

ERAE Kc

AIR COOLED CHILLERS WITH SCROLL COMPRESSOR AND AXIAL FANS

COOLING CAPACITY FROM 150 to 771 kW



The images shown above are indicative and not binding.



AIR COOLED CHILLERS FOR OUTDOOR INSTALLATION WITH SCROLL COMPRESSOR, AXIAL FANS AND HEAT-EXCHANGE EXTERNAL COILS WITH MICRO-FINNED COPPER TUBES

Packaged air cooled chillers of ERAE...Kc series are suitable for outdoor installation and can be used to cool pure fluid solutions for air conditioning or in industrial applications.

Multiscroll technology allows to reach great efficiency improvements at part load, if compared to the other traditional systems for cooling capacity control.

The coupling of high-efficiency finned exchangers and the thermo physical purity of R410A refrigerant, particularly glide-free at state exchanges, allows this range to attain good nominal performances and to meet the requirements for seasonal efficiency foreseen by the (EU) Regulation 2016/2281.

These units have been designed considering limited space requirements and keeping, at the same time, high cooling performances. Such result has been attained with high-quality and up-to-date components.

All units are completely assembled and tested in the factory with specific quality procedures and are already equipped with all necessary

hydraulic, refrigerant and electrical connections for a quick installation on site.

Before factory testing, cooling circuits are tested under pressure and then supplied with R410a refrigerant and a non-freezing oil charge.

Operation limits:

Standard units

Air: from -20 to 42°C; **Water** (outlet from the evaporator): from 5 to 15°C.

WA application units

Air: from +10 to 38°C; **Water** (outlet from the evaporator): from 7,1 to 18°C.

Structure

Structure made of a base and a chassis manufactured in high-thickness galvanised steel, assembled with stainless steel rivets. All galvanised steel surfaces are powder-coated with colour RAL 7035.

Compressors

Scroll compressors with R410a refrigerant, operating on two independent circuits in tandem or trio version. The compressors are installed on rubber isolation dampers, provided with direct-start motors cooled by suction gas and fitted with both overload protection and crankcase heaters. They are charged with polyester oil and the terminal board is IP54. The on-board microprocessor automatically controls the individual compressors to regulate the cooling capacity.

Evaporator

Stainless steel plate evaporator of dual circuit type, with high thickness close cell insulation and UV ray-proof. The max operating pressure limits are 6 bar for water side and 45 bar for refrigerant side. The evaporator is also equipped with safety water flow switch switching off the unit in case of low water flow through the evaporator.

Heat-exchange coils

Heat-exchange external coils with micro-finned copper tubes, positioned in staggered rows and mechanically expanded into an aluminum finned pack. Fins are designed with such a shape providing the highest heat exchange efficiency. The max operating pressure refrigerant side is 45 relative bar.

Fans

6-poles Axial Fans with electrical motor with external rotor directly coupled to the impeller and driven by a V/F inverter system which controls the condensation temperature. Aluminum blades with wings profile are suitably designed to avoid any turbulence in the air detachment zone, granting in this way the max efficiency with the minimum noise level. The fan is equipped with galvanized steel protection grid painted after the construction. The fan motors are of totally closed type and have got a protection factor IP54 and protection winding-flooded thermostat.

Refrigerant circuit

Independent cooling circuits, each provided with a shut-off valve for refrigerant charge, antifreeze sensor, shut-off valves on liquid lines, sight glass, dehydrating filter, high-pressure safety device on high pressure refrigerant side and mechanical thermostatic expansion valve (electronic type from 40020 model to 59020) as well as high and low pressure switches and gauges.

Electric board

Electric board built in compliance with CE Norms, inside of which are placed the control system and the components for motors starting, wired and tested in the factory. It is made by a cabinet suitable for outdoor installation, containing power and control devices, microprocessor electronic board complete with keypad and display, for visualizing the several functions available, main switch of lock-door type, isolation transformer for auxiliary circuits, automatic switches,

fuses and protection switches for compressors and fans, terminals for general alarm and remote ON/OFF, terminal board, relays for phase sequencing and possibility to interface to BMS systems.

Versions

ERAE...Kc – standard version

ERAE...U Kc – Ultra silenced version (U)

Reduced sound level in version U is realised by using condensers with larger surface areas as well as soundproofed compressor cabinets.

Applications

Warm applications version (WA)

Units CE certified in compliance with the European regulation 2016/2281 at working conditions, on the use side 23°C / 18°C.

Abroad market version (AM)

Units in compliance with the European regulation whose sales is reserved to countries out of the European Union.

Technical data - ERAE U Kc serie

ERAE U Kc		16020	19020	24020	28020	32020	35120
Performance data							
Cooling capacity (EN14511)	kW	155,6	194,3	241,2	276,6	310,6	353,8
Total input power (EN14511)	kW	53,0	69,1	88,5	100,8	114,1	128,4
EER	W/W	2,94	2,81	2,73	2,74	2,72	2,76
SEER ⁽¹⁾		3,96	3,84	3,86	3,97	3,82	4,01
η _{s,c} ⁽¹⁾		155,6	150,7	151,3	155,6	150,0	157,3
Refrigerant data R410A							
Global warming potential	GWP	2088	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	71,0	87,7	91,9	116,9	112,8	150,3
Refrigerant charge	Kg	34	42	44	56	54	72
Scroll Compressors							
Quantity/Circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Nominal consumption of the unit	A	90,5	110,3	138,8	158,4	177,3	200,4
Max. current consumption of the unit	A	136	161	198	228	266	301
Max. starting current of the unit	A	251	311	378	428	446	556
Axial fans							
Quantity	n°	3	3	4	4	5	5
Motors power input	kW	4,7	4,7	6,3	6,3	7,9	7,9
Total condensing air flow	m ³ /h	62620	58560	83450	78030	104340	97570
Electrical current consumption	A	8,7	8,7	11,6	11,6	14,5	14,5
Evaporator plate heat exchanger							
Quantity	n°	1	1	1	1	1	1
Water flow	m ³ /h	26,8	33,5	41,6	47,7	53,6	61,0
Pressure drop	kPa	32,0	48,0	58,5	55,2	68,5	56,0
Sound power level ⁽²⁾	dB(A)	82,5	86,0	88,5	89,0	89,5	90,0
Power supply	V/Hz/Ph	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3

ERAE U Kc		40020	46020	51020	55020	59020
Performance data						
Cooling capacity (EN14511)	kW	393,5	470,0	504,9	540,8	591,6
Total input power (EN14511)	kW	145,6	165,8	181,8	199,6	210,4
EER	W/W	2,70	2,83	2,78	2,71	2,81
SEER ⁽¹⁾		3,80	4,22	4,15	4,17	4,10
η _{s,c} ⁽¹⁾		148,8	165,8	162,8	163,6	160,8
Refrigerant data R410A						
Global warming potential	GWP	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	183,7	233,9	258,9	258,9	263,1
Refrigerant charge	Kg	88	112	124	124	126
Scroll Compressors						
Quantity/Circuits	n°/n°	4 / 2	6 / 2	6 / 2	6 / 2	6 / 2
Nominal consumption of the unit	A	228	261,6	286,7	310,9	328,3
Max. current consumption of the unit	A	331	397	427	463	498
Max. starting current of the unit	A	581	537	647	668	693
Axial fans						
Quantity	n°	5	8	8	10	10
Motors power input	kW	7,9	9,7	9,7	12,1	12,1
Total condensing air flow	m ³ /h	91770	129030	122900	170090	161340
Electrical current consumption	A	14,5	17,8	17,8	22,3	22,3
Evaporator plate heat exchanger						
Quantity	n°	1	1	1	1	1
Water flow	m ³ /h	67,8	81,0	87,1	93,2	102,0
Pressure drop	kPa	44,5	46,5	55,0	59,0	69,0
Sound power level ⁽²⁾	dB(A)	92,5	92,5	92,5	92,5	94,0
Power supply	V/Hz/Ph	400/50/3+N+T	400/50/3+N+T	400/50/3+N+T	400/50/3+N+T	400/50/3+N+T

Performances are referred to the following conditions: ambient air temperature 35°C - water 12/7°C

(1) In accordance with (EU) 2016/2281 and relative norms part of this.

(2) Sound power level in accordance with ISO 3744.

Technical data - ERAE WA U Kc serie

ERAE WA U KC		16020	19020	24020	28020	32020	35120
Performance data							
Cooling capacity (EN14511)	kW	193,4	252,8	306,2	356,3	397,1	455,1
Total input power (EN14511)	kW	62,02	81,13	101,90	117,00	131,60	150,10
EER	W/W	3,12	3,12	3,00	3,05	3,02	3,03
SEER ⁽¹⁾		4,15	4,03	4,13	4,16	4,03	4,18
η _{s,c} ⁽¹⁾		136,0	158,3	162,0	163,5	158,3	164,1
Refrigerant data R410A							
Global warming potential	GWP	2088	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	75,2	71,0	91,9	96,0	116,9	121,1
Refrigerant charge	Kg	36	34	44	46	56	58
Scroll Compressors							
Quantity/Circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Nominal consumption of the unit	A	104,5	123,8	156,9	179,1	202,7	229,9
Max. current consumption of the unit	A	139	161	196	228	263	301
Max. starting current of the unit	A	259	326	396	443	463	576
Axial fans							
Quantity	n°	2	3	3	4	4	5
Motors power input	kW	3,14	4,71	4,71	6,28	6,28	7,85
Total condensing air flow	m ³ /h	33790	62620	58560	83450	78030	104340
Electrical current consumption	A	5,8	8,7	8,7	11,6	11,6	14,5
Evaporator plate heat exchanger							
Quantity	n°	1	1	1	1	1	1
Water flow	m ³ /h						
Pressure drop	kPa	46,0	76,0	89,0	85,0	104,0	89,0
Sound power level ⁽²⁾	dB(A)	82,5	86,0	88,5	89,0	89,5	90,0
Power supply	V/Hz/Ph	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3

ERAE WA U KC		40020	46020	51020	55020	59020
Performance data						
Cooling capacity (EN14511)	kW	512,4	598,8	661,3	709,0	754,0
Total input power (EN14511)	kW	166,60	196,00	208,2	226,60	246,30
EER	W/W	3,08	3,06	3,18	3,13	3,06
SEER ⁽¹⁾		4,11	4,58	4,67	4,62	4,29
η _{s,c} ⁽¹⁾		161,3	180,0	183,9	181,8	168,6
Refrigerant data R410A						
Global warming potential	GWP	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	154,5	187,9	233,9	263,1	263,1
Refrigerant charge	Kg	74	90	112	126	126
Scroll Compressors						
Quantity/Circuits	n°/n°	4 / 2	6 / 2	6 / 2	6 / 2	6 / 2
Nominal consumption of the unit	A	256,7	302,7	321,8	350,7	377,1
Max. current consumption of the unit	A	331	397	427	462	498
Max. starting current of the unit	A	606	572	687	712	728
Axial fans						
Quantity	n°	5	8	8	8	10
Motors power input	kW	7,85	9,68	9,68	9,68	12,1
Total condensing air flow	m ³ /h	97570	136040	129030	122900	170090
Electrical current consumption	A	14,5	17,84	17,84	17,84	22,3
Evaporator plate heat exchanger						
Quantity	n°	1	1	1	1	1
Water flow	m ³ /h					
Pressure drop	kPa	69,5	74,5	90,0	95,0	106,0
Sound power level ⁽²⁾	dB(A)	92,5	92,5	92,5	92,5	94,0
Power supply	V/Hz/Ph	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3

Performances are referred to the following conditions: ambient air temperature 35°C - water 23/18°C

(1) In accordance with (EU) 2016/2281 and relative norms part of this.

(2) Sound power level in accordance with ISO 3744.

Technical data - ERAE AM U Kc serie

ERAE AM U KC		16020	19020	24020	28020	32020	35120
Performance data							
Cooling capacity (EN14511)	kW	147,1	188,1	231,5	269,5	301,1	345,3
Total input power (EN14511)	kW	55,4	71,9	91,0	104,0	116,3	132,2
EER	W/W	2,65	2,62	2,54	2,59	2,59	2,61
SEER ⁽¹⁾		3,54	3,50	3,58	3,63	3,58	3,68
η _{s,c} ⁽¹⁾		138,6	137,1	140,1	142,0	140,2	144,1
Refrigerant data R410A							
Global warming potential	GWP	2088	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	75,2	71,0	91,9	96,0	116,9	121,1
Refrigerant charge	Kg	36	34	44	46	56	58
Scroll Compressors							
Quantity/Circuits	n°/n°	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Nominal consumption of the unit	A	95,9	113,9	143,8	162,7	182,6	206
Max. current consumption of the unit	A	139	161	196	228	263	301
Max. starting current of the unit	A	254	316	386	433	448	561
Axial fans							
Quantity	n°	2	3	3	4	4	5
Motors power input	kW	3,14	4,71	4,71	6,28	6,28	7,85
Total condensing air flow	m ³ /h	33790	62620	58560	83450	78030	104340
Electrical current consumption	A	5,8	8,7	8,7	11,6	11,6	14,5
Evaporator plate heat exchanger							
Quantity	n°	1	1	1	1	1	1
Water flow	m ³ /h	25,4	32,4	39,9	46,5	51,9	59,5
Pressure drop	kPa	29,0	45,0	54,0	52,5	64,5	53,5
Sound power level ⁽²⁾	dB(A)	82,5	86,0	88,5	89,0	89,5	90,0
Power supply	V/Hz/Ph	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3

ERAE AM U KC		40020	46020	51020	55020	59020
Performance data						
Cooling capacity (EN14511)	kW	387,5	450,7	500,6	537,9	573,5
Total input power (EN14511)	kW	146,3	173,4	184,0	199,6	217,6
EER	W/W	2,65	2,60	2,72	2,69	2,64
SEER ⁽¹⁾		3,66	3,93	4,03	3,85	3,85
η _{s,c} ⁽¹⁾		143,6	154,3	158,3	151,0	151,2
Refrigerant data R410A						
Global warming potential	GWP	2088	2088	2088	2088	2088
Equivalent CO ₂ charge	t	154,5	187,9	233,9	263,1	263,1
Refrigerant charge	Kg	74	90	112	126	126
Scroll Compressors						
Quantity/Circuits	n°/n°	4 / 2	6 / 2	6 / 2	6 / 2	6 / 2
Nominal consumption of the unit	A	229	272,5	289,8	314,5	338,8
Max. current consumption of the unit	A	331	397	427	462	498
Max. starting current of the unit	A	586	542	657	677	693
Axial fans						
Quantity	n°	5	8	8	8	10
Motors power input	kW	7,85	9,68	9,68	9,68	12,1
Total condensing air flow	m ³ /h	97570	136040	129030	122900	170090
Electrical current consumption	A	14,5	17,84	17,84	17,84	22,3
Evaporator plate heat exchanger						
Quantity	n°	1	1	1	1	1
Water flow	m ³ /h	66,8	77,7	86,3	92,7	98,9
Pressure drop	kPa	43,5	43,0	54,5	58,5	65,0
Sound power level ⁽²⁾	dB(A)	92,5	92,5	92,5	92,5	94,0
Power supply	V/Hz/Ph	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3

Performances are referred to the following conditions: ambient air temperature 35°C - water 12/7°C

(1) In accordance with (EU) 2016/2281 and relative norms part of this.

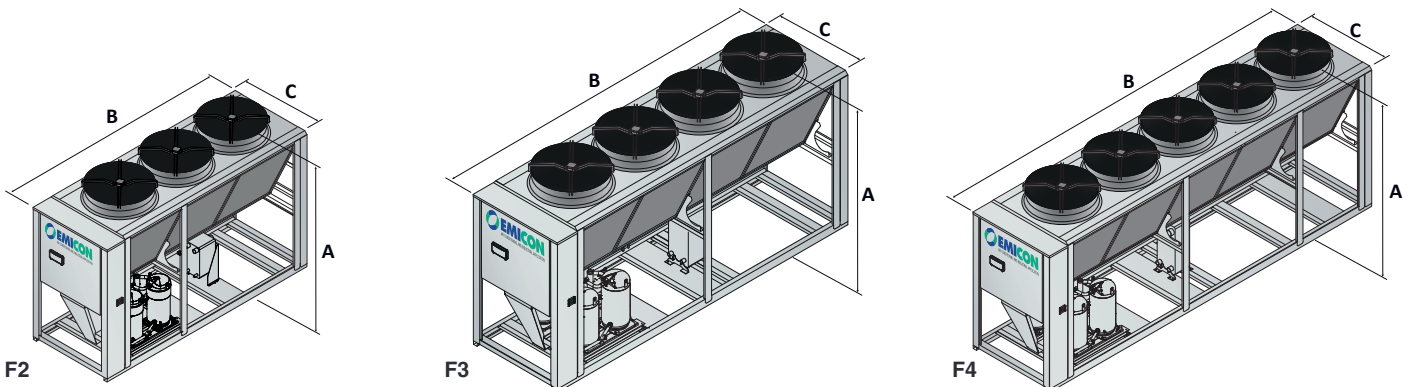
(2) Sound power level in accordance with ISO 3744.

Accessories - ERAE U Kc serie

ERAE U Kc		16020	19020	24020	28020	32020	35120
Amperometer	A	o	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	●	●	●	●	●	●
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	o	o	o	o	o
Compressors inrush counter	CS	o	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o	o
Pump group	P1	o	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o	o
Remote display	PQ	o	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o	o
Electronic thermostatic valve	TE	o	o	o	o	o	o
Voltmeter	V	o	o	o	o	o	o
Brine Version	VB	o	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o	o
Power factor correction system cosfi ≥ 0,9	RF	o	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE U Kc serie



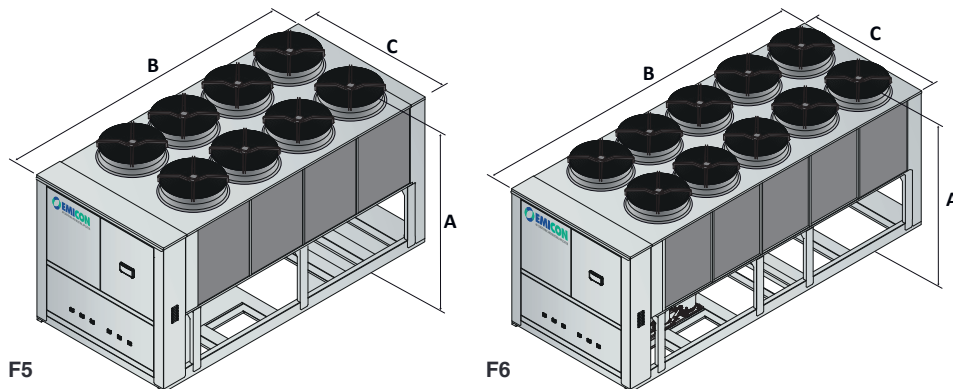
Mod.		A (mm)	B (mm)	C (mm)	Kg
16020	F2	2420	3700	1370	1400
19020	F2	2420	3700	1370	1834
24020	F3	2420	4740	1370	1990
28020	F3	2420	4740	1370	2196
32020	F4	2420	5780	1370	2244
35120	F4	2420	5780	1370	2518

Accessories - ERAE U Kc serie

ERAE U Kc		40020	46020	51020	55020	59020
Amperometer	A	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	●	●	●	●	●
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	-	-	-	-
Compressors inrush counter	CS	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o
Pump group	P1	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o
Remote display	PQ	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o
Electronic thermostatic valve	TE	●	●	●	●	●
Voltmeter	V	o	o	o	o	o
Brine Version	VB	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o
Power factor correction system cosφ ≥ 0,9	RF	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE U Kc serie



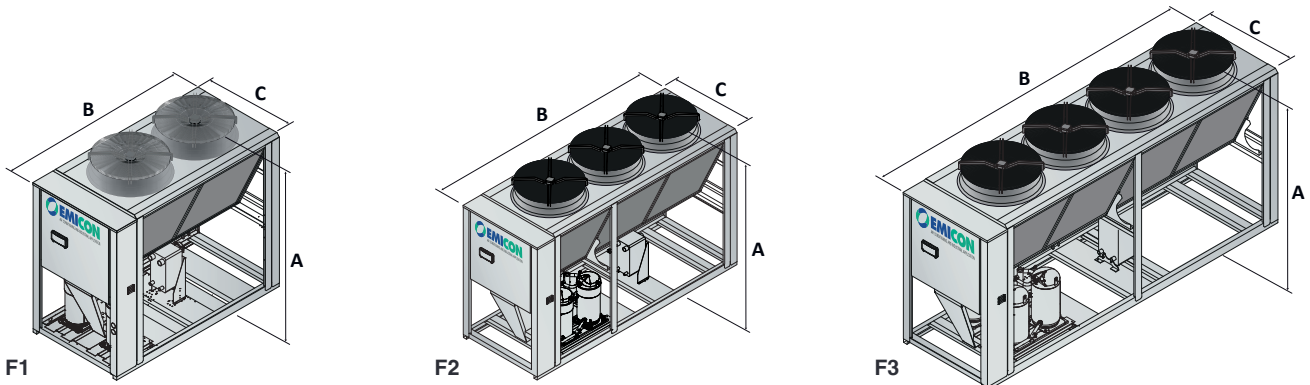
Mod.		A (mm)	B (mm)	C (mm)	Kg
40020	F4	2420	5780	1370	2686
46020	F5	2560	4750	2300	3678
51020	F5	2560	4750	2300	3996
55020	F6	2560	5720	2300	4210
59020	F6	2560	5720	2300	4482

Accessories - ERAE WA U Kc serie

ERAE WA U KC		16020	19020	24020	28020	32020	35120
Amperometer	A	o	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	o	o	o	o	o	o
Low ambient temperature operation (down to 20°C)	BT	o	o	o	o	o	o
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	o	o	o	o	o
Compressors inrush counter	CS	o	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o	o
Pump group	P1	o	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o	o
Remote display	PQ	o	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o	o
Electronic thermostatic valve	TE	o	o	o	o	o	o
Voltmeter	V	o	o	o	o	o	o
Brine Version	VB	o	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o	o
Power factor correction system cosφ ≥ 0,9	RF	o	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE WA U Kc serie



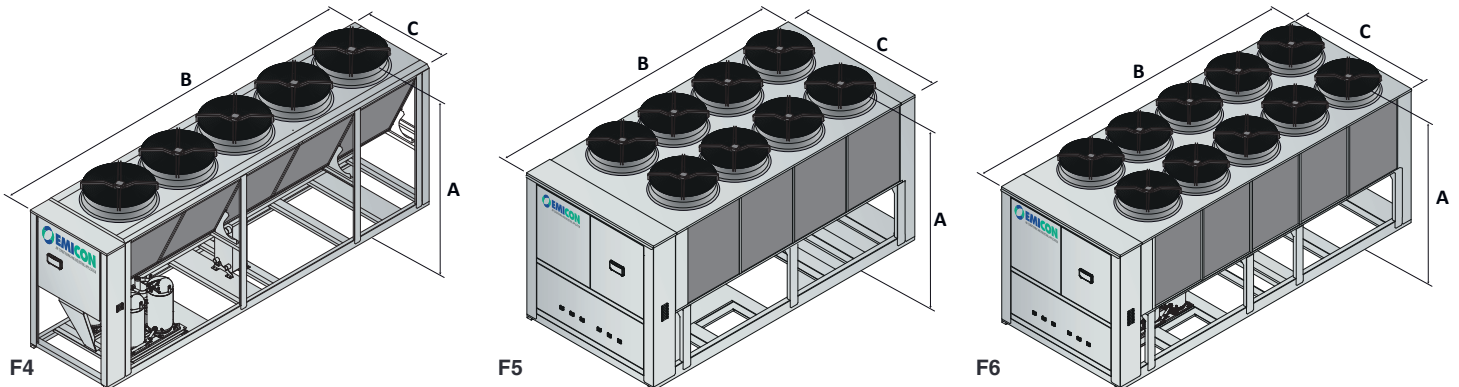
Mod.		A (mm)	B (mm)	C (mm)	Kg
16020	F1	2420	2660	1370	1324
19020	F2	2420	3700	1370	1748
24020	F2	2420	3700	1370	1904
28020	F3	2420	4740	1370	2084
32020	F3	2420	4740	1370	2196
35120	F4	2420	5780	1370	2378

Accessories - ERAE WA U Kc serie

ERAE WA U Kc		40020	46020	51020	55020	59020
Amperometer	A	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	o	o	o	o	o
Low ambient temperature operation (down to 20°C)	BT	o	o	o	o	o
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	o	o	o	o
Compressors inrush counter	CS	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o
Pump group	P1	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o
Remote display	PQ	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o
Electronic thermostatic valve	TE	●	●	●	●	●
Voltmeter	V	o	o	o	o	o
Brine Version	VB	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o
Power factor correction system cosφ ≥ 0,9	RF	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE WA U Kc serie



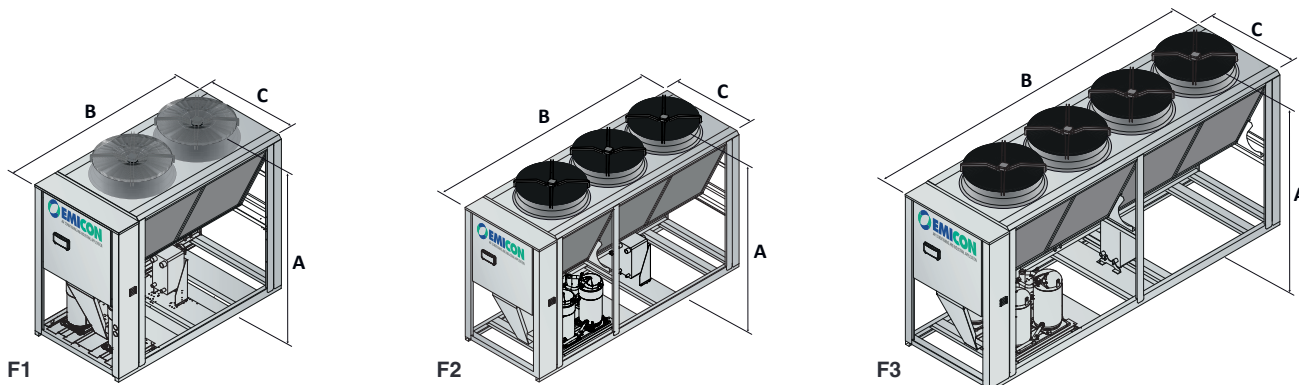
Mod.		A (mm)	B (mm)	C (mm)	Kg
40020	F4	2420	5780	1370	2540
46020	F5	2560	4750	2300	3458
51020	F5	2560	4750	2300	3768
55020	F5	2560	4750	2300	4000
59020	F6	2560	5700	2300	4236

Accessories - ERAE AM U Kc serie

ERAE AM U KC		16020	19020	24020	28020	32020	35120
Amperometer	A	o	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	o	o	o	o	o	o
Low ambient temperature operation (down to 20°C)	BT	o	o	o	o	o	o
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	o	o	o	o	o
Compressors inrush counter	CS	o	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o	o
Pump group	P1	o	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o	o
Remote display	PQ	o	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o	o
Electronic thermostatic valve	TE	o	o	o	o	o	o
Voltmeter	V	o	o	o	o	o	o
Brine Version	VB	o	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o	o
Power factor correction system cosφ ≥ 0,9	RF	o	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE AM U Kc serie



Mod.		A (mm)	B (mm)	C (mm)	Kg
16020	F1	2420	2660	1370	1324
19020	F2	2420	3700	1370	1748
24020	F2	2420	3700	1370	1904
28020	F3	2420	4740	1370	2084
32020	F3	2420	4740	1370	2196
35120	F4	2420	5780	1370	2378

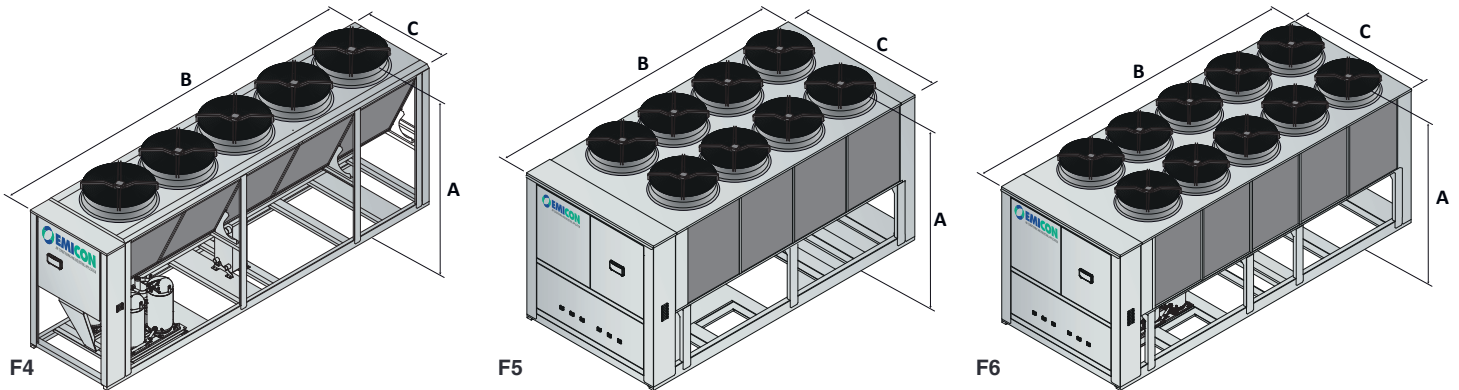
AIR COOLED CHILLERS

Accessories - ERAE AM U Kc serie

ERAE AM U Kc		40020	46020	51020	55020	59020
Amperometer	A	o	o	o	o	o
Low ambient temperature operation (down to -20°C)	BF	o	o	o	o	o
Low ambient temperature operation (down to -8°C)	BT	o	o	o	o	o
Soundproofed compressors cabinet with standard material	CF	●	●	●	●	●
Overall compressor and technical compartment cabinet	CFT	o	-	-	-	-
Compressors inrush counter	CS	o	o	o	o	o
Axial fans with electronic commutated motor	EC	o	o	o	o	o
Condensing coil protection grid	GP	o	o	o	o	o
Anti-intrusion grid	GP2	o	o	o	o	o
Anti-intrusion grid with compressors cabinet	GP3	o	o	o	o	o
Victaulic insulation on pump side	I1	o	o	o	o	o
Victaulic insulation buffer tank side	I2	o	o	o	o	o
RS 485 Serial interface	IH	o	o	o	o	o
LON Protocol serial interface	IH (LON)	o	o	o	o	o
Seawood packing	IM	o	o	o	o	o
SNMP or TCP/IP Protocol serial interface	IWG	o	o	o	o	o
Phase monitor	MF	o	o	o	o	o
Buffer tank module	MV	o	o	o	o	o
Pump group	P1	o	o	o	o	o
Higher available pressure pump group	P1H	o	o	o	o	o
Double pump group (only one working)	P2	o	o	o	o	o
Higher available pressure double pump group (only one working)	P2H	o	o	o	o	o
Rubber-type vibration dampers	PA	o	o	o	o	o
Spring-type vibration dampers	PM	o	o	o	o	o
Remote display	PQ	o	o	o	o	o
In-line twin pump group (only one working)	PT	o	o	o	o	o
Anti-freeze heater on evaporator	RA	o	o	o	o	o
Shut-off valve on compressors discharge side	RD	o	o	o	o	o
Shut-off valve on compressors suction side	RH	o	o	o	o	o
Electronic thermostatic valve	TE	●	●	●	●	●
Voltmeter	V	o	o	o	o	o
Brine Version	VB	o	o	o	o	o
Solenoid valve	VS	o	o	o	o	o
Compressor overload relays	RL	o	o	o	o	o
Power factor correction system cosfi ≥ 0,9	RF	o	o	o	o	o
Total heat recovery	RT	o	o	o	o	o
Copper/Copper coil	RR	o	o	o	o	o
Condensing coil with pre-painted fins	RM	o	o	o	o	o
Personalized frame painting in alternative RAL colour	RV	o	o	o	o	o

● Standard o Optional - Not available

Dimensions - ERAE AM U Kc serie



Mod.		A (mm)	B (mm)	C (mm)	Kg
40020	F4	2420	5780	1370	2540
46020	F5	2560	4750	2300	3458
51020	F5	2560	4750	2300	3768
55020	F5	2560	4750	2300	4000
59020	F6	2560	5700	2300	4236