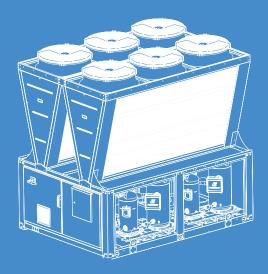






KELVIN Clim A108

Cooling Capacity: 108 ~ 877 kW























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

























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.
- ${\boldsymbol{\cdot}}$ 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 fins 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 efficiency 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

FRAMFWORK

- 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
- · 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
- 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	wн	wн	WH	ŴН	wн	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 - Analogic Howittelet				•		•			•		
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

Kelvin air conditioning-- KELVIN Clim A108

OPTIONAL ACCESSORIES

522 - Low discharge head single pump 723 - Low discharge head single pump 723 - Low discharge head single pump 724 - Hedium discharge head sting pump 721 - Hedium discharge head sting pump 721 - Hedium discharge head sting pump 721 - Hedium discharge head sting pump 722 - Low discharge head sting pump 723 - Low discharge head sting pump 724 - Hejh discharge head sting pump 725 - Hejh discharge head sting pump 726 - Hejh discharge head sting pump 727 - Hejh discharge head sting pump 727 - Hejh discharge head sting pump 728 - Valer tank + 2 pumps with low discharge head 728 - Valer tank + 2 pumps with low discharge head 728 - Valer tank + 2 pumps with low discharge head 729 - Valer tank + 2 pumps with low discharge head 720 - Valer tank + 2 pumps with low discharge head 720 - Valer tank + 2 pumps with low discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 720 - Valer tank + 2 pumps with ligh discharge head 721 - Valer tank + 2 pumps with ligh discharge head 722 - Valer tank + 2 pumps with ligh discharge head 723 - Valer tank + 2 pumps with light discharge head 724 - Valer tank + 2 pumps with light discharge head 725 - Valer tank + 2 pumps with light discharge head 726 - Valer tank + 2 pumps with light discharge head 727 - Valer tank + 2 pumps with light discharge head 728 - Valer tank + 2 pumps with light discharge head 729 - Valer tank + 2 pumps with light discharge head 720 - Valer tank + 2 pumps with light discharge head 720 - Valer tank + 2 pumps with light discharge head 720 - Valer tank + 2 pumps with light discharge head 720 - Vale	KELVIN Clim A108	236 P4	270 P4	304 P4	340 P4	374 P4	390 P4	410 P4	430 P4	455 P6	504 P6
722 - Low discharge head strip pump 723 - Modium discharge head twin pump 724 - Medium discharge head strip pump 725 - Heigh discharge head strip pump 726 - Heigh discharge head strip pump 727 - Weiter tank * 1 pump with low discharge head 727 - Weiter tank * 1 pump with low discharge head 728 - Weiter tank * 1 pump with low discharge head 729 - Weiter tank * 1 pump with low discharge head 729 - Weiter tank * 1 pump with low discharge head 726 - Weiter tank * 1 pump with low discharge head 729 - Weiter tank * 1 pump with low discharge head 729 - Weiter tank * 2 pumps with low discharge head 720 - Weiter tank * 2 pumps with low discharge head 740 - Weiter tank * 2 pumps with low discharge head 750 - Weiter tank * 2 pumps with low discharge head 750 - Weiter tank * 2 pumps with low discharge head 750 - Weiter tank * 2 pumps with low discharge head 750 - Weiter tank * 2 pumps with low discharge head 750 - Weiter tank * 2 pumps with low discharge head 750 - No Weiter tank * 2 pumps with low discharge head 750 - No Weiter tank * 2 pumps with low discharge head 750 - No Weiter tank * 2 pumps with low discharge head 750 - No Weiter tank * 2 pumps with low discharge head 750 - No Weiter tank * 3 pumps discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharge head 750 - No Weiter tank * 4 pumps with low discharg											
723 - Low discharge head twin pump 721 - Medium discharge head win pump 721 - High discharge head win pump 723 - Medium discharge head win pump 723 - Medium discharge head win pump 726 - Water tank + 2 pumps with low discharge head 728 - Water tank + 2 pumps with might discharge head 726 - Water tank + 2 pumps with might discharge head 726 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discha		VT2				VT4		VT4			VT5
720 - Medium discharge head single jump 721 - High discharge head single jump 727 - Water tank * 1 jump with low discharge head 727 - Water tank * 2 jump with low discharge head 728 - Water tank * 2 jump with low discharge head 728 - Water tank * 2 jump with low discharge head 729 - Water tank * 1 jump with medium discharge head 729 - Water tank * 2 jump with high discharge head 729 - Water tank * 1 jump with high discharge head 729 - Water tank * 1 jump with high discharge head 739 - Water tank * 2 jump with high discharge head 730 - Water tank * 2 jump with high discharge head 730 - Water tank * 2 jump with high discharge head 740 - Water tank * 2 jump with high discharge head 740 - Water tank * 2 jump with high discharge head 740 - Water tank * 2 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 740 - Water tank * 1 jump with high discharge head 741 - Water tank * 2 jump with high discharge head 742 - Water tank * 2 jump with high discharge head 743 - Water tank * 2 jump with high discharge head 744 - Water tank * 2 jump with high discharge head 745 - Water tank * 2 jump with high discharge head 746 - Partial heat recovery 746 - Partial heat recovery 747 - Partial heat recovery 748 - Water tank * 2 jump with high discharge head 749 - Water tank * 2 jump with high discharge head 740 - Partial heat recovery 740 - Partial heat recovery 740 - Partial heat recovery 741 - Partial heat recovery 742 - Partial heat recovery 743 - Partial heat recovery 744 - Partial heat heat recovery water pump activation 744 - Partial heat recovery 745 - Partial heat recovery 745 - Partial heat recover		•	•		•	•		•	•	•	•
721 - Hedrium discharge head with pump 721 - High discharge head with pump 721 - High discharge head with pump 723 - Valter tank + 2 pumps with low discharge head 728 - Valter tank + 2 pumps with low discharge head 728 - Valter tank + 2 pumps with low discharge head 726 - Valter tank + 2 pumps medium discharge head 726 - Valter tank + 2 pumps medium discharge head 730 - Valter tank + 2 pumps with high discharge head 730 - Valter tank + 2 pumps with hig											•
729 - High discharge head to injump 727 - Water tank + 1 pumps with low discharge head 727 - Water tank + 2 pumps with low discharge head 728 - Water tank + 2 pumps with medium discharge head 729 - Water tank + 2 pumps with mid discharge head 729 - Water tank + 2 pumps with mid discharge head 729 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 748 - Water tank + 2 pumps with high discharge head 750 - LNO kit (note reduction) 750 - LNO kit (note reduction) 750 - LNO kit (note reduction) 751 - Elbit (extremely noise reduction) 751 - Elbit (extremely noise reduction) 751 - Spring antivortation holders (kit) 751 - Robber antivortation holders (kit) 752 - Electrical panel heating system 753 - Electrical panel heating system 754 - Valtage free ontact for parallel heat recovery water pump advisition 755 - Partial heat recovery 754 - Valtage free ontact for ital heat recovery water pump advisition 754 - Shell and table evaporator for low temperature 755 - Water factor and the evaporator for low temperature 755 - Kit in First Partial Partial Robber (1981) 755 - Camper, power factor capacitor - 0.9 756 - Camper, power factor capacitor - 0.9 757 - Partial hands get point compression 758 - Partial hands get point compression 759 - Partial hands get point compression 750 - Partial hands get point compression 750 - Partial Par											•
721 - High discharge head Winn jump 728 - Water tank + 2 pumps with low discharge head 728 - Water tank + 2 pumps with own discharge head 726 - Water tank + 2 pumps medium discharge head 726 - Water tank + 2 pumps medium discharge head 726 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high disch											•
727 - Water tank - 1 pumps with low discharge head 725 - Water tank - 2 pumps with low discharge head 725 - Water tank - 2 pumps with low discharge head 726 - Water tank - 2 pumps with low discharge head 727 - Water tank - 1 pumps with low discharge head 728 - Water tank - 1 pumps with low discharge head 729 - Water tank - 2 pumps with logh discharge head 730 - Water tank - 2 pumps with logh discharge head 730 - Water tank - 2 pumps with logh discharge head 730 - Water tank - 2 pumps with logh discharge head 730 - Water tank - 2 pumps with logh discharge head 730 - LNO it rinders reduction 730 - Self in the first reduction production prod											•
728 - Water tank + 2 pumps with low discharge head 726 - Water tank + 2 pumps medium discharge head 726 - Water tank + 2 pumps medium discharge head 730 - Water tank + 2 pumps with high discharge head 731 - Water tank + 2 pumps with high discharge head 732 - Water tank + 2 pumps with high discharge head 733 - Water tank + 2 pumps with high discharge head 734 - Water tank + 2 pumps with high discharge head 735 - Water tank + 2 pumps with high discharge head 736 - Pumps with high dis											•
### 725 - Water tank + 1 pump with medium discharge head ### 726 - Water tank + 2 pumps with migh discharge head ### 727 - Water tank + 2 pumps with high discharge head ### 728 - Water tank + 2 pumps with high discharge head ### 728 - Water tank + 2 pumps with high discharge head ### 729 - Water tank + 2 pump											-
728 - Water tank + 2 pumps medium discharge head 739 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Partial heat recovery 730 - Partial heat recovery water pump advation 730 - Partial heat recovery water pump advation 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 730 - Water tank + 2 pumps with high discharge head 7					•			•			-
729 - Walter tank + 1 pumps with high discharge head - 1003 - Antificezing heater for pumping group 150 - LNO kit (roise reduction) 151 - END kit (roise reduction) 152 - END kit (roise reduction) 153 - END kit (roise reduction) 170 - Spring antivibration holders (kit) 170 - Spring antivibration holders (kit) 170 - Spring antivibration holders (kit) 181 - Kit brine A (for glycol solution production up to "6-C) 181 - Kit brine A (for glycol solution production up to "6-C) 191 - Kit brine B (for glycol solution production up to "6-C) 191 - Kit brine B (for glycol solution production up to "6-C) 191 - Kit brine B (for glycol solution production up to "6-C) 191 - Kit brine B (for glycol solution production up to "70-C) 193 - Kit brine B (for glycol solution production up to "70-C) 193 - Kit brine B (for glycol solution production up to "70-C) 194 - Kit brine B (for glycol solution production up to "70-C) 195 - Kit brine B (for glycol solution production up to "70-C) 195 - Kit brine B (for glycol solution production up to "70-C) 195 - Kit brine B (for glycol solution production up to "70-C) 195 - Sinel and the evaporation of the solution		-			•	•		•			-
730 - Water tank + 2 pumps with high discharge head				•	•		•	•			-
1604 - Authreszing leater for pumping group 151 - EUN kit (extremely noise reduction) 151 - EUN kit (extremely noise reduction) 170 - Spring antivibration holders (kit) 171 - Rubber antivibration holders (kit) 171 - Rubber antivibration holders (kit) 171 - Rubber antivibration holders (kit) 172 - Rubber antivibration holders (kit) 173 - Rubber antivibration holders (kit) 174 - Rubber antivibration holders (kit) 175 - Rubber antivibration holders (kit) 176 - Strain for spring holders (kit) 177 - Pellechrical panel healing system 170 - Spring holders (kit) 178 - Rubber and holders (kit) 179 - Rubber and holders (kit) 179 - Rubber and holders (kit) 179 - Rubber and holders (kit) 170 - Spring holders (kit) 170 - Sprin		•	•	•	•	•	•	•	•	-	-
150 - LNO kit (noise reduction) 170 - Spring antivibration holders (kit) 171 - Rubber antivibration holders (kit) 181 - Kit brine B (for glycol solution production up to "6-C) 189 - Kit brine B (for glycol solution production up to "12-C) 29 - Electrical panel heating system 101 - EC fan 430 - Partial heat recovery 451 - Voltage free contact for partial heat recovery water pump activation 459 - Shell and tube evaporator 459 - Shell and tube evaporator for low temperature 350 - Kit TN PRO corrosion resistant panning treatment 350 - Kit TN PRO corrosion resistant panning treatment 350 - Kit TN PRO corrosion resistant panning treatment 350 - Compr. power factor capacitor - 0,9 1002 - Soft Salarer 352 - Anti-inturion soft for each compressor 353 - Anti-inturion soft for each compressor 354 - Anti-inturion soft for each compressor 355 - Anti-inturion soft for each compressor 356 - Anti-inturion soft for each compressor 357 - Anti-inturion soft for each compressor 358 - Anti-inturion soft for each compressor 359 - Anti-inturion soft for each compressor 350 - Anti-inturion soft for each compressor 360 - Anti-inturion soft for each compressor 361 - Anti-inturion soft for each compressor 362 - Anti-inturion soft for each compressor 363 - Anti-inturion soft for each compressor 364 - Anti-inturion soft for each compressor 365 - Demand limit 364 - Pressure gauge on high and low pressure 365 - Demand limit 365 - Anti-inturion soft for each compressor 367 - Palamator for more for each compressor 368 - Anti-inturion each compressor 379 - Return for each compressor 380 - Return for each compressor 381 - Palase sequence control 382 - BAChert MSTP Serial board 383 - Return for each compr		•	•	•	•	•	•	•	•	-	-
151 = ELIN Ril (extremely noise reduction) 171 - Rubber entirubration holders (kit) 171 - Rubber entirubration holders (kit) 171 - Rubber entirubration holders (kit) 173 - Rubber entirubration holders (kit) 173 - Rubber entirubration holders (kit) 174 - Rubber entirubration holders (kit) 175 - Rubber entirubration holders (kit) 175 - Rubber entirubration holders (kit) 176 - Rubber entirubration holders (kit) 177 - Rubber entirubration holders (kit) 178 - Rubber entirubration holders (kit) 179 - Rubber entirubration holders (kit) 170 - Rubber entirubration holders		•	•	•	•	•	•	•	•	•	•
170 - Spring antivibration holders (kit) 171 - Rubber antivibration holders (kit) 172 - Electrical panel heading system 170 - Pedrital heat recovery 170 - Spring antivibration of the panel head recovery water pump activation 170 - Spring and the evaporator of the person of the panel head of the		•	•	•	•	•	•	•	•	•	•
171 - Rubber entiribration holders (Rif) 181 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution production up to °F-C) 119 - Rif brine B (for alycol solution up to °F-C) 119 - Rif brine B (for alyc		•	•	•	•	•	•	•	•	•	•
118 - Kit brine A. (for glycol solution production up to "5-C) 119 - Kit brine B. (for glycol solution production up to "12-C) 73 - Electrical panel heating system 101 - EC Iran 103 - Parlial heat recovery 104 - Valtage free contact for partial heat recovery water pump activation 105 - Parlial heat recovery 100 - 451 heat recovery 100 - 454 - Valtage free contact for total heat recovery water pump activation 100 - 458 - 451 heat recovery 100 - 459 - 451 heat recovery 150 - 451 heat recovery 15	170 - Spring antivibration holders (kit)	•	•	•	•	•	•	•	•	•	•
119 - Kit brine B (for glycol solution production up to *12-C) 79 - Electrical panel heating system 101 - EC (fan 450 - Partial heat recovery 450 - Partial heat recovery 450 - Partial heat recovery 451 - Valtage free contact for partial heat recovery water pump activation 450 - Shell and tube evaporator 450 - Shell and tube evaporator 450 - Shell and tube evaporator for low temperature 350 - Kit TK PRO corrosion resistant painting freatment 252 - Anti-intrusion net 650 - Compr. power factor capacitor - 0,9 1002 - Soft Starter 35 - Compressor operation indicator 32 - Magnetothermic switch for each compressor 32 - Magnetothermic switch for each compressor 32 - Magnetothermic switch for each compressor 32 - Pressure gause on high and low pressure 4 - Pressure gause on high and low pressure 4 - Ambient temperature sensor 5 - Demand limit 81 - Phases sequence control 1003 - Analogic flowmeter 1009 - William and a stemand a stem		•	•	•	•	•	•	•	•	•	•
79 - Electrical panel heating system 101 - EC fan 400 - Parilal heat recovery 493 - Voltage free contact for partial heat recovery water pump activation 4949 - Voltage free contact for partial heat recovery water pump activation 495 - Shell and tube evaporator of the state for total heat recovery water pump activation 495 - Shell and tube evaporator for low temperature 305 - Shell and tube evaporator for low temperature 305 - Shell and tube evaporator for low temperature 305 - Shell and tube evaporator for low temperature 305 - Shell and tube evaporator for low temperature 306 - Compr. power factor capacitor - 0,9 1002 - Soit Starter 307 - Compr. power factor capacitor - 0,9 1002 - Soit Starter 308 - Compressor operation indicator 309 - Magnetothermic switch for each compressor 309 - Moster proposed for the seaf compressor 300 - Shell seafly valve 300 - Shell seafly valve 300 - Shell seafly valve 301 - Death of the seafly valve 302 - Parssure gauge on high and low pressure 401 - Mobile safety valve 303 - Roman sequence control 304 - Additional external alarm 305 - Compressor operation indicator 307 - Shell seafly valve 308 - Analogic flowmeter 309 - Moster plant external alarm 309 - Additional external alarm 309 - Additional external alarm 309 - Additional external alarm 309 - Roman graphic terminal kit 309 - Roman graph search graph graph graph graph graph graph graph graph gr	118 - Kit brine A (for glycol solution production up to °6-C)	•	•	•	•	•	•	•	•	•	•
101 - EC fan 450 - Partial heat recovery 449 - Vottage free contact for partial heat recovery 449 - Vottage free contact for partial heat recovery 449 - Vottage free contact for total heat recovery 545 - Vottage free contact for total heat recovery 545 - Vottage free contact for total heat recovery water pump activation 545 - Shell and tube evaporator 546 - Shell and tube evaporator 546 - Shell and tube evaporator for low temperature 546 - Shell and tube evaporator for low temperature 546 - Shell and tube evaporator for low temperature 546 - Shell and tube evaporator for low temperature 546 - Shell and tube evaporator for low temperature 547 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low temperature 548 - Shell and tube evaporator for low		•	•	•	•	•	•	•	•	•	•
459 - Partial heat recovery 49 - Voltage free contact for partial heat recovery water pump activation 490 - Voltage free contact for total heat recovery water pump activation 490 - Shell and tube evaporator		•	•	•	•	•	•	•	•	•	•
449 - Voltage free contact for partial heat recovery	101 - EC fan	•	•	•	•	•	•	•	•	•	•
Satisfies Sati	450 - Partial heat recovery	•	•	•	•	•	•	•	•	•	•
454 - Voltage free contact for total heat recovery water pump activation 459 - Shell and tube evaporator 469 - 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 33 - Compressor operation indicator 33 - Compressor operation indicator 38 - Compressor operation indicator 38 - Magnetothermic switch for each compressor 5ervice valve on compressor group suction 88 - Analog set point compensation 211 - Double safety valve 212 - Pressure gauge on high and low pressure Ambient temperature sensor 401 - Phases sequence control 1003 - Analogic flowmeter 1003 - Analogic flowmeter 1004 - Additional external alarm 252 - KELVIN-Com MBUS/IBUS Serial board 253 - Beand Illingt 253 - RELVIN-Com MBUS/IBUS Serial board 254 - Additional external alarm 255 - Beand Illingt 265 - Despiration of the serial board 267 - Plantwatch Without modem 268 - LON Serial board 275 - Plantwatch without modem 276 - Plantwatch without modem 277 - Plantwatch without modem 278 - Milmoter Kit 287 - Plantwatch without modem 288 - Master plant SEQUENCER	449 - Voltage free contact for partial heat recovery water pump activation	•	•	•	•	•	•	•	•	•	•
593 - Shell and tube evaporator - - - - - - - - -	%100 - 451 heat recovery	•	•	•	•	•	•	•	•	-	-
### A Shell and tube evaporator for low temperature ### 350 - Kit TK PRO corrosion resistant painting treatment ### 252 - Anti-invitation net ### 350 - Kit TK PRO corrosion resistant painting treatment ### 350 - Kit TK PRO corrosion resistant painting treatment ### 350 - Compressor power factor capacitor - 0,9 ### 361 - Compressor operation indicator ### 362 - Magnetothermic switch for each compressor ### 363 - Compressor group suction ### 363 - Analogs set point compressor group suction ### 363 - Analogs set point compressor group suction ### 364 - Analogic operation in the provided in t	454 - Voltage free contact for total heat recovery water pump activation	•	•	•	•	•	•	•	•	-	-
350 -Kit TK PRO corrosion resistant painting treatment 262 - Anti-intrusion net 605 - Compr. power factor capacitor - 0,9 1002 - Soft Starter 3 - Compressor operation indicator 32 - Magnetothermic switch for each compressor Service valve on compressor group suction 38 - Analog set point compensation 217 - Double safety valve 224 - Pressure gauge on high and low pressure Ambient temperature sensor 35 - Demand limit 31 - Phases sequence control 1003 - Analogic flowmeter 1005 - Power supply analyzer 1009 - Multimeter kit 44 - Additional external alarm 923 - KELVIN-Com MBUS/JBUS Serial board 926 - LON Serial board 931 - BACnet Ethernet - SNMP - TCP/IP Serial board 932 - BACnet Ethernet - SNMP - TCP/IP Serial board 933 - BACnet Ethernet - SNMP - TCP/IP Serial board 939 - Master plant SEQUENCER	459 - Shell and tube evaporator	•	•	•	•	•	•	•	•	-	-
### 252 - Anti-intrusion net ### 250 - Compr. power factor capacitor - 0,9		•	•	•	•	•	•	•	•	•	•
605 - Compr. power factor capacitor - 0,9	350 -Kit TK PRO corrosion resistant painting treatment	•	•	•	•	•	•	•	•	•	•
1002 - Soft Starter	252 - Anti-intrusion net	•	•	•	•	•	•	•	•	•	•
83 - Compressor operation indicator 82 - Magnetothermic switch for each compressor	605 - Compr. power factor capacitor - 0,9	•	•	•	•	•	•	•	•	•	•
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 - Phase sequence control - 1003 - Analogic flowmeter - 1005 - Power supply analyzer - 1005 - Power supply analyzer - 1009 - Multimeter kit - 44 - Additional external alarm - 923 - KELVIN-Com MBUS/JBUS Serial board - 923 - KELVIN-Com MBUS/JBUS Serial board - 931 - BACnet Ethernet - SMMP - 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 -	1002 - Soft Starter	•	•	•	•	•	•	•	•	-	-
Service valve on compressor group suction	83 - Compressor operation indicator	•	•	•	•	•	•	•	•	•	•
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 5932 - BACnet MS/TP Serial board 936 - Remote graphic terminal kit 967 - Plantwatch without modem 889 - Master plant SEQUENCER	82 - Magnetothermic switch for each compressor	-	•	•	•	•	•	•	•	•	•
217 - Double safety valve 224 - Pressure gauge on high and low pressure Ambient temperature sensor • • • • • • • • • • • • • • • • • • •	Service valve on compressor group suction	•	•	•	•	•	•	•	•	•	•
217 - Double safety valve 224 - Pressure gauge on high and low pressure Ambient temperature sensor • • • • • • • • • • • • • • • • • • •	88 - Analog set point compensation	•	•	•	•	•	•	•	•	•	•
224 - Pressure gauge on high and low pressure • • • • • • • • • • • • • • • • • • •	217 - Double safety valve	•	•	•	•	•	•	•	•	•	•
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 927 - Serial board 931 - BACnet Ethernet - SNMP - TCP/IP Serial board 932 - BACnet MS/TP Serial board 1005 - Power supply analyzer 1009 - Multimeter kit 1		•	•	•	•	•	•	•	•	•	•
85 - Demand limit 81 - Phases sequence control 1003 - Analogic flowmeter 1005 - Power supply analyzer 1009 - Multimeter kit 44 - Additional external alarm 923 - KELVIN-Com MBUS/JBUS Serial board 926 - LON Serial board 926 - LON Serial board 931 - BACnet Ethernet - SNMP - TCP/IP Serial board 932 - BACnet MS/TP Serial board 932 - BACnet ms/TP Serial board 1009 - Remote graphic terminal kit 1009 - Kit modem GSM 1009 - Multimiter in the series of the		•	•	•	•	•	•	•	•	•	•
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 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		•	•	•	•	•	•	•	•	•	•
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 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		•			•						•
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 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		•	•	•	•	•	•	•	•	•	•
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											
931 - BACnet Ethernet - SNMP - TCP/IP Serial board 932 - BACnet MS/TP Serial board 932 - BACnet MS/TP Serial board Espansion card 1 930 - Remote graphic terminal kit 930 - Remote graphic terminal kit 930 - Remote graphic terminal kit 930 - Pantwatch without modem 957 - Plantwatch without modem 889 - Master plant SEQUENCER 957 - Plantwatch without modem 957 - Plantwatch without modem 957 - Plantwatch without modem											•
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 • <td< td=""><td></td><td></td><td>•</td><td></td><td></td><td>•</td><td>_</td><td>-</td><td></td><td></td><td></td></td<>			•			•	_	-			
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

Kelvin air conditioning **KELVIN Clim A108**

TECHNICAL DATA KELVIN Clim A108

	KELVIN Clim A108		106 P2	128 P4	132 P2	140 P4	153 P4	164 P4	168 P2	168 P2
	SIZE		S WL	D WL	S WL	D WL	D WH	D WH	S WH	D WH
	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
STANDARD	Refrigerant	_	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
12	Total refrigerant charge (optional excluded)	kg	12,0	12,0	12,4	12,1	23,3	24,1	21,3	24,3
ı́₹	Gas circuits	n. V/Ph/Hz	- F0/2/400N	2 +50/3/400N	- F0/2/400N	2	2 +50/3/400N	2	- FO/2/400NI	2
S	Power supply May unit operating current (FLA)	A A	+50/3/400N 95.4	+50/3/400N 113.3	+50/3/400N 110.1	+50/3/400N 138.5	+50/3/400N 144.8	+50/3/400N 151.1	+50/3/400N 145.8	+50/3/400N 145.8
	Max unit operating current (FLA) 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	KVV/KVV	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
	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
8	Max external static pressure	Pa	0	0	0	0	0	0	0	0
OPTIONAL	Pumping group	LAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	Low discharge head - Power input	kW kW	3,3	3,3	3,3	3,3	3,3	3,3	3,3	3,3
	Medium discharge head - Power input High discharge head - Power input	kW	4,6 6,1	4,6 6,1	4,6 6,1	4,6 6,1	4,6 6,1	4,6 6,1	4,6 6,1	4,6 6,1
	Water tank - volume	NVV	200	200	200	200	200	200	200	200
	Cooling capacity (1)	kW	108	124	134	139	152	164	170	171
%100	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
주	EER - Eurovent standard (1)	kW/kW	3,12	3,06	3,13	3,13	3,18	3,12	3,12	3,13
2	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
LC.	Cooling capacity (1)	kW	106	122	131	136	149	161	166	167
%82	Unit power input	kW	35,5	41,2	43,5	45,3	48,7	53,7	55,7	56,0
Ξ	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
LN0	Sound power level [Lw] (2)	dB(A)	77,0 58,8	74,6 56,4	79,1 60.9	75,1 56,9	75,8 57,2	76,0 57,4	79,5 60.9	79,5 60.9
	Average sound pressure level [LPm] (3) Cooling capacity (1)	kW	102	119	128	132	145	156	161	162
%70	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
2	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
	Cooling capacity (1)	kW	102	119	128	132	145	156	161	162
<u> </u>	Unit power input	kW	36,6	42,5	44,6	47,0	50,2	55,5	58,1	58,3
Ā	Total air flow	m³/h	27258	37338	37338	37338	41510	41510	41510	41510
E.	EER - Eurovent standard (1)	kW/kW	2,79	2,80	2,87	2,81	2,89	2,81	2,77	2,78
ш	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

- 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.
 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.

KELVIN Clim A108 -Kelvin air conditioning

TECHNICAL DATA KELVIN Clim A108

	KELVIN Clim A108 SIZE		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
	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
S	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
STANDARD	Total refrigerant charge (optional excluded)	kg	25,0	19,0	19,4	20,2	27,8	27,8	28,3	36,2
١ź	Gas circuits	n.	2	2	2	2	2	2	2	2
ST/	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)	Α	163,7	171,8	189,6	202,2	228,3	264,0	299,7	325,7
	Unit starting current (LRA)	Α	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
	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									
A	Power input	kW	2,3	5,1	5,1	5,1	7,7	7,7	7,7	10,2
S	Max external static pressure	Pa	0	80	80	80	80	80	80	80
OPTIONAL	Pumping group									
Ö	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		200	130	130	130	190	190	190	330
9	Cooling capacity (1)	kW	185	189	218	235	271	308	344	372
%100	Unit power input	kW	59,3	60,6	69,9	76,3	85,8	98,7	109,9	118,1
Α	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
S	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
ıΩ	Cooling capacity (1)	kW	181	186	214	230	267	302	337	366
%82	Unit power input	kW	60,9	61,2	70,9	77,7	86,4	99,7	112,3	118,1
출	Total air flow	m³/h	50405	72012	72012	72012	108018	108018	108018	144024
8	EER - Eurovent standard (1)	kW/kW	2,97	3,04	3,02	2,96	3,09	3,03	3,00	3,10
3	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
0	Cooling capacity (1)	kW	174	181	208	222	261	295	326	358
%70	Unit power input	kW	63,7	62,4	72,7	80,1	87,9	102,1	114,8	120,1
Ξ	Total air flow	m³/h	41510	59304	59304	59304	88956	88956	88956	118608
LNO	EER - Eurovent standard (1)	kW/kW	2,73	2,90	2,86	2,77	2,97	2,89	2,84	2,98
5	Sound power level [Lw] (2) Average sound pressure level [Lpm] (3)	dB(A)	77,3	78,0 59,2	80,0	81,0 62,2	82,9 63,4	82,9 63,4	82,9 63,4	84,8 64,7
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dB(A)	58,7		61,2					
	Cooling capacity (1)	kW kW	174	181	208	222	261	295 102.1	326 114.8	358
출	Unit power input		63,7	62,4	72,7	80,1	87,9			120,1
X	Total air flow	m³/h	41510	59304	59304	59304	88956	88956	88956	118608 2.98
E N	EER - Eurovent standard (1)	kW/kW	2,73	2,90	2,86	2,77	2,97	2,89	2,84	-,
	Sound power level [Lw] (2)	dB(A)	75,3	76,0 57,2	78,0 59,2	79,0 60,2	80,9 61,4	80,9 61,4	80,9 61.4	82,8 62,7
	Average sound pressure level [LPm] (3)	dB(A)	56,7	37,2	59,2	00,2	01,4	01,4	01,4	02,7

- 1. Referred to chilled water temperature $12/7^{\circ}\text{C} 0\%$ glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²°K/kW.
- Sound power level [Lw] according to ISO EN 9614 2.
 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.

Kelvin air conditioning **KELVIN Clim A108**

TECHNICAL DATA KELVIN Clim A108

	KELVIN Clim A108 SIZE		390 P4 D VT4	410 P4 D VT4	430 P4 D VT4	455 P6 T VT5	504 P6 T VT5	530 P6 T VT5	550 P6 T VT5	584 P6 T VT6
	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							
	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
STANDARD	Refrigerant		R410A							
₫	Total refrigerant charge (optional excluded)	kg	36,2	36,3	36,3	41,7	42,4	46,6	46,6	54,4
I€	Gas circuits	n.	2	2	2	3	3	3	3	3
လ	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) EER (1)	A kW/kW	652,2	670,2 3,12	687,2 3,12	625,0 3,17	676,0 3,21	774,0 3,10	791,0 3,11	815,8 3,10
	ESEER	KVV/KVV	3,13 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 kg	3267	3286	3305	4355	4554	4573	4592	5144
	Hydraulic connections	ng .	0201	0200	0000	4000	4004	4010	4002	0111
	Evaporator IN/OUT - OD (4)	Ø mm	114,3	114,3	114,3	168,3	219,1	219,1	219,1	219,1
	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									
닕	Power input	kW	10,2	10,2	10,2	12,8	12,8	12,8	12,8	15,4
S	Max external static pressure	Pa	80	80	80	80	80	80	80	80
OPTIONAL	Pumping group									
Ö	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		330	330	330	_	_	-	_	
8	Cooling capacity (1)	kW	394	413	438	469	522	540	563	592
%100	Unit power input Total air flow	kW m³/h	125,9 169440	132,4 169440	140,4 169440	147,9 211800	162,6 211800	174,2 211800	181,0 211800	191,0 254160
즐	EER (1)	kW/kW	3.13	3.12	3.12	3.17	3.21	3.10	3,11	3.10
ō	Sound power level [Lw] (2)	dB(A)	87.2	87.8	88.3	87.4	87.4	88.0	88.6	89.5
S N	Average sound pressure level [Lpm] (3)	dB(A)	67.2	67,8	68.3	66.9	66.9	67,5	68.1	68.6
	Cooling capacity (1)	kW	387	405	429	464	514	530	553	583
%85	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
출	EER (1)	kW/kW	3,04	3,02	3,03	3,13	3,11	3.00	3,01	3.03
일	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
	Cooling capacity (1)	kW	377	394	416	455	501	517	538	570
%70	Unit power input	kW	130,0	137,3	145,5	151,2	169,8	181,4	189,4	195,9
Ā	Total air flow	m³/h	118608	118608	118608	148260	148260	148260	148260	177912
0	EER (1)	kW/kW	2,90	2,87	2,86	3,01	2,95	2,85	2,84	2,91
N N	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
	Cooling capacity (1)	kW	377	394	416	455	501	517	538	570
즐	Unit power input	kW	130,0	137,3	145,5	151,2	169,8	181,4	189,4	195,9
Z	Total air flow EER (1)	m³/h kW/kW	118608 2,90	118608	118608	148260 3,01	148260 2.95	148260 2.85	148260 2,84	177912 2.91
ELN	Sound power level [Lw] (2)	dB(A)	83,7	2,87 84,5	2,86 85,2	83,6	83,6	2,85 84,5	2,84 85,3	2,91 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
	r wordgo sound prossure level [LPIII] (0)	ab(A)	00,1	04,0	00,2	00,1	00,1	04,0	04,0	00,4

^{1.} Referred to chilled water temperature $12/7^{\circ}\text{C} - 0\%$ glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m^{2o}K/kW.

Fouling factor of the exchangers 0,043 m²°K/kW.

Sound power level [Lw] according to ISO EN 9614 – 2.
 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.

^{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.

KELVIN Clim A108 -Kelvin air conditioning

TECHNICAL DATA KELVIN Clim A108

	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	
	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	
STANDARD	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	
Æ	Gas circuits	n.	3	3	4	4	4	4	4	
လ	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)	Α	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	-ID/A)	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	
		kW								
	Partial heat recovery-Heating capacity(5) Total heat recovery-Heating capacity(6)	kW	226,0	240,0	253,0	273,0	282,0	305,0	322,0	
	EC axial fans	KVV	<u>-</u>	<u>-</u>	-	_	<u>-</u>	-	-	
_	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	
은	Pumping group	T u	00	00	00	00	00	00	00	
OPTIONAL	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			-		-	-			
	Cooling capacity (1)	kW	615	654	690	744	769	832	877	
%100	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	
幸	EER (1)	kW/kW	3,12	3,11	3,11	3,12	3,08	3,13	3,12	
S	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	
10	Cooling capacity (1)	kW	605	645	678	732	754	818	861	
%85	Unit power input	kW	199,0	212,9	226,0	241,6	253,0	269,1	284,2	
Α	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	
S N	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	
0	Cooling capacity (1)	kW	591	628	659	714	736	798	838	
%70	Unit power input	kW	204,5	218,8	232,9	247,1	261,0	275,2	291,0	
주	Total air flow	m³/h	177912	177912	177912	207564	207564	237216	237216	
NS NS	EER (1)	kW/kW	2,89	2,87	2,83	2,89	2,82	2,90	2,88	
5	Sound power level [Lw] (2) Average sound pressure level [Lpm] (3)	dB(A)	88,9 68,0	89,9 68,9	87,7 66,3	90,8 69,4	90,0 68,6	91,2 69.4	91,8 70,1	
		kW	591	628				798		
	Cooling capacity (1) Unit power input	kW	204,5	218,8	659 232.9	714 247,1	736 261,0	275,2	838 291.0	
Α	Total air flow	m³/h	177912	177912	177912	207564	207564	275,2	291,0	
Z	EER (1)	kW/kW	2,89	2.87	2.83	2,89	2.82	2.90	2,88	
ELN	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	
		()	,-							

 $^{1. \ \} Referred to chilled water temperature 12/7^{\circ}C - 0\% \ glycol \ solution; air temperature to the condenser 35^{\circ}C. \ Fouling factor of the exchangers 0,043 \ m^{2o}K/kW.$

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 $12/7^{\circ}\text{C}$ – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery $40/45^{\circ}\text{C}$ – 0% glycol solution.

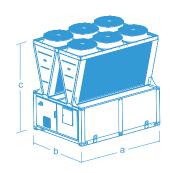
^{6.} Referred to chilled water temperature $12 / 7^{\circ}\text{C} - 0\%$ glycol solution; water temperature heat recovery $40 / 45^{\circ}\text{C} - 0\%$ glycol solution; Fouling factor of the exchangers $0.043 \text{ m}^{2\circ}\text{K/kW}$.

Kelvin air conditioning KELVIN Clim A108

DIMENSIONS (mm)

KELVIN Clim A108

SIZE W			
	а	b	С
WL	2565	1794	2110
WH	2565	1794	2410



KELVIN Clim A108

SIZE VT			
	a	b	С
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

