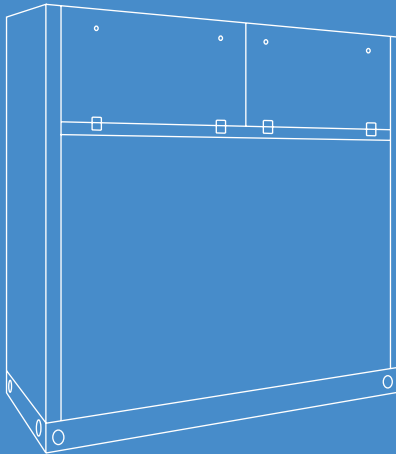


KELVIN Clim M24

Cooling Capacity: 24 ~ 617 kW



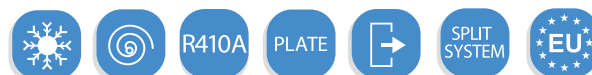
Motorevaporating units for indoor installation, equipped with scroll compressors and plate evaporator

KELVIN Clim M24

KELVIN CLIM M24 : Motoevaporating units for indoor installation, equipped with scroll compressors and plate evaporator
 Cooling Capacity: 24 ~ 617 kW



KELVIN AIR CONDITIONING



MAIN FEATURES

- Motoevaporating unit.
- 33 models available, for a wide selection opportunity.
- Average step of 25kW.
- EER up to 3,21
- Scroll compressors.
- R410A Refrigerant charge.
- Plate type heat exchangers.
- Suitable for indoor installation.

MAIN BENEFITS

- Units equipped with two, three scroll compressors for refrigerant circuit to reach a high efficiency.
- Units with single and double refrigerant circuits.
- Availability of partial and total heat recovery system.
- Easily of maintenance.
- Eurovent Certification,(pending)

INDOOR INSTALLATION

The machines are designed for indoor installation.

REMOTE CONDENSER

The units are designed to be matched with remote condensers with axial fans (KELVIN Clim C12 series) or plug-fan (KELVIN Clim C12 PF series).

REDUCED NOISE EMISSION

The machines are characterized by a low sound level guaranteed by the containing structure.

DOMESTIC HOT WATER

On request is possible to install the system for the domestic hot water production.

WORKING LIMITS IN COOLING MODE

Evaporator 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.
- 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.
- Phase sequence electronic relay.
- Crankcase heater.
- Electric motor thermal protection via internal winding temperature sensors.
- Rubber supports.

EVAPORATOR

- Copper brazed plate type with cover plates, plates and connections in AISI 316 stainless steel:
 - With single refrigerant circuit for S version machines.
 - With double refrigerant circuit for D version machines.
- Anticondensate insulation made of polyurethane.
- Temperature sensors on water inlet and outlet.
- Differential water pressure switch for water flow control.

REFRIGERANT CIRCUIT

Components for each refrigerant circuit:

- Thermostatic expansion valve up to model T 150 P2 included.
- Electronic expansion valve from model T 170 P4 included. The valve allows high performance and system efficiency thanks to a timely and accurate response to changes in temperature and pressure. The expansion valve is equipped with energy reserve to allow the closure of the valve in the event of lack of power supply.
- Sight glass.
- Electromagnetic valve on liquid line up to model T 150 P2 included. The electromagnetic valve is not installed when the electronic expansion valve is present.
- 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.
- Liquid receiver with safety valve and service valve.
- Valves on gas delivery and liquid return for coupling to remote air cooled condenser.
- 0~10V proportional signal to manage the condensing control system of the remote air cooled condenser.
- Refrigerant circuit with copper tubing with anticondensate 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 indoor installation complete with:

- Main switch with door lock safety.
- Magnetothermic switch or fuses for each compressor.
- Contactors for each load.
- Transformer for auxiliary circuit and microprocessor supply.
- Panel with machine controls.
- Power supply 400/3/50.

CONTROL SYSTEM

- MP.COM microprocessor system with graphic display for control and monitor of operating and alarms status. The system includes:
 - Voltage free contact for remote general alarm.
 - Main components hour-meter.
 - Nonvolatile "Flash" memory for data storage.
 - Menu with protection password.
 - LAN connection.

TO BE MATCHED WITH REMOTE CONDENSER

The units are designed to be matched with remote condensers with axial fans (KELVIN Clim C12 series) or plug-fan (KELVIN Clim C12 PF series).



OPTIONAL ACCESSORIES

KELVIN Clim M24	T 27 P1	T 30 P1	T 33 P1	T 40 P1	T 40 P2	T 40 P2	T 48 P2	T 48 P2	T 54 P2	T 54 P2	T 60 P2
SIZE	S	S	S	S	S	D	S	D	S	D	S
TEAM MATE remote condensers	•	•	•	•	•	•	•	•	•	•	•
TEAM MATE PF remote condensers	•	•	•	•	•	•	•	•	•	•	•
172 - Rubber support (kit)	•	•	•	•	•	•	•	•	•	•	•
118 - Kit brine A	•	•	•	•	•	•	•	•	•	•	•
119 - Kit brine B	•	•	•	•	•	•	•	•	•	•	•
460 - Kit for outdoor installation	•	•	•	•	•	•	•	•	•	•	•
450 - Partial heat recovery	•	•	•	•	•	-	•	-	•	-	•
%100 - 451 heat reclaim	•	•	•	•	•	•	•	•	•	•	•
220 - Electronic expansion valve	•	•	•	•	•	•	•	•	•	•	•
960 - Free contact enable plant pump	•	•	•	•	•	•	•	•	•	•	•
88 - Analog set point compensation	•	•	•	•	•	•	•	•	•	•	•
605 - Compr. power factor capacitor - 0,9	-	-	-	-	-	-	•	•	•	•	•
1002 - Soft Starter	•	•	•	•	•	•	•	•	•	•	•
83 - Compressor operation indicator	•	•	•	•	•	•	•	•	•	•	•
610 - Noise deadening cup on compressor	•	•	•	•	•	•	•	•	•	•	•
85 - Demand limit	-	-	-	-	•	•	•	•	•	•	•
Ambient temperature sensor	•	•	•	•	•	•	•	•	•	•	•
651 - Special power supply 50/3/230 Hz	•	•	•	•	•	•	•	•	•	•	•
919 - Clock card	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•
942 - Serial card for GSM Modem	•	•	•	•	•	•	•	•	•	•	•
943 - Data Logger	•	•	•	•	•	•	•	•	•	•	•
962 - Kit modem GSM	•	•	•	•	•	•	•	•	•	•	•
957 - Plantwatch without modem	•	•	•	•	•	•	•	•	•	•	•
930 - Remote graphic terminal kit	•	•	•	•	•	•	•	•	•	•	•
889 - Master plant SEQUENCER	•	•	•	•	•	•	•	•	•	•	•
KELVIN CLOUD PLATFORM	•	•	•	•	•	•	•	•	•	•	•

KELVIN Clim M24	T 60 P2	T 70 P2	T 70 P2	T 90 P2	T 90 P2	T 120 P2	T 120 P2	T 150 P2	T 150 P2	T 170 P4	T 175 P3
SIZE	D	S	D	S	D	S	D	S	D	D	S
TEAM MATE remote condensers	•	•	•	•	•	•	•	•	•	•	•
TEAM MATE PF remote condensers	•	•	•	•	•	•	•	•	•	•	•
172 - Rubber support (kit)	•	•	•	•	•	•	•	•	•	•	•
118 - Kit brine A	•	•	•	•	•	•	•	•	•	•	•
119 - Kit brine B	•	•	•	•	•	•	•	•	•	•	•
460 - Kit for outdoor installation	•	•	•	•	•	•	•	•	•	•	•
450 - Partial heat recovery	-	•	-	•	•	•	•	•	•	•	•
%100 - 451 heat reclaim	•	•	•	•	•	•	•	•	•	•	•
220 - Electronic expansion valve	•	•	•	•	•	•	•	•	•	•	-
960 - Free contact enable plant pump	•	•	•	•	•	•	•	•	•	•	•
88 - Analog set point compensation	•	•	•	•	•	•	•	•	•	•	•
605 - Compr. power factor capacitor - 0,9	•	•	•	•	•	•	•	•	•	•	•
1002 - Soft Starter	•	•	•	•	•	•	•	•	•	•	•
83 - Compressor operation indicator	•	•	•	•	•	•	•	•	•	•	•
610 - Noise deadening cup on compressor	•	•	•	•	•	•	•	•	•	•	•
85 - Demand limit	•	•	•	•	•	•	•	•	•	•	•
Ambient temperature sensor	•	•	•	•	•	•	•	•	•	•	•
651 - Special power supply 50/3/230 Hz	•	•	•	-	-	-	-	-	-	-	-
919 - Clock card	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•
942 - Serial card for GSM Modem	•	•	•	•	•	•	•	•	•	•	•
943 - Data Logger	•	•	•	•	•	•	•	•	•	•	•
962 - Kit modem GSM	•	•	•	•	•	•	•	•	•	•	•
957 - Plantwatch without modem	•	•	•	•	•	•	•	•	•	•	•
930 - Remote graphic terminal kit	•	•	•	•	•	•	•	•	•	•	•
889 - Master plant SEQUENCER	•	•	•	•	•	•	•	•	•	•	•
KELVIN CLOUD PLATFORM	•	•	•	•	•	•	•	•	•	•	•

• available accessory; - not available accessory

OPTIONAL ACCESSORIES

KELVIN Clim M24	T 190 P4	T 200 P2	T 200 P2	T 220 P3	T 240 P4	T 290 P3	T 300 P4	T 340 P4	T 380 P4	T 460 P6	T 570 P6
SIZE	D J9	S J9	D J9	S J9	D J9	S J9	D J9	D J10	D J10	D J10	D J10
TEAM MATE remote condensers	•	•	•	•	•	•	•	•	•	•	•
TEAM MATE PF remote condensers	•	•	•	•	•	•	•	•	•	•	•
172 - Rubber support (kit)	•	•	•	•	•	•	•	•	•	•	•
118 - Kit brine A	•	•	•	•	•	•	•	•	•	•	•
119 - Kit brine B	•	•	•	•	•	•	•	•	•	•	•
460 - Kit for outdoor installation	•	•	•	•	•	•	•	•	•	•	•
450 - Partial heat recovery	•	•	•	•	•	•	•	•	•	•	•
%100 - 451 heat reclaim	•	•	•	•	•	•	•	•	•	•	•
220 - Electronic expansion valve	-	-	-	-	-	-	-	-	-	-	-
960 - Free contact enable plant pump	•	•	•	•	•	•	•	•	•	•	•
88 - Analog set point compensation	•	•	•	•	•	•	•	•	•	•	•
605 - Compr. power factor capacitor - 0,9	•	•	•	•	•	•	•	•	•	•	•
1002 - Soft Starter	•	•	•	•	•	•	•	•	•	-	-
83 - Compressor operation indicator	•	•	•	•	•	•	•	•	•	•	•
610 - Noise deading cup on compressor	•	•	•	•	•	•	•	•	•	•	•
85 - Demand limit	•	•	•	•	•	•	•	•	•	•	•
Ambient temperature sensor	•	•	•	•	•	•	•	•	•	•	•
651 - Special power supply 50/3/230 Hz	-	-	-	-	-	-	-	-	-	-	-
919 - Clock card	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•
942 - Serial card for GSM Modem	•	•	•	•	•	•	•	•	•	•	•
943 - Data Logger	•	•	•	•	•	•	•	•	•	•	•
962 - Kit modem GSM	•	•	•	•	•	•	•	•	•	•	•
957 - Plantwatch without modem	•	•	•	•	•	•	•	•	•	•	•
930 - Remote graphic terminal kit	•	•	•	•	•	•	•	•	•	•	•
889 - Master plant SEQUENCER	•	•	•	•	•	•	•	•	•	•	•
KELVIN CLOUD PLATFORM	•	•	•	•	•	•	•	•	•	•	•

• available accessory; - not available accessory

TECHNICAL DATA KELVIN Clim M24

KELVIN Clim M24		T 27 P1	T 30 P1	T 33 P1	T 40 P1	T 40 P2	T 40 P2	T 48 P2	T 48 P2	
		S	S	S	S	S	D	S	D	
SIZE		J4	J4	J4	J4	J7	J7	J7	J7	
STANDARD	Cooling capacity (1)	kW	24,2	26,5	31,0	36,0	41,6	41,3	48,7	48,4
	Unit power input (*)	kW	9,2	10,7	11,7	13,6	15,8	15,5	18,2	18,1
	Evaporator water flow rate	m³/h	4,2	4,6	5,3	6,2	7,2	7,1	8,4	8,3
	Evaporator pressure drop	kPa	42	39	38	30	37	22	37	22
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	1	1	1	1	2	2	2	2
	Capacity steps	n.	1	1	1	1	2	2	2	2
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	5,2	5,2	5,3	5,6	6,0	10,1	8,7	10,4
	Gas circuits	n.	1	1	1	1	1	2	1	2
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
	Max unit operating current (FLA)	A	23,1	26,3	32,6	35,7	44,1	44,1	46,2	46,2
	Unit starting current (LRA)	A	118	118	140	173	132	132	140	140
	EER (1) (*)	kW/kW	2,64	2,48	2,65	2,64	2,63	2,66	2,68	2,68
	Sound power level [Lw] (2)	dB(A)	65,4	66,4	67,4	68,8	68,9	68,9	68,9	68,9
	Average sound pressure level [Lp] (3)	dB(A)	50,0	51,0	52,0	53,0	53,0	53,0	53,0	53,0
	Net weight	kg	240	245	250	285	410	420	415	425
	Hydraulic connections									
	Evaporator IN/OUT - ISO-1/228G M	Ø	2	"2	"2	"2	"2	"4/1 1	"4/1 1	"4/1 1"
	Evaporator IN/OUT - OD	Ø mm	-	-	-	-	-	-	-	-
Refrigerant connection										
Liquid return - ODS	n x Ø	1 x 16	1 x 16	1 x 16	1 x 16	1 x 16	2 x 16	1 x 22	2 x 16	
Gas delivery - ODS	n x Ø	1 x 18	1 x 18	1 x 18	1 x 18	1 x 18	2 x 18	1 x 22	2 x 18	
TEAM MATE	REMOTE CONDENSER - Quantity	n.	1	1	1	1	2	1	2	
	Series TEAM MATE STD	Mod.	M 35	M 35	M 45	M 50	M 60	M 30	M 70	M 35
	Nominal power input	kW	0,5	0,5	0,8	1,1	1,1	0,5	1,1	0,5
	Max operating current	A	2,9	2,9	3,6	5,7	5,7	2,9	5,7	2,9
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
OPTIONAL	Partial heat recovery (4)									
	Heating capacity	kW	8,9	9,7	11,4	13,2	15,3	-	17,9	--
	Total heat recovery (5)									
Heating capacity	kW	32,9	37,1	42,0	48,6	55,3	54,9	65,0	64,4	
TEAM MATE LNO	KELVIN CLIM M24									
	Cooling capacity (1)	kW	24,7	27,2	31,3	36,9	41,9	41,4	50,3	49,4
	Unit power input	kW	9,0	10,4	11,7	13,0	15,5	15,3	17,6	17,7
	EER (1) (*)	kW/kW	2,74	2,61	2,67	2,84	2,71	2,70	2,85	2,79
	REMOTE CONDENSER - Quantity	n.	1	1	1	1	1	2	1	2
	Series TEAM MATE STD	Mod.	M 45	M 45	M 50	M 70	M 70	M 35	M 95	M 45
	Nominal power input	kW	0,7	0,7	0,9	0,9	0,9	0,5	1,4	0,7
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
	TEAM MATE ELN	KELVIN CLIM M24								
		Cooling capacity (1)	kW	24,0	26,3	30,4	36,0	40,6	40,1	49,0
Unit power input		kW	9,3	10,8	12,0	13,4	16,0	15,8	18,0	18,3
EER (1) (*)		kW/kW	2,58	2,43	2,54	2,68	2,54	2,53	2,72	2,63
REMOTE CONDENSER - Quantity		n.	1	1	1	1	1	2	1	2
Series TEAM MATE STD		Mod.	M 45	M 45	M 50	M 70	M 70	M 35	M 95	M 45
Nominal power input		kW	0,6	0,6	0,8	0,8	0,8	0,4	1,1	0,6
Power supply (**)		V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
TEAM MATE PF STD		KELVIN CLIM M24								
		Cooling capacity (1)	kW	23,9	26,9	30,9	34,8	41,6	41,9	48,7
	Unit power input	kW	10,1	11,1	12,3	14,6	17,0	16,8	19,5	19,8
	EER (1) (*)	kW/kW	2,37	2,43	2,52	2,38	2,45	2,50	2,50	2,42
	REMOTE CONDENSER - Quantity	n.	1	1	1	1	1	2	1	2
	Series TEAM MATE STD	Mod.	T 33	T 38	T 44	T 44	T 58	T 33	T 69	T 33
	External static pressure	Pa	50	50	50	50	50	50	50	50
	Nominal power input	kW	1,3	1,1	1,2	1,2	2,2	1,3	2,4	1,3
	Power supply (**)	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
	TEAM MATE PF LNO	KELVIN CLIM M24								
Cooling capacity (1)		kW	24,6	28,5	31,8	35,9	41,8	41,9	49,6	49,2
Unit power input		kW	9,2	10,5	11,9	14,1	16,2	15,6	18,8	18,1
EER (1) (*)		kW/kW	2,67	2,72	2,67	2,55	2,58	2,68	2,64	2,72
REMOTE CONDENSER - Quantity		n.	1	1	1	1	1	2	1	2
Series TEAM MATE STD		Mod.	T 44	T 58	T 58	T 58	T 69	T 38	T 86	T 44
External static pressure		Pa	36	36	36	36	36	36	36	36
Nominal power input		kW	0,8	1,4	1,4	1,4	1,5	0,7	2,2	0,8
Power supply (**)		V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
TEAM MATE PF ELN		KELVIN CLIM M24								
	Cooling capacity (1)	kW	23,8	27,8	31,0	34,9	40,4	40,8	48,2	47,6
	Unit power input	kW	9,3	10,3	11,7	14,1	16,4	15,7	18,7	18,3
	EER (1) (*)	kW/kW	2,55	2,70	2,64	2,47	2,47	2,60	2,58	2,60
	REMOTE CONDENSER - Quantity	n.	1	1	1	1	1	2	1	2
	Series TEAM MATE STD	Mod.	T 44	T 58	T 58	T 58	T 69	T 38	T 86	T 44
	External static pressure	Pa	25	25	25	25	25	25	25	25
	Nominal power input	kW	0,5	0,8	0,8	0,8	0,9	0,5	1,3	0,5
	Power supply (**)	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60

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 m²K/kW.
 2. Sound power level [Lw] according to ISO EN 9614 - 2.
 3. Average sound pressure level [Lp] 1m far according to ISO EN 3744.
 4. 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 m²K/kW.
 5. 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 m²K/kW.
 (*) The value includes the remote condenser.
 (**) The remote condenser has separated power supply.
 (***) Remote condensers not available for this model. Value are referred to 45°C condensation temperature.

TECHNICAL DATA KELVIN Clim M24

KELVIN Clim M24		T 54 P2	T 54 P2	T 60 P2	T 60 P2	T 70 P2	T 70 P2	T 90 P2	T 90 P2		
		S	D	S	D	S	D	S	D		
SIZE		J7	J7	J7	J7	J7	J7	J7	J7		
STANDARD	Cooling capacity (1)	kW	57,7	53,2	61,3	60,7	71,2	73,3	92,5	94,3	
	Unit power input (*)	kW	20,0	21,0	23,0	23,0	27,6	27,1	35,3	34,2	
	Evaporator water flow rate	m³/h	9,9	9,2	10,5	10,4	12,2	12,6	15,9	16,2	
	Evaporator pressure drop	kPa	41	20	35	22	40	23	36	23	
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	
	Quantity	n.	2	2	2	2	2	2	2	2	
	Capacity steps	n.	2	2	2	2	2	2	2	2	
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Total refrigerant charge (optional excluded)	kg	9,7	10,4	9,7	10,4	10,1	11,4	14,6	18,9	
	Gas circuits	n.	1	2	1	2	1	2	1	2	
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
	Max unit operating current (FLA)	A	52,5	52,5	65,1	65,1	71,4	71,4	84,0	84,0	
	Unit starting current (LRA)	A	143	143	171	171	207	207	265	265	
	EER (1) (*)	kW/kW	2,88	2,53	2,67	2,64	2,58	2,70	2,62	2,76	
	Sound power level [Lw] (2)	dB(A)	69,9	69,9	70,9	70,9	71,9	71,9	76,9	76,9	
	Average sound pressure level [Lpm] (3)	dB(A)	54,0	54,0	55,0	55,0	56,0	56,0	61,0	61,0	
	Net weight	kg	420	430	420	440	425	450	666	695	
	Hydraulic connections										
	Evaporator IN/OUT - ISO-1/228G M	Ø	2"	2"	2"	2"	2"	2"	--	--	
	Evaporator IN/OUT - OD	Ø mm	--	--	--	--	--	--	76,1	76,1	
Refrigerant connection											
Liquid return - ODS	n x Ø	1 x 22	2 x 16	1 x 22	2 x 16	1 x 22	2 x 16	1 x 22	2 x 22		
Gas delivery - ODS	n x Ø	1 x 22	2 x 18	1 x 22	2 x 18	1 x 22	2 x 18	1 x 28	2 x 22		
TEAM MATE	REMOTE CONDENSER - Quantity	n.	1	2	1	2	1	2	1	2	
	Series TEAM MATE STD	Mod.	M 95	M 35	M 95	M 45	M 95	M 50	M 130	M 70	
	Nominal power input	kW	1,6	0,5	1,6	0,8	1,6	1,1	2,1	1,1	
	Max operating current	A	8,5	2,9	8,5	3,6	8,5	5,7	11,4	5,7	
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
OPTIONAL	Partial heat recovery (4)										
	Heating capacity	kW	21,2	--	22,5	--	26,1	--	33,9	--	
	Total heat recovery (5)										
Heating capacity	kW	74,0	72,9	82,3	82,5	95,9	96,9	124,0	123,0		
TEAM MATE LNO	KELVIN CLIM M24										
	Cooling capacity (1)	kW	56,6	54,6	61,1	61,3	73,4	73,1	96,9	96,9	
	Unit power input	kW	20,4	20,5	22,8	23,0	26,6	26,9	33,5	33,4	
	EER (1) (*)	kW/kW	2,77	2,66	2,68	2,66	2,76	2,72	2,89	2,90	
	REMOTE CONDENSER - Quantity	n.	1	2	1	2	1	2	1	2	
	Series TEAM MATE STD	Mod.	M 95	M 45	M 110	M 50	M 130	M 60	T 185	M 95	
	Nominal power input	kW	1,4	0,7	1,4	0,9	1,8	0,9	2,7	1,4	
	Power supply (**)	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400-3-50+N	230/1/50	
	TEAM MATE ELN	KELVIN CLIM M24									
		Cooling capacity (1)	kW	54,9	52,8	59,3	59,7	71,6	70,9	94,9	94,8
Unit power input		kW	21,0	21,3	23,5	23,5	27,3	27,8	34,1	34,1	
EER (1) (*)		kW/kW	2,61	2,48	2,52	2,54	2,62	2,55	2,78	2,78	
REMOTE CONDENSER - Quantity		n.	1	2	1	2	1	2	1	2	
Series TEAM MATE STD		Mod.	M 95	M 45	M 110	M 50	M 130	M 60	T 185	M 95	
Nominal power input		kW	1,1	0,6	1,1	0,8	1,5	0,8	2,2	1,1	
Power supply (**)		V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400-3-50+N	230/1/50	
TEAM MATE PF STD		KELVIN CLIM M24									
		Cooling capacity (1)	kW	57,0	54,1	60,5	60,5	76,2	70,7	95,0	94,3
	Unit power input	kW	22,2	21,8	25,2	24,0	30,6	29,0	39,3	37,0	
	EER (1) (*)	kW/kW	2,57	2,48	2,40	2,52	2,49	2,44	2,42	2,55	
	REMOTE CONDENSER - Quantity	n.	1	2	1	2	1	2	1	2	
	Series TEAM MATE STD	Mod.	T 86	T 38	T 86	T 44	T 144	T 44	T 144	T 69	
	External static pressure	Pa	50	50	50	50	50	50	50	50	
	Nominal power input	kW	3,3	1,1	3,3	1,2	7,4	1,2	7,4	2,4	
	Power supply (**)	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	
	TEAM MATE PF LNO	KELVIN CLIM M24									
Cooling capacity (1)		kW	59,4	57,2	63,2	62,3	75,0	73,1	92,9	95,8	
Unit power input		kW	21,1	20,6	23,9	23,4	28,6	27,9	37,8	35,6	
EER (1) (*)		kW/kW	2,81	2,77	2,64	2,66	2,62	2,62	2,46	2,69	
REMOTE CONDENSER - Quantity		n.	1	2	1	2	1	2	1	2	
Series TEAM MATE STD		Mod.	T 114	T 58	T 114	T 58	T 144	T 58	T 144	T 86	
External static pressure		Pa	36	36	36	36	36	36	36	36	
Nominal power input		kW	3,6	1,4	3,6	1,4	4,7	1,4	4,7	2,2	
Power supply (**)		V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	
TEAM MATE PF ELN		KELVIN CLIM M24									
	Cooling capacity (1)	kW	58,1	55,9	61,7	60,7	73,2	70,9	89,8	93,4	
	Unit power input	kW	20,4	20,2	23,3	23,2	27,6	27,9	37,4	35,1	
	EER (1) (*)	kW/kW	2,85	2,77	2,65	2,62	2,65	2,54	2,40	2,66	
	REMOTE CONDENSER - Quantity	n.	1	2	1	2	1	2	1	2	
	Series TEAM MATE STD	Mod.	T 114	T 58	T 114	T 58	T 144	T 58	T 144	T 86	
	External static pressure	Pa	25	25	25	25	25	25	25	25	
	Nominal power input	kW	2,1	0,8	2,1	0,8	2,8	0,8	2,8	1,3	
	Power supply (**)	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	

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 m²K/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. 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 m²K/kW.
 5. 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 m²K/kW.
 (*) The value includes the remote condenser.
 (**) The remote condenser has separated power supply.
 (***) Remote condensers not available for this model. Value are referred to 45°C condensation temperature.

TECHNICAL DATA KELVIN Clim M24

KELVIN Clim M24		T 120 P2	T 120 P2	T 150 P2	T 150 P2	T 170 P4	T 175 P3	T 190 P4	T 200 P2	
		S	D	S	D	D	S	D	S	
SIZE		J7	J7	J8	J8	J8	J8	J9	J9	
STANDARD	Cooling capacity (1)	kW	120,0	118,0	152,0	149,0	176,0	175,0	194,0	192,0
	Unit power input (*)	kW	43,2	42,9	55,5	55,8	62,0	65,1	71,3	71,9
	Evaporator water flow rate	m³/h	20,5	20,3	26,1	25,6	30,3	30,1	33,4	33,0
	Evaporator pressure drop	kPa	40	31	37	33	33	44	25	34
	Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
	Quantity	n.	2	2	2	2	4	2	4	2
	Capacity steps	n.	2	2	2	2	4	3	4	2
	Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Total refrigerant charge (optional excluded)	kg	22,0	26,6	22,8	28,3	22,7	24,9	29,0	27,0
	Gas circuits	n.	1	2	1	2	2	1	2	1
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
	Max unit operating current (FLA)	A	101,9	101,9	137,6	137,6	155,4	153,3	168,0	172,2
	Unit starting current (LRA)	A	321	321	375	375	333	369	345	466
	EER (1) (*)	kW/kW	2,78	2,75	2,74	2,67	2,84	2,69	2,72	2,67
	Sound power level [Lw] (2)	dB(A)	80,1	80,1	81,0	81,0	81,0	82,8	81,0	81,0
	Average sound pressure level [Lp] (3)	dB(A)	64,0	64,0	64,0	64,0	64,0	65,8	64,0	64,0
	Net weight	kg	715	725	940	955	1055	1070	1215	990
	Hydraulic connections									
	Evaporator IN/OUT - ISO-1/228G M	Ø	—	—	—	—	—	—	—	—
	Evaporator IN/OUT - OD	Ø mm	76,1	76,1	76,1	76,1	76,1	76,1	88,9	88,9
	Refrigerant connection									
	Liquid return - ODS	n x Ø	1 x 28	2 x 22	1 x 35	2 x 22	2 x 28	1 x 35	2 x 28	1 x 35
	Gas delivery - ODS	n x Ø	1 x 28	2 x 22	1 x 35	2 x 22	2 x 28	1 x 35	2 x 28	1 x 35
	TEAM MATE	REMOTE CONDENSER - Quantity	n.	1	2	1	2	1	2	1
		Series TEAM MATE STD	Mod.	T 185	M 95	T 210	M 110	M 130	T 250	M 130
Nominal power input		kW	3,2	1,6	3,2	1,6	2,1	4,2	2,1	4,2
Max operating current		A	17,1	8,5	17,1	8,5	11,4	22,8	11,4	22,8
Power supply (**)		V/Ph/Hz	400/3/50+N	230/1/50	400/3/50+N	230/1/50	230/1/50	400/3/50+N	230/1/50	400/3/50+N
OPTIONAL	Partial heat recovery (4)									
	Heating capacity	kW	43,9	—	55,8	54,7	64,7	64,2	71,4	70,5
	Total heat recovery (5)									
Heating capacity	kW	156,0	155,0	204,0	202,0	233,0	235,0	265,0	262,0	
TEAM MATE LNO	KELVIN CLIM M24									
	Cooling capacity (1)	kW	120,0	118,0	153,0	154,0	176,0	174,0	205,0	191,0
	Unit power input	kW	42,4	42,6	55,2	53,8	61,3	64,9	67,7	71,5
	EER (1) (*)	kW/kW	2,83	2,77	2,77	2,86	2,87	2,68	3,03	2,67
	REMOTE CONDENSER - Quantity	n.	1	2	1	2	2	1	2	1
	Series TEAM MATE STD	Mod.	T 210	M 110	T 250	M 140	M 140	T 280	T 185	T 280
	Nominal power input	kW	2,7	1,4	3,6	1,8	1,8	3,6	2,7	3,6
	Power supply (**)	V/Ph/Hz	400/3/50+N	230/1/50	400/3/50+N	230/1/50	230/1/50	400/3/50+N	400/3/50+N	400/3/50+N
	TEAM MATE ELN	KELVIN CLIM M24								
		Cooling capacity (1)	kW	117,0	115,0	150,0	150,0	171,0	169,0	200,0
Unit power input		kW	43,5	43,7	56,6	55,4	63,3	67,1	68,7	74,6
EER (1) (*)		kW/kW	2,69	2,63	2,65	2,71	2,70	2,52	2,91	2,48
REMOTE CONDENSER - Quantity		n.	1	2	1	2	2	1	2	1
Series TEAM MATE STD		Mod.	T 210	M 110	T 250	M 140	M 140	T 280	T 185	T 280
Nominal power input		kW	2,2	1,1	3,0	1,5	1,5	3,0	2,2	3,0
Power supply (**)		V/Ph/Hz	400/3/50+N	230/1/50	400/3/50+N	230/1/50	230/1/50	400/3/50+N	400/3/50+N	400/3/50+N
TEAM MATE PF STD		KELVIN CLIM M24								
		Cooling capacity (1)	kW	114,0	117,0	163,0	154,0	177,0	186,0	200,0
	Unit power input	kW	50,2	47,2	47,0	61,1	68,6	55,2	79,1	59,5
	EER (1) (*)	kW/kW	2,27	2,48	3,47	2,52	2,58	3,37	2,53	3,51
	REMOTE CONDENSER - Quantity	n.	1	2	— (***)	2	2	— (***)	2	— (***)
	Series TEAM MATE STD	Mod.	T 144	T 86	— (***)	T 114	T 114	— (***)	T 144	— (***)
	External static pressure	Pa	50	50	— (***)	50	50	— (***)	50	— (***)
	Nominal power input	kW	7,4	3,3	— (***)	5,6	5,6	— (***)	7,4	— (***)
	Power supply (**)	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	— (***)	380-480/3/50-60	380-480/3/50-60	— (***)	380-480/3/50-60	— (***)
	TEAM MATE PF LNO	KELVIN CLIM M24								
Cooling capacity (1)		kW	126,0	121,0	163,0	154,0	177,0	186,0	195,0	209,0
Unit power input		kW	36,8	45,3	47,0	59,5	66,8	55,2	75,9	59,5
EER (1) (*)		kW/kW	3,42	2,67	3,47	2,59	2,65	3,37	2,57	3,51
REMOTE CONDENSER - Quantity		n.	— (***)	2	— (***)	2	2	— (***)	2	— (***)
Series TEAM MATE STD		Mod.	— (***)	T 114	— (***)	T 144	T 144	— (***)	T 144	— (***)
External static pressure		Pa	— (***)	36	— (***)	36	36	— (***)	36	— (***)
Nominal power input		kW	— (***)	3,6	— (***)	4,7	4,7	— (***)	4,7	— (***)
Power supply (**)		V/Ph/Hz	— (***)	380-480/3/50-60	— (***)	380-480/3/50-60	380-480/3/50-60	— (***)	380-480/3/50-60	— (***)
TEAM MATE PF ELN		KELVIN CLIM M24								
	Cooling capacity (1)	kW	126,0	119,0	163,0	150,0	172,0	186,0	188,0	209,0
	Unit power input	kW	36,8	43,6	47,0	57,5	65,4	55,2	75,8	59,5
	EER (1) (*)	kW/kW	3,42	2,73	3,47	2,61	2,63	3,37	2,48	3,51
	REMOTE CONDENSER - Quantity	n.	— (***)	2	— (***)	2	2	— (***)	2	— (***)
	Series TEAM MATE STD	Mod.	— (***)	T 114	— (***)	T 144	T 144	— (***)	T 144	— (***)
	External static pressure	Pa	— (***)	— (***)	— (***)	— (***)	— (***)	— (***)	— (***)	— (***)
	Nominal power input	kW	— (***)	2,1	— (***)	2,8	2,8	— (***)	2,8	— (***)
	Power supply (**)	V/Ph/Hz	— (***)	380-480/3/50-60	— (***)	380-480/3/50-60	380-480/3/50-60	— (***)	380-480/3/50-60	— (***)

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 m²K/kW.
 2. Sound power level [Lw] according to ISO EN 9614 - 2.
 3. Average sound pressure level [Lp] 1m far according to ISO EN 3744.
 4. 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 m²K/kW.
 5. 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 m²K/kW.
 (*) The value includes the remote condenser.
 (**) The remote condenser has separated power supply.
 (***) Remote condensers not available for this model. Value are referred to 45°C condensation temperature.

TECHNICAL DATA KELVIN Clim M24

KELVIN Clim M24		T 200 P2	T 220 P3	T 240 P4	T 290 P3	T 300 P4	T 340 P4	T 380 P4	T 460 P6
		D J9	S J9	D J9	S J9	D J9	D J10	D J10	D J10
SIZE									
Cooling capacity (1)	kW	192,0	228,0	242,0	311,0	299,0	349,0	378,0	491,0
Unit power input (*)	kW	72,7	85,7	86,1	89,1	111,2	125,5	143,2	140,7
Evaporator water flow rate	m ³ /h	32,9	39,1	41,5	53,4	51,3	60,0	65,0	84,3
Evaporator pressure drop	kPa	39	39	49	43	54	55	48	55
Compressors		scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
Quantity	n.	2	3	4	3	4	4	4	6
Capacity steps	n.	2	3	4	3	4	4	4	6
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Total refrigerant charge (optional excluded)	kg	30,9	27,7	32,7	31,4	48,3	49,4	55,3	56,7
Gas circuits	n.	2	1	2	1	2	2	2	2
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Max unit operating current (FLA)	A	172,2	206,9	258,3	203,7	275,1	309,8	344,4	412,7
Unit starting current (LRA)	A	466	441	584	418	507	597	630	637
EER (1) (*)	kW/kW	2,64	2,66	2,81	3,49	2,69	2,78	2,64	3,49
Sound power level [Lw] (2)	dB(A)	81,0	82,8	84,1	82,8	84,1	84,5	84,5	86,3
Average sound pressure level [Lp] (3)	dB(A)	64,0	65,8	67,0	65,8	67,0	67,0	67,0	68,8
Net weight	kg	1015	1205	1430	1265	1455	1515	1580	2027
Hydraulic connections									
Evaporator IN/OUT - ISO-1/228G M	Ø	--	--	--	--	--	--	--	--
Evaporator IN/OUT - OD	Ø mm	88,9	88,9	88,9	88,9	88,9	88,9	88,9	88,9
Refrigerant connection									
Liquid return - ODS	n x Ø	2 x 28	1 x 35	2 x 28	1 x 42	2 x 35	2 x 35	2 x 35	2 x 35
Gas delivery - ODS	n x Ø	2 x 28	1 x 42	2 x 28	1 x 42	2 x 35	2 x 35	2 x 35	2 x 42
REMOTE CONDENSER - Quantity	n.	2	1	2	-- (**)	2	2	2	-- (**)
Series TEAM MATE STD	Mod.	M 130	T 280	T 185	-- (**)	T 210	T 250	T 250	-- (**)
Nominal power input	kW	2,1	4,2	3,2	-- (**)	3,2	4,2	4,2	-- (**)
Max operating current	A	11,4	22,8	17,1	-- (**)	17,1	22,8	22,8	-- (**)
Power supply (**)	V/Ph/Hz	230/1/50	400/3/50+N	400/3/50+N	-- (**)	400/3/50+N	400/3/50+N	400/3/50+N	-- (**)
OPTIONAL									
Partial heat recovery (4)									
Heating capacity	kW	70,3	83,5	88,7	114,0	110,0	128,0	139,0	180,0
Total heat recovery (5)									
Heating capacity	kW	263,0	302,0	320,0	391,0	404,0	465,0	517,0	618,0
TEAM MATE LNO									
KELVIN CLIM M24									
Cooling capacity (1)	kW	201,0	250,0	242,0	311,0	306,0	348,0	376,0	491,0
Unit power input	kW	68,8	70,2	84,9	89,1	108,1	125,2	143,0	140,7
EER (1) (*)	kW/kW	2,92	3,56	2,85	3,49	2,83	2,78	2,63	3,49
REMOTE CONDENSER - Quantity	n.	2	-- (***)	2	-- (***)	2	2	2	-- (***)
Series TEAM MATE STD	Mod.	T 185	-- (***)	T 210	-- (***)	T 280	T 280	T 280	-- (***)
Nominal power input	kW	2,7	-- (***)	2,7	-- (***)	3,6	3,6	3,6	-- (***)
Power supply (**)	V/Ph/Hz	400/3/50+N	-- (***)	400/3/50+N	-- (***)	400/3/50+N	400/3/50+N	400/3/50+N	-- (***)
TEAM MATE ELN									
KELVIN CLIM M24									
Cooling capacity (1)	kW	197,0	250,0	236,0	311,0	298,0	337,0	363,0	491,0
Unit power input	kW	70,1	70,2	87,1	89,1	110,8	128,6	148,8	140,7
EER (1) (*)	kW/kW	2,81	3,56	2,71	3,49	2,69	2,62	2,44	3,49
REMOTE CONDENSER - Quantity	n.	2	-- (***)	2	-- (***)	2	2	2	-- (***)
Series TEAM MATE STD	Mod.	T 185	-- (***)	T 210	-- (***)	T 280	T 280	T 280	-- (***)
Nominal power input	kW	2,2	-- (***)	2,2	-- (***)	3,0	3,0	3,0	-- (***)
Power supply (**)	V/Ph/Hz	400/3/50+N	-- (***)	400/3/50+N	-- (***)	400/3/50+N	400/3/50+N	400/3/50+N	-- (***)
TEAM MATE PF STD									
KELVIN CLIM M24									
Cooling capacity (1)	kW	197,0	250,0	254,0	311,0	320,0	370,0	410,0	491,0
Unit power input	kW	80,4	70,2	73,6	89,1	93,8	106,3	119,2	140,7
EER (1) (*)	kW/kW	2,45	3,56	3,45	3,49	3,41	3,48	3,44	3,49
REMOTE CONDENSER - Quantity	n.	2	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Series TEAM MATE STD	Mod.	T 144	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
External static pressure	Pa	50	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Nominal power input	kW	7,4	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Power supply (**)	V/Ph/Hz	380-480/3/50-60	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
TEAM MATE PF LNO									
KELVIN CLIM M24									
Cooling capacity (1)	kW	210,0	250,0	254,0	311,0	320,0	370,0	410,0	491,0
Unit power input	kW	59,7	70,2	73,6	89,1	93,8	106,3	119,2	140,7
EER (1) (*)	kW/kW	3,52	3,56	3,45	3,49	3,41	3,48	3,44	3,49
REMOTE CONDENSER - Quantity	n.	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Series TEAM MATE STD	Mod.	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
External static pressure	Pa	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Nominal power input	kW	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Power supply (**)	V/Ph/Hz	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
TEAM MATE PF ELN									
KELVIN CLIM M24									
Cooling capacity (1)	kW	210,0	250,0	254,0	311,0	320,0	370,0	410,0	491,0
Unit power input	kW	59,7	70,2	73,6	89,1	93,8	106,3	119,2	140,7
EER (1) (*)	kW/kW	3,52	3,56	3,45	3,49	3,41	3,48	3,44	3,49
REMOTE CONDENSER - Quantity	n.	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Series TEAM MATE STD	Mod.	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
External static pressure	Pa	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Nominal power input	kW	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)
Power supply (**)	V/Ph/Hz	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)	-- (***)

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 m²K/kW.
 2. Sound power level [Lw] according to ISO EN 9614 - 2.
 3. Average sound pressure level [Lp] 1m far according to ISO EN 3744.
 4. 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 m²K/kW.
 5. 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 m²K/kW.
 (*) The value includes the remote condenser.
 (**) The remote condenser has separated power supply.
 (***) Remote condensers not available for this model. Value are referred to 45°C condensation temperature.

TECHNICAL DATA KELVIN Clim M24

KELVIN Clim M24		T 570 P6	
		D	
SIZE		J10	
STANDARD	Cooling capacity (1)	kW	617,0
	Unit power input (*)	kW	178,8
	Evaporator water flow rate	m ³ /h	106,0
	Evaporator pressure drop	kPa	75
	Compressors		scroll
	Quantity	n.	6
	Capacity steps	n.	6
	Refrigerant		R410A
	Total refrigerant charge (optional excluded)	kg	62,6
	Gas circuits	n.	2
	Power supply	V/Ph/Hz	50/3/400
	Max unit operating current (FLA)	A	516,6
	Unit starting current (LRA)	A	794
	EER (1) (*)	kW/kW	3,45
	Sound power level [Lw] (2)	dB(A)	86,3
	Average sound pressure level [Lp] (3)	dB(A)	68,8
	Net weight	kg	2053
	Hydraulic connections		
	Evaporator IN/OUT - ISO-1/228G M	Ø	–
	Evaporator IN/OUT - OD	Ø mm	88,9
Refrigerant connection			
Liquid return - ODS	n x Ø	2 x 42	
Gas delivery - ODS	n x Ø	2 x 42	
TEAM MATE	REMOTE CONDENSER - Quantity	n.	– (**)
	Series TEAM MATE STD	Mod.	– (**)
	Nominal power input	kW	– (**)
	Max operating current	A	– (**)
Power supply (**)	V/Ph/Hz	– (**)	
OPTIONAL	Partial heat recovery (4)		
	Heating capacity	kW	227,0
	Total heat recovery (5)		
Heating capacity	kW	776,0	
TEAM MATE LNO	KELVIN CLIM M24		
	Cooling capacity (1)	kW	617,0
	Unit power input	kW	178,8
	EER (1) (*)	kW/kW	3,45
	REMOTE CONDENSER - Quantity	n.	– (***)
	Series TEAM MATE STD	Mod.	– (***)
	Nominal power input	kW	– (***)
Power supply (**)	V/Ph/Hz	– (***)	
TEAM MATE ELN	KELVIN CLIM M24		
	Cooling capacity (1)	kW	617,0
	Unit power input	kW	178,8
	EER (1) (*)	kW/kW	3,45
	REMOTE CONDENSER - Quantity	n.	– (***)
	Series TEAM MATE STD	Mod.	– (***)
	Nominal power input	kW	– (***)
Power supply (**)	V/Ph/Hz	– (***)	
TEAM MATE PF STD	KELVIN CLIM M24		
	Cooling capacity (1)	kW	617,0
	Unit power input	kW	178,8
	EER (1) (*)	kW/kW	3,45
	REMOTE CONDENSER - Quantity	n.	– (***)
	Series TEAM MATE STD	Mod.	– (***)
	External static pressure	Pa	– (***)
Nominal power input	kW	– (***)	
Power supply (**)	V/Ph/Hz	– (***)	
TEAM MATE PF LNO	KELVIN CLIM M24		
	Cooling capacity (1)	kW	617,0
	Unit power input	kW	178,8
	EER (1) (*)	kW/kW	3,45
	REMOTE CONDENSER - Quantity	n.	– (***)
	Series TEAM MATE STD	Mod.	– (***)
	External static pressure	Pa	– (***)
Nominal power input	kW	– (***)	
Power supply (**)	V/Ph/Hz	– (***)	
TEAM MATE PF ELN	KELVIN CLIM M24		
	Cooling capacity (1)	kW	617,0
	Unit power input	kW	178,8
	EER (1) (*)	kW/kW	3,45
	REMOTE CONDENSER - Quantity	n.	– (***)
	Series TEAM MATE STD	Mod.	– (***)
	External static pressure	Pa	– (***)
Nominal power input	kW	– (***)	
Power supply (**)	V/Ph/Hz	– (***)	

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.
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 4. 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.
 5. 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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 (**) The remote condenser has separated power supply.
 (***) Remote condensers not available for this model. Value are referred to 45°C condensation temperature.

DIMENSIONS (mm)

KELVIN Clim M24

	a	b	c
J4	1000	650	1400
J7	1200	750	1700
J8	1800	1200	1740
J9	1800	1200	1740
J10	1800	1800	1740

