air cooled liquid chilled chillers / heat pumps

GLIDER_

cooling capacity	•	189,7 ÷ 1613,1 kW
heating capacity	•	203,1 ÷ 1613,1 kW
compressors	•	screw
refrigerant	•	R134a
fan type	•	axial
microprocessor	•	MP.COM
models	•	45

GLIDER

air cooled liquid chilled chillers / heat pumps

GLIDER "Y"

GENERAL FEATURES

The **GLIDER** units are a complete range including liquid chillers and heat pumps, with high energy efficiency and reduced operating costs, granting an efficacious answer to the today's needs of "comfort" and hi-tech air conditioning well as in the industrial process cooling.
Developed with the most advanced 3D-CAD software, **GLIDER** chillers are available in two brand new cabinet types (for more a rational internal layout), an extremely innovative condenser fan section and the state of the art of electrical, electronics and refrigerating components.

VERSIONS :

GLIDER (R134a)

Cooling capacity 189,7 ÷ 1537,2 kW

Liquid chiller equipped with screw compressors and axial fans.

GLIDER.CLA (R134a)

Cooling capacity 199,8 ÷ 1613,1 kW

Liquid chiller with A-Class Energy Efficiency (EER > 3,1) equipped with screw compressors and axial fans.

GLIDER.ELN (R134a)

Cooling capacity 193,5 ÷ 1538,4 kW

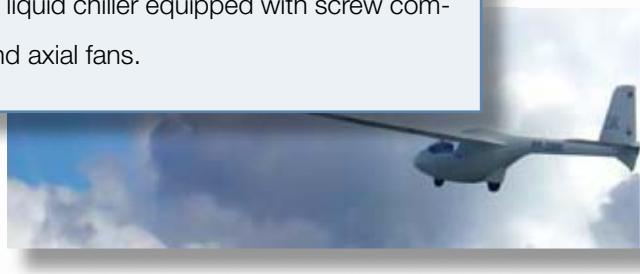
Extremely low noise liquid chiller equipped with screw compressors and axial fans.

GLIDER.HP (R134a)

Cooling capacity 188,8 ÷ 999,7 kW

Heating capacity 203,1 ÷ 1077,5 kW

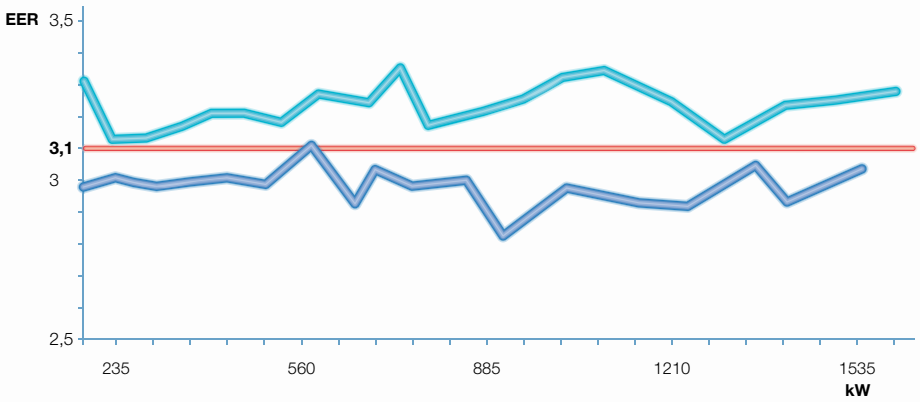
Heat pump liquid chiller equipped with screw compressors and axial fans.

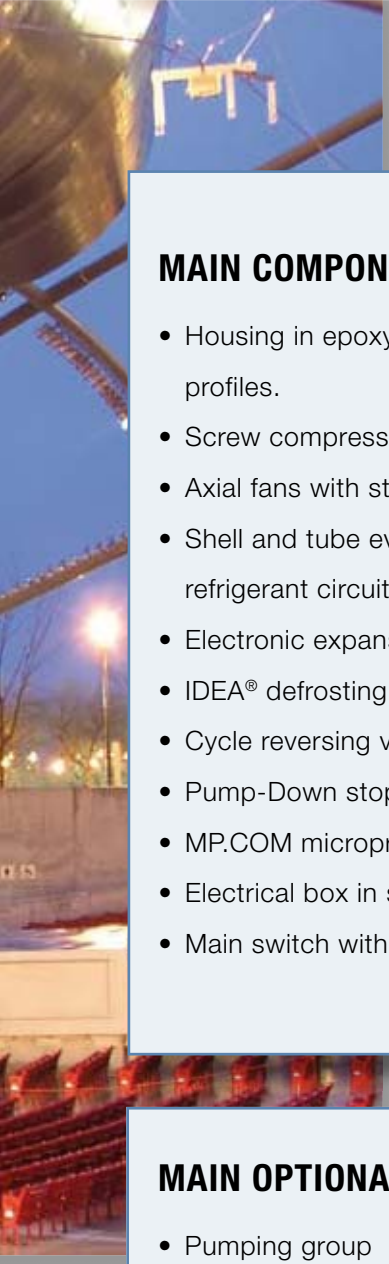


A-CLASS

GLIDER chillers stand out for the high efficiency of the whole series.
The graphic beside shows EER values for **GLIDER** and **GLIDER.CLA** versions, in comparison to the 3,1 A-Class* energy ratio.

*In agreement with EECCAC (Energy Efficiency and Certification of Central Air Conditioning).





MAIN COMPONENTS

- Housing in epoxy painted galvanized steel profiles.
- Screw compressors
- Axial fans with stepless speed control
- Shell and tube evaporator with one refrigerant circuit for each compressor
- Electronic expansion valve
- IDEA® defrosting system (GLIDER.HP)
- Cycle reversing valve (GLIDER.HP)
- Pump-Down stop system
- MP.COM microprocessor control
- Electrical box in separate compartment
- Main switch with door lock safety

MAIN OPTIONAL ACCESSORIES

- Pumping group
- Water tank
- Partial or total heat reclaim
- LNO kit for noise reduction
- “Brine A” and “Brine B” kit for chilled water production with temperatures down to -10°C.
- Serial port

IDEA® defrosting system
GLIDER.HP version

“Patented” defrosting system with dynamic reading of working parameters. Thanks to proprietary software it senses the real presence of brine on the coil starting defrosting cycles only in that situation. This brings a remarkable energy saving (more than 20-30% on the average) and a higher working continuity compared with traditional systems.

GLIDER “N”

V-WINGS
GLIDER chillers are equipped with direct driven axial fans, coupled to 6-poles electric motors and protected by special safety mesh.
Units with “F” cabinet use the same type of fans, but are inclined in the horizontal axis.
This innovative solution have also highlighted the following advantages:

- uniform air distribution over the complete condenser coil
- reduction of hot air recirculation
- low noise emission

GLIDER “F”

TECHNICAL DATA AND NOMINAL PERFORMANCES

GLIDER

Model		190 V2.N8	230 V2.N8	270 V2.N8	330 V2.N8	380 V2.Y2	440 V2.Y2	500 V2.Y2	580 V2.Y3	640 V2.Y3	690 V2.Y3
Cooling capacity (1)	kW	189,7	228,0	268,8	321,5	370,7	435,7	497,3	573,2	637,4	693,2
Compressors	n.	2	2	2	2	2	2	2	2	2	2
Power input	kW	58,5	68,0	86,6	107,3	116,1	131,1	155,2	168,3	201,4	212,8
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2
Weight	kg	2.231	2.251	2.396	2.656	3.062	3.267	3.587	4.026	4.123	4.263
Sound pressure (2)	dB(A)	73,1	73,1	73,1	73,2	73,2	75,9	75,9	76,2	78,0	78,0

Model		750 V2.Y4	840 V2.Y4	920 V2.F10	1020 V2.F10	1150 V3.F12	1240 V3.F14	1360 V3.F16	1410 V3.F16	1540 V3.F16
Cooling capacity (1)	kW	746,5	845,8	920,5	1.019,2	1.147,1	1.241,0	1.355,9	1.410,5	1.537,2
Compressors	n.	2	2	2	2	3	3	3	3	3
Power input	kW	231,6	261,8	306,3	322,1	367,7	398,4	413,1	449,6	475,1
Gas circuits	n.	2	2	2	2	3	3	3	3	3
Weight	kg	5.007	5.433	7.405	7.545	9.399	10.313	11.357	11.617	11.847
Sound pressure (2)	dB(A)	78,9	78,7	78,7	78,7	79,7	79,9	79,9	80,0	80,0

(1) Referred to chilled water temperature 12/7°C and air to the condenser at 35°C
(2) Sound pressure 1m far in free field conditions according to ISO3744 norms
POWER SUPPLY: 400.3.50

GLIDER.CLA A Class energy efficiency

Model		200 V2.N8	240 V2.N8	280 V2.N8	350 V2.Y2	390 V2.Y2	450 V2.Y2	520 V2.Y3	590 V2.Y3	680 V2.Y4	730 V2.Y4
Cooling capacity (1)	kW	199,8	232,7	275,9	340,5	388,0	446,4	518,7	586,8	673,9	731,7
Compressors	n.	2	2	2	2	2	2	2	2	2	2
Power input	kW	54,3	68,7	83,8	99,7	109,4	127,0	147,0	163,3	187,5	198,3
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2
Weight	kg	2.231	2.386	2.396	2.862	3.062	3.387	3.961	4.166	4.507	4.777
Sound pressure (2)	dB(A)	73,1	73,1	73,1	73	73,9	75,9	76,2	76,2	78,1	78,1

Model		780 V2.Y4	880 V2.F10	950 V2.F12	1020 V2.F14	1090 V2.F14	1210 V3.F16	1300 V3.F16	1410 V3.F18	1500 V3.F20	1610 V3.F20
Cooling capacity (1)	kW	775,9	876,6	947,4	1.015,8	1.089,1	1.213,2	1.296,9	1.409,7	1.495,3	1.613,1
Compressors	n.	2	2	2	2	2	3	3	3	3	3
Power input	kW	225,0	253,3	267,7	277,9	298,3	342,2	382,6	399,9	420,1	453,5
Gas circuits	n.	2	2	2	2	2	3	3	3	3	3
Weight	kg	5.395	7.425	8.069	8.913	9.013	10.807	11.327	12.176	13.150	13.300
Sound pressure (2)	dB(A)	78,9	78,7	78,7	78,9	78,9	79,8	79,9	80,0	80,1	80,1

(1) Referred to chilled water temperature 12/7°C and air to the condenser at 35°C
(2) Sound pressure 1m far in free field conditions according to ISO3744 norms
POWER SUPPLY: 400.3.50

TECHNICAL DATA AND NOMINAL PERFORMANCES

GLIDER.ELN extra low noise

Model		200 V2.N8	230 V2.N8	280 V2.N9	350 V2.Y2	390 V2.Y2	450 V2.Y3	520 V2.Y3	570 V2.Y3	660 V2.Y4	690 V2.Y4
Cooling capacity (1)	kW	193,5	227,4	277,9	344,4	382,8	449,9	510,0	564,3	651,3	688,9
Compressors	n.	2	2	2	2	2	2	2	2	2	2
Power input	kW	61,4	74,0	87,9	104,0	121,9	133,2	163,5	181,9	207,7	227,0
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2
Weight	kg	2.321	2.341	2.794	3.012	3.397	3.911	4.156	4.316	4.657	4.757
Sound pressure (2)	dB(A)	64,1	64,1	64,6	63,3	63,3	64,4	64,4	64,4	65,5	65,5

Model		740 V2.Y4	820 V2.F10	900 V2.F12	940 V2.F12	1030 V2.F12	1170 V3.F16	1240 V3.F16	1300 V3.F16	1400 V3.F18	1540 V3.F20
Cooling capacity (1)	kW	734,4	813,2	893,7	938,7	1.021,3	1.169,1	1.235,1	1.299,3	1.397	1.538,4
Compressors	n.	2	2	2	2	2	3	3	3	3	3
Power input	kW	250,4	290,9	295,0	323,1	340,3	380,5	424,2	461,6	482,5	502,7
Gas circuits	n.	2	2	2	2	2	3	3	3	3	3
Weight	kg	5.327	7.433	8.137	8.279	8.499	10.957	11.247	11.507	12.416	13.450
Sound pressure (2)	dB(A)	65,8	67,6	67,7	67,8	67,8	68,5	68,6	68,6	68,7	68,8

(1) Referred to chilled water temperature 12/7°C and air to the condenser at 35°C
(2) Sound pressure 1m far in free field conditions according to ISO3744 norms
POWER SUPPLY: 400.3.50

GLIDER.HP heat pump

Model		190 V2.N8	230 V2.N8	270 V2.N8	330 V2.N8	380 V2.Y2	440 V2.Y2	500 V2.Y2
Cooling capacity (1)	kW	189,1	227,0	267,2	319,0	366,7	429,1	487,6
Heating capacity (2)	kW	203,1	246,0	287,4	347,8	394,7	454,2	530,1
Compressors	n.	2	2	2	2	2	2	2
Power input (1)	kW	58,4	68,0	86,5	107,0	115,7	130,5	154,3
Power input (2)	kW	57,2	68,9	77,1	92,6	106,1	119,7	144,2
Gas circuits	n.	2	2	2	2	2	2	2
Weight	kg	2.381	2.401	2.546	2.806	3.382	3.567	3.887
Sound pressure (3)	dB(A)	73,1	73,1	73,1	73,2	73,2	75,9	75,9

Model		580 V2.Y3	640 V2.Y3	690 V2.Y3	750 V2.Y4	840 V2.Y4	920 V2.F10	1020 V2.F10
Cooling capacity (1)	kW	558,5	617,9	668,0	731,8	825,0	906,1	999,7
Heating capacity (2)	kW	592,0	656,2	720,9	782,0	893,1	974,2	1077,5
Compressors	n.	2	2	2	2	2	2	2
Power input (1)	kW	167,1	199,4	210,4	230,2	259,8	303,8	319,1
Power input (2)	kW	156,0	175,5	191,0	216,3	239,5	267,2	280,3
Gas circuits	n.	2	2	2	2	2	2	2
Weight	kg	4.326	4.423	4.663	5.357	5.803	7.805	8.045
Sound pressure (3)	dB(A)	76,2	78,0	78,0	78,9	78,7	78,7	78,7

(1) Referred to chilled water temperature 12/7°C and air to the condenser at 35°C
(2) Referred to hot water outlet temperature at 45°C and outdoor temperature at 7°C
(3) Sound pressure 1m far in free field conditions according to ISO3744 norms
POWER SUPPLY: 400.3.50

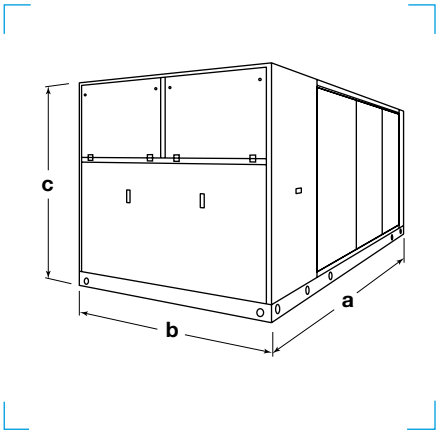
GLIDER

air cooled liquid chilled chillers / heat pumps

DIMENSIONS (mm)

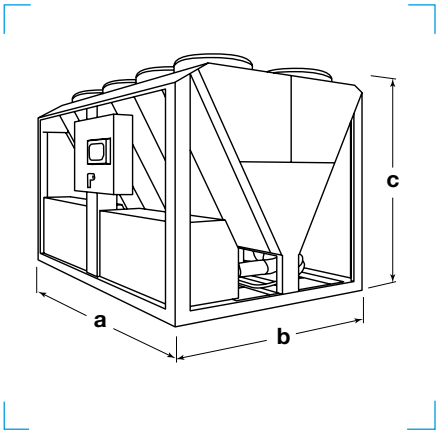
GLIDER "N"

Size	*a*	*b*	*c*
V2.N8	4.400	1.800	1.990
V2.N9	5.400	1.800	1.990



GLIDER "Y"

Size	*a*	*b*	*c*
V2.Y2	3.756	2.310	2.490
V2.Y3	4.900	2.310	2.490
V2.Y4	6.056	2.310	2.490



GLIDER "F"

Size	*a*	*b*	*c*
V2.F10	6.790	2.320	2.560
V2.F12	7.860	2.320	2.560
V2.F14	8.930	2.320	2.560
V3.F12	8.410	2.320	2.560
V3.F14	9.480	2.320	2.560
V3.F16	10.550	2.320	2.560
V3.F18	11.620	2.320	2.560
V3.F20	12.690	2.320	2.560