

GLIDER EVO: Packaged air cooled liquid chillers for outdoor installation
equipped with screw compressors and axial fans
Cooling Capacity: **300 ÷ 1313 kW**



GLIDER EVO

rcgroupairconditioning



MAIN FEATURES

- Air cooled liquid chiller.
- 20 models available, for a wide selection opportunity.
- Average step of 50kW.
- EER up to 2,78.
- ESEER up to 3,46.
- Twin-Screw compressors.
- R134a Refrigerant charge.
- Double refrigerant circuit.
- Shell and tube evaporator.
- AC Axial fans.
- Double air circuit.
- Electronic expansion valve.
- Suitable for outdoor installation.

MAIN BENEFITS

- Availability of kit for the reduction and the extreme reduction of the noise.
- Availability of pumping groups.
- Availability of total or partial heat recovery system.
- Availability of EC fans for a higher efficiency.
- Components dedicated to the safety of the unity.
- Eurovent Certification.

ELECTRONIC EXPANSION VALVE

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

WORKING LIMITS IN COOLING MODE

Chilled water outlet temperature: $-10 \div 15^{\circ}\text{C}$
Ambient temperature: $-20 \div 45^{\circ}\text{C}$



MAIN COMPONENTS

FRAMEWORK

- Base, self supporting frame and panelling in steel plate with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders.
- Colour: RAL 9002

COMPRESSORS

- Twin screw semi-hermetic compressors with highly efficient screw profile and high peripheral speed, optimized for R134a refrigerant.
- Integrated discharge check valve.
- Flanged-on oil separator.
- Integrated safety relief valve (overpressure inner valve).
- Replaceable cartridge oil filter.
- Valves for oil filling and discharge.
- Oil sight glass.
- Electronic protection device that includes:
 - Electric motor thermal protection via internal winding temperature sensors.
 - Phase sequence electronic relay.
 - Sensor on refrigerant discharge for temperature monitoring,
- 2-pole 3-phase electric motor with Part-Winding starting from model 300 V2 F06 to model 530 V2 F08 included.
- 2-pole 3-phase electric motor with Star / Delta starting from model 540 V2 F08 to model 1310 V2 F16 included.
- Stepless capacity control, 50÷100% for each compressor.
- Crankcase heater.
- Terminal box with IP54 enclosure class.
- Rubber supports.

EVAPORATOR

- Single pass type shell and tube evaporator, optimized for R134a refrigerant.
- Tubes with a helical rifled internal surface.
- Intermediate baffles positioned to ensure optimum speed of the fluid and low pressure drops.
- Single circuit on water side and independent circuits, one for each compressor, on refrigerant side.
- Shell, header, tube sheets, made of carbon steel, tubes in Cu.
- Anticondensate insulation made of polyurethane.
- Temperature sensors on water inlet and outlet.
- Antifreeze heater.
- Hydraulic connections with grooved end complete with flexible joint and adapter pipe for solder connection.

CONDENSING COIL

- Heat exchanger coil with high efficiency aluminium fins, specifically developed to provide high heat transfer and lower pressure drops. The combination of two factors, special tubes and fins, allow to optimally combine the following aspects:
 - Maximum capacity relative to the size of the exchanger.
 - Minimum charge of refrigerant.
 - Reduction of the air flow required for the heat exchange.
- Frame in galvanized steel.

FANS SECTION

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

REFRIGERANT CIRCUIT

Component for each refrigerant circuit:

- Electronic expansion valve that allows high performance and system efficiency thanks to a timely and accurate response to changes in temperature and pressure.
- Energy reserve module for the electronic expansion valve to allow the closure of the valve in the event of lack of power supply.
- Sight glass.
- Filter dryer on liquid line.
- Service valves on liquid line.
- Service valves on compressor gas discharge.
- Double safety valve (only one in function) on high and low pressure side. The system include two safety valves with manual changeover system.
- Pressure transducers with indication, control and protection functions, on low and high refrigerant pressure and oil pressure.
- High pressure safety switch with manual reset.
- Pressure gauge on high and low pressure.
- Refrigerant circuit with copper tubing with anticondensate insulation of the suction line.
- Plastic capillary hoses for pressure sensors connection.
- R134a refrigerant charge.

ELECTRICAL PANEL

In accordance with EN60204-1 norms, suitable for outdoor installation complete with:

- Main switch with door lock safety.
- Fuses for each compressor.
- Magnetothermic switches for fans.
- Fuses for water pumps (if scheduled).
- Contactors for each load.
- Compressor Part-Winding starting system from model 300 V2 F06 to model 530 V2 F08 included.
- Compressor Star / Delta starting system from model 540 V2 F08 to model 1310 V2 F16 included.
- Transformer for auxiliary circuit and microprocessor supply.
- Panel with machine controls.
- Power supply 400/3/50.

CONTROL SYSTEM

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

OPTIONAL ACCESSORIES

GLIDER EVO

SIZE	F06	F08	F10	F12	F16
739 - Pumping group (1 pump)	•	•	-	-	-
769 - Pumping group (1+1stby)	•	•	-	-	-
740 - Pumping group (2 pumps)	-	-	•	•	•
770 - Pumping group (2+1stby)	-	-	•	•	•
1004 - Antifreezing heater for pumping group	•	•	•	•	•
118 - Kit brine A (for glycol solution production up to -6°C)	•	•	•	•	•
119 - Kit brine B (for glycol solution production up to -12°C)	•	•	•	•	•
786 - Pipes antifreezing kit	•	•	•	•	•
79 - Electrical panel heating system	•	•	•	•	•
150 - LNO kit (noise reduction)	•	•	•	•	•
151 - ELN kit (extremely noise reduction)	•	•	•	•	•
170 - Spring antivibration holders (kit)	•	•	•	•	•
171 - Rubber antivibration holders (kit)	•	•	•	•	•
101 - EC fan	•	•	•	•	•
450 - Partial heat recovery	•	•	•	•	•
449 - Voltage free contact for partial heat recovery water pump activation	•	•	•	•	•
451 - 100% heat reclaim	•	•	•	•	•
454 - Voltage free contact for total heat recovery water pump activation	•	•	•	•	•
Selection switch for operation mode for total heat recovery	•	•	•	•	•
351 - Coils with pre-painted fins	•	•	•	•	•
Condensing coil in special execution	•	•	•	•	•
250 - Coils protection nets (kit)	•	•	•	•	•
731 - Safety water flow switch	•	•	•	•	•
1005 - Oil flow switch	•	•	•	•	•
650 - Compressor thermal relay	•	•	•	•	•
605 - Compr. power factor capacitor - 0,9	•	•	•	•	•
Supply network control relay	•	•	•	•	•
83 - Compressor operation indicator	•	•	•	•	•
550 - Stop valve on compressor suction line	•	•	•	•	•
85 - Demand limit	•	•	•	•	•
88 - Analog set point compensation	•	•	•	•	•
1003 - Analogic flowmeter	•	•	•	•	•
1005 - Power supply analyzer	•	•	•	•	•
1009 - Multimeter kit	•	•	•	•	•
919 - Clock card	•	•	•	•	•
923 - RC-Com MBUS/JBUS Serial board	•	•	•	•	•
926 - LON Serial board	•	•	•	•	•
931 - BACnet Ethernet - SNMP - TCP/IP Serial board	•	•	•	•	•
932 - BACnet MS/TP Serial board	•	•	•	•	•
934 - MP.COM expansion card	•	•	•	•	•
942 - Serial card for GSM Modem	•	•	•	•	•
943 - Data Logger	•	•	•	•	•
Ambient temperature sensor	•	•	•	•	•
962 - Kit modem GSM	•	•	•	•	•
957 - Plantwatch without modem	•	•	•	•	•
930 - Remote graphic terminal kit	•	•	•	•	•
889 - Master plant SEQUENCER	•	•	•	•	•
RC CLOUD PLATFORM	•	•	•	•	•

• available accessory; - not available accessory

TECHNICAL DATA GLIDER EVO

GLIDER EVO SIZE		300 V2 F06	320 V2 F06	360 V2 F06	390 V2 F08	430 V2 F08	480 V2 F08	530 V2 F08	540 V2 F08	
STANDARD	Cooling capacity (1)	kW	300	316	336	392	431	477	524	543
	Unit power input	kW	107,9	114,5	128,2	141,0	155,6	173,5	189,2	196,7
	Evaporator water flow rate	m³/h	51,5	54,2	57,6	67,3	74,1	81,9	90,0	93,3
	Evaporator pressure drop	kPa	47	52	48	59	54	38	38	45
	Compressors		twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw
	Quantity	n.	2	2	2	2	2	2	2	2
	Capacity control	%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%
	Axial fans	n.	6	6	6	8	8	8	8	8
	Total air flow	m³/h	135498	135498	135498	180664	180664	180664	180664	177924
	Air circuits	n.	2	2	2	2	2	2	2	2
	Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	Total refrigerant charge (optional excluded)	kg	110	146	146	145	145	145	145	170
	Gas circuits	n.	2	2	2	2	2	2	2	2
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
	Max operating current (MOC)	A	204,6	204,6	232,4	259,6	282,0	304,4	326,8	348,1
	Max unit operating current (FLA)	A	285,0	285,0	327,0	373,0	358,3	386,6	415,0	429,7
	Unit starting current (LRA)	A	437,4	437,4	517,4	616,2	625,2	706,2	733,2	527,2
	EER (1)	kW/kW	2,78	2,76	2,62	2,78	2,77	2,75	2,77	2,76
	ESEER		3,27	3,26	3,13	3,27	3,35	3,39	3,40	3,40
	Sound power level [Lw] (2)	dB(A)	92,9	91,4	91,8	91,9	96,2	96,4	96,7	96,7
	Average sound pressure level [Lpm] (3)	dB(A)	73,1	71,7	72,0	71,6	76,0	76,2	76,4	76,4
	Net weight	kg	3992	4258	4411	4544	4753	4890	5012	5117
	Hydraulic connections									
	Evaporator IN/OUT - OD (4)	Ø mm	139,7	139,7	139,7	139,7	139,7	139,7	139,7	139,7
OPTIONAL	Partial heat recovery (5)									
	Heating capacity	kW	59,6	62,8	66,8	78,0	85,8	94,9	104,0	108,0
	Total heat recovery (6)									
	Heating capacity	kW	394	417	451	515	570	633	699	726
Pumping group - Power input	kW	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	
LNO KIT 100%	Cooling capacity (1)	kW	300	316	336	392	431	477	524	543
	Unit power input	kW	107,9	114,5	128,2	141,0	155,6	173,5	189,2	196,7
	Total air flow	m³/h	135498	135498	135498	180664	180664	180664	180664	177924
	EER (1)	kW/kW	2,78	2,76	2,62	2,78	2,77	2,75	2,77	2,76
	Sound power level [Lw] (2)	dB(A)	90,9	89,4	89,8	89,9	94,2	94,4	94,7	94,7
	Average sound pressure level [Lpm] (3)	dB(A)	71,1	69,7	70,0	69,6	74,0	74,2	74,4	74,4
LNO KIT 85%	Cooling capacity (1)	kW	296	312	331	387	422	467	513	531
	Unit power input	kW	109,2	115,6	130,8	142,3	159,2	176,9	194,3	202,7
	Total air flow	m³/h	115173	115173	115173	153564	153564	153564	153564	151235
	EER (1)	kW/kW	2,71	2,70	2,53	2,72	2,65	2,64	2,64	2,62
	Sound power level [Lw] (2)	dB(A)	89,9	88,4	88,8	88,9	93,2	93,4	93,7	93,7
	Average sound pressure level [Lpm] (3)	dB(A)	70,1	68,7	69,0	68,6	73,0	73,2	73,4	73,4
LNO KIT 70%	Cooling capacity (1)	kW	290	306	323	379	410	453	497	513
	Unit power input	kW	112,4	120,0	136,9	146,9	164,7	183,4	202,0	211,1
	Total air flow	m³/h	94848	94848	94848	126464	126464	126464	126464	124546
	EER (1)	kW/kW	2,58	2,55	2,36	2,58	2,49	2,47	2,46	2,43
	Sound power level [Lw] (2)	dB(A)	86,9	85,4	85,8	85,9	90,2	90,4	90,7	90,7
	Average sound pressure level [Lpm] (3)	dB(A)	67,1	65,7	66,0	65,6	70,0	70,2	70,4	70,4
ELN KIT	Cooling capacity (1)	kW	290	306	323	379	410	453	497	513
	Unit power input	kW	112,4	120,0	136,9	146,9	164,7	183,4	202,0	211,1
	Total air flow	m³/h	94848	94848	94848	126464	126464	126464	126464	124546
	EER (1)	kW/kW	2,58	2,55	2,36	2,58	2,49	2,47	2,46	2,43
	Sound power level [Lw] (2)	dB(A)	83,9	82,4	82,8	82,9	87,2	87,4	87,7	87,7
	Average sound pressure level [Lpm] (3)	dB(A)	64,1	62,7	63,0	62,6	67,0	67,2	67,4	67,4

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [Lp_m] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with flexible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution. Fouling factor of the exchangers 0,043 m²K/kW.
6. Referred to chilled water temperature 12/7°C – 0% glycol solution; water temperature heat recovery 40/45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m²K/kW.

TECHNICAL DATA GLIDER EVO

GLIDER EVO SIZE		560 V2 F08	610 V2 F08	650 V2 F08	710 V2 F10	770 V2 F10	850 V2 F10	910 V2 F12	950 V2 F12	
STANDARD	Cooling capacity (1)	kW	562	611	647	709	771	855	908	952
	Unit power input	kW	202,9	222,2	232,7	256,0	278,3	310,9	327,8	343,7
	Evaporator water flow rate	m³/h	96,6	105,0	111,0	122,0	132,0	147,0	156,0	164,0
	Evaporator pressure drop	kPa	45	56	56	73	73	55	63	70
	Compressors		twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw	twin-screw
	Quantity	n.	2	2	2	2	2	2	2	2
	Capacity control	%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%	25... 100%
	Axial fans	n.	8	8	8	9	10	10	12	12
	Total air flow	m³/h	175184	175184	175184	197082	218980	212690	262776	262776
	Air circuits	n.	2	2	2	2	2	2	2	2
	Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	Total refrigerant charge (optional excluded)	kg	194	194	194	241	241	302	289	289
	Gas circuits	n.	2	2	2	2	2	2	2	2
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
	Max operating current (MOC)	A	369,4	393,7	418,0	443,0	468,0	516,0	612,0	612,0
	Max unit operating current (FLA)	A	444,4	463,3	482,2	555,6	629,0	692,0	721,1	721,1
	Unit starting current (LRA)	A	541,2	568,2	586,2	685,1	755,0	814,0	952,8	952,8
	EER (1)	kW/kW	2,77	2,75	2,78	2,77	2,77	2,75	2,77	2,77
	ESEER		3,40	3,40	3,44	3,40	3,37	3,43	3,39	3,39
	Sound power level [Lw] (2)	dB(A)	96,7	98,2	99,4	100,1	100,7	100,4	99,8	99,8
	Average sound pressure level [Lpm] (3)	dB(A)	76,4	78,0	79,2	79,4	80,0	79,7	78,8	78,8
	Net weight	kg	5221	5321	5241	6232	6517	7032	7354	7414
	Hydraulic connections									
	Evaporator IN/OUT - OD (4)	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3	168,3	168,3
OPTIONAL	Partial heat recovery (5)									
	Heating capacity	kW	112,0	122,0	129,0	141,0	153,0	170,0	181,0	189,0
	Total heat recovery (6)									
	Heating capacity	kW	750	818	870	948	1031	1151	1214	1277
Pumping group - Power input	kW	5,5	5,5	5,5	11,0	11,0	11,0	11,0	11,0	
LNO KIT 100%	Cooling capacity (1)	kW	562	611	647	709	771	855	908	952
	Unit power input	kW	202,9	222,2	232,7	256,0	278,3	310,9	327,8	343,7
	Total air flow	m³/h	175184	175184	175184	197082	218980	212690	262776	262776
	EER (1)	kW/kW	2,77	2,75	2,78	2,77	2,77	2,75	2,77	2,77
	Sound power level [Lw] (2)	dB(A)	94,7	96,2	97,4	98,1	98,7	98,4	97,8	97,8
	Average sound pressure level [Lpm] (3)	dB(A)	74,4	76,0	77,2	77,4	78,0	77,7	76,8	76,8
LNO KIT 85%	Cooling capacity (1)	kW	550	596	630	691	752	831	886	930
	Unit power input	kW	208,3	228,4	241,4	264,8	287,0	322,1	338,2	356,3
	Total air flow	m³/h	148906	148906	148906	167519	186133	180786	223359	223359
	EER (1)	kW/kW	2,64	2,61	2,61	2,61	2,62	2,58	2,62	2,61
	Sound power level [Lw] (2)	dB(A)	93,7	95,2	96,4	97,1	97,7	97,4	96,8	96,8
	Average sound pressure level [Lpm] (3)	dB(A)	73,4	75,0	76,2	76,4	77,0	76,7	75,8	75,8
LNO KIT 70%	Cooling capacity (1)	kW	531	574	604	665	724	795	855	896
	Unit power input	kW	219,4	241,2	254,9	278,2	301,7	342,7	354,8	378,1
	Total air flow	m³/h	122628	122628	122628	137957	153286	148883	183943	183943
	EER (1)	kW/kW	2,42	2,38	2,37	2,39	2,40	2,32	2,41	2,37
	Sound power level [Lw] (2)	dB(A)	90,7	92,2	93,4	94,1	94,7	94,4	93,8	93,8
	Average sound pressure level [Lpm] (3)	dB(A)	70,4	72,0	73,2	73,4	74,0	73,7	72,8	72,8
ELN KIT	Cooling capacity (1)	kW	531	574	604	665	724	795	855	896
	Unit power input	kW	219,4	241,2	254,9	278,2	301,7	342,7	354,8	378,1
	Total air flow	m³/h	122628	122628	122628	137957	153286	148883	183943	183943
	EER (1)	kW/kW	2,42	2,38	2,37	2,39	2,40	2,32	2,41	2,37
	Sound power level [Lw] (2)	dB(A)	87,7	89,2	90,4	91,1	91,7	91,4	90,8	90,8
	Average sound pressure level [Lpm] (3)	dB(A)	67,4	69,0	70,2	70,4	71,0	70,7	69,8	69,8

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [Lp_m] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with flexible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution. Fouling factor of the exchangers 0,043 m²K/kW.
6. Referred to chilled water temperature 12/7°C – 0% glycol solution; water temperature heat recovery 40/45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m²K/kW.

TECHNICAL DATA GLIDER EVO

GLIDER EVO SIZE		1060 V2 F16	1120 V2 F16	1180 V2 F16	1310 V2 F16	
STANDARD	Cooling capacity (1)	kW	1065	1123	1184	1313
	Unit power input	kW	387,3	408,4	427,4	475,7
	Evaporator water flow rate	m³/h	183,0	193,0	204,0	226,0
	Evaporator pressure drop	kPa	41	49	49	59
	Compressors		twin-screw	twin-screw	twin-screw	twin-screw
	Quantity	n.	2	2	2	2
	Capacity control	%	25... 100%	25... 100%	25... 100%	25... 100%
	Axial fans	n.	16	16	16	16
	Total air flow	m³/h	361328	361328	361328	350368
	Air circuits	n.	2	2	2	2
	Refrigerant		R134a	R134a	R134a	R134a
	Total refrigerant charge (optional excluded)	kg	290	290	290	389
	Gas circuits	n.	2	2	2	2
	Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
	Max operating current (MOC)	A	690	733	776	846
	Max unit operating current (FLA)	A	821,5	877,2	932,8	1004,2
	Unit starting current (LRA)	A	1072,4	1227,4	1280,4	1426,4
	EER (1)	kW/kW	2,75	2,75	2,77	2,76
	ESEER		3,40	3,44	3,46	3,44
	Sound power level [Lw] (2)	dB(A)	102,9	102,9	102,9	103,2
	Average sound pressure level [Lpm] (3)	dB(A)	81,1	81,1	81,1	81,4
	Net weight	kg	9491	9975	9995	10075
	Hydraulic connections					
	Evaporator IN/OUT - OD (4)	Ø mm	168,3	168,3	168,3	168,3
OPTIONAL	Partial heat recovery (5)					
	Heating capacity	kW	212,0	224,0	236,0	261,0
	Total heat recovery (6)					
	Heating capacity	kW	1425	1511	1595	1770
Pumping group - Power input	kW	11,0	11,0	11,0	11,0	
LNO KIT 100%	Cooling capacity (1)	kW	1065	1123	1184	1313
	Unit power input	kW	387,3	408,4	427,4	475,7
	Total air flow	m³/h	361328	361328	361328	350368
	EER (1)	kW/kW	2,75	2,75	2,77	2,76
	Sound power level [Lw] (2)	dB(A)	100,9	100,9	100,9	101,2
	Average sound pressure level [Lpm] (3)	dB(A)	79,1	79,1	79,1	79,4
LNO KIT 85%	Cooling capacity (1)	kW	1042	1097	1154	1278
	Unit power input	kW	396,2	418,7	440,5	493,4
	Total air flow	m³/h	307128	307128	307128	297812
	EER (1)	kW/kW	2,63	2,62	2,62	2,59
	Sound power level [Lw] (2)	dB(A)	99,9	99,9	99,9	100,2
	Average sound pressure level [Lpm] (3)	dB(A)	78,1	78,1	78,1	78,4
LNO KIT 70%	Cooling capacity (1)	kW	1008	1059	1111	1226
	Unit power input	kW	413,1	437,6	462,9	519,5
	Total air flow	m³/h	252929	252929	252929	245257
	EER (1)	kW/kW	2,44	2,42	2,40	2,36
	Sound power level [Lw] (2)	dB(A)	96,9	96,9	96,9	97,2
	Average sound pressure level [Lpm] (3)	dB(A)	75,1	75,1	75,1	75,4
ELN KIT	Cooling capacity (1)	kW	1008	1059	1111	1226
	Unit power input	kW	413,1	437,6	462,9	519,5
	Total air flow	m³/h	252929	252929	252929	245257
	EER (1)	kW/kW	2,44	2,42	2,40	2,36
	Sound power level [Lw] (2)	dB(A)	93,9	93,9	93,9	94,2
	Average sound pressure level [Lpm] (3)	dB(A)	72,1	72,1	72,1	72,4

1. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C. Fouling factor of the exchangers 0,043 m²K/kW.
2. Sound power level [Lw] according to ISO EN 9614 – 2.
3. Average sound pressure level [Lpm] 1m far according to ISO EN 3744.
4. Hydraulic connection with grooved end complete with flexible joint and adapter pipe for solder connection.
5. Referred to chilled water temperature 12/7°C – 0% glycol solution; air temperature to the condenser 35°C; water temperature heat recovery 40/45°C – 0% glycol solution. Fouling factor of the exchangers 0,043 m²K/kW.
6. Referred to chilled water temperature 12/7°C – 0% glycol solution; water temperature heat recovery 40/45°C – 0% glycol solution; Fouling factor of the exchangers 0,043 m²K/kW.

DIMENSIONS (mm)

SIZE F	a	b	c
F06	3520	2260	2550
F08	4490	2260	2550
F10	5460	2260	2550
F12	6430	2260	2550
F16	8720	2260	2550

