









We believe in a job well done

When Euroklimat was founded in 1963, our mission was simple: to make the best air-conditioners in the world.

Today we have added more: efficiency maximization, energy saving and respect for the surrounding environment have become constant objectives of our everyday work.

With our sophisticated technology, constant innovation and flexible market approach, we were the first to develop the widest range of chillers with natural gas, R290.

Our mission for the future is to become a market leader in the construction of R290 chillers.

Michele Bedin CEO EUROKLIMAT











Our plants and quality management

Over 50 years of business

Since we set up business in 1963, the company's head offices have always been in Italy, near Milan. Today, our aim is to be a market leader in chillers with natural refrigerant (propane): by doing this, we are helping the industry to become more efficient, preserving natural resources and protecting the environment.

Organization in Italy

At our Italian plant spread over an area of 6,000 square metres, with a work force of 60 people, Euroklimat designs and produces refrigeration units, heat pumps and precision air conditioners that can be used both in industrial processes and traditional comfort applications.

Infinite quality

Euroklimat firmly believes that Customer Satisfaction is an indispensable factor for success. A priority objective to achieve this result is the constant improvement of our products, services and the relative production processes. This objective means involving all of the company's resources with planned, systematic activities for Quality; for this reason, our system complies with the international standard UNI EN ISO 9001:2015.

Organization in China

Our plant covers a surface of approximately 40,000 square metres, with over 450 people and includes a large test chamber and a sophisticated R&D laboratory, in addition to real production departments, where the performance of the units is measured before being placed on the market.









Natural Cooling applications



Cooling units designed especially for all activities in which it is important to keep distribution products at a controlled temperature, such as storage areas or

refrigerated goods in supermarkets.

Euroklimat's machines are able to guarantee an extremely high level of reliability and can reach negative temperatures on a medium level (-8 °C).







Euroklimat's responses

Safety

Energy efficiency

100% environmentally-friendly

DNV certification

Optimisation in the choice of components

Machines with natural refrigerant



Natural Cooling references

Pharmaceutical industry

- Roche Diagnostic Mannheim | Germany
- Regional Hospital St. Pölten | Austria
- Danish Technological Institute | Taastrup



Mass retailing



- Metro | Padova
- Carrefour Galati | Romania
- Waitrose | England

Food industry



- Del Monte Foods | England
- The Coca Cola Company | Brazil



- Metro Copenhagen | Denmark
- Mekanotjänst Järvsö AB | Sweden
 - E.ON Kernkraft GmbH | Germany





Cold stores



- John Lewis Birmingham | England
- Marathon Logistic Kostrzyn | Poland
- Carrefour Mega Mall | Bucharest

Market leader in R290 chillers Here's why



It is natural

Propane is an aliphatic hydrocarbon that belongs to the series of paraffins. It is obtained by fractional distillation from oil and natural gas.

At ambient pressure and temperature, it is a colourless, odourless gas that is nonetheless easy to liquefy; it is used as fuel for cars, as well as for domestic and industrial purposes, besides supplying camping lamps and stoves.



It is efficient

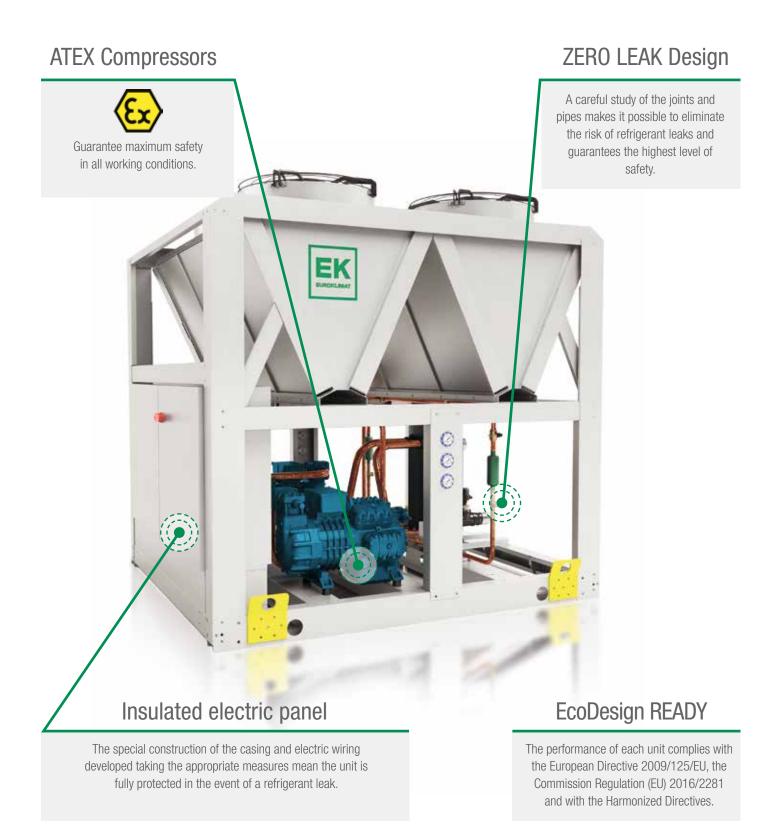
EER: + 12% compared to an equivalent R410A machine. Wide range of uses:

- HVAC
- Process Cooling
- Medium Temperature

The technical measures Euroklimat adopts for its chillers, in keeping with current regulations and directives, together with its ZERO LEAKS policy, mean it is possible to obtain extremely high levels of safety and guarantee maximum reliability in all working

It is safe

Quality, performance and reliability second to none



Axial fans air cooled water chillers and heat pumps for comfort applications

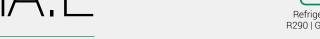


Natural Cooling

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PRIMA.E

004 ←→ 064 d











Air cooled water chillers



Solution

B - Base

Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

Cooling Capacity 4,7 - 67,1 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are internally to reduce the noise level (LN Accessories only).	ined
Compressor	Hermetic scroll compressor ATEX certified, with spirals orbiting specially designed and optimized for use with the selected refrigerant. The compress complete with dedicated oil for Propane and has a fully hermetic design, safe for flammable refrigerants. The compressor is fitted on rubber antivibra mounts in order to reduce vibration to the structure. The electrical terminals of the motor are placed in a dedicated box realized with IP65 protection	ation
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degaerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones (LN Accessory only).	jree;
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.	
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performation results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are there insulated with closed-cell neoprene anti-condensate material. Air vent valve included.	
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting, installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interesting the vice. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.	ng to
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.	_
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low sw Solenoid valves and pressure switches are ATEX certified.	itch.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power su. The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, manage microprocessor, activate LED status indicator.	
Water circuit	(Integrated): Water pressure gauge, safety valve, centrifugal pump suitable for glycol solutions up to 20%, manual air venting valve, water tank.	
	NOTE: in the integrated version of Propane chillers water pump is supplied separately from the machine; the price includes not only the pump itself also the electrical control unit installed in the electrical panel of the chiller.	f but
ACCESSORIES	■ Spring vibration isolation ■ EC condensing Fans ■ Electromechanical flow switch ■ Rubber vibration isolation ■ Max and min voltage relay ■ Wall mounted remote control panel ■ Modulating fan speed condensing control ■ Refrigerant gauges (standard) ■ ModBus® (RS 485) interface	



004 ←→ 064 d

Air cooled water chillers

									Avai	ilable fr	om Q3/2	2018				Avail	able fro	m Q3/2	018
PRIMA.E		004	006	008	009	011	013	016	019	022		032	022 d	026 d	032 d				
COOLING																			
Cooling capacity (1)	kW	4,7	6,2	7,8	9,2	11,3	13,2	16,5	19,8	22,5	28,1	33,5	22,6	26,4	33,1	38,7	44,9	56,3	67,1
Cooling capacity (1) (EN 14511 VALUE)	kW	4,6	6,1	7,7	9,1	11,2	13,1	16,3	19,6	22,3	27,8	33,2	22,5	26,2	32,9	38,5	44,6	56,0	66,7
Total compressors power input (1)	kW	1,4	2,1	2,5	2,9	3,7	4,2	5,2	5,9	7,2	8,9	10,6	7,3	8,3	10,4	11,9	14,3	17,8	21,2
EER - Energy Efficiency Ratio	-	3,02	2,60	2,81	2,92	2,86	2,67	2,78	3,07	2,90	2,97	2,97	2,88	2,98	2,98	2,98	2.86	2,89	2,86
Saved CO2 equivalent Ton (*)	Ton	1.230	1.720	2.160	2.540	3.120	3.640	4.570	5.480		7.780	9.270		7.280	9.290	10.890	12.630	15.800	18.850
DESUPERHEATER (Option)																			
Heating capacity (2)	kW	-	-	-	2,1	2,6	3	3,8	4,5	5,1	6,4	7,7	5,2	6	7,6	8,9	10,3	12,9	15,3
Water flow	m3/h	-	-	-	0,4	0,4	0,5	0,7	0,8	0,9	1,1	1,3	0,9	1	1,3	1,5	1,8	2,2	2,7
Pressure drop	kPa	-	-	-	28	30	35	32	36	31	29	35	36	38	32	34	30	33	37
REFRIGERANT CIRCUIT																			
Refrigerant		R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Compressors type	-										etic scrol		'						
Compressors type Compressors quantity	n°	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	-		ı			ı		l I	'			ı							
Fans type	n°	1	1	1	1	1	1	1	1	1	al (AC)	1	1	1	1			3	0
Fans quantity				-			-			'	1					2	2	-	3
Total air flow	m3/h	2.900	3.650	3.650	4.900	4.900	5.300		8.600	8.600	8.250	11.500		8.250		17.200		-	
Fans power input (1)	kW	0,15	0,28	0,28	0,25	0,25	0,74	0,74	0,55	0,55	0,56	0,69	0,55	0,56	0,69	1,1	1,38	1,69	2,28
Evaporator water flow (1)	m3/h	0,8	1,1	1,3	1,6	1,9	2,3	2,8	3,4	3,9	4,8	5,8	3,9	4,5	5,7	6,7	7,7	9,7	11,5
Evaporator pressure drop (1)	kPa	41	35	53	34	49	33	50	27	33	33	45	22	27	40	28	34	38	40
HYDRONIC KIT - 100 kPa useful head	(Option)																		
Buffer tank capacity		30	30	30	30	30	30	30	60	60	60	60	60	60	60	150	150	150	150
Pump type	-									Cen	trifugal								
Pump motor nominal power	kW	0,37	0,37	0,37	0,37	0,37	0,37	0,37	0,55	0.55	0.55	0,55	0,55	0,55	0,55	0.9	0.9	0,9	0,9
		/-							,	,	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			- 7			
Electrical Data								40	0.10.15.0	000/	/E 0. /f								
Power supply	V/ph/Hz+T										/50 (for								
Maximum power input without pump	kW	1,9	2,7	3,2	3,7	4,5	5,6	6,8	8	9	11,3	13,7	9	10,3	13,1	16	18,6	23,1	28,2
Locked rotor current – LRA without pump	Α	26,4	32,6	46,6	64,7	64,7	75,4	103,4	120	132,9	160,7	187,9		87,5	120,2	140,4	156,4		221,2
Maximum absorbed current - FLA without pump	А	4,5	5,8	7,4	8,9	10,8	13,2	17,3	20,1	22,2	26,5	31,3	21,9	25,3	34,1	40,6	45,7	54,6	64,6
Noise levels (3)																			
Total sound pressure (3) - ST Version	dB(A)	53	54	54	55	55	56	56	55	55	55	57	56	56	57	57	57	58	58
Total sound pressure (3) - LN Version	dB(A)	49	50	50	51	51	52	52	51	51	51	53	52	52	53	53	53	54	54
DIMENSIONS AND WEIGHT - Base Solution	г			1,	1,000		1,000												
Length (L)	mm	1.230	1.230	1.230	1.380	1.380	1.380	1.380	1.680	1.680	1.680	1.680	1.680	1.680	1.680	2.330	2.330		3.030
Depth (P)	mm	650	650	650	800	800	800	800	990	990	990	990	990	990	990	990	990	990	990
Height (H)	mm	1.320	1.320	1.320	1.785	1.785	1.785	1.785	2.055	2.055	2.055	2.075	2.055	2.055	2.075	2.155	2.155	2.155	2.155
Shipping weight	Kg	185	190	205	250	255	265	270	480	490	495	510	560	570	585	750	760	980	1010
DIMENSIONS AND WEIGHT - Integrated So	lution																		
Length (L)	mm	1.230	1.230	1.230	1.380	1.380	1.380	1.380	1.680	1.680	1.680	1.680	1.680	1.680	1.680	2.330	2.330	3.030	3.030
Depth (P)	mm	650	650	650	800	800	800	800	990	990	990	990	990	990	990	990	990	990	990
Height (H)	mm	1.320	1.320	1.320	1.785	1.785	1.785	1.785	2.055	2.055	2.055	2.075	2.055	2.055	2.075	2.155	2.155	2.155	2.155
	Kg	240	250	270	325	330	350	360	640	650	655	660	730	740	760	975	990	1270	1310
Shipping weight	Ny	_ Z4U	_ Z0U	1210	_ 3Z3	_ აა U	30U	_ 30U	040	000	000	UOO	_ / JU	I /4U	700	9/0	990	12/0	1310

Reference conditions:

- (1) Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Cu/Al
- (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Cu/Al
- (3) Sound pressure level (average) at 10 m, unit in a free field on a reflective surface
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives.

The relevant information related to each model (eg.: SEER_{on}, Rated cooling capacity, Seasonal space cooling energy efficiency,) are published on our website www.euroklimat.it



Euroklimat has developed an online software called "wEKool" that allows you to select the most suitable solution to meet the specific request and all the available accessories for each model. For more information, please contact your sales representative.

PRIMA.E/PC









004 ←→ 043 d

Air cooled water chillers



Solution

B - Base

Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

Cooling Capacity 4,7 - 44,9 kW

Heating capacity 4,8 - 45,5 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are internally lined to reduce the noise level (LN Accessories only).
Compressor	Hermetic scroll compressor ATEX certified, with spirals orbiting specially designed and optimized for use with the selected refrigerant. The compressor is complete with dedicated oil for Propane and has a fully hermetic design, safe for flammable refrigerants. The compressor is fitted on rubber antivibration mounts in order to reduce vibration to the structure. The electrical terminals of the motor are placed in a dedicated box realized with IP65 protection.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree; aerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only)
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are thermally insulated with closed-cell neoprene anti-condensate material. Air vent valve included.
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according to standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interlock safety device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solenoid valve, intercepting valve on the liquid line, HP and LP pressure switches, cycle reversing valve, gas separator and liquid receiver, thermostatic expansion valve. Solenoid valves and pressure switches are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power supply. The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, managed by microprocessor, activate LED status indicator.
Water circuit	(Integrated): Water pressure gauge, safety valve, centrifugal pump suitable for glycol solutions up to 20%, manual air venting valve, water tank.
	NOTE: in the integrated version of Propane chillers water pump is supplied separately from the machine; the price includes not only the pump itself but also the electrical control unit installed in the electrical panel of the chiller.
ACCESSORIES	■ Spring vibration isolation ■ Max and min voltage relay ■ Additional stand-by water pump ■ Rubber vibration isolation ■ Refrigerant gauges (standard) ■ Wall mounted remote control panel ■ Modulating fan speed condensing control ■ Electromechanical flow switch ■ ModBus® (RS 485) interface

PRIMA.E/PC

004 ←→ 043 d

Air cooled water chillers

									Ava	ailable fro	om Q3/2	018			Availab	le from	Q3/2018
PRIMA.E/PC		004	006	008	009	011	013	016	019	022	026	032	022 d	026 d	032 d	037 d	043 d
COOLING								1									
Cooling capacity (1)	kW	4,7	6,2	7,8	9,2	11,3	13,2	16,5	19,8	22,5	28,1	33,5	22,6	26,4	33,1	38,7	44,9
Cooling capacity (1) (EN 14511 VALUE)	kW	4,6	6,1	7,7	9,1	11,2	13,1	16,3	19,6	22,3	27,8	33,1	22,5	26,2	32,9	38,5	44,6
Total compressors power input (1)	kW	1,4	2,1	2,5	2,9	3,7	4,2	5,2	5,9	7,2	8,9	10,6	7,3	8,3	10,4	11,9	14,3
EER - Energy Efficiency Ratio	-	3,03	2,61	2,81	2,92	2,86	2,67	2,78	3,07	2,9	2,97	2,97	2,88	2,98	2,98	2,98	2,86
Saved CO2 equivalent Ton (*)	Ton	1.230	1.720	2.160	2.540	3.120	3.640	4.570	5.480	6.200	7.780	9.270	6.235	7.280	9.290	10.890	12.630
HEATING																	
Heating capacity (2)	kW	4,8	6,3	7,8	9,5	11,4	13,5	16,6	20,1	22,7	28,5	34,1	22,9	26,6	33,5	39,5	45,5
Heating capacity (2) (EN 14511 VALUE)	kW	4,9	6,4	7,9	9,6	11,6	13,6	16,8	20,3	22,9	28,7	34,3	23,1	26,8	33,8	39,7	45,7
Total compressors power input (2)	kW	1,4	2,1	2,5	3,1	3,7	4,3	5,3	6,1	7,3	9,2	10,9	7,5	8.5	10,7	12,3	14,7
COP - Coefficient Of Performance	-	3,10	2,65	2,81	2,84	2,89	2,68	2,75	3,02	2,89	2,92	2,94	2,85	2,94	2,95	2,95	2,83
COL COCINCION OF FORMANDO		0,10	2,00	2,01	2,04	2,00	2,00	2,10	0,02	2,00	2,52	2,54	2,00	2,54	2,00	2,00	2,00
REFRIGERANT CIRCUIT					(1	1	1						1			
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290						
Independent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Compressors type	-								Herme	etic scroll							
Compressors quantity	n°	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
Fans type	-								Axi	al (AC)							
Fans quantity	n°	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Total air flow	m3/h	2.900	3.650	3.650	4.900	4.900	5.300	5.300	8.600	8.600	8.250	11.500	8.600	8.250	11.500	17.200	23.000
Fans power input (1)	kW	0,15	0,28	0,28	0,25	0,25	0,74	0,74	0,55	0,55	0,56	0,69	0,55	0,56	0,69	1,1	1,38
Evaporator water flow (1)	m3/h	0,8	1,1	1,3	1,6	1,9	2,3	2,8	3,4	3,9	4,8	5,8	3,9	4,5	5,7	6,7	7,7
Evaporator pressure drop (1)	kPa	41	35	53	34	49	33	50	27	33	33	45	23	27	40	28	34
HYDRONIC KIT - 100 kPa useful head	(ontion)																
Buffer tank capacity	(Uption)	30	30	30	30	30	30	30	60	60	60	60	60	60	60	150	150
Pump type	_ L	30	30	30	30	30	30	30		trifugal	00	00	00	00	00	130	130
Pump motor nominal power	kW	0,37	0,37	0,37	0,37	0,37	0,37	0,37	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0.9	0,9
Fump motor norminal power	KVV	0,57	0,57	0,57	0,57	0,57	0,37	0,37	0,55	0,55	0,55	0,55	0,55	0,55	0,55	0,9	0,9
Electrical Data																	
Power supply	V/ph/Hz+T						4	00/3/50	+230/1	/50 (for	gas dete	ctor)					
Maximum power input without pump	kW	1,9	2,7	3,2	3,7	4,5	5,6	6,8	8,0	9,0	11,3	13,7	9,0	10,3	13,1	16,0	18,6
Locked rotor current – LRA without pump	Α	26,4	32,6	46,6	64,7	64,7	75,4	103,4	120,0	132,9	160,7	187,9	75,8	87,5	120,2	140,4	156,4
Maximum absorbed current - FLA without pump	Α	4,5	5,8	7,4	8,9	10,8	13,2	17,3	20,1	22,2	26,5	31,3	21,9	25,3	34,1	40,6	45,7
Noise levels (3)	ID(A)												T 50				
Total sound pressure (3) - ST Version	dB(A)	53	54	54	55	55	56	56	55	55	55	57	56	56	57	57	57
Total sound pressure (3) - LN Version	dB(A)	49	50	50	51	51	52	52	51	51	51	53	52	52	53	53	53
DIMENSIONS AND WEIGHT - Base Solution	1																
Length (L)	mm	1.230	1.230	1.230	1.380	1.380	1.380	1.380	1.680	1.680	1.680	1.680	1.680	1.680	1.680	2.330	2.330
Depth (P)	mm	650	650	650	800	800	800	800	990	990	990	990	990	990	990	990	990
Height (H)	mm	1.320	1.320	1.320	1.785	1.785	1.785	1.785	2.055	2.055	2.055	2.075	2.055	2.055	2.075	2.155	2.155
Shipping weight	Kg	205	210	225	275	280	290	300	530	540	545	560	620	630	645	825	840
DIMENSIONS AND WEIGHT. In: 1.10	1																
Length (L)	nm mm	1.230	1.230	1.230	1.380	1.380	1.380	1.380	1.680	1.680	1.680	1.680	1.680	1.680	1.680	2.330	2.330
Depth (P)		650	650	650	800	800	800	800	990	990	990	990	990	990	990	990	990
	mm				1.785			1.785					2.055				
Height (H)	mm	1.320	1.320	1.320		1.785	1.785		2.055	2.055	2.055	2.075		2.055	2.075	2.155	2.155
Shipping weight	Kg	265	275	300	360	365	385	400	700	715	720	730	800	815	840	1.070	1.090

Reference conditions:

- (1) Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Cu/Al
- (2) Evaporator air 7°C U.R. 85% Condenser water IN/OUT 40/45°C Fluid: pure water Condensing coil: Cu/Al
- (3) Sound pressure level (average) at 10 m, unit in a free field on a reflective surface
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives.

The relevant information related to each model (eg.: SEER_{on}, Rated cooling capacity, Seasonal space cooling energy efficiency,) are published on our website www.euroklimat.it



Euroklimat has developed an online software called "wEKool" that allows you to select the most suitable solution to meet the specific request and all the available accessories for each model. For more information, please contact your sales representative.



21 S 401 S









Air cooled water chillers



Solution

B - Base

- Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

Cooling Capacity 7,8 - 83,0 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are internally lined to reduce the noise level (LN Accessories only).
Compressor	Reciprocating semihermetic type, fixed on anti-vibration system and complete with pressure lubrication system; oil crankcase heater, integral electronic protection and inlet plus outlet valves; capacity control head (from model 251), flexible joints on suction and discharge. The compressor is mechanically optimized for use with Hydrocarbons and built in according to Directive ATEX 2014/34/EU for the safety requirements: Zone 2, Gas group IIB. Some components are ATEX certified.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree; aerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only)
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are thermally insulated with closed-cell neoprene anti-condensate material. Air vent valve included.
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according to standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interlock safety device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, sight glass and liquid moisture, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low switch, oil-pump differential pressure switch (from size 251). Some components are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power supply. The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, managed by microprocessor, activate LED status indicator.
Water circuit	(Integrated): Water pressure gauge, safety valve, centrifugal pump suitable for glycol solutions up to 20%, manual air venting valve, water tank. NOTE: in the integrated version of Propane chillers water pump is supplied separately from the machine; the price includes not only the pump itself but also the electrical control unit installed in the electrical panel of the chiller.
ACCESSORIES	■ Spring vibration isolation ■ Rubber vibration isolation ■ Rubber vibration isolation ■ Max and min voltage relay ■ Modulating fan speed condensing control ■ Part-winding soft start ■ Electromechanical flow switch ■ Additional stand-by water pump ■ Wall mounted remote control panel ■ ModBus® (RS 485) interface



RKO.E		21 S	31 S	51 S	81 S	121 S	151 S	201 S	251 S	301 S	351 S	401 S
COOLING												
Cooling capacity (1)	kW	7,8	12,1	16,2	22,8	28,6	35,1	39,9	48,5	59,9	70,3	83
Cooling capacity (1) (EN 14511 VALUE)	kW	7,8	12	16,1	22,6	28,5	34,9	39,6	48,3	59,6	70	82,7
Total compressors power input (1)	kW	2,4	4,3	5,2	7,2	9,1	10,9	12,2	15,3	16,9	21,5	26,2
EER - Energy Efficiency Ratio	-	3,01	2,63	2,82	2,92	2,90	2,81	2,91	2,89	3,10	2,94	2,90
Saved CO2 equivalent Ton (*)	Ton	2130	4080	4790	6740	8870	9760	9760	14190	19510	20400	21290
DESUPERHEATER (option)												
Heating capacity (2)	kW	2.1	3,2	4.3	6.1	7.6	9.4	10.7	13	16	18.8	22.2
Water flow	m3/h	0,4	0,6	0,7	1,1	1,3	1,6	1,9	2,3	2,8	3,3	3,9
Pressure drop	kPa	35	38	27	30	33	29	29	31	30	33	29
									-			
REFRIGERANT CIRCUIT												
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1
Compressors type	-						nermetic recip	procating				
Compressors quantity	n°	1	1	1	1	1	1	1	1	1	1	1
Fans type	-						Axial (AC)					
Fans quantity	n°	1	1	1	1	1	1	2	2	3	3	3
Total air flow	m3/h	3650	5200	6000	8600	11000	15500	22000	22000	31500	31500	29000
Fans power input (1)	kW	0,2	0,3	0,55	0,6	0,75	1,6	1,5	1,5	2,4	2,4	2,4
Evaporator water flow (1)	m3/h	1,3	2,1	2,8	3,9	4,9	6,0	6,8	8,3	10,3	12,0	14,2
Evaporator pressure drop (1)	kPa	24	32	32	33	30	29	26	28	33	26	27
HYDRONIC KIT - 100 kPa useful head	(ontion)											
Buffer tank capacity	l (option)	23	23	23	30	30	30	60	60	160	160	160
Pump type	-	20			_ 00	00	Centrifugal		00	100	100	100
Pump motor nominal power	kW	0,37	0,37	0,37	0,37	0,55	0.55	0,55	0,9	0,9	0,9	1,5
		,	, ,,,,	, ,,,,		, ,,,,	, ,,,,,	, ,,,,	-,-	,-	-,-	,-
Electrical Data												
Power supply	V/ph/Hz+T	I				400/3/50 +	230/1/50 (fc					
Maximum power input without pump	V/PII/TIZT I											36,8
Locked rotor current – LRA without pump	kW	3,1	6,4	8,4	12,0	13,1	16,9	19,2	21,3	26,4	32,0	278,2
	kW A	36,6	52,7	64,6	88,6	13,1 104,0	16,9 121,1	139,7	206,5	229,2	244,2	
Maximum absorbed current - FLA without pump	kW A					13,1	16,9					66,2
Maximum absorbed current - FLA without pump	kW A	36,6	52,7	64,6	88,6	13,1 104,0	16,9 121,1	139,7	206,5	229,2	244,2	66,2
Maximum absorbed current - FLA without pump Noise levels (3)	kW A A	36,6 7,0	52,7 12,5	64,6	88,6 21,9	13,1 104,0 23,3	16,9 121,1 32,7	139,7 39,4	206,5 40,4	229,2 49,2	244,2 59,2	
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version	kW A A	36,6 7,0 85	52,7 12,5	64,6 15,3	88,6 21,9	13,1 104,0 23,3	16,9 121,1 32,7	139,7 39,4	206,5 40,4	229,2 49,2	244,2 59,2	91
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version	A A A B(A) dB(A)	36,6 7,0 85 54	52,7 12,5 86 54	64,6 15,3 87 55	88,6 21,9 85 53	13,1 104,0 23,3 85 53	16,9 121,1 32,7 89 57	139,7 39,4 89 57	206,5 40,4 89 57	229,2 49,2 91 59	244,2 59,2 91 59	91 59
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version	kW A A A A A A A A A A A A A A A A A A A	36,6 7,0 85 54 82	52,7 12,5 86 54 83	64,6 15,3 87 55 84	88,6 21,9 85 53 82	13,1 104,0 23,3 85 53 82	16,9 121,1 32,7 89 57 86	139,7 39,4 89 57 86	206,5 40,4 89 57 86	229,2 49,2 91 59 88	244,2 59,2 91 59 88	91 59 88
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version	A A A B(A) dB(A)	36,6 7,0 85 54	52,7 12,5 86 54	64,6 15,3 87 55	88,6 21,9 85 53	13,1 104,0 23,3 85 53	16,9 121,1 32,7 89 57	139,7 39,4 89 57	206,5 40,4 89 57	229,2 49,2 91 59	244,2 59,2 91 59	91 59
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version	kW A A A dB(A) dB(A) dB(A)	36,6 7,0 85 54 82	52,7 12,5 86 54 83	64,6 15,3 87 55 84	88,6 21,9 85 53 82	13,1 104,0 23,3 85 53 82	16,9 121,1 32,7 89 57 86	139,7 39,4 89 57 86	206,5 40,4 89 57 86	229,2 49,2 91 59 88	244,2 59,2 91 59 88	91 59 88
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution	kW A A A	36,6 7,0 85 54 82 51	52,7 12,5 86 54 83 51	87 55 84 52	88,6 21,9 85 53 82 50	13,1 104,0 23,3 85 53 82 50	16,9 121,1 32,7 89 57 86 54	139,7 39,4 89 57 86 54	89 57 86 54	229,2 49,2 91 59 88 56	244,2 59,2 91 59 88 56	91 59 88 56
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L)	kW A A A dB(A) dB(A) dB(A)	36,6 7,0 85 54 82	52,7 12,5 86 54 83 51	64,6 15,3 87 55 84	88,6 21,9 85 53 82	13,1 104,0 23,3 85 53 82 50	16,9 121,1 32,7 89 57 86 54	139,7 39,4 89 57 86 54	206,5 40,4 89 57 86	229,2 49,2 91 59 88 56	244,2 59,2 91 59 88 56	91 59 88
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution	KW A A A A A A A A A	36,6 7,0 85 54 82 51	52,7 12,5 86 54 83 51	87 55 84 52	88,6 21,9 85 53 82 50	13,1 104,0 23,3 85 53 82 50	16,9 121,1 32,7 89 57 86 54	139,7 39,4 89 57 86 54	206,5 40,4 89 57 86 54	229,2 49,2 91 59 88 56	244,2 59,2 91 59 88 56	91 59 88 56
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P)	KW A A A A A A A A A	36,6 7,0 85 54 82 51 1230 650	52,7 12,5 86 54 83 51 1380 800	87 55 84 52 1380 800	88,6 21,9 85 53 82 50 1680 990	13,1 104,0 23,3 85 53 82 50 1680 990	16,9 121,1 32,7 89 57 86 54	139,7 39,4 89 57 86 54 2330 990	206,5 40,4 89 57 86 54 2330 990	229,2 49,2 91 59 88 56 3030 990	244,2 59,2 91 59 88 56 3030 990	91 59 88 56 3030 990
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P) Height (H) Shipping weight	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	36,6 7,0 85 54 82 51 1230 650 1320	52,7 12,5 86 54 83 51 1380 800 1785	87 55 84 52 1380 800 1785	88,6 21,9 85 53 82 50 1680 990 2055	13,1 104,0 23,3 85 53 82 50 1680 990 2055	16,9 121,1 32,7 89 57 86 54 1680 990 2075	139,7 39,4 89 57 86 54 2330 990 2155	89 57 86 54 2330 990 2155	229,2 49,2 91 59 88 56 3030 990 2155	244,2 59,2 91 59 88 56 3030 990 2155	91 59 88 56 3030 990 2155
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated So	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	36,6 7,0 85 54 82 51 1230 650 1320 190	52,7 12,5 86 54 83 51 1380 800 1785 280	87 55 84 52 1380 800 1785 300	88,6 21,9 85 53 82 50 1680 990 2055 520	13,1 104,0 23,3 85 53 82 50 1680 990 2055 550	16,9 121,1 32,7 89 57 86 54 1680 990 2075 560	139,7 39,4 89 57 86 54 2330 990 2155 830	206,5 40,4 89 57 86 54 2330 990 2155 850	229,2 49,2 91 59 88 56 3030 990 2155 1010	244,2 59,2 91 91 88 56 3030 990 2155 1120	91 59 88 56 3030 990 2155 1140
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Length (L) Length (E) Length (E) Length (E) Length (E)	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m mm mm Kg	36,6 7,0 85 54 82 51 1230 650 1320 190	52,7 12,5 86 54 83 51 1380 800 1785 280	87 55 84 52 1380 800 1785 300	88,6 21,9 85 53 82 50 1680 990 2055 520	13,1 104,0 23,3 85 53 82 50 1680 990 2055 550	16,9 121,1 32,7 89 57 86 54 1680 990 2075 560	139,7 39,4 89 57 86 54 2330 990 2155 830	206,5 40,4 89 57 86 54 2330 990 2155 850	229,2 49,2 91 59 88 56 3030 990 2155 1010	244,2 59,2 91 59 88 56 3030 990 2155 1120	91 59 88 56 3030 990 2155 1140
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Length (L) Depth (P) Depth (P)	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m mm mm Kg blution mm mm	36,6 7,0 85 54 82 51 1230 650 1320 190	52,7 12,5 86 54 83 51 1380 800 1785 280	87 55 84 52 1380 800 1785 300	88,6 21,9 85 53 82 50 1680 990 2055 520	13,1 104,0 23,3 85 53 82 50 1680 990 2055 550	16,9 121,1 32,7 89 57 86 54 1680 990 2075 560	139,7 39,4 89 57 86 54 2330 990 2155 830 2330 990	206,5 40,4 89 57 86 54 2330 990 2155 850 2330 990	229,2 49,2 91 59 88 56 3030 990 2155 1010	244,2 59,2 91 59 88 56 3030 990 2155 1120	91 59 88 56 3030 990 2155 1140
Maximum absorbed current - FLA without pump Noise levels (3) Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Length (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Length (L) Length (L) Length (E) Length (L) Length (L) Length (L) Length (L) Length (L)	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m mm mm Kg	36,6 7,0 85 54 82 51 1230 650 1320 190	52,7 12,5 86 54 83 51 1380 800 1785 280	87 55 84 52 1380 800 1785 300	88,6 21,9 85 53 82 50 1680 990 2055 520	13,1 104,0 23,3 85 53 82 50 1680 990 2055 550	16,9 121,1 32,7 89 57 86 54 1680 990 2075 560	139,7 39,4 89 57 86 54 2330 990 2155 830	206,5 40,4 89 57 86 54 2330 990 2155 850	229,2 49,2 91 59 88 56 3030 990 2155 1010	244,2 59,2 91 59 88 56 3030 990 2155 1120	91 59 88 56 3030 990 2155 1140

Reference conditions:

- (1) Condenser air intake temperature = 35° C Evaporator water temperature IN/OUT = $12/7^{\circ}$ C Fluid: pure water Condensing coil: Cu/Al
- (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Cu/AI (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives. The relevant information related to each model (eg.: SEERno, Rated cooling capacity, Seasonal space cooling energy efficiency,) are published on our website www.euroklimat.it



Euroklimat has developed an online software called "wEKool" that allows you to select the most suitable solution to meet the specific request and all the available accessories for each model. For more information, please contact your sales representative.



302 S ←→ 1602 S









Air cooled water chillers



Solution

B - Base

Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

FC - Free Cooling

Cooling Capacity 70,9 - 300,2 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are internally lir to reduce the noise level (LN Accessories only).
Compressor	Reciprocating semihermetic type, fixed on anti-vibration system and complete with pressure lubrication system; oil crankcase heater, integral electron protection and inlet plus outlet valves; capacity control head (from model 502), flexible joints on suction and discharge. The compressor is mechanic optimized for use with Hydrocarbons and built in according to Directive ATEX 2014/34/EU for the safety requirements: Zone 2, Gas group IIB. So components are ATEX certified.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degraerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only)
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performal results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are therm insulated with closed-cell neoprene anti-condensate material. Air vent valve included.
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. Installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interlegated by device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, sight glass and liquid moisture, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low swit oil-pump differential pressure switch (from size 502). Some components are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power sup. The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, managed microprocessor, activate LED status indicator.
Water circuit	(Integrated): Water pressure gauge, safety valve, centrifugal pump suitable for glycol solutions up to 20%, manual air venting valve, water tank.
	NOTE: in the integrated version of Propane chillers water pump is supplied separately from the machine; the price includes not only the pump itself also the electrical control unit installed in the electrical panel of the chiller.
ACCESSORIES	Spring vibration isolation Rubber vibration isolation Max and min voltage relay Modulating fan speed condensing control Part-winding soft start Electromechanical flow switch Additional stand-by water pump Wall mounted remote control panel ModBus® (RS 485) interface



RKO.E		302 S	402 S	502 S	602 S	702 S	802 S	1002 S	1102 S	1202 S	1402 S	1502 S	1602 S
COOLING													
Cooling capacity (1)	kW	70,9	78,8	100,4	114,5	141,1	166,6	195,8	218,6	243,5	268,9	288,7	300,2
Cooling capacity (1) (EN 14511 VALUE)	kW	70,6	78,5	100	114,1	140,6	166	195,1	217,8	242,8	268	287,9	299,3
Total compressors power input (1)	kW	21,3	24,8	29,7	35,6	43,3	52,6	63,1	71,6	81,4	86,2	94	98,5
EER - Energy Efficiency Ratio	-	2,99	2,90	3,05	2,95	3,06	2,89	2,81	2,73	2,71	2,79	2,77	2,76
Saved CO2 equivalent Ton (*)	Ton	20400	21290	40800	44350	60320	70960	78060	81600	83380	106440	111760	117080
DESUPERHEATER (option)				,				,			,		
Heating capacity (2)	kW	18,9	21	26,8	30,6	37,7	44,5	52,3	58,4	65,1	71,9	77,2	80,3
Water flow	m3/h	3,3	3,7	4,7	5,3	6,6	7,8	9,1	10,2	11,3	12,5	13,4	14
Pressure drop	kPa	33	35	29	31	30	26	28	33	32	34	38	27
DEEDLOED ANT OLD OUT													
REFRIGERANT CIRCUIT		DOOO	DOOO	Dooo	DOOO	DOOO	DOOO	DOOO	Doon	DOOO	DOOO	DOOO	DOOO
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	2	2	2	2	2	2 Comihormotic	2	2	2	2	2	2
Compressors type	n°	2	2	2	2	2	Semihermetion 2	reciprocatii 2	ng 2	2	2	2	2
Compressors quantity													
Fans type	- n°	3	3	4	4	4	Axia 3	I (AC)	5	5	6	6	6
Fans quantity Total air flow	m3/h	28500	28500	40000	40000	48000	58500	80000	92000	92000	114000	114000	114000
Fans power input (1)	kW	2.4	2.4				5.0		8.5			10.2	10.2
Evaporator water flow (1)	m3/h	12,2	13,5	3,2 17,2	3,2 19,6	2,8 24,2	28,6	6,6 33,6	37,4	8,5 41,8	10,2 46,1	49,5	51,5
Evaporator water flow (1) Evaporator pressure drop (1)	kPa	25	13,5	30	26	24,2	31	35,6	37,4	29	35	49,5 30	32
Evaporator pressure drop (1)	NF a	20	19	30	20		31	30	31		30	30	32
HYDRONIC KIT - 100 kPa useful head	(ontion)												
Buffer tank capacity	l (option)	160	160	290	290	460	460	460	460	460	460	460	460
Pump type	-	100	100	230	230	1 400		rifugal	1 400	1 400	400	400	1 400
Pump motor nominal power	kW	0.9	1,5	1,5	2,2	2,2	2,2	2,2	3	3	3	4	4
Tump motor nominal power	1744	0,0	1,0	1,0	,		2,2	,			0		
Electrical Data													
Power supply	V/ph/Hz+T					400/3/	50 + 230/1/	50 (for gas	detector)				
Maximum power input without pump	kW	32,4	37,6	42,6	51.0	62,2	74,4	91,4	99,0	123,4	123,0	134.0	135,4
Locked rotor current – LRA without pump	A	151,0	177,3	246,9	275,0	300,0	346,0	412,0	476,3	575,0	675,0	716,0	719,2
Maximum absorbed current - FLA without pump	Α	62,6	77,0	80,8	95,0	115,0	134,0	166,0	198,6	220,0	230,0	240,0	246,4
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Noise levels (3)													
Total sound power - ST Version	dB(A)	93	93	95	95	95	97	98	100	101	102	102	102
Total sound pressure - ST Version	dB(A)	61	61	63	63	63	65	66	68	69	69	69	69
Total sound power - LN Version	dB(A)	90	90	92	92	93	95	95	97	98	99	99	100
Total sound pressure - LN Version	dB(A)	58	58	60	60	60	62	63	65	66	66	66	67
DIMENSIONS AND WEIGHT - Base Solution				,				,			,		
Length (L)	mm	3030	3030	3970	3970	4250	4250	5450	5450	5450	5250	5250	5250
Depth (P)	mm	990	990	990	990	1150	1150	1500	1500	1500	2000	2000	2000
Height (H)	mm	2155	2155	2215	2215	2135	2250	2300	2300	2300	2250	2250	2250
Shipping weight	Kg	1200	1250	1800	1900	2000	2050	2300	2350	2400	2700	2750	2800
DIMENSIONS AND WEIGHT - Integrated So						====	====			= 1=0	5050	5050	5050
Length (L)	mm	3030	3030	3970	3970	5050	5050	5450	5450	5450	5250	5250	5250
Depth (P)	mm	990	990	990	990	1150	1150	1500	1500	1500	2000	2000	2000
Height (H)	mm	2155	2155	2215	2215	2135	2250	2300	2300	2300	2250	2250	2250
Shipping weight	Kg	1260	1310	1890	1990	2200	2250	2400	2460	2510	2820	2870	2920

Reference conditions:

- (1) Condenser air intake temperature = 35° C Evaporator water temperature IN/OUT = $12/7^{\circ}$ C Fluid: pure water Condensing coil: Cu/Al
- (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Cu/AI (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives. The relevant information related to each model (eg.: SEERno, Rated cooling capacity, Seasonal space cooling energy efficiency,) are published on our website www.euroklimat.it



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1402 V ←→ 2802 V









Air cooled water chillers



Solution

B - Base

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

Cooling Capacity 249,6 - 631,9 kW

Housing	Structure specifically designed for outdoor installation. Basement and frame in galvanized shaped sheet steel with a suitable thickness. All parts are polyester-powder painted to assure total weather resistance. Panels are internally coated to reduce the noise level (LN Accessories only).
Compressor	SCREW SEMI-HERMETIC type, complete with motor thermal protection, Part-Winding or Star Delta start, crankcase electrical heater and discharg intercepting valve. The compressor is mechanically optimized for use with Hydrocarbons. Some components are ATEX certified.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree aerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only)
Air heat exchanger	Microchannel technology increases the primary to secondary surface area ratio and reduces the tubes' air shadow to provide maximum heat exchang through our condensers. Due to their small hydraulic diameter, microchannel aluminium tubes transfer heat more efficiently than the traditional roun copper tubes.
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are thermal insulated with closed-cell neoprene anti-condensate material. Air vent valve included.
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according the standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interlock safety device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low switch Solenoid valves and pressure switches are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power suppl The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, managed by microprocessor, activate LED status indicator.
ACCESSORIES	■ Spring vibration isolation ■ Rubber vibration isolation ■ Max and min voltage relay ■ Modulating fan speed condensing control (standard) ■ Refrigerant gauges (standard) ■ Electromechanical flow switch ■ Wall mounted remote control panel ■ ModBus® (RS 485) interface



RKO.E		1402 V	1602 V	1802 V	2002 V	2202 V	2402 V	2502 V	2802 V
COOLING									
Cooling capacity (1)	kW	249,6	315,9	346,3	412,0	444,3	492,3	529,2	631,9
Cooling capacity (1) (EN 14511 VALUE)	kW	248,8	314,9	345,2	411	443,3	491,1	528	630,1
Total compressors power input (1)	kW	99,1	109,6	128,5	140,4	153,9	158,5	175,5	207,3
EER - Energy Efficiency Ratio	-	2,37	2,66	2,52	2,70	2,68	2,84	2,78	2,80
Saved CO2 equivalent Ton (*)	Ton	85800	100100	114400	143000	157300	171600	185900	200200
REFRIGERANT CIRCUIT		D000	B000	D000	Door	Door	B000	Door	Door
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	2	2	2	2	2	2	2	2
Compressors type	-				emihermetic scr				
Compressors quantity	n°	2	2	2	2	2	2	2	2
Fans type	-				Axial (AC)				
Fans quantity	n°	4	6	6	8	8	10	10	12
Total air flow	m3/h	78000	117000	117000	156000	156000	195000	195000	234000
Fans power input (1)	kW	6	9	9	12	12	15	15	18
Evaporator water flow (1)	m3/h	42,8	54,2	59,4	70,7	76,2	84,5	90,8	108,4
Evaporator pressure drop (1)	kPa	31	37	36	27	27	28	27	35
Electrical Data									
Power supply	V/ph/Hz + T			400	/3/50 + 230/1/5	O (for goo data	otor)		
Maximum power input without pump	kW	125,6	144,8	165,0	190,6	206,0	219,4	235,4	274,8
Locked rotor current – LRA without pump	A	442,0	542,0	589,0	695,0	650,0	740,0	788,0	880,0
Maximum absorbed current - FLA without pump	A	272.0	314.0	344.0	382,0	400.0	430.0	476.0	538,0
Maximum absorbed current - FLA without pump	A	212,0	314,0	344,0	302,0	400,0	430,0	470,0	556,0
Noise levels (2)									
Total sound power - ST Version	dB(A)	103	103	105	106	106	109	110	112
Total sound pressure - ST Version	dB(A)	71	71	73	74	74	76	77	79
Total sound power - LN Version	dB(A)	100	100	102	103	103	106	107	109
Total sound pressure - LN Version	dB(A)	68	68	70	71	71	73	74	76
DIMENSIONS AND WEIGHT - Base Solution		2052	1000	4000	5550	5550		0000	0050
Length (L)	mm	2950	4300	4300	5550	5550	6800	6800	8050
Depth (P)	mm	2345	2345	2345	2345	2345	2345	2345	2345
Height (H)	mm	2465	2465	2465	2465	2465	2465	2465	2465
Shipping weight	Kg	2510	3260	3280	3820	4560	4370	5070	5840

Reference conditions:

- (1) Condenser air intake temperature = 35°C Evaporator water temperature IN/OUT = 12/7°C Fluid: pure water Condensing coil: Microchannel
- (2) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives.

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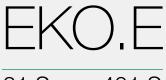
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Axial fans air cooled water chillers for process applications



Natural Cooling

Index				
EKO.E	21 S	↔	401 S	26
EKO.E	302 S	↔	1602 S	28
EKO.E	1402 V	↔	2802 V	30



















Solution

B - Base

I - Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

Cooling Capacity 10,7 - 112,4 kW

■ Wall mounted remote control panel

■ ModBus® (RS 485) interface

Housing	Base and panels made of painted galvanised stee to reduce the noise level (LN Accessories only).	el; panels mounted on aluminium profiles to ens	sure total weathering resistance. Panels are internally lined
Compressor	protection and inlet plus outlet valves; capacity of	control head (from model 251), flexible joints or	brication system; oil crankcase heater, integral electronic n suction and discharge. The compressor is mechanically or the safety requirements: Zone 2, Gas group IIB. Some
Fan	Low speed, axial-flow fans fitted with accident-pr aerodynamic housing and wing profile blades inc The grille on the air-inlet side reduces the noise	rease efficiency and decrease noise level.	or with built-in thermal cutout and IP 54 protection degree; ency tones. (LN Accessory only)
Air heat exchanger	Finned coil made with copper pipes and aluminic	ım fins offering a high exchange surface area.	
Water heat exchanger		ons and easy installation and maintenance. He	n provides high thermal exchange and high performance at exchangers that work at low temperature are thermally
Electrical board	installed components are identified by nameplate	es to better identify the application and the type omplete with contactor and protection for com	eration and optimized layout facilitate troubleshooting. The e of action. Switchboard is completely made according to pressor and fans, main isolator switch and door interlock ide of the machine.
Control	The microprocessor controls the unit capacity by t	iming the compressors and checks the operating	g alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, sight glass and liquid moisture, solen oil-pump differential pressure switch (from size 2	· · · · · · · · · · · · · · · · · · ·	tronic expansion valve, safety pressure high / low switch,
Additional safety device			s, ATEX certified and with external dedicated power supply. wer Flammability Limit (LFL). These alarms, managed by
Water circuit	(Integrated): Water pressure gauge, safety valve,	centrifugal pump suitable for glycol solutions u	up to 20%, manual air venting valve, water tank.
	NOTE: in the integrated version of Propane chille also the electrical control unit installed in the ele		e machine; the price includes not only the pump itself but
ACCESSORIES	 Spring vibration isolation Rubber vibration isolation Modulating fan speed condensing control 	Max and min voltage relay Refrigerant gauges (standard) Electromechanical flow switch	Open expansion tankClosed expansion tank with automatic filling valve

Additional stand-by water pump

Oversized pump water (5 Bars)

■ EC condensing Fans

Part-winding soft start



EKO.E		21 S	31 S	51 S	81 S	121 S	151 S	201 S	251 S	301 S	351 S	401 S
				•					•			
COOLING												
Cooling capacity (1)	kW	10,7	16,2	22	30,6	38,3	47,5	53,1	64,6	80,8	95,3	112,4
Cooling capacity (1) (EN 14511 VALUE)	kW	10,6	16	21,8	30,4	38	47,2	52,8	64,2	80,3	94,8	111,9
Total compressors power input (1)	kW	2,2	4,4	5,4	7,6	9	10,9	12,3	15,3	16,9	21,8	26,4
EER - Energy Efficiency Ratio	-	4,46	3,45	3,70	3,73	3,93	3,80	3,85	3,85	4,19	3,94	3,90
Saved CO2 equivalent Ton (*)	Ton	2130	4080	4790	6740	8870	9760	9760	14190	19510	20400	21290
Ecodesign compliance for process application (SEPR	-	√	√	√	√	V	√	√	√	√	√	√
DESUPERHEATER (option)												
Heating capacity (2)	kW	2.7	4,1	5,5	7,7	9,6	11,9	13,3	16,2	20,3	23,9	28,2
Water flow	m3/h	0,5	0,7	1,0	1,3	1,7	2,1	2,3	2,8	3,5	4,2	4,9
Pressure drop	kPa	37	40	30	32	35	31	31	33	32	35	31
DEEDICEDANT CIDCUIT												
REFRIGERANT CIRCUIT	1	Doon	R290	R290	Doon	R290	R290	R290	DOOO	R290	Doon	Doon
Refrigerant	- nº	R290	R290	R290	R290	KZ9U	HZ9U	KZ9U	R290	R290	R290	R290
Independent gas circuit	n°		<u> </u>	<u> </u>	<u> </u>		Comihormatic	rooinroostin	_ I	<u> </u>	<u> </u>	
Compressors type		-	1	1	1		Semihermetic			1		1
Compressors quantity	n°	1	1	1	1	1	1	1 1	1	I	1	1
Fans type	0	4						I (AC)				
Fans quantity	n°	1	1	1	1	1	1	2	2	3	3	3
Total air flow	m3/h	3650	5200	6000	8600	11000	15500	22000	22000	31500	31500	29000
Fans power input (1)	kW	0,20	0,30	0,55	0,60	0,75	1,60	1,50	1,50	2,40	2,40	2,40
Evaporator water flow (1)	m3/h	1,8	2,8	3,8	5,3	6,6	8,2	9,1	11,1	13,9	16,4	19,3
Evaporator pressure drop (1)	kPa	37	47	48	47	43	41	37	40	47	39	40
HYDRONIC KIT - 300 kPa useful head	(option)											
Buffer tank capacity	L	23	23	23	30	30	30	60	60	160	160	160
Pump type	-		•	•		•	Centr	rifugal	•	•		
Pump motor nominal power	kW	0,75	0,75	1,1	1,1	1,1	1,8	1,8	1,8	3	3	4
Electrical Data	Tr. () () =					100/0	(50000/4/	T-0 "				
Power supply	V/ph/Hz+T	0.4	0.4	0.4	10	400/3/	/50 + 230/1/	50 (for gas o		00.4	00	00.0
Maximum power input without pump	kW	3,1	6,4	8,4	12	13,1	16,9	19,2	21,3	26,4	32	36,8
Locked rotor current – LRA without pump	A	36,6	52,7	64,6	88,6	104	121,1	139,7	206,5	229,2	244,2	278,2
Maximum absorbed current - FLA without pump	A	7	12,5	15,3	21,9	23,3	32,7	39,4	40,4	49,2	59,2	66,2
Noise levels (3)												
Total sound power - ST Version	dB(A)	85	86	87	85	85	89	89	89	91	91	91
Total sound pressure - ST Version	dB(A)	54	54	55	53	53	57	57	57	59	59	59
Total sound power - LN Version	dB(A)	82	83	84	82	82	86	86	86	88	88	88
Total sound pressure - LN Version	dB(A)	51	51	52	50	50	54	54	54	56	56	56
DIMENSIONS AND WEIGHT - Base Solution	n											
Length (L)	mm	1230	1380	1380	1680	1680	1680	2330	2330	3030	3030	3030
Depth (P)	mm	650	800	800	990	990	990	990	990	990	990	990
Height (H)	mm	1320	1785	1785	2055	2055	2075	2155	2155	2155	2155	2155
Shipping weight	Kg	190	280	300	520	550	560	830	850	1010	1120	1140
DIMENSIONS AND WEIGHT - Integrated Se	1										0.0	
Length (L)	mm	1230	1380	1380	1680	1680	1680	2330	2330	3030	3030	3030
Depth (P)	mm	650	800	800	990	990	990	990	990	990	990	990
Height (H)	mm	1320	1785	1785	2055	2055	2075	2155	2155	2155	2155	2155
Shipping weight	Kg	200	290	310	540	570	580	870	890	1070	1180	1200

Note

- (1) Condenser air intake temperature = 25° C Evaporator water temperature IN/OUT = $20/15^{\circ}$ C Fluid: pure water Condensing coil: Cu/Al
- (2) (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 25°C Evaporator water temperature IN/OUT = 20/15°C Fluid: pure water Condensing coil: Cu/Al
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

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Solution

- Base

- Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

FC - Free Cooling

Cooling Capacity 95,8 - 421,1 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are interna to reduce the noise level (LN Accessories only).	Ily lined
Compressor	Reciprocating semihermetic type, fixed on anti-vibration system and complete with pressure lubrication system; oil crankcase heater, integral eleprotection and inlet plus outlet valves; capacity control head (from model 502), flexible joints on suction and discharge. The compressor is mech optimized for use with Hydrocarbons and built in according to Directive ATEX 2014/34/EU for the safety requirements: Zone 2, Gas group IIE components are ATEX certified.	anically
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection aerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only)	degree;
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.	
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high perforesults, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are the insulated with closed-cell neoprene anti-condensate material. Air vent valve included.	
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshoot installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made acco standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door in safety device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.	rding to
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.	
Refrigerant circuit	Filter drier, sight glass and liquid moisture, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low oil-pump differential pressure switch (from size 502). Some components are ATEX certified.	switch,
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power. The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, manamicroprocessor, activate LED status indicator.	
Water circuit	(Integrated): Water pressure gauge, safety valve, centrifugal pump suitable for glycol solutions up to 20%, manual air venting valve, water tank.	
	NOTE: in the integrated version of Propane chillers water pump is supplied separately from the machine; the price includes not only the pump it also the electrical control unit installed in the electrical panel of the chiller.	self but
ACCESSORIES	Spring vibration isolation Rubber vibration isolation Max and min voltage relay Refrigerant gauges (standard) Modulating fan speed condensing control EC condensing Fans Additional stand-by water pump Part-winding soft start ModBus® (RS 485) interface	ic filling



EKO.E		302 S	402 S	502 S	602 S	702 S	802 S	1002 S	1102 S	1202 S	1402 S	1502 S	1602 S
COOLING													
Cooling capacity (1)	kW	95,8	103,6	134,5	153,1	191,6	224,8	270,2	295,9	336,3	375,2	403,9	421,1
Cooling capacity (1) (EN 14511 VALUE)	kW	95,3	103,2	133,9	152,4	190,8	223,9	268,9	294,5	335,0	373,5	402,3	419,3
Total compressors power input (1)	kW	21,5	25,4	29,7	36	44	53,3	62,9	69,4	83,5	84,3	92,3	96,1
EER - Energy Efficiency Ratio	-	4,01	3,73	4,09	3,91	4,09	3,86	3,89	3,80	3,66	3,97	3,94	3,96
Saved CO2 equivalent Ton (*)	Ton	20400	21290	40800	44350	60320	70960	78060	81600	83380	106440	111760	117080
Ecodesign compliance for process application (SEPR)	-	√	√	√	√	√	√	√	√	√	\	√	√
DESUPERHEATER (option)													
Heating capacity (2)	kW	24	26	33,7	38.4	48.1	56,4	67.2	74,6	84.4	94.1	101.3	105.6
Water flow	m3/h	4,2	4,5	5,9	6.7	8,4	9,8	11.7	13	14.7	16.4	17.6	18,4
Pressure drop	kPa	30	32	26	28	27	23	25	30	29	31	35	24
DEEDICEDANT CIDCUIT													
REFRIGERANT CIRCUIT		DOOO	DOOO	R290	R290	R290	R290	R290	R290	Doon	R290	R290	DOOO
Refrigerant	n°	R290	R290							R290			R290
Independent gas circuit		2	2	2	2	2	2 Comile	2	2	2	2	2	2
Compressors type	- nº	2	0	1 0	0	0		ermetic recip			1 0	0	0
Compressors quantity	n°		2	2	2	2	2	2 Avial (AC)	2	2	2	2	2
Fans type	n°	3	3	4	4	4	3	Axial (AC)	5	5	6	6	6
Fans quantity												-	-
Total air flow	m3/h	28500	28500	40000	40000	48000	58500	80000	92000	92000	114000	114000	114000
Fans power input (1)	kW	2,40	2,40	3,20	3,20	2,80	4,95	6,60	8,50	8,50	10,20	10,20	10,20
Evaporator water flow (1)	m3/h	16,5	17,8	23,2	26,4	33	38,7	46,5	50,9	57,9	64,6	69,5	72,5
Evaporator pressure drop (1)	kPa	38	27	43	39	43	46	55	56	46	56	48	52
HYDRONIC KIT - 300 kPa useful head	(option)												
Buffer tank capacity	L	160	160	290	290	460	460	460	460	460	460	460	460
Pump type	-							Centrifugal					
Pump motor nominal power	kW	3	4	4	4	7,5	7,5	7,5	7,5	9,2	11	11	11
Electrical Data	N// 1 // 1 / T						20/0/50	200/4/50/6					
Power supply	V/ph/Hz+T	00.4	07.0	40.0		4		230/1/50 (fc			100	101	105.1
Maximum power input without pump	kW	32,4	37,6	42,6	51	62,2	74,4	91,4	99	123,4	123	134	135,4
Locked rotor current – LRA without pump	A	151	177,3	246,9	275	300	346	412	476,3	575	675	716	719,2
Maximum absorbed current - FLA without pump	А	62,6	77	80,8	95	115	134	166	198,6	220	230	240	246,4
Noise levels (3)												,	
Total sound power - ST Version	dB(A)	93	93	95	95	95	97	98	100	101	102	102	102
Total sound pressure - ST Version	dB(A)	61	61	63	63	63	65	66	68	69	69	69	69
Total sound power - LN Version	dB(A)	90	90	92	92	93	95	95	97	98	99	99	100
Total sound pressure - LN Version	dB(A)	58	58	60	60	60	62	63	65	66	66	66	67
DIMENSIONS AND WEIGHT - Base Solution	1												
Length (L)	mm	3030	3030	3970	3970	4250	4250	5450	5450	5450	5250	5250	5250
Depth (P)	mm	990	990	990	990	1150	1150	1500	1500	1500	2000	2000	2000
Height (H)	mm	2155	2155	2215	2215	2135	2250	2300	2300	2300	2250	2250	2250
Shipping weight	Kg	1200	1250	1800	1900	2000	2050	2300	2350	2400	2700	2750	2800
Complete Medgit	_I Ny	1200	1230	1000	1900	2000				<u> </u>	1 2100	2100	2000
DIMENSIONS AND WEIGHT - Integrated So										_			
Length (L)	mm	3030	3030	3970	3970	5050	5050	5450	5450	5450	5250	5250	5250
Depth (P)	mm	990	990	990	990	1150	1150	1500	1500	1500	2000	2000	2000
Height (H)	mm	2155	2155	2215	2215	2135	2250	2300	2300	2300	2250	2250	2250
Shipping weight	Kg	1260	1310	1890	1990	2200	2250	2400	2460	2510	2820	2870	2920
Noto													

- (1) Condenser air intake temperature = 25°C Evaporator water temperature IN/OUT = 20/15°C Fluid: pure water Condensing coil: Cu/AI
 (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 25°C Evaporator water temperature IN/OUT = 20/15°C Fluid: pure water Condensing coil: Cu/AI
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

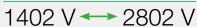
Compliance with "Eco-Design"

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Solution

B - Base

Version

ST - Standard LN - Low noise

Equipment

AS - Standard equipment

Cooling Capacity 338,0 - 854,1 kW

Housing	Structure specifically designed for outdoor installation. Basement and frame in galvanized shaped sheet steel with a suitable thickness. All parts a polyester-powder painted to assure total weather resistance. Panels are internally coated to reduce the noise level (LN Accessories only).
Compressor	SCREW SEMI-HERMETIC type, complete with motor thermal protection, Part-Winding or Star Delta start, crankcase electrical heater and discharge intercepting valve. The compressor is mechanically optimized for use with Hydrocarbons. Some components are ATEX certified.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degre aerodynamic housing and wing profile blades increase efficiency and decrease noise level. The grille on the air-inlet side reduces the noise emissions and minimizes disturbing low frequency tones. (LN Accessory only).
Air heat exchanger	Microchannel technology increases the primary to secondary surface area ratio and reduces the tubes' air shadow to provide maximum heat exchange through our condensers. Due to their small hydraulic diameter, microchannel aluminium tubes transfer heat more efficiently than the traditional rour copper tubes.
Water heat exchanger	Brazed plate-type heat exchanger, stainless steel AISI 316 made. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance. Heat exchangers that work at low temperature are thermatinsulated with closed-cell neoprene anti-condensate material. Air vent valve included.
Electrical board	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is completely made according standards IEC 204-1/EN60204-1 and and it is complete with contactor and protection for compressor and fans, main isolator switch and door interlossafety device. To ensure higher level of security the the panel is hung outside the unit, on one side of the machine.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low switch Solenoid valves and pressure switches are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, ATEX certified and with external dedicated power supp The sensor is provided with three alarm levels, respectively set at 5%, 10% and 20% of Lower Flammability Limit (LFL). These alarms, managed microprocessor, activate LED status indicator.
ACCESSORIES	■ Spring vibration isolation ■ Rubber vibration isolation ■ Max and min voltage relay ■ Modulating fan speed condensing control (standard) ■ Refrigerant gauges (standard) ■ Electromechanical flow switch ■ Wall mounted remote control panel ■ ModBus® (RS 485) interface



RKO.E		1402 V	1602 V	1802 V	2002 V	2202 V	2402 V	2502 V	2802 V
COOLING									
Cooling capacity (1)	kW	338,0	434,6	469,2	560,6	612,6	677,0	723,5	854,1
Cooling capacity (1) (EN 14511 VALUE)	kW	336,6	432,7	467,2	558,8	610,6	674,8	721,2	850,8
Total compressors power input (1)	kW	93,6	101,5	119,5	130,5	144,0	146,5	163,2	192,4
EER - Energy Efficiency Ratio	-	3,39	3,93	3,65	3,93	3,93	4,19	4,06	4,06
Saved CO2 equivalent Ton (*)	Ton	85800	100100	114400	143000	157300	171600	185900	200200
REFRIGERANT CIRCUIT									
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	2	2	2	2	2	2	2	2
Compressors type	-				emihermetic scr				
Compressors quantity	n°	2	2	2	2	2	2	2	2
Fans type	-				Axial (AC)				
Fans quantity	n°	4	6	6	8	8	10	10	12
Total air flow	m3/h	78000	117000	117000	156000	156000	195000	195000	234000
Fans power input (1)	kW	6,0	9,0	9,0	12,0	12,0	15,0	15,0	18,0
Evaporator water flow (1)	m3/h	58,2	74,8	80,8	96,5	105,5	116,5	124,5	147,0
Evaporator pressure drop (1)	kPa	47	57	54	41	41	43	42	54
Electrical Data									
Power supply	V/ph/Hz + T		1		/3/50 + 230/1/				
Maximum power input without pump	kW	125,6	144,8	165	190,6	206	219,4	235,4	274,8
Locked rotor current – LRA without pump	A	442	542	589	695	650	740	788	880
Maximum absorbed current - FLA without pump	A	272	314	344	382	400	430	476	538
Noise levels (2)	ID(A)	100	100	105	100	400	100	140	110
Total sound power - ST Version	dB(A)	103	103	105	106	106	109	110	112
Total sound pressure - ST Version	dB(A)	71	71	73	74	74	76	77	79
Total sound power - LN Version	dB(A)	100	100	102	103	103	106	107	109
Total sound pressure - LN Version	dB(A)	68	68	70	71	71	73	74	76
DIMENSIONS AND WEIGHT - Base Solution									
Length (L)	mm	2950	4300	4300	5550	5550	6800	6800	8050
Depth (P)	mm	2345	2345	2345	2345	2345	2345	2345	2345
Height (H)	mm	2465	2465	2465	2465	2465	2465	2465	2465
Shipping weight	Kg	2510	3260	3280	3820	4560	4370	5070	5840
Onihhina meidir	l Ny	2010	5200	JZ00	3020	4000	4070	JU/U	5040

Reference conditions:

- (1) Condenser air intake temperature = 25°C Evaporator water temperature IN/OUT = 20/15°C Fluid: pure water Condensing coil: Microchannel
- (2) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tonnes saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

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Liquid chillers with plate heat exchanger for medium fluid temperature



Natural Cooling



EKO.E/MT

20 S ←→ 601 S













Air cooled liquid chillers



Solution

B - Base

- Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

Cooling Capacity 6,9 - 63,0 kW

Housing	Base and panels made of painted galvanised s to reduce the noise level (LN Accessories only	The state of the s	re total weathering resistance. Panels are internally lined
Compressor	protection and inlet plus outlet valves; flexible	, ,	rication system; oil crankcase heater, integral electronic s mechanically optimized for use with Hydrocarbons and IIB. Some components are ATEX certified.
Fan	Premium-Axial-Fans with bionic shaped blade thermal class THCL 155. The motor efficiency	, ,	ed) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Finned coil made with copper pipes and alum	inium fins offering a high exchange surface area.	
Water heat exchanger	1 11 0 7	nsions and easy installation and maintenance. Heat	provides high thermal exchange and high performance t exchangers that work at low temperature are thermally
Electrical board	installed components are identified by namep standards IEC 204-1/EN60204-1 and and it i	lates to better identify the application and the type	ation and optimized layout facilitate troubleshooting. The of action. Switchboard is completely made according to ressor and fans, main isolator switch and door interlock de of the machine.
Control	The microprocessor controls the unit capacity by	by timing the compressors and checks the operating	alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solen Solenoid valves and pressure switches are AT	· · · · · · · · · · · · · · · · · · ·	nic expansion valve, safety pressure high / low switch.
Additional safety device			ATEX certified and with external dedicated power supply. er Flammability Limit (LFL). These alarms, managed by
Water circuit	Water pressure gauge, safety valve, centrifuga tank, special insulation for low temperatures.	I pump with seals suitable for low temperature, man	nual by-pass water valve, manual air venting valve, water
	but also the electrical control unit installed in		ne machine; the price includes not only the pump itself the pump used for low temperature applications will be oplication required.
ACCESSORIES	 Spring vibration isolation Rubber vibration isolation Wall mounted remote control panel Max and min voltage relay 	 Refrigerant gauges (standard) Electromechanical flow switch Additional stand-by water pump Oversized pump water (5 Bars) 	Open expansion tankClosed expansion tankwith automatic filling valve



20 S ←→ 601 S

Air cooled liquid chillers

EKO.E/MT		20 S	31 S	51 S	121 S	151 S	201 S	251 S	301 S	351 S	401 S	501 S	601 S
COOLING - ST VERSION													
Cooling capacity (1)	kW	6,9	9,3	12,6	16,6	19,9	23,1	28,9	33,7	40,6	47,3	54,7	63
Cooling capacity (1) (EN 14511 VALUE)	kW	6,8	9,2	12,0	16,4	19,7	22,9	28,7	33,4	40.3	47,3	54,3	62,6
Total compressors power input (1)	kW	3,4	3,9	5,4	7,2	8,6	9,5	11,6	13,3	16	19.1	23,5	30.4
Saved CO2 equivalent Ton (*)	Ton	6260	7310	8350	13570	14620	15660	17750	29230	39670	43850	48020	52200
Total air flow	m3/h	3650	5200	6000	9000	11700	11000	15000	22000	24000	31000	28500	28500
Evaporator water flow (1)	m3/h	1,7	2,3	3,1	4,0	4,8	5,6	7,0	8,2	9,8	11,5	13,3	15,3
Evaporator pressure drop (1)	kPa	30	33	35	26	24	22	26	27	3,0	27	28	29
Ecodesign compliance for process application (SEPR)	- Ki u	2,58	2.74	2,96	2,78	2,7	2.7	2,74	2,36	2,34	2,33	2,34	2,32
Ecodesign compliance for process application (our ri)		2,00	2,14	2,50	2,10	۷,1	2,1	2,17	2,00	2,04	2,00	2,04	2,02
COOLING - LN VERSION													
Cooling capacity (1)	kW	6,6	8,9	12,1	16,1	19,2	22,3	27,9	32,5	39,2	45,6	52,8	60,8
Cooling capacity (1) (EN 14511 VALUE)	kW	6,5	8,8	12	16	19	22,1	27,7	32,2	38,9	45,3	52,5	60,6
Total compressors power input (1)	kW	3,5	4	5,5	7,3	8,8	9,7	11,8	13,5	16,4	19,5	23,9	31,0
Saved CO2 equivalent Ton (*)	Ton	6260	7310	8350	13570	14620	15660	17750	29230	39670	43850	48020	52200
Total air flow	m3/h	3140	4470	5160	7740	10060	9460	12900	18920	20640	26660	24510	24510
Evaporator water flow (1)	m3/h	1,6	2,2	2,9	3,9	4,7	5,4	6,8	7,9	9,5	11,1	12,8	14,7
Evaporator pressure drop (1)	kPa	30	33	35	26	24	22	26	27	31	27	28	29
DESUPERHEATER (Option)													
Heating capacity (2)	kW	1.4	1.8	2.4	4.3	5,2	6	7,5	8.8	10.6	12.3	14,2	16.4
Water flow	m3/h	0,2	0,3	0,4	0.7	0.9	1,0	1,3	1,5	1,8	2,1	2,5	2,9
Pressure drop	kPa	30	35	38	30	33	29	29	29	31	30	33	2,9
Tressure drop	KFd] 30	33] 30] 30	33	29	29	29	31	30	- 33	29
REFRIGERANT CIRCUIT													
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1	1
Compressors type	-					Se	emihermet	ic reciproc	ating				
Compressors quantity	n°	1	1	1	1	1	1	1	1	1	1	1	1
Fans type	-						Axi	al (EC)					
Fans quantity	n°	1	1	1	1	1	1	1	2	3	3	3	3
Fans power input (1)	kW	0,2	0,3	0,6	0,6	0,9	0,9	2	1,8	1,7	2,6	2,6	2,6
ELECTRICAL DATA													
ELECTRICAL DATA Power supply	V/ph/Hz + T	1				400/2/5	0 + 230/1	/EO /for a	an dataata	-\			
Maximum power input without pump	kW	6,4	8,1	12,1	12,9	15,8	18,3	21,6	25,6	31,0	36,8	44,3	59,3
Locked rotor current – LRA without pump	A	52,4	63,5	88,0	103,0	119,0	138,0	207,0	228,0	242,0	279.0	327.0	461.0
Maximum absorbed current - FLA without pump	A	12,2	14,3	21,6	22,6	30,7	37,9	40,9	48,0	57,0	67,0	81,0	106,0
Washingth about our our TEX Without pump		12,2	1 1,0	21,0		00,1	07,0	10,0	10,0	07,0	01,0	01,0	100,0
NOISE LEVELS (3)													
Total sound power - ST Version	dB(A)	84	86	86	85	85	89	89	89	90	91	91	91
Total sound pressure - ST Version	dB(A)	53	54	54	53	53	57	57	57	58	59	59	59
Total sound power - LN Version	dB(A)	81	83	83	82	82	86	86	86	86	88	88	88
Total sound pressure - LN Version	dB(A)	50	51	51	50	50	54	54	54	55	56	56	56
DIMENSIONS AND WEIGHT - Base Solution													
Lenght (L)	mm	1240	1380	1380	1680	1680	1680	1680	2330	2980	2980	2980	2980
Depth (P)	mm	650	800	800	990	990	990	990	990	990	990	990	990
Height (H)	mm	1320	1785	1785	2075	2075	2075	2155	2175	2175	2175	2175	2175
Shipping weight	Kg	130	150	1705	250	270	480	480	500	510	520	535	710
Onlibbing Meight	ı ny	1 130	130	170	200	210	1 400	400	500	510	UZU	555	/10
DIMENSIONS AND WEIGHT - Integrated Solution													
Lenght (L)	mm	1240	1380	1380	1680	1680	1680	1680	2330	2980	2980	2980	2980
Depth (P)	mm	650	800	800	990	990	990	990	990	990	990	990	990
Height (H)	mm	1320	1785	1785	2075	2075	2075	2155	2175	2175	2175	2175	2175
Shipping weight	Kg	160	190	210	290	320	330	330	560	570	580	600	780

Reference conditions:

- (1) Condenser air intake temperature = 30° C Evaporator water temperature IN/OUT = $-4/-8^{\circ}$ C Fluid: Ethylene glycol 35% Condensing coil: Cu/Al
- (2) Plate heat exchanger water temp. IN/OUT = 40/45°C Condenser air intake temperature = 30°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: Ethylene glycol 35% Condensing coil: Cu/Al
- (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

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EKO.E/MT

302 S ←→ 1602 S













Air cooled liquid chillers



Solution

- Base

- Integrated

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

DS - Desuperheater

Cooling Capacity 37,0 - 158,7 kW

Housing	Base and panels made of painted galvanised st to reduce the noise level (LN Accessories only)	· ·	re total weathering resistance. Panels are internally lined
Compressor	protection and inlet plus outlet valves; flexible		rication system; oil crankcase heater, integral electronic s mechanically optimized for use with Hydrocarbons and IIB. Some components are ATEX certified.
Fan	Premium-Axial-Fans with bionic shaped blade thermal class THCL 155. The motor efficiency	` ` `	ed) external rotor motors, sealed in protection IP54 and
Air heat exchanger	Finned coil made with copper pipes and alumi	nium fins offering a high exchange surface area.	
Water heat exchanger		sions and easy installation and maintenance. Heat	provides high thermal exchange and high performance exchangers that work at low temperature are thermally
Electrical board	installed components are identified by namepl standards IEC 204-1/EN60204-1 and and it is	ates to better identify the application and the type	ation and optimized layout facilitate troubleshooting. The of action. Switchboard is completely made according to ressor and fans, main isolator switch and door interlock le of the machine.
Control	The microprocessor controls the unit capacity b	y timing the compressors and checks the operating	alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, moisture-liquid sight glass, solenc Solenoid valves and pressure switches are ATE		nic expansion valve, safety pressure high / low switch.
Additional safety device			ATEX certified and with external dedicated power supply. er Flammability Limit (LFL). These alarms, managed by
Water circuit	Water pressure gauge, safety valve, centrifugal tank, special insulation for low temperatures.	pump with seals suitable for low temperature, man	nual by-pass water valve, manual air venting valve, water
	but also the electrical control unit installed in		ne machine; the price includes not only the pump itself the pump used for low temperature applications will be plication required.
ACCESSORIES	 Spring vibration isolation Rubber vibration isolation Wall mounted remote control panel Max and min voltage relay 	 Refrigerant gauges (standard) Electromechanical flow switch Additional stand-by water pump Oversized pump water (5 Bars) 	Open expansion tankClosed expansion tankwith automatic filling valve



302 S ← 1602 S

Air cooled liquid chillers

EKO.E/MT		302 S	402 S	502 S	602 S	702 S	802 S	1002 S	1202 S	1402 S	1502 S	1602 S
COOLING - ST VERSION												
Cooling capacity (1)	kW	37	46,5	56,3	65,7	74.7	90.8	107,2	127	139,5	148,6	158,7
Cooling capacity (1) Cooling capacity (1) (EN 14511 VALUE)	kW	36,8	46,3	55,9	65,3	74,7	90,8	107,2	126,2	138,6	147,7	157,8
Total compressors power input (1)	kW	17	18	22,3	26,8	32,9	39,3	48,1	60,7	67	72,4	75,7
Saved CO2 equivalent Ton (*)	Ton	37580	48020	52200	56380	85610	91870	125280	137810	146160	154510	162860
Total air flow	m3/h	22000	28500	28500	28500	43000	40000	60000	60000	82000	82000	90000
Evaporator water flow (1)	m3/h	9,0	11,3	13,6	15,9	18,1	22,0	26,0	30.8	33,8	36.0	38,5
	kPa		25				36					
Evaporator pressure drop (1) Ecodesign compliance for process application (SEPR)	- KPa	2,32	2,34	28	26 2,32	33 2,45	2,38	36 2,42	39 2.4	39 2.58	36 2,54	35 2.49
Ecodesign compilance for process application (SEFR)	-	2,32	2,34	2,32	2,32	2,40	2,30	2,42	2,4	2,00	2,04	2,49
COOLING - LN VERSION												
Cooling capacity (1)	kW	35,7	44,9	54,3	63,4	72,1	87,7	103,4	122,5	134,6	143,4	153,1
Cooling capacity (1) (EN 14511 VALUE)	kW	35,5	44,6	53,9	63	71,6	87,1	102,7	121,7	133,8	142,6	152,3
Total compressors power input (1)	kW	17,3	18,3	22,7	27,4	33,6	40	49,1	61,9	68,3	73,9	77,3
Saved CO2 equivalent Ton (*)	Ton	37580	48020	52200	56380	85610	91870	125280	137810	146160	154510	162860
Total air flow	m3/h	18920	24510	24510	24510	36980	34400	51600	51600	70520	70520	77400
Evaporator water flow (1)	m3/h	8,7	10,9	13,2	15,4	17,5	21,3	25,1	29,7	32,6	34,8	37,1
Evaporator pressure drop (1)	kPa	24	25	28	26	33	36	36	39	39	36	35
DECUDEDUEATED (Ontion)												
DESUPERHEATER (Option)	14/4/	0.0	10.1	14.0	171	10.4	00.0	07.0	20	20.0	20.0	41.0
Heating capacity (2)	kW	9,6	12,1	14,6	17,1	19,4	23,6	27,9	33	36,3	38,6	41,3
Water flow	m3/h	1,7	2,1	2,5	3,0	3,4	4,1	4,9	5,7	6,3	6,7	7,2
Pressure drop	kPa	37	40	28	32	35	30	30	33	32	35	30
REFRIGERANT CIRCUIT												
Refrigerant	T -	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuit	n°	2	2	2	2	2	2	2	2	2	2	2
Compressors type	- 11						ermetic rec					
Compressors type Compressors quantity	n°	2	2	2	2	2	2	2	2	2	2	2
Fans type	-						Axial (EC					
Fans quantity	n°	2	3	3	3	4	4	3	3	4	4	5
Fans power input (1)	kW	1,80	2,60	2,60	2,60	3,50	3,50	6,00	6,00	8,00	8,00	10,00
Trans power input (1)	KVV	1,00	2,00	2,00	2,00	3,50	3,50	0,00	0,00	0,00	0,00	10,00
ELECTRICAL DATA												
Power supply	V/ph/Hz + T							for gas dete				
Maximum power input without pump	kW	31,6	37,4	41,8	50,2	62,1	71,9	89,4	119,4	119	129,8	133,8
Locked rotor current – LRA without pump	Α	149,7	177,9	245,9	274,0	301,0	342,0	408,0	567,0	667,0	708,0	715,0
Maximum absorbed current - FLA without pump	I A	61.4	77,8	79,8	94,0	116,0	130,0	162,0	212,0	222,0	232,0	242,0
NOISE LEVELS (2)	A	01,7	,-									
	A	01,4	,=		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,						
NOISE LEVELS (3)		,		05	OE .	O.E.	07	07	00	101	101	100
Total sound power - ST Version	dB(A)	92	93	95	95	95	97	97	99	101	101	102
Total sound power - ST Version Total sound pressure - ST Version	dB(A)	92	93 61	63	63	63	65	65	67	69	69	70
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version	dB(A) dB(A) dB(A)	92 60 89	93 61 90	63 92	63 92	63 92	65 94	65 94	67 96	69 98	69 98	70 99
Total sound power - ST Version Total sound pressure - ST Version	dB(A)	92	93 61	63	63	63	65	65	67	69	69	70
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version	dB(A) dB(A) dB(A)	92 60 89	93 61 90	63 92	63 92	63 92	65 94	65 94	67 96	69 98	69 98	70 99
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version	dB(A) dB(A) dB(A)	92 60 89	93 61 90	63 92	63 92	63 92	65 94	65 94	67 96	69 98	69 98	70 99
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution	dB(A) dB(A) dB(A) dB(A)	92 60 89 57	93 61 90 58	63 92 60	63 92 60	63 92 60	65 94 62	65 94 62	67 96 64	69 98 66	69 98 66	70 99 67
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P)	dB(A) dB(A) dB(A) dB(A)	92 60 89 57 2330 990	93 61 90 58 2980 990	63 92 60 2980	63 92 60 2980	63 92 60 3920 990	65 94 62 3920 990	65 94 62 4200	67 96 64 4200	69 98 66 5400 1500	69 98 66 5400 1500	70 99 67 5400 1500
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L)	dB(A) dB(A) dB(A) dB(A) dB(A)	92 60 89 57	93 61 90 58	63 92 60 2980 990	63 92 60 2980 990	63 92 60 3920	65 94 62 3920	65 94 62 4200 1150	67 96 64 4200 1150	69 98 66 5400	69 98 66 5400	70 99 67 5400
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P) Height (H) Shipping weight	dB(A) dB(A) dB(A) dB(A) mm mm	92 60 89 57 2330 990 2175	93 61 90 58 2980 990 2175	63 92 60 2980 990 2175	63 92 60 2980 990 2175	63 92 60 3920 990 2230	65 94 62 3920 990 2230	65 94 62 4200 1150 2100	67 96 64 4200 1150 2100	69 98 66 5400 1500 2300	69 98 66 5400 1500 2300	70 99 67 5400 1500 2300
Total sound power - ST Version Total sound pressure - ST Version Total sound power - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution	dB(A) dB(A) dB(A) dB(A) dB(A) mm mm Kg	92 60 89 57 2330 990 2175 810	93 61 90 58 2980 990 2175 850	63 92 60 2980 990 2175 970	63 92 60 2980 990 2175 1050	63 92 60 3920 990 2230 1210	65 94 62 3920 990 2230 1490	65 94 62 4200 1150 2100 1800	67 96 64 4200 1150 2100 1970	69 98 66 5400 1500 2300 2220	69 98 66 5400 1500 2300 2460	70 99 67 5400 1500 2300 2740
Total sound power - ST Version Total sound pressure - ST Version Total sound pressure - ST Version Total sound pressure - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Lenght (L)	dB(A) dB(A) dB(A) dB(A) dB(A) mm mm Kg	92 60 89 57 2330 990 2175 810	93 61 90 58 2980 990 2175 850	63 92 60 2980 990 2175 970	63 92 60 2980 990 2175 1050	63 92 60 3920 990 2230 1210	65 94 62 3920 990 2230 1490	65 94 62 4200 1150 2100 1800	67 96 64 4200 1150 2100 1970	69 98 66 5400 1500 2300 2220	69 98 66 5400 1500 2300 2460 5400	70 99 67 5400 1500 2300 2740
Total sound power - ST Version Total sound pressure - ST Version Total sound pressure - ST Version Total sound pressure - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Lenght (L) Depth (P)	dB(A) dB(A) dB(A) dB(A) dB(A) mm mm Kg	92 60 89 57 2330 990 2175 810	93 61 90 58 2980 990 2175 850	63 92 60 2980 990 2175 970 2980 990	63 92 60 2980 990 2175 1050 2980 990	63 92 60 3920 990 2230 1210 3920 990	65 94 62 3920 990 2230 1490 3920 990	65 94 62 4200 1150 2100 1800 4200 1150	67 96 64 4200 1150 2100 1970 4200 1150	69 98 66 5400 1500 2300 2220 5400 1500	69 98 66 5400 1500 2300 2460 5400 1500	70 99 67 5400 1500 2300 2740 5400 1500
Total sound power - ST Version Total sound pressure - ST Version Total sound pressure - ST Version Total sound pressure - LN Version Total sound pressure - LN Version DIMENSIONS AND WEIGHT - Base Solution Lenght (L) Depth (P) Height (H) Shipping weight DIMENSIONS AND WEIGHT - Integrated Solution Lenght (L)	dB(A) dB(A) dB(A) dB(A) dB(A) mm mm Kg	92 60 89 57 2330 990 2175 810	93 61 90 58 2980 990 2175 850	63 92 60 2980 990 2175 970	63 92 60 2980 990 2175 1050	63 92 60 3920 990 2230 1210	65 94 62 3920 990 2230 1490	65 94 62 4200 1150 2100 1800	67 96 64 4200 1150 2100 1970	69 98 66 5400 1500 2300 2220	69 98 66 5400 1500 2300 2460 5400	70 99 67 5400 1500 2300 2740

Reference conditions:

- (1) Condenser air intake temperature = 30°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: Ethylene glycol 35% Condensing coil: Cu/Al
- (2) Plate heat exchanger water tempe. IN/OUT = -4//-8°C Fluid: Ethylene glycol 35% Condenser air intake temperature = 30°C Evaporator water temperature IN/OUT = -4/-8°C Fluid: Ethylene glycol 35% Condensing coil: Cu/Al (3) Sound power level in compliance with ISO 3744 Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level
- (*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

Compliance with "Eco-Design"

The units comply with the European Directive 2009/125/EU, the Commission Regulation (EU) 2016/2281 and with the Harmonized Directives. The relevant information related to each model (eg.: SEER_{no}, Rated cooling capacity, Seasonal space cooling energy efficiency,) are published on our website www.euroklimat.it



Euroklimat has developed an online software called "wEKool" that allows you to select the most suitable solution to meet the specific request and all the available accessories for each model. For more information, please contact your sales representative.





Support and assistance



Webservice² - web portal 24/7

Planned and designed for the specific competences, "webservice" is a web portal that enables customers or support

centres to access the detailed documentation for each single machine: the construction drawing, electric diagram, list of spare parts, order confirmation, instructions manual, declaration of conformity and much more.

The information is consequently always available and up-todate, also when you are physically at the site of installation.

Thanks to the new features of WebService², it is now possible to check in real time the availability of spare parts for each serial number, simply by accessing the service with your own web credentials.



wEKool - Product selection software

The new wEKool selection software is able to search and select, within the wide range of Propane machines produced by Euroklimat, the most suitable solution to meet the specific request.

For more information visit our website www.euroklimat.it.

After-sales service

Our organisation includes an office dedicated to after-sales technical support that is able to offer a great number of services, such as:

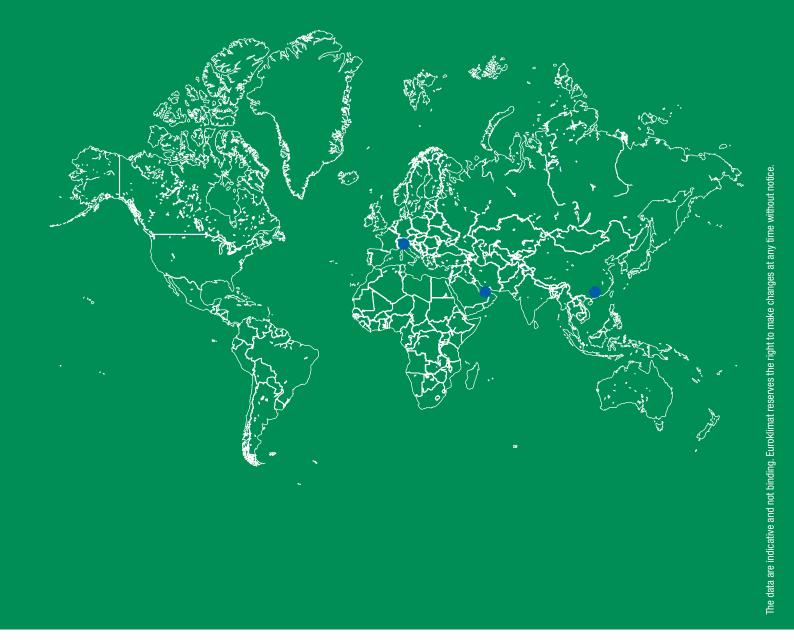
- On-line technical service
- Spare parts service
- Technical intervention in situ
- Scheduled maintenance service
- Customer training courses
- External support centre training courses

Spare parts warehouse

The internal warehouse is divided into a central warehouse, which supplies the assembly lines, and the spare parts warehouse that can guarantee almost immediate availability of all "critical" components.









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