●	●	●	●	●	●	●	●	●	●
720 - High discharge head single pump	●	●	●	●	●	●	●	●	●	●
721 - High discharge head twin pump	●	●	●	●	●	●	●	●	●	●
727 - Water tank + 1 pump with low discharge head	-	-	-	-	-	-	-	-	-	-
728 - Water tank + 2 pumps with low discharge head	-	-	-	-	-	-	-	-	-	-
725 - Water tank + 1 pump with medium discharge head	-	-	-	-	-	-	-	-	-	-
726 - Water tank + 2 pumps medium discharge head	-	-	-	-	-	-	-	-	-	-
729 - Water tank + 1 pump with high discharge head	-	-	-	-	-	-	-	-	-	-
730 - Water tank + 2 pumps with high discharge head	-	-	-	-	-	-	-	-	-	-
1004 - Antifreezing heater for pumping group	●	●	●	●	●	●	●	●	●	●
150 - LNO kit (noise reduction)	●	●	●	●	●	●	●	●	●	●
151 - ELN kit (extremely noise reduction)	●	●	●	●	●	●	●	●	●	●
170 - Spring antivibration holders (kit)	●	●	●	●	●	●	●	●	●	●
171 - Rubber antivibration holders (kit)	●	●	●	●	●	●	●	●	●	●
118 - Kit brine A (for glycol solution production up to °6-C)	●	●	●	●	●	●	●	●	●	●
119 - Kit brine B (for glycol solution production up to °12-C)	●	●	●	●	●	●	●	●	●	●
79 - Electrical panel heating system	●	●	●	●	●	●	●	●	●	●
101 - EC fan	●	●	●	●	●	●	●	●	●	●
450 - Partial heat recovery	●	●	●	●	●	●	●	●	●	●
449 - Voltage free contact for partial heat recovery water pump activation	●	●	●	●	●	●	●	●	●	●
%100 - 451 heat recovery	-	-	-	-	-	-	-	-	-	-
454 - Voltage free contact for total heat recovery water pump activation	-	-	-	-	-	-	-	-	-	-
459 - Shell and tube evaporator	-	-	-	-	-	-	-	-	-	-
460 - Shell and tube evaporator for low temperature	●	●	●	●	●	●	●	●	●	●
350 -Kit TK PRO corrosion resistant painting treatment	●	●	●	●	●	●	●	●	●	●
252 - Anti-intrusion net	●	●	●	●	●	●	●	●	●	●
605 - Compr. power factor capacitor - 0,9	●	●	●	●	●	●	●	●	●	●
1002 - Soft Starter	-	-	-	-	-	-	-	-	-	-
83 - Compressor operation indicator	●	●	●	●	●	●	●	●	●	●
82 - Magnetothermic switch for each compressor	●	●	●	●	●	●	●	●	●	●
Service valve on compressor group suction	●	●	●	●	●	●	●	●	●	●
88 - Analog set point compensation	●	●	●	●	●	●	●	●	●	●
217 - Double safety valve	●	●	●	●	●	●	●	●	●	●
224 - Pressure gauge on high and low pressure	●	●	●	●	●	●	●	●	●	●
Ambient temperature sensor	●	●	●	●	●	●	●	●	●	●
85 - Demand limit	●	●	●	●	●	●	●	●	●	●
81 - Phases sequence control	●	●	●	●	●	●	●	●	●	●
1003 - Analogic flowmeter	●	●	●	●	●	●	●	●	●	●
1005 - Power supply analyzer	●	●	●	●	●	●	●	●	●	●
1009 - Multimeter kit	●	●	●	●	●	●	●	●	●	●
84 - Additional external alarm	●	●	●	●	●	●	●	●	●	●
923 - KELVIN-Com MBUS/JBUS Serial board	●	●	●	●	●	●	●	●	●	●
926 - LON Serial board	●	●	●	●	●	●	●	●	●	●
931 - BACnet Ethernet - SNMP - TCP/IP Serial board	●	●	●	●	●	●	●	●	●	●
932 - BACnet MS/TP Serial board	●	●	●	●	●	●	●	●	●	●
Espansion card 1	●	●	●	●	●	●	●	●	●	●
Espansion card 2	●	●	●	●	●	●	●	●	●	●
930 - Remote graphic terminal kit	●	●	●	●	●	●	●	●	●	●
962 - Kit modem GSM	●	●	●	●	●	●	●	●	●	●
957 - Plantwatch without modem	●	●	●	●	●	●	●	●	●	●
889 - Master plant SEQUENCER	●	●	●	●	●	●	●	●	●	●
KELVIN CLOUD PLATFORM	●	●	●	●	●	●	●	●	●	●

● available accessory; - not available accessory

TECHNICAL DATA KELVIN Clim A108

	KELVIN Clim A108		106 P2 S WL	128 P4 D WL	132 P2 S WL	140 P4 D WL	153 P4 D WH	164 P4 D WH	168 P2 S WH	168 P2 D WH
	SIZE									
STANDARD	**Cooling capacity (1)**	kW	**108**	**124**	**134**	**139**	**152**	**164**	**170**	**171**
	Unit power input	kW	34,6	40,5	42,8	44,4	47,8	52,6	54,5	54,6
	Evaporator water flow rate	m³/h	18,6	21,3	23,0	23,9	26,1	28,2	29,2	29,4
	Evaporator pressure drop	kPa	33	42	34	39	46	42	25	34
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	2	4	2	4	4	4	2	2
	Capacity steps	n.	2	4	2	4	4	4	2	2
	Axial fans	n.	4	6	6	6	6	6	6	6
	Total air flow	m³/h	38940	53340	53340	53340	59300	59300	59300	59300
	Air circuits	n.	1	2	1	2	2	2	1	2
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	12,0	12,0	12,4	12,1	23,3	24,1	21,3	24,3
	Gas circuits	n.	1	2	1	2	2	2	1	2
	Power supply	V/Ph/Hz	+50/3/400N	+50/3/400N	+50/3/400N	+50/3/400N	+50/3/400N	+50/3/400N	+50/3/400N	+50/3/400N
	Max unit operating current (FLA)	A	95,4	113,3	110,1	138,5	144,8	151,1	145,8	145,8
	Unit starting current (LRA)	A	313,9	200,9	328,9	240,9	277,9	283,9	382,9	382,9
	EER - Eurovent standard (1)	kW/kW	3,12	3,06	3,13	3,13	3,18	3,12	3,12	3,13
	ESEER		4,27	4,59	4,23	4,57	4,55	4,55	4,35	4,68
	Sound power level [Lw] (2)	dB(A)	84,5	82,7	86,5	83,1	83,7	83,9	86,9	86,9
	Average sound pressure level [LPm] (3)	dB(A)	66,3	64,5	68,4	64,9	65,1	65,3	68,4	68,4
	Net weight	kg	1250	1310	1390	1330	1300	1440	1540	1530
	Hydraulic connections									
	Evaporator IN/OUT - OD (4)	Ø mm	76,1	76,1	76,1	76,1	76,1	76,1	76,1	76,1
OPTIONAL	**Partial heat recovery-Heating capacity(5)**	kW	**39,7**	**45,5**	**49,1**	**51,1**	**55,7**	**60,4**	**62,3**	**62,7**
	Total heat recovery-Heating capacity(6)	kW	**138**	**157**	**170**	**178**	**193**	**211**	**218**	**218**
	EC axial fans									
	Power input	kW	1,6	2,3	2,3	2,3	2,3	2,3	2,3	2,3
	Max external static pressure	Pa	0	0	0	0	0	0	0	0
	Pumping group									
	Low discharge head - Power input	kW	3,3	3,3	3,3	3,3	3,3	3,3	3,3	3,3
	Medium discharge head - Power input	kW	4,6	4,6	4,6	4,6	4,6	4,6	4,6	4,6
	High discharge head - Power input	kW	6,1	6,1	6,1	6,1	6,1	6,1	6,1	6,1
	Water tank - volume	l	200	200	200	200	200	200	200	200
LNO KIT %100	**Cooling capacity (1)**	kW	**108**	**124**	**134**	**139**	**152**	**164**	**170**	**171**
	Unit power input	kW	34,6	40,5	42,8	44,4	47,8	52,6	54,5	54,6
	Total air flow	m³/h	38940	53340	53340	53340	59300	59300	59300	59300
	EER - Eurovent standard (1)	kW/kW	3,12	3,06	3,13	3,13	3,18	3,12	3,12	3,13
	Sound power level [Lw] (2)	dB(A)	78,2	77,1	80,1	77,4	77,9	78,1	80,6	80,6
	Average sound pressure level [LPm] (3)	dB(A)	60,1	58,9	62,0	59,2	59,4	59,5	62,0	62,0
LNO KIT %85	**Cooling capacity (1)**	kW	**106**	**122**	**131**	**136**	**149**	**161**	**166**	**167**
	Unit power input	kW	35,5	41,2	43,5	45,3	48,7	53,7	55,7	56,0
	Total air flow	m³/h	33099	45339	45339	45339	50405	50405	50405	50405
	EER - Eurovent standard (1)	kW/kW	2,99	2,96	3,01	3,00	3,06	3,00	2,98	2,98
	Sound power level [Lw] (2)	dB(A)	77,0	74,6	79,1	75,1	75,8	76,0	79,5	79,5
	Average sound pressure level [LPm] (3)	dB(A)	58,8	56,4	60,9	56,9	57,2	57,4	60,9	60,9
LNO KIT %70	**Cooling capacity (1)**	kW	**102**	**119**	**128**	**132**	**145**	**156**	**161**	**162**
	Unit power input	kW	36,6	42,5	44,6	47,0	50,2	55,5	58,1	58,3
	Total air flow	m³/h	27258	37338	37338	37338	41510	41510	41510	41510
	EER - Eurovent standard (1)	kW/kW	2,79	2,80	2,87	2,81	2,89	2,81	2,77	2,78
	Sound power level [Lw] (2)	dB(A)	76,2	72,7	78,5	73,4	74,2	74,6	78,9	78,9
	Average sound pressure level [LPm] (3)	dB(A)	58,1	54,5	60,3	55,2	55,6	56,0	60,3	60,3
ELN KIT	**Cooling capacity (1)**	kW	**102**	**119**	**128**	**132**	**145**	**156**	**161**	**162**
	Unit power input	kW	36,6	42,5	44,6	47,0	50,2	55,5	58,1	58,3
	Total air flow	m³/h	27258	37338	37338	37338	41510	41510	41510	41510
	EER - Eurovent standard (1)	kW/kW	2,79	2,80	2,87	2,81	2,89	2,81	2,77	2,78
	Sound power level [Lw] (2)	dB(A)	74,2	70,7	76,5	71,4	72,2	72,6	76,9	76,9
	Average sound pressure level [LPm] (3)	dB(A)	56,1	52,5	58,3	53,2	53,6	54,0	58,3	58,3

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²°K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [LPm] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with fl exible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution.
Fouling factor of the exchangers 0,043 m²°K/kW.
6. Referred to chilled water temperature 12 / 7°C – 0% glycol solution; water temperature heat recovery 40 / 45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m²°K/kW.

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	KELVIN Clim A108		184 P4 D WH	190 P4 D VT2	214 P4 D VT2	236 P4 D VT2	270 P4 D VT3	304 P4 D VT3	340 P4 D VT3	374 P4 D VT4
	SIZE									
STANDARD	**Cooling capacity (1)**	kW	**185**	**189**	**218**	**235**	**271**	**308**	**344**	**372**
	Unit power input	kW	59,3	60,6	69,9	76,3	85,8	98,7	109,9	118,1
	Evaporator water flow rate	m³/h	31,8	32,4	37,5	40,3	46,6	52,9	59,0	63,9
	Evaporator pressure drop	kPa	35	43	38	38	33	43	35	41
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	4	4	4	4	4	4	4	4
	Capacity steps	n.	4	4	4	4	4	4	4	4
	Axial fans	n.	6	4	4	4	6	6	6	8
	Total air flow	m³/h	59300	84720	84720	84720	127080	127080	127080	169440
	Air circuits	n.	2	2	2	2	2	2	2	2
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	25,0	19,0	19,4	20,2	27,8	27,8	28,3	36,2
	Gas circuits	n.	2	2	2	2	2	2	2	2
	Power supply	V/Ph/Hz	+50/3/400N	50/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/400
	Max unit operating current (FLA)	A	163,7	171,8	189,6	202,2	228,3	264,0	299,7	325,7
	Unit starting current (LRA)	A	266,9	348,6	404,6	416,6	441,4	495,4	529,4	635,2
	EER - Eurovent standard (1)	kW/kW	3,12	3,12	3,12	3,08	3,16	3,12	3,13	3,15
	ESEER		4,32	4,45	4,49	4,37	4,41	4,53	4,53	4,37
	Sound power level [Lw] (2)	dB(A)	85,7	94,5	96,7	97,8	99,7	99,7	99,7	101,6
	Average sound pressure level [LPm] (3)	dB(A)	67,1	75,7	77,9	79,0	80,2	80,2	80,2	81,6
	Net weight	kg	1390	1906	1956	2142	2638	2685	2727	3221
	Hydraulic connections									
	Evaporator IN/OUT - OD (4)	Ø mm	76,1	88,9	88,9	88,9	88,9	88,9	88,9	114,3
OPTIONAL	**Partial heat recovery-Heating capacity(5)**	kW	**68,0**	**69,2**	**80,0**	**86,1**	**99,6**	**113,0**	**126,0**	**137,0**
	Total heat recovery-Heating capacity(6)	kW	**241**	**238**	**278**	**303**	**341**	**391**	**441**	**439**
	EC axial fans									
	Power input	kW	2,3	5,1	5,1	5,1	7,7	7,7	7,7	10,2
	Max external static pressure	Pa	0	80	80	80	80	80	80	80
	Pumping group									
	Low discharge head - Power input	kW	3,3	6,1	6,1	6,1	6,1	6,1	6,1	7,8
	Medium discharge head - Power input	kW	4,6	7,8	7,8	7,8	7,8	7,8	7,8	10,3
	High discharge head - Power input	kW	6,1	10,3	10,3	10,3	10,3	10,3	10,3	13,8
	Water tank - volume	l	200	130	130	130	190	190	190	330
LNO KIT %100	**Cooling capacity (1)**	kW	**185**	**189**	**218**	**235**	**271**	**308**	**344**	**372**
	Unit power input	kW	59,3	60,6	69,9	76,3	85,8	98,7	109,9	118,1
	Total air flow	m³/h	59300	84720	84720	84720	127080	127080	127080	169440
	EER - Eurovent standard (1)	kW/kW	3,12	3,12	3,12	3,08	3,16	3,12	3,13	3,15
	Sound power level [Lw] (2)	dB(A)	79,5	81,6	82,6	83,2	85,0	85,0	85,0	86,5
	Average sound pressure level [LPm] (3)	dB(A)	60,9	62,8	63,8	64,4	65,5	65,5	65,5	66,5
LNO KIT %85	**Cooling capacity (1)**	kW	**181**	**186**	**214**	**230**	**267**	**302**	**337**	**366**
	Unit power input	kW	60,9	61,2	70,9	77,7	86,4	99,7	112,3	118,1
	Total air flow	m³/h	50405	72012	72012	72012	108018	108018	108018	144024
	EER - Eurovent standard (1)	kW/kW	2,97	3,04	3,02	2,96	3,09	3,03	3,00	3,10
	Sound power level [Lw] (2)	dB(A)	78,1	79,5	81,0	81,8	83,6	83,6	83,6	85,4
	Average sound pressure level [LPm] (3)	dB(A)	59,5	60,6	62,2	63,0	64,2	64,2	64,2	65,4
LNO KIT %70	**Cooling capacity (1)**	kW	**174**	**181**	**208**	**222**	**261**	**295**	**326**	**358**
	Unit power input	kW	63,7	62,4	72,7	80,1	87,9	102,1	114,8	120,1
	Total air flow	m³/h	41510	59304	59304	59304	88956	88956	88956	118608
	EER - Eurovent standard (1)	kW/kW	2,73	2,90	2,86	2,77	2,97	2,89	2,84	2,98
	Sound power level [Lw] (2)	dB(A)	77,3	78,0	80,0	81,0	82,9	82,9	82,9	84,8
	Average sound pressure level [LPm] (3)	dB(A)	58,7	59,2	61,2	62,2	63,4	63,4	63,4	64,7
ELN KIT	**Cooling capacity (1)**	kW	**174**	**181**	**208**	**222**	**261**	**295**	**326**	**358**
	Unit power input	kW	63,7	62,4	72,7	80,1	87,9	102,1	114,8	120,1
	Total air flow	m³/h	41510	59304	59304	59304	88956	88956	88956	118608
	EER - Eurovent standard (1)	kW/kW	2,73	2,90	2,86	2,77	2,97	2,89	2,84	2,98
	Sound power level [Lw] (2)	dB(A)	75,3	76,0	78,0	79,0	80,9	80,9	80,9	82,8
	Average sound pressure level [LPm] (3)	dB(A)	56,7	57,2	59,2	60,2	61,4	61,4	61,4	62,7

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m^2°K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [LPm] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with fl exible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution.
Fouling factor of the exchangers 0,043 m^2°K/kW.
6. Referred to chilled water temperature 12 / 7°C – 0% glycol solution; water temperature heat recovery 40 / 45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m^2°K/kW.

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	KELVIN Clim A108		390 P4 D	410 P4 D	430 P4 D	455 P6 T	504 P6 T	530 P6 T	550 P6 T	584 P6 T
	SIZE		VT4	VT4	VT4	VT5	VT5	VT5	VT5	VT6
STANDARD	**Cooling capacity (1)**	kW	**394**	**413**	**438**	**469**	**522**	**540**	**563**	**592**
	Unit power input	kW	125,9	132,4	140,4	147,9	162,6	174,2	181,0	191,0
	Evaporator water flow rate	m³/h	67,6	70,9	75,2	89,5	101,0	101,0	103,0	123,0
	Evaporator pressure drop	kPa	35	39	38	38	35	38	40	45
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	4	4	4	6	6	6	6	6
	Capacity steps	n.	4	4	4	6	6	6	6	6
	Axial fans	n.	8	8	8	9	9	10	10	12
	Total air flow	m³/h	169440	169440	169440	211800	211800	211800	211800	254160
	Air circuits	n.	2	2	2	3	3	3	3	3
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	36,2	36,3	36,3	41,7	42,4	46,6	46,6	54,4
	Gas circuits	n.	2	2	2	3	3	3	3	3
	Power supply	V/Ph/Hz	50/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/400
	Max unit operating current (FLA)	A	343,6	361,4	379,3	400,1	452,6	471,5	489,3	515,3
	Unit starting current (LRA)	A	652,2	670,2	687,2	625,0	676,0	774,0	791,0	815,8
	EER (1)	kW/kW	3,13	3,12	3,12	3,17	3,21	3,10	3,11	3,10
	ESEER		4,40	4,43	4,48	4,55	4,69	4,56	4,60	4,48
	Sound power level [Lw] (2)	dB(A)	102,6	103,4	104,1	102,5	102,5	103,4	104,2	105,3
	Average sound pressure level [LPm] (3)	dB(A)	82,6	83,4	84,1	82,0	82,0	82,9	83,7	84,3
	Net weight	kg	3267	3286	3305	4355	4554	4573	4592	5144
	Hydraulic connections									
	Evaporator IN/OUT - OD (4)	Ø mm	114,3	114,3	114,3	168,3	219,1	219,1	219,1	219,1
OPTIONAL	**Partial heat recovery-Heating capacity(5)**	kW	**145,0**	**152,0**	**161,0**	**172,0**	**192,0**	**198,0**	**207,0**	**217,0**
	Total heat recovery-Heating capacity(6)	kW	-	-	-	-	-499	525	559	
	EC axial fans									
	Power input	kW	10,2	10,2	10,2	12,8	12,8	12,8	12,8	15,4
	Max external static pressure	Pa	80	80	80	80	80	80	80	80
	Pumping group									
	Low discharge head - Power input	kW	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8
	Medium discharge head - Power input	kW	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3
	High discharge head - Power input	kW	13,8	13,8	13,8	13,8	13,8	13,8	13,8	13,8
	Water tank - volume	l	330	330	330	–	–	–	–	--
LNO KIT %100	**Cooling capacity (1)**	kW	**394**	**413**	**438**	**469**	**522**	**540**	**563**	**592**
	Unit power input	kW	125,9	132,4	140,4	147,9	162,6	174,2	181,0	191,0
	Total air flow	m³/h	169440	169440	169440	211800	211800	211800	211800	254160
	EER (1)	kW/kW	3,13	3,12	3,12	3,17	3,21	3,10	3,11	3,10
	Sound power level [Lw] (2)	dB(A)	87,2	87,8	88,3	87,4	87,4	88,0	88,6	89,5
	Average sound pressure level [LPm] (3)	dB(A)	67,2	67,8	68,3	66,9	66,9	67,5	68,1	68,6
LNO KIT %85	**Cooling capacity (1)**	kW	**387**	**405**	**429**	**464**	**514**	**530**	**553**	**583**
	Unit power input	kW	127,3	134,1	141,6	148,2	165,3	176,7	183,7	192,4
	Total air flow	m³/h	144024	144024	144024	180030	180030	180030	180030	216036
	EER (1)	kW/kW	3,04	3,02	3,03	3,13	3,11	3,00	3,01	3,03
	Sound power level [Lw] (2)	dB(A)	86,2	87,0	87,6	86,3	86,3	87,1	87,7	88,8
	Average sound pressure level [LPm] (3)	dB(A)	66,2	66,9	67,6	65,7	65,7	66,5	67,2	67,8
LNO KIT %70	**Cooling capacity (1)**	kW	**377**	**394**	**416**	**455**	**501**	**517**	**538**	**570**
	Unit power input	kW	130,0	137,3	145,5	151,2	169,8	181,4	189,4	195,9
	Total air flow	m³/h	118608	118608	118608	148260	148260	148260	148260	177912
	EER (1)	kW/kW	2,90	2,87	2,86	3,01	2,95	2,85	2,84	2,91
	Sound power level [Lw] (2)	dB(A)	85,7	86,5	87,2	85,6	85,6	86,5	87,3	88,4
	Average sound pressure level [LPm] (3)	dB(A)	65,7	66,5	67,2	65,1	65,1	66,0	66,8	67,4
ELN KIT	**Cooling capacity (1)**	kW	**377**	**394**	**416**	**455**	**501**	**517**	**538**	**570**
	Unit power input	kW	130,0	137,3	145,5	151,2	169,8	181,4	189,4	195,9
	Total air flow	m³/h	118608	118608	118608	148260	148260	148260	148260	177912
	EER (1)	kW/kW	2,90	2,87	2,86	3,01	2,95	2,85	2,84	2,91
	Sound power level [Lw] (2)	dB(A)	83,7	84,5	85,2	83,6	83,6	84,5	85,3	86,4
	Average sound pressure level [LPm] (3)	dB(A)	63,7	64,5	65,2	63,1	63,1	64,0	64,8	65,4

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²°K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [LPm] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with fl exible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution.
Fouling factor of the exchangers 0,043 m²°K/kW.
6. Referred to chilled water temperature 12 / 7°C – 0% glycol solution; water temperature heat recovery 40 / 45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m²°K/kW.

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	KELVIN Clim A108		604 P6 T	646 P6 T	670 P8 Q	726 P8 Q	780 P8 Q	820 P8 Q	860 P8 Q
	SIZE		VT6	VT6	VT6	VT7	VT7	VT8	VT8
STANDARD	**Cooling capacity (1)**	kW	**615**	**654**	**690**	**744**	**769**	**832**	**877**
	Unit power input	kW	197,1	210,3	221,9	238,5	249,7	265,8	281,1
	Evaporator water flow rate	m³/h	123,0	124,0	140,0	141,0	144,0	163,0	167,0
	Evaporator pressure drop	kPa	47	52	33	39	41	39	39
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	6	6	8	8	8	8	8
	Capacity steps	n.	6	6	8	8	8	8	8
	Axial fans	n.	12	12	12	14	14	16	16
	Total air flow	m³/h	254160	254160	254160	296520	296520	338880	338880
	Air circuits	n.	3	3	4	4	4	4	4
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	54,4	54,4	56,6	64,6	64,7	72,5	72,6
	Gas circuits	n.	3	3	4	4	4	4	4
	Power supply	V/Ph/Hz	50/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/400
	Max unit operating current (FLA)	A	533,2	569,9	598,3	643,2	678,9	722,8	759,6
	Unit starting current (LRA)	A	833,8	867,8	814,8	937,6	971,6	1014,4	1048,4
	EER (1)	kW/kW	3,12	3,11	3,11	3,12	3,08	3,13	3,12
	ESEER		4,51	4,55	4,66	4,57	4,56	4,58	4,61
	Sound power level [Lw] (2)	dB(A)	105,9	106,8	104,5	107,8	106,9	108,1	108,8
	Average sound pressure level [LPm] (3)	dB(A)	84,9	85,9	83,2	86,4	85,6	86,4	87,1
	Net weight	kg	5163	5201	5569	6467	6505	6583	6621
	Hydraulic connections								
	Evaporator IN/OUT - OD (4)	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1	219,1
OPTIONAL	**Partial heat recovery-Heating capacity(5)**	kW	**226,0**	**240,0**	**253,0**	**273,0**	**282,0**	**305,0**	**322,0**
	Total heat recovery-Heating capacity(6)	kW	-	-	-	-	-	-	-
	EC axial fans								
	Power input	kW	15,4	15,4	15,4	17,9	17,9	20,5	20,5
	Max external static pressure	Pa	80	80	80	80	80	80	80
	Pumping group								
	Low discharge head - Power input	kW	11,4	11,4	11,4	11,4	11,4	11,4	11,4
	Medium discharge head - Power input	kW	20,0	20,0	20,0	20,0	20,0	20,0	20,0
	High discharge head - Power input	kW	26,5	26,5	26,5	26,5	26,5	26,5	26,5
	Water tank - volume	l	–	–	--	–	–	--	–
LNO KIT %100	**Cooling capacity (1)**	kW	**615**	**654**	**690**	**744**	**769**	**832**	**877**
	Unit power input	kW	197,1	210,3	221,9	238,5	249,7	265,8	281,1
	Total air flow	m³/h	254160	254160	254160	296520	296520	338880	338880
	EER (1)	kW/kW	3,12	3,11	3,11	3,12	3,08	3,13	3,12
	Sound power level [Lw] (2)	dB(A)	90,0	90,7	89,2	91,6	90,9	92,0	92,6
	Average sound pressure level [LPm] (3)	dB(A)	69,0	69,8	67,8	70,2	69,6	70,3	70,8
LNO KIT %85	**Cooling capacity (1)**	kW	**605**	**645**	**678**	**732**	**754**	**818**	**861**
	Unit power input	kW	199,0	212,9	226,0	241,6	253,0	269,1	284,2
	Total air flow	m³/h	216036	216036	216036	252042	252042	288048	288048
	EER (1)	kW/kW	3,04	3,03	3,00	3,03	2,98	3,04	3,03
	Sound power level [Lw] (2)	dB(A)	89,3	90,1	88,2	91,1	90,3	91,4	92,1
	Average sound pressure level [LPm] (3)	dB(A)	68,3	69,2	66,8	69,7	68,9	69,7	70,3
LNO KIT %70	**Cooling capacity (1)**	kW	**591**	**628**	**659**	**714**	**736**	**798**	**838**
	Unit power input	kW	204,5	218,8	232,9	247,1	261,0	275,2	291,0
	Total air flow	m³/h	177912	177912	177912	207564	207564	237216	237216
	EER (1)	kW/kW	2,89	2,87	2,83	2,89	2,82	2,90	2,88
	Sound power level [Lw] (2)	dB(A)	88,9	89,9	87,7	90,8	90,0	91,2	91,8
	Average sound pressure level [LPm] (3)	dB(A)	68,0	68,9	66,3	69,4	68,6	69,4	70,1
ELN KIT	**Cooling capacity (1)**	kW	**591**	**628**	**659**	**714**	**736**	**798**	**838**
	Unit power input	kW	204,5	218,8	232,9	247,1	261,0	275,2	291,0
	Total air flow	m³/h	177912	177912	177912	207564	207564	237216	237216
	EER (1)	kW/kW	2,89	2,87	2,83	2,89	2,82	2,90	2,88
	Sound power level [Lw] (2)	dB(A)	86,9	87,9	85,7	88,8	88,0	89,2	89,8
	Average sound pressure level [LPm] (3)	dB(A)	66,0	66,9	64,3	67,4	66,6	67,4	68,1

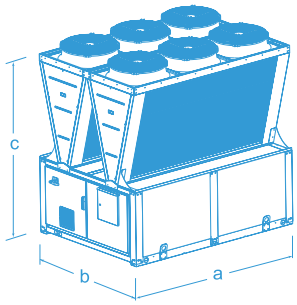
1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 $m^{2o}K/kW$.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [LPm] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with fl exible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution.
Fouling factor of the exchangers 0,043 $m^{2o}K/kW$.
6. Referred to chilled water temperature 12 / 7°C – 0% glycol solution; water temperature heat recovery 40 / 45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 $m^{2o}K/kW$.

DIMENSIONS (mm)

KELVIN Clim A108

SIZE W

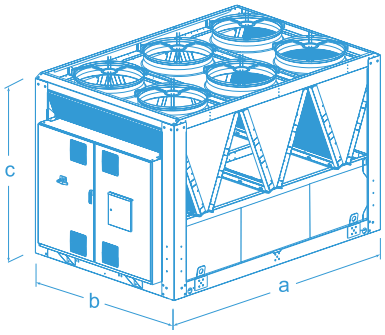
	a	b	c
WL	2565	1794	2110
WH	2565	1794	2410



KELVIN Clim A108

SIZE VT

	a	b	c
VT2	2480	2260	2305
VT3	3600	2260	2305
VT4	4716	2260	2305
VT5	5830	2260	2305
VT6	6955	2260	2305
VT7	8075	2260	2305
VT8	9195	2260	2305




KELVIN
Air Conditioning System