

Air Eco₂nomy[®]



Energy efficient, compact, and versatile

GEA-Chiller

Process- and Comfort Air Conditioning | Product Overview

ESEER 6,0

64 dB(A)

2.450 kW

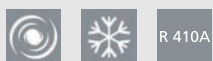
Outdoor installation		
Chiller		Compressor/ Condensing unit
Air cooled		
Packaged		Split
GSAC		GCA
		
GAC		GLCU
		
GLAC		
    		
GLFC		
 		
Heat pumps		
GSAH		
		
GAH		
		
GLAH		
  		

Indoor installation			
Chiller			
Air cooled		Water cooled	
Packaged for duct connection	Split without evaporator	Packaged without heat rejection	
GSDC	GRC	GWC	
			
GDC	GLRC	GLWC	
			  
GLDC			
			
Heat pumps		Heat pumps	
GSDH		GLWH	
			  

Outdoor Installation		Capacity	Units			Configuration	Page	
■ Chiller – Air Cooled – Packaged								
1	scroll compressor	4,9 ... 15,4 kW	GSAC	0011 ... 0061	ED1/5	optimized packaged configuration	7	
1...2	scroll compressors	11 ... 55 kW	GAC_	005 ... 024	CC1	optimized for space saving	8	
2	scroll compressors	36 ... 159 kW	GLAC	0152 ... 0612	BD1	standard configuration + SL	9	
4	scroll compressors	136 ... 325 kW	GLAC	0524 ... 1204	BD2	standard configuration + SL	10	
5...6	scroll compressors	349 ... 480 kW	GLAC	1355 ... 1806	BD2	optimized for high efficiency	11	
1	screw compressor	145 ... 266 kW	GLAC	0751 ... 1301	BA2	standard configuration + SL	12	
2	screw compressors	277 ... 516 kW	GLAC	1542 ... 2642	BA2	standard configuration + SL	13	
2	screw compressors	277 ... 516 kW	GLAC	1532 ... 2632	BA2	standard conf. including hydraulic module + SL	14	
2	screw compressors	294 ... 598 kW	GLAC	1502 ... 2702	BA2	optimized for high efficiency + SL	15	
2	screw compressors	625 ... 1157 kW	GLAC	2712 ... 4822	BA2	optimized for high efficiency + SL	16	
3	screw compressors	1198 ... 1609 kW	GLAC	5403 ... 7223	BA2	optimized for high efficiency + SL	17	
4	screw compressors	1744 kW	GLAC	8404	BA2	optimized for high efficiency + SL	17	
■ Chiller – Air cooled, Free cooling								
2	scroll compressors	35 ... 162 kW	GLFC	0152 ... 0612	BD2	Free cooling	18	
4	scroll compressors	142 ... 326 kW	GLFC	0604 ... 1204	BD2	Free cooling	20	
■ Compressor/Condensing Unit – Split – Without Wvaporator								
1	scroll compressor	12 ... 16 kW	GCA	100 ... 140	BD4	optimized for space saving	22	
1...2	scroll compressors	14 ... 28 kW	GCA	125 ... 250	AD1	scroll inverter compressor	22	
2	scroll compressors	40 ... 148 kW	GLCU	0152 ... 0512	AC1	standard configuration 2 circuit system	23	
4	scroll compressors	151 ... 171 kW	GLCU	0524 ... 0604	AC2	standard configuration 2 circuit system	23	
■ Heat Pumps – Air Cooled – Packaged								
1	scroll compressor	5,7 ... 16,8 kW	GSAH	0011 ... 0061	ED1/5	optimized packaged configuration	34	
1...2	scroll compressors	12 ... 54 kW	GAH_	005 ... 024	CC1	optimized for space saving	35	
2	scroll compressors	43 ... 173 kW	GLAH	0152 ... 0612	BD1	standard configuration + LT	36	
4	scroll compressors	145 ... 356 kW	GLAH	0524 ... 1204	BD2	standard configuration + LT	37	
5...6	scroll compressors	380 ... 517 kW	GLAH	1355 ... 1806	BD2	optimized for high efficiency	38	
Indoor Installation		Capacity	Units			Configuration	Page	
■ Chiller – Air cooled – Packaged – For Duct Connection								
1	scroll compressor	4,6... 15,4 kW	GSDC	0011 ... 0061	ED1/5	optimized packaged configuration	24	
1	scroll compressor	12 ... 24 kW	GDC	005 ... 010	AC1	optimized for space saving	25	
2	scroll compressors	37 ... 159 kW	GLDC	0152 ... 0612	BD2	standard configuration	26	
4	scroll compressors	152 ... 312 kW	GLDC	0604 ... 1204	BD2	standard configuration	26	
■ Chiller – Air Cooled – Split – Without Heat Rejection – Without Condenser								
1...2	scroll compressors	12 ... 62 kW	GRC	005 ... 024	DC1	optimized for space saving	27	
2	scroll compressors	40 ... 168 kW	GLRC	0152 ... 0612	BC2	standard configuration	28	
4	scroll compressors	140 ... 162 kW	GLRC	0524 ... 0604	BC2	standard configuration	28	
■ Chiller – Water Cooled – Packaged – Without Heat Rejection								
1...2	scroll compressors	13 ... 65 kW	GWC	005 ... 024	DC1	optimized for space saving	29	
2	scroll compressors	43 ... 186 kW	GLWC	0152 ... 0612	BD2	standard configuration	30	
4	scroll compressors	174 ... 371 kW	GLWC	0604 ... 1204	BD2	standard configuration	30	
– Control cabinet on the lateral side								
1	screw compressor	87 ... 221 kW	GLWC	0401 ... 0951	BA2	standard configuration	31	
2	screw compressors	178 ... 447 kW	GLWC	0802 ... 1902	BA2	standard configuration	31	
– Control cabinet on the front side								
1	screw compressor	233 ... 479 kW	GLWC	1001 ... 1801	BA2	standard configuration	32	
2	screw compressors	460 ... 1216 kW	GLWC	2002 ... 4802	BA2	standard configuration	32	
3	screw compressors	1283 ... 1403 kW	GLWC	5003 ... 5403	BA2	standard configuration	33	
4	screw compressors	1466 ... 2432 kW	GLWC	5414 ... 9604	BA2	standard configuration	33	
■ Heat Pumps – Air Cooled – Packaged								
1	scroll compressor	5,7 ... 16,8 kW	GSDH	0011 ... 0061	ED1/5	optimized packaged configuration	39	
■ Heat Pumps – Water Cooled – Packaged – Without Heat Rejection								
2	scroll compressors	51 ... 215 kW	GLWH	0152 ... 0612	BD2	standard configuration	40	
4	scroll compressors	202 ... 428 kW	GLWH	0604 ... 1204	BD2	standard configuration	40	
– Control cabinet on the lateral side								
1	screw compressor	100 ... 252 kW	GLWH	0401 ... 0951	BA2	standard configuration	41	
2	screw compressors	202 ... 509 kW	GLWH	0802 ... 1902	BA2	standard configuration	41	
– Control cabinet on the front side								
1	screw compressor	274 ... 547 kW	GLWH	1001 ... 1801	BA2	standard configuration	42	
2	screw compressors	519 ... 1374 kW	GLWH	2002 ... 4802	BA2	standard configuration	42	
3	screw compressors	1463 ... 1613 kW	GLWH	5003 ... 5403	BA2	standard configuration	43	
4	screw compressors	1647 ... 2749 kW	GLWH	5414 ... 9604	BA2	standard configuration	43	
■ Controller Features of G and GL Chiller Series								44
■ Calculation Sound Power into Sound Pressure								45



750	1000	2000	R 410A	R 407C	R 134a	Screw compressor	Scroll compressor	Standard hydraulic module	Optional hydraulic module	Optional pump module
...1806 BD2			●				●		●	
				●			●		●	●
			●				●		●	
			●				●		●	
			●				●		●	
					●	●			●	
					●	●		●		
					●	●				
					●	●				
					●	●				
1355...1806 BD2			●				●			
			●				●			
				●			●		●	●
			●				●		●	
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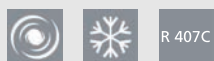


- Optimized packaged configuration with 1 scroll compressor
- Cooling operation up to -10 °C outside temperature
- Autoadaptive microprocessor control
- Integrated chilled water pump



Supply voltage		1 ~ 230 Volt (Series ED5)					3 ~ 400 Volt (Series ED1)					
Refrigerant R 410a	GSAC	0011	0021	0025	0031	0041	0021	0025	0031	0041	0051	0061
Nominal cooling capacity	kW	4,9	5,6	6,9	8,6	11,0	5,6	7,0	8,7	11,4	13,2	15,4
Power consumption	kW	1,9	2,1	2,5	3,4	4,1	2	2,4	3,1	4,2	4,7	5,2
Max. current consumption	A	17,6	17,6	20,6	24,6	28,6	7,1	7,6	9,6	11,6	13,4	16,9
ESEER	-	3,11	3,35	3,33	3,28	3,17	3,37	3,37	3,34	3,30	3,25	3,51
Scroll compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	1	1	1	1	1	1	1	1	1	1	1
Pump												
Pump head piping	kPa	59	57	54	54	43	57	54	54	40	33	30
Nominal volume flow	m³/h	0,8	1	1,2	1,5	1,9	1	1,2	1,5	2	2,3	2,7
Sound power level	dB(A)	65	66	66	66	69	66	66	66	69	69	69
Sound pressure level 10 m	dB(A)	37	38	38	38	41	38	38	38	41	41	41
Length	mm	900	900	900	900	900	900	900	900	900	900	900
Width	mm	370	370	370	370	370	370	370	370	370	370	420
Height	mm	640	640	940	940	1240	640	940	940	1240	1240	1390
Operating weight	kg	80	85	100	105	125	85	100	105	125	145	155

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for space saving configuration with 1 ... 2 scroll compressors
- Cooling operation up to -15 °C outside temperature
- Microprocessor control
- Controller type: µ-Chiller
- Connection to BMS via optional interface
- With loose water filter and mounted flow switch



GACN	without pump – without buffer tank
GACP	with pump
GACB	with pump – with buffer tank

Refrigerant R 407C	GAC_	005	008	010	012	016	020	024
Nominal cooling capacity	kW	11,3	17,9	22,5	26,5	37,0	46,6	55,3
Power consumption	kW	4,5	7,4	8,8	11,5	15,2	18,1	24,0
Max. current consumption	A	11	17	20	27	34	40	54
ESEER	-	2,93	2,87	3,07	2,74	3,07	3,30	2,94
Scroll compressor	Quantity	1	1	1	1	2	2	2
Circuits	Quantity	1	1	1	1	2	2	2
Speeds	Quantity	1	1	1	1	2	2	2
Sound power level	dB(A)	67	76	78	78	79	81	81
Sound pressure level 10 m	dB(A)	39	48	50	50	51	53	53
Length	mm	1290	1290	1290	1290	2580	2580	2580
Width	mm	734	734	734	734	734	734	734
Height	mm	1230	1230	1450	1450	1321	1541	1541
GACN without pump – without buffer tank								
Operating weight	kg	152	218	248	251	436	496	503
GACP with pump								
Operating weight	kg	171	232	262	265	457	518	524
GACB with pump – with buffer tank								
Operating weight	kg	239	300	330	355	525	586	592

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and air intake temperature 35 °C

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 scroll compressors
- Buffer tank and pump as option (GLHM hydraulic module)
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- Mounted with water filter



Refrigerant R 410A	GLAC	0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	36,1	42,8	50,7	57,6	74,2	84,4	96,4	108,8	122,0	144,0	158,6
Power consumption	kW	15,1	16,5	18,9	21,2	28,6	33,7	37,1	41,4	45,9	50,2	58,6
Max. current consumption	A	33	36	45	49	61	73	81	91	103	116	129
ESEER	-	4,03	4,20	4,25	4,22	4,11	3,99	4,02	4,15	4,06	4,40	4,20
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	79	79	80	80	81	83	83	83	84	87	87
Sound pressure level 10 m	dB(A)	51	51	52	52	53	55	55	55	56	59	59
Length	mm	1695	1695	2195	2195	2745	2745	2745	2745	3245	3245	3245
Width	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
Height	mm	1420	1420	1420	1420	1420	1420	1420	1420	1420	1620	1620
Operating weight	kg	370	410	460	490	660	720	790	820	930	950	960

as above, however with noise optimized model .SL

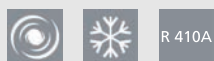
Refrigerant R 410A	GLAC.SL	0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	33,8	42,3	47,8	55,5	69,9	85,4	96,8	106,1	117,5	138,8	150,9
Power consumption	kW	16,3	17,0	20,3	22,6	30,9	33,6	37,3	43,2	48,1	53,1	62,4
Max. current consumption	A	33	37	45	51	61	75	83	93	103	116	129
ESEER	-	3,77	3,93	4,01	3,89	3,86	3,87	3,91	3,91	3,90	4,19	3,96
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	76	77	77	78	78	81	81	81	82	84	84
Sound pressure level 10 m	dB(A)	48	49	49	50	50	53	53	53	54	56	56
Length	mm	1695	2195	2195	2745	2745	3245	3245	3245	3245	3245	3245
Width	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
Height	mm	1420	1420	1420	1420	1420	1620	1620	1620	1620	1620	1620
Operating weight	kg	390	450	480	540	700	780	860	910	940	950	960

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!

Chiller Outdoor Installation

Air Cooled · Packaged
136 kW up to 325 kW

GLAC 0524 ... 1204 BD2
GLAC 0524 ... 1204 BD2.SL



- Standard configuration with 4 scroll compressors
- Buffer tank und pump optional (GLHM hydraulic module)
- Cooling operation up to -15 °C outside temperature

- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- Mounted with water filter



Refrigerant R 410A	GLAC	0524	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	136	154	177	200	223	255	293	325
Power consumption	kW	53,8	59,8	67,7	74,9	84,4	94,2	106,3	121,2
Max. current consumption	A	116	127	143	160	179	206	232	258
ESEER	-	3,60	3,79	3,91	4,08	4,15	3,96	4,10	4,16
Scroll compressor	Quantity	4	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4	4
Sound power level	dB(A)	92	92	92	92	93	94	95	95
Sound pressure level 10 m	dB(A)	64	64	64	64	65	66	67	67
Length	mm	3110	3110	3110	3110	4110	4110	4110	4110
Width	mm	2220	2220	2220	2220	2220	2220	2220	2220
Height	mm	1700	1700	2150	2150	2150	2150	2150	2150
Operating weight	kg	1450	1620	1780	1890	2070	2220	2380	2530

as above, however with noise optimized model .SL

Refrigerant R 410A	GLAC.SL	0524	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	130	147	161	193	211	235	278	313
Power consumption	kW	51,9	58,9	70,8	75,3	87,2	96,4	106,2	121,2
Max. current consumption	A	116	127	143	167	187	206	232	266
ESEER	-	4,14	4,14	4,13	4,08	4,08	4,10	4,39	4,19
Scroll compressor	Quantity	4	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4	4
Sound power level	dB(A)	82	82	82	83	83	83	85	86
Sound pressure level 10 m	dB(A)	54	54	54	55	55	55	57	58
Length	mm	3110	3110	3110	4110	4110	4110	5110	5110
Width	mm	2220	2220	2220	2220	2220	2220	2220	2220
Height	mm	2150	2150	2150	2150	2150	2150	2150	2150
Operating weight	kg	1570	1770	1860	2120	2180	2320	2630	2770

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for high efficiency with 5 ... 6 scroll compressors
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 410A	GLAC	1355	1506	1656	1806
Nominal cooling capacity	kW	349	369	438	480
Power consumption	kW	129,6	140,9	157,4	182,4
Max. current consumption	A	280	299	347	386
ESEER	-	4,05	4,07	4,02	4,06
Scroll compressor	Quantity	5	6	6	6
Circuits	Quantity	2	2	2	2
Speeds	Quantity	5	6	6	6
Sound power level	dB(A)	94	94	95	95
Sound pressure level 10 m	dB(A)	66	66	67	67
Length	mm	3615	3615	4615	4615
Width	mm	2226	2226	2226	2226
Height	mm	2430	2430	2430	2430
Operating weight	kg	2990	3140	3490	3550

as above, however with noise optimized model .SL

Refrigerant R 410A	GLAC.SL	1355	1506	1656	1806
Nominal cooling capacity	kW	338	356	419	455
Power consumption	kW	129,8	141,9	159,3	187,0
Max. current consumption	A	288	308	355	394
ESEER	-	4,18	4,20	4,29	4,17
Scroll compressor	Quantity	5	6	6	6
Circuits	Quantity	2	2	2	2
Speeds	Quantity	5	6	6	6
Sound power level	dB(A)	87	87	88	88
Sound pressure level 10 m	dB(A)	59	59	60	60
Length	mm	4615	4615	5615	5615
Width	mm	2226	2226	2226	2226
Height	mm	2430	2430	2440	2440
Operating weight	kg	3430	3580	4040	4100

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 1 screw compressor
- Buffer tank und pump optional (GLHM hydraulic module)
- Cooling operation up to -15 °C outside temperature

- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- With loose water filter



Refrigerant R 134a	GLAC	0751	0851	0951	0961	1021	1301
Nominal cooling capacity	kW	145	163	182	201	234	266
Power consumption	kW	52	61	69	75	85	93
Max. current consumption	A	117	127	144	144	154	201
ESEER	-	3,50	3,42	3,52	3,63	3,49	3,54
Screw compressor	Quantity	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3
Sound power level	dB(A)	94	94	94	94	96	96
Sound pressure level 10 m	dB(A)	66	66	66	66	68	68
Length	mm	3110	3110	3110	3110	4610	4610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2150	2150	2150	2150	2150
Operating weight	kg	1680	1710	1780	1860	2590	2720

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	0751	0851	0951	0961	1021	1301
Nominal cooling capacity	kW	134	151	166	197	223	238
Power consumption	kW	53	63	74	76	90	101
Max. current consumption	A	112	122	139	143	148	195
ESEER	-	3,54	3,41	3,40	3,69	3,58	3,32
Screw compressor	Quantity	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3
Sound power level	dB(A)	84	84	84	84	86	86
Sound pressure level 10 m	dB(A)	56	56	56	56	58	58
Length	mm	3110	3110	3110	3110	4610	4610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2150	2150	2150	2150	2150
Operating weight	kg	1680	1770	1840	1980	2670	2720

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 screw compressors
- Cooling operation up to -15 °C outside temperature

- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLAC	1542	1742	1942	1962	2442	2642
Nominal cooling capacity	kW	277	329	366	398	466	516
Power consumption	kW	104	121	139	154	179	193
Max. current consumption	A	227	253	287	287	360	398
ESEER	-	3,64	3,57	3,56	3,58	3,61	3,49
Screw compressor	Quantity	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6
Sound power level	dB(A)	97	97	97	97	99	99
Sound pressure level 10 m	dB(A)	69	69	69	69	71	71
Length	mm	4610	4610	4610	4610	5610	5610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2420	2420	2420	2430	2430
Operating weight	kg	3490	3680	3810	4100	5140	5340

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	1542	1742	1942	1962	2442	2642
Nominal cooling capacity	kW	252	296	334	377	443	484
Power consumption	kW	112	128	149	164	183	199
Max. current consumption	A	221	253	294	294	368	406
ESEER	-	3,50	3,47	3,46	3,62	3,69	3,52
Screw compressor	Quantity	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6
Sound power level	dB(A)	86	87	87	87	89	89
Sound pressure level 10 m	dB(A)	58	59	59	59	61	61
Length	mm	4610	4610	5610	5610	6610	6610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2420	2430	2430	2430	2430
Operating weight	kg	3580	3790	3960	4410	5730	5970

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!

Chiller Outdoor Installation

Air Cooled · Packaged
277 kW up to 516 kW

GLAC 1532 ... 2632 BA2
GLAC 1532 ... 2632 BA2.SL



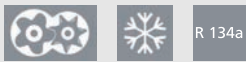
- Standard configuration with 2 screw compressors
- Standard hydraulic module GLHM with integrated buffer tank and pump
High pump heads are available
- Following pump heads for remaining piping by others
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- With loose water filter



Refrigerant R 134a	GLAC	1532	1732	1932	1952	2432	2632
Nominal cooling capacity	kW	277	329	366	398	466	516
Power consumption	kW	107	124	143	158	185	201
Max. current consumption	A	233	259	295	295	371	413
ESEER	-	3,64	3,57	3,56	3,56	3,61	3,49
Screw compressor	Quantity	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6
1 standard pump	Typ	M	M	N	N	O	P
Pump head piping	kPa	124	96	126	111	96	132
Nominal volume flow	m³/h	48	57	63	69	80	89
Sound power level	dB(A)	97	97	97	97	99	99
Sound pressure level 10 m	dB(A)	69	69	69	69	71	71
Length	mm	4610	4610	4610	4610	5610	5610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2420	2420	2420	2430	2430
Operating weight	kg	4197	4387	4507	4527	6184	6404
incl. buffer tank with	l	1000	1000	1000	1000	1500	1500

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	1532	1732	1932	1952	2432	2632
Nominal cooling capacity	kW	252	296	334	377	443	484
Power consumption	kW	116	134	155	172	201	207
Max. current consumption	A	229	264	305	309	383	421
ESEER	-	3,50	3,47	3,46	3,62	3,69	3,52
Screw compressor	Quantity	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6
1 standard pump	Typ	Q	R	R	S	S	S
Pump head piping	kPa	117	125	110	149	118	98
Nominal volume flow	m³/h	48	57	63	69	80	89
Sound power level	dB(A)	86	87	87	87	89	89
Sound pressure level 10 m	dB(A)	58	59	59	59	61	61
Length	mm	4610	4610	4610	4610	5610	5610
Width	mm	2222	2222	2222	2222	2222	2222
Height	mm	2150	2420	2420	2420	2430	2430
Operating weight	kg	4353	4569	4733	4918	6818	7074
incl. buffer tank with	l	1000	1000	1000	1000	1500	1500



R 134a

- Optimized for high efficiency with 2 screw compressors
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLAC	1502	1702	1902	1922	1972	2022	2602	2652	2702
Nominal cooling capacity	kW	294	328	364	414	439	480	529	562	598
Power consumption	kW	101	120	134	147	157	160	185	195	208
Max. current consumption	A	227	253	292	292	292	303	396	421	445
ESEER	-	3,86	3,75	3,74	3,85	3,84	3,88	3,76	3,88	3,98
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	98	98	99	99	99	99	99	99	99
Sound pressure level 10 m	dB(A)	70	70	71	71	71	71	71	71	71
Length	mm	4000	4000	4000	4900	4900	4900	4900	4900	4900
Width	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	3730	3760	3850	4740	5300	5810	5810	5910	6030

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	1502	1702	1902	1922	1972	2022	2602	2652	2702
Nominal cooling capacity	kW	275	300	337	389	413	454	486	520	554
Power consumption	kW	105	127	140	159	171	174	197	208	223
Max. current consumption	A	227	253	292	292	292	303	396	421	445
ESEER	-	3,85	3,58	3,70	3,83	3,78	3,87	3,60	3,75	3,82
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	85	85	86	86	86	87	87	87	87
Sound pressure level 10 m	dB(A)	57	57	58	58	58	59	59	59	59
Length	mm	4000	4000	4000	4900	4900	4900	4900	4900	4900
Width	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	3810	3840	3930	4870	5430	5970	5970	6070	6180

ESEER: European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data: With chilled water 12/7 °C and air intake temperature 35 °C
Sound power level: EUROVENT certified value, definition as of ISO 3744
Sound pressure level: Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for high efficiency
with 2 screw compressors
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of
W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLAC	2712	2722	3152	3602	3902	4202	4212	4222	4822
Nominal cooling capacity	kW	625	681	730	785	831	900	968	1033	1157
Power consumption	kW	217	222	260	289	302	321	352	382	384
Max. current consumption	A	451	451	515	579	623	661	678	678	760
ESEER	-	3,89	4,07	3,94	3,94	3,78	3,79	3,78	3,90	4,14
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	101	101	101	101	102	102	103	103	104
Sound pressure level 10 m	dB(A)	73	73	73	73	74	74	75	75	76
Length	mm	5800	5800	5800	5800	7000	7000	9400	9400	9400
Width	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	6190	6520	7190	7810	8220	8750	9680	9950	10360

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	2712	2722	3152	3602	3902	4202	4212	4222	4822
Nominal cooling capacity	kW	586	638	669	726	768	822	903	963	1088
Power consumption	kW	234	247	290	312	323	346	383	439	426
Max. current consumption	A	451	451	515	579	623	661	678	678	760
ESEER	-	3,84	3,96	3,70	3,73	3,61	3,56	3,73	3,81	4,08
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	88	88	88	88	89	89	90	90	91
Sound pressure level 10 m	dB(A)	60	60	60	60	61	61	62	62	63
Length	mm	5800	5800	5800	5800	7000	7000	9400	9400	9400
Width	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	6350	6680	7230	7760	8400	8930	8990	10150	10570

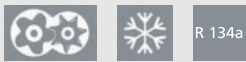
ESEER: European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data: With chilled water 12/7 °C and air intake temperature 35 °C

Sound power level: EUROVENT certified value, definition as of ISO 3744

Sound pressure level: Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for high efficiency
with 3 ... 4 screw compressors
- Cooling operation up to -15 °C outside temperature
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of
W3000 series as accessories available
- Connection to BMS via optional interface

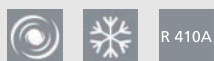


Refrigerant R 134a	GLAC	5403	5423	5703	6903	7203	7223	8404
Nominal cooling capacity	kW	1198	1317	1238	1433	1486	1609	1744
Power consumption	kW	431	486	450	520	536	593	643
Max. current consumption	A	874	874	912	1103	1144	1144	1331
ESEER	-	3,98	3,84	4,09	3,68	3,82	3,79	3,66
Screw compressor	Quantity	3	3	3	3	3	3	4
Circuits	Quantity	3	3	3	3	3	3	4
Speeds	Quantity	6	6	6	6	6	6	8
Sound power level	dB(A)	105	105	105	105	105	105	105
Sound pressure level 10 m	dB(A)	77	77	77	77	77	77	77
Length	mm	10300	10300	10300	11200	11200	11200	11200
Width	mm	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	12080	12260	12190	12680	12820	12950	16740

as above, however with noise optimized model .SL

Refrigerant R 134a	GLAC.SL	5403	5423	5703	6903	7203	7223	8404
Nominal cooling capacity	kW	1092	1230	1142	1308	1359	1512	1590
Power consumption	kW	471	551	483	557	577	653	682
Max. current consumption	A	874	886	912	1103	1144	1144	1331
ESEER	-	3,72	3,66	3,92	3,61	3,60	3,90	3,51
Screw compressor	Quantity	3	3	3	3	3	3	4
Circuits	Quantity	3	3	3	3	3	3	4
Speeds	Quantity	6	6	6	6	6	6	8
Sound power level	dB(A)	92	92	92	92	92	92	92
Sound pressure level 10 m	dB(A)	64	64	64	64	64	64	64
Length	mm	10300	10300	10300	11200	11200	11200	11200
Width	mm	2260	2260	2260	2260	2260	2260	2260
Height	mm	2430	2430	2430	2430	2430	2430	2430
Operating weight	kg	12110	12290	12220	12990	13130	13270	16660

ESEER: European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data: With chilled water 12/7 °C and air intake temperature 35 °C
Sound power level: EUROVENT certified value, definition as of ISO 3744
Sound pressure level: Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Unit with free cooling function with high energy-saving rate
- Starting from 1 °C temperature difference between outdoor air and water the unit switches into free cooling mode
- 3-way valve for optimizing of water ways and efficiency
- With 2 scroll compressors
- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



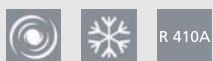
Refrigerant R 410A	GLFC	0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	37,4	44,3	53,4	58,7	76,7	90,3	99,2	113,4	129,2	143,9	161,6
Power consumption	kW	15,2	16,4	20,7	23,9	30,1	32,7	37,7	43,3	46,2	54,2	62,9
Max. current consumption	A	37	40	48	53	63	75	84	93	107	120	133
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	87	87	90	90	91	91	92	92	93	93	94
Sound pressure level 10 m	dB(A)	59	59	62	62	63	63	64	64	65	65	66
Length	mm	2200	2200	2602	2602	2602	3602	3602	3602	4602	4602	4602
Width	mm	920	920	1104	1104	1104	1104	1104	1104	1104	1104	1104
Height	mm	1720	1720	2165	2165	2165	2175	2175	2175	2192	2192	2192
Operating weight	kg	670	710	870	880	1060	1310	1340	1410	1650	1680	1740

Performance data with free cooling

Free Cooling*		0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Performance data without free cooling with 35 °C outside temperature												
Cooling capacity	kW	41	48	58	64	83	98	108	123	140	156	175
Power consumption	kW	16	17	21	24	31	34	39	45	47	56	65
Performance data with free cooling with 5 °C outside temperature												
Cooling capacity	kW	31	36	42	44	55	70	72	84	99	102	114
Part Free cooling capacity	%	77	74	73	69	66	71	67	68	70	65	65
Performance data with 100 % free cooling												
Cooling capacity	kW	41	48	58	64	83	98	108	123	140	156	175
Power consumption	kW	1,5	1,5	4,2	4,2	4,2	4,2	4,2	6,3	6,3	6,3	8,4
Air intake temperature	°C	2,0	1,6	1,3	0,5	-0,1	0,9	0,0	0,2	0,8	-0,3	-0,3
EER	-	27,0	32,0	13,8	15,0	19,8	23,4	25,7	19,5	22,3	24,8	20,9

Performance data:
 *Free cooling:
 Sound power level:
 Sound pressure level:

Performance data for normal operating mode with chilled water 12/7 °C and air intake temp. 35 °C with 30 % ethylene glycol
 Performance data for optimized conditions of Free cooling with chilled water 15/10 with 30 % ethylene glycol
 EUROVENT certified value, definition as of ISO 3744
 Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Unit with free cooling function with high energy saving rate
- Starting from 1 °C temperature difference between outdoor air and water the unit switches into free cooling mode
- 3-way valve for optimizing of water ways and efficiency
- With 2 scroll compressors

- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



as page above, however with noise optimized model .SL

Refrigerant R 410A	GLFC.SL	0152	0182	0202	0252	0302	352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	35,4	43,1	48,5	54,7	72,3	84,2	96,1	105,2	118,4	134,0	154,3
Power consumption	kW	15,3	17,1	20,4	23,3	29,9	34,2	37,7	43,6	48,3	56,1	62,4
Max. current consumption	A	34	40	48	53	63	75	84	93	107	120	133
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	77	78	78	79	80	81	81	82	83	84	85
Sound pressure level 10 m	dB(A)	49	50	50	51	52	53	53	54	55	56	57
Length	mm	2200	2602	2602	2602	3602	3602	4602	4602	4602	4602	4602
Width	mm	920	1104	1104	1104	1104	1104	1104	1104	1104	1277	1277
Height	mm	1720	2165	2165	2165	2175	2175	2192	2192	2192	2497	2497
Operating weight	kg	680	860	920	940	1240	1350	1590	1610	1690	1920	2000

Performance data free cooling

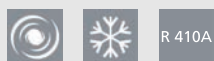
Free Cooling*		0152	0182	0202	0252	0302	352	0412	0452	0512	0552	0612
Performance data without free cooling with 35 °C outside temperature												
Cooling capacity	kW	38	47	53	59	79	92	105	114	128	145	167
Power consumption	kW	16	18	21	24	31	34	39	45	50	58	64
Performance data with free cooling bei 5 °C outside temperature												
Cooling capacity	kW	25	30	34	38	50	59	69	72	80	90	98
Part Free coolingcapacity	%	64	63	65	64	63	64	66	63	63	62	59
Performance data with 100 % free cooling												
Cooling capacity	kW	38	47	53	59	79	92	105	114	128	145	167
Power consumption	kW	0,6	1,5	1,5	1,7	1,7	2,6	2,6	2,6	3,4	3,4	4,4
Air intake temperature	°C	-0,5	-0,9	-0,5	-0,6	-0,8	-0,6	-0,2	-0,9	-0,9	-1,1	-2,1
EER	-	63,7	31,3	35,0	34,6	46,2	35,2	40,8	43,8	37,6	42,5	37,9

Performance data: Performance data for normal operating mode with chilled water 12/7 °C and air intake temp. 35 °C with 30 % ethylene glycol
 *Free cooling: Performance data for optimized conditions of Free cooling with chilled water 15/10 with 30 % ethylene glycol
 Sound power level: EUROVENT certified value, definition as of ISO 3744
 Sound pressure level: Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!

Chiller Outdoor Installation

Air Cooled · Packaged · Free Cooling
153 kW up to 326 kW

GLFC 0604 ... 1204 BD2



- Unit with free cooling function with high energy saving rate
- Starting from 1 °C temperature difference between outdoor air and water the unit switches into free cooling mode
- 3-way valve for optimizing of water ways and efficiency
- With 4 scroll compressors in 2 circuit system

- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface

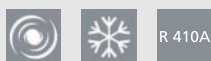


Refrigerant R 410a	GLFC	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	153,7	179,0	202,5	231,9	253,9	291,0	326,3
Power consumption	kW	60,0	66,2	77,6	84,2	94,4	107,0	124,3
Max. current consumption	A	127	151	167	187	206	232	266
Scroll compressor	Quantity	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4
Sound power level	dB(A)	93	93	94	94	94	95	96
Sound pressure level 10 m	dB(A)	65	65	66	66	66	67	68
Length	mm	4110	4110	4110	5110	5110	5110	5110
Width	mm	2220	2220	2220	2220	2220	2220	2220
Height	mm	2150	2150	2150	2180	2180	2430	2430
Operating weight	kg	2200	2330	2510	2880	2940	3260	3400

Performance data free cooling

Free Cooling*		0604	0704	0804	0904	1004	1104	1204
Performance data without free cooling with 35 °C outside temperature								
Cooling capacity	kW	167	195	221	252	275	316	354
Power consumption	kW	62	68	80	86	97	110	128
Performance data with free cooling with 5 °C outside temperature								
Cooling capacity	kW	129	135	156	193	199	227	254
Part Free coolingcapacity	%	77	69	71	77	72	72	72
Performance data with 100 % free cooling								
Cooling capacity	kW	167	195	221	252	275	316	354
Power consumption	kW	8,4	8,4	12,6	12,6	12,6	12,6	12,6
Air intake temperature	°C	2,0	0,5	0,9	1,9	1,2	1,1	1,0
EER	-	19,9	23,2	17,5	20,0	21,8	25,0	21,1

Performance data: Performance data for normal operating mode with chilled water 12/7 °C and air intake temp. 35 °C with 30 % ethylene glycol
 *Free cooling: Performance data for optimized conditions of Free cooling with chilled water 15/10 with 30 % ethylene glycol
 Sound power level: EUROVENT certified value, definition as of ISO 3744
 Sound pressure level: Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Unit with free cooling function with high energy saving rate
- Starting from 1 °C temperature difference between outdoor air and water the unit switches into free cooling mode
- 3-way valve for optimizing of water ways and efficiency
- With 4 scroll compressors in 2 circuit system

- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



as page above, however with noise optimized model .SL

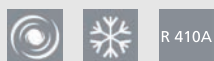
Refrigerant R 410A	GLFC.SL	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	142,5	165,4	184,8	208,8	236,1	269,7	302,5
Power consumption	kW	61,0	70,0	79,2	88,0	95,4	109,7	125,9
Max. current consumption	A	127	151	167	187	206	232	266
Scroll compressor	Quantity	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4
Sound power level	dB(A)	82	83	83	84	84	85	86
Sound pressure level 10 m	dB(A)	54	55	55	56	56	57	58
Length	mm	4110	4110	4110	5110	5110	5110	5110
Width	mm	2220	2220	2220	2220	2220	2220	2220
Height	mm	2150	2150	2150	2180	2180	2430	2430
Operating weight	kg	2280	2410	2580	2880	3040	3380	3520

Performance data with free cooling

Free Cooling*		0604	0704	0804	0904	1004	1104	1204
Performance data without free cooling with 35 °C outside temperature								
Cooling capacity	kW	155	180	201	226	255	291	326
Power consumption	kW	63	73	82	91	98	113	130
Performance data with free cooling with 5 °C outside temperature								
Cooling capacity	kW	97	112	115	140	148	166	188
Part Free cooling capacity	%	63	62	57	62	58	57	58
Performance data with 100 % free cooling								
Cooling capacity	kW	155	180	201	226	255	291	326
Power consumption	kW	3,4	5,2	5,2	5,2	5,2	5,2	6,9
Air intake temperature	°C	-1,0	-1,0	-2,5	-1,1	-2,2	-2,5	-2,4
EER	-	45,5	34,6	38,7	43,5	49,0	56,0	47,3

Performance data
*Free cooling
Sound power level
Sound pressure level

Performance data for normal operating mode with chilled water 12/7 °C and air intake temp. 35 °C with 30 % ethylene glycol
Performance data for optimized conditions of Free cooling with chilled water 15/10 with 30 % ethylene glycol
EUROVENT certified value, definition as of ISO 3744
Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for space saving configuration with 1 ... 2 scroll compressors
- Inverter scroll compressor
- Cooling operation up to -5 °C outside temperature

- Controls by others
- Necessary accessories:
Expansion valve kit GZCA...AD.R12
Communication box GZCAGFCAD.E13



Supply voltage		1 ~ 230 Volt			3 ~ 400 Volt		
Refrigerant R 410A	GCA	100-BD4	125-BD4	140-BD4	125-AD1	200-AD1	250-AD1
Nominal cooling capacity	kW	11,8	14,2	15,8	14,0	22,4	28,0
Power consumption	kW	3,5	4,3	5,0	3,5	5,6	7,4
Max. current consumption	A	27	27	27	16	17	32
ESEER	-	-	-	-	-	-	-
Scroll compressor	Quantity	1	1	1	1	1	2
Circuits	Quantity	1	1	1	1	1	1
Speeds	Quantity	24...100 %	24...100 %	24...100 %	50...100 %	50...100 %	50...100 %
Sound power level	dB(A)	66	67	69	72	78	78
Sound pressure level 10 m	dB(A)	38	39	41	44	50	50
Length	mm	900	900	900	635	930	930
Width	mm	320	320	320	765	765	765
Height	mm	1345	1345	1345	1680	1680	1680
Operating weight	kg	125	125	125	157	185	238

Accessories: overview expansion valves

GZCA ### AD.R12		063	080	100	125	140	200	250
Cooling capacity								
min.	kW	6,4	8,1	10,1	12,6	14,4	20,2	25,2
max.	kW	7,8	9,9	12,3	15,4	17,6	24,6	30,8
Evaporator volume								
min.	dm³	0,96	1,22	1,53	1,91	2,14	3,06	3,82
max.	dm³	1,22	1,53	1,91	2,14	2,97	3,8	4,78
can be combined with:								
from capacity size		100	100	100	100	125	200	200
to capacity size		125	140	200	250	250	250	250
Length	mm	401	401	401	401	401	401	401
Width	mm	215	215	215	215	215	215	215
Height	mm	78	78	78	78	78	78	78
Operating weight	kg	2,9	2,9	2,9	2,9	2,9	2,9	2,9

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With evaporation temperature 7 °C and air intake temperature 35 °C

Sound power level Definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!

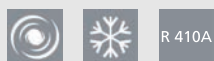


- Standard configuration with 2 ... 4 scroll compressors
2 circuit system
- Cooling operation up to -15 °C outside temperature
- Controls by others
- Recommended accessories:
Refrigeration accessories GLZCU R06
(Expansion valve, solenoid valve, filter drier and sight window,
each refrigeration circuit for installation by others)



Refrigerant R 407C	GLCU	0152	0182	0202	0252	0302	0412	0512	0524	0604
Nominal cooling capacity	kW	40,3	50,4	58,5	71,1	85,2	120,2	148,0	150,8	171,1
Power consumption	kW	14,8	18,2	20,7	25,9	30,2	40,4	48,9	56	66
Max. current consumption	A	31	41	47	60	65	88	105	115	129
ESEER	-	-	-	-	-	-	-	-	-	-
Screw compressor	Quantity	2	2	2	2	2	2	2	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	2	2	2	2	2	2	2	4	4
Sound power level	dB(A)	78	79	79	81	81	85	85	94	94
Sound pressure level 10 m	dB(A)	50	51	51	53	53	57	57	66	66
Length	mm	1695	2195	2195	2745	2745	3245	3245	3110	3110
Width	mm	1120	1120	1120	1120	1120	1120	1120	2220	2220
Height	mm	1420	1420	1420	1420	1420	1620	1620	1700	1700
Operating weight	kg	540	590	620	680	730	990	1050	1620	1700

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data With evaporation temperature 7 °C and air intake temperature 35 °C
Sound power level Definition as of ISO 3744
Sound pressure level Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized packaged configuration with 1 scroll compressor
- Cooling operation up to -10 °C air intake temperature
- Autoadaptive microprocessor control
- Connection to BMS via optional interface



Supply voltage		1 ~ 230 Volt (Series ED5)					3 ~ 400 Volt (Series ED1)					
Refrigerant R 410A	GSDC	0011	0021	0025	0031	0041	0021	0025	0031	0041	0051	0061
Nominal cooling capacity	kW	4,9	5,6	6,9	8,6	11,0	5,6	7,0	8,7	11,4	13,2	15,4
Max. external pressure	Pa	200	100	200	80	80	100	200	80	80	80	70
Power consumption	kW	2,5	2,6	3,1	4	5,2	2,6	3	3,7	5,3	5,8	6,4
Max. current consumption	A	20,3	20,3	23,3	27,3	31,3	9,8	10,3	12,3	14,3	16,1	19,3
ESEER	-	2,24	2,48	2,68	2,60	2,39	2,54	2,76	2,70	2,48	2,53	2,78
Scroll compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	1	1	1	1	1	1	1	1	1	1	1
Pump												
Pump head piping	kPa	59	57	54	54	43	57	54	54	40	33	30
Nominal volume flow	m³/h	0,8	1,0	1,2	1,5	1,9	1,0	1,2	1,5	2,0	2,3	2,7
Sound power level	dB(A)	68	68	68	68	71	68	68	68	71	71	71
Sound pressure level 10 m	dB(A)	40	40	40	40	43	40	40	40	43	43	43
Length	mm	900	900	900	900	900	900	900	900	900	900	900
Width	mm	580	580	580	580	580	580	580	580	580	580	630
Height	mm	640	640	940	940	1240	640	940	940	1240	1240	1390
Operating weight	kg	110	115	130	135	180	115	130	135	180	200	210

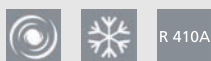
ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and air intake temperature 35 °C

Sound power level Definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Space saving optimized configuration with 1 scroll compressor
- Cooling operation up to -10 °C air intake temperature
- Microprocessor control
- Controller type: μ -chiller



Refrigerant R 407C	GDC	005	008	010
Nominal cooling capacity	kW	11,6	18,4	23,8
Max. external pressure	Pa	100	150	150
Power consumption	kW	5,3	7,8	9,9
Max. current consumption	A	17	21	26
ESEER	-	2,74	2,81	2,52
Scroll compressor	Quantity	1	1	1
Circuits	Quantity	1	1	1
Speeds	Quantity	1	1	1
Sound power level	dB(A)	63	66	67
Sound pressure level 10 m	dB(A)	35	38	39
Length	mm	856	1180	1330
Width	mm	630	630	630
Height	mm	1345	1290	1395
Operating weight	kg	166	228	266

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With evaporation temperature 7 °C and air intake temperature 35 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 scroll compressors
- Cooling operation up to -10 °C air intake temperature

- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“ (0152-0612)
W3000 „L-version“ (0604-1204)

- Master/slave operation with units
of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 410A	GLDC	0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	37,1	43,0	50,5	57,0	74,8	86,4	97,9	108,8	120,9	137,7	158,7
Max. external pressure	Pa	480	380	370	370	230	420	410	310	300	340	310
Power consumption	kW	15,7	18,3	20,6	23,2	30,4	36,8	40,7	46,8	51,5	58,3	67,2
Max. current consumption	A	38	40	48	52	66	81	89	99	108	122	143
ESEER	-	4,61	4,30	4,46	4,35	4,18	3,86	3,88	3,73	3,74	4,17	3,94
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	85	88	88	88	90	95	95	96	96	96	98
Sound pressure level 10 m	dB(A)	57	60	60	60	62	67	67	68	68	68	70
Length	mm	2200	2200	2200	2200	2200	2602	2602	2602	2602	3602	3602
Width	mm	920	920	920	920	920	1104	1104	1104	1104	1104	1104
Height	mm	1642	1642	1642	1642	1642	1927	1927	1927	1927	1927	1927
Operating weight	kg	680	680	710	730	890	1130	1180	1220	1270	1460	1460

as above, however with standard configuration with 4 scroll compressors

Refrigerant R 410A	GLDC	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	151,6	171,8	194,8	221,7	243,9	281,3	312,2
Max. external pressure	Pa	390	280	320	400	310	270	300
Power consumption	kW	62,5	73,1	83,5	89,6	101,6	115	133,2
Max. current consumption	A	139	156	181	201	220	246	282
ESEER	-	3,86	3,72	3,61	3,97	3,77	3,88	3,74
Scroll compressor	Quantity	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4
Sound power level	dB(A)	97	98	99	98	99	99	100
Sound pressure level 10 m	dB(A)	69	70	71	70	71	71	72
Length	mm	3602	3602	4602	4602	4602	4602	5602
Width	mm	1277	1277	1277	1277	1277	1277	1277
Height	mm	1900	1900	2235	2235	2235	2235	2235
Operating weight	kg	1855	1950	2320	2455	2525	2705	2895

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and air intake temperature 35 °C

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



R 407C

- Space saving optimized configuration with 1 ... 2 scroll compressors
- On site condenser by others, air or water cooled
- Microprocessor control
- Controller type: μ -chiller
- Connection to BMS via optional interface
- With loose water filter and flow switch



Refrigerant R 407C	GRC	005	008	010	012	016	020	024
Nominal cooling capacity	kW	12,1	20,0	26,8	31,2	40,0	53,7	62,4
Power consumption	kW	4,2	6,7	8,7	10,2	13,5	18,0	20,5
Max. current consumption	A	8	14	18	20	28	36	40
ESEER	-	-	-	-	-	-	-	-
Scroll compressor	Quantity	1	1	1	1	2	2	2
Circuits	Quantity	1	1	1	1	2	2	2
Speeds	Quantity	1	1	1	1	2	2	2
Sound power level	dB(A)	64	64	64	71	67	67	74
Sound pressure level 10 m	dB(A)	36	36	36	43	39	39	46
Length	mm	600	600	600	600	1200	1200	1200
Width	mm	600	600	600	600	600	600	600
Height	mm	600	600	600	600	600	600	600
Operating weight	kg	104	138	144	149	252	265	274

ESEER

European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data

With chilled water 12/7 °C and condensing temperature 45 °C, subcooling 5 K

Sound power level

Definition as of ISO 3744

Sound pressure level

Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 ... 4 scroll compressors
- On site condenser by others, air or water cooled
- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“ (0152-0612)
W3000 „L-version“ (0524-0604)
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 407C	GLRC	0152	0182	0202	0252	0302	0412	0512	0612	0524	0604
Nominal cooling capacity	kW	39,8	47,8	55,3	69	85,5	111,8	137,7	167,6	140,1	161,5
Power consumption	kW	10,8	12,7	14,5	18,1	25,9	32,4	40,2	50,5	41,8	48,8
Max. current consumption	A	29	37	42	54	57	75	93	117	100	114
ESEER	-	-	-	-	-	-	-	-	-	-	-
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2	2	2
Speeds	Quantity	2	2	2	2	2	2	2	2	4	4
Sound power level	dB(A)	72	72	72	72	73	74	75	76	75	75
Sound pressure level 10 m	dB(A)	44	44	44	44	45	46	47	48	47	47
Length	mm	800	800	800	800	1112	1112	1112	1112	2040	2040
Width	mm	600	600	600	600	755	755	755	755	755	755
Height	mm	940	940	940	940	1485	1485	1485	1485	1485	1485
Operating weight	kg	305	310	320	335	485	580	630	690	880	925

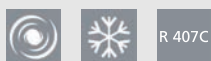
ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C und condensing temperature 45 °C

Sound power level Definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for space saving configuration with 1.. 2 scroll compressors
- Microprocessor control
- Controller type: μ -chiller
- Connection to BMS via optional interface
- With loose water filter and flow switch



Refrigerant R 407C	GWC	005	008	010	012	016	020	024
Nominal cooling capacity	kW	13,0	21,5	28,0	32,5	43,0	56,0	65,0
Power consumption	kW	3,7	6,0	7,8	9,1	12,1	16,0	18,3
Max. current consumption	A	8	14	18	20	28	36	40
ESEER	-	-	-	-	-	-	-	-
Scroll compressor	Quantity	1	1	1	1	2	2	2
Circuits	Quantity	1	1	1	1	2	2	2
Speeds	Quantity	1	1	1	1	2	2	2
Sound power level	dB(A)	64	64	64	71	67	67	74
Sound pressure level 10 m	dB(A)	36	36	36	43	39	39	46
Length	mm	600	600	600	600	1200	1200	1200
Width	mm	600	600	600	600	600	600	600
Height	mm	600	600	600	600	600	600	600
Operating weight	kg	113	150	160	167	300	320	334

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data With chilled water 12/7 °C and cooled water 30/35 °C
Sound power level EUROVENT certified value, definition as of ISO 3744
Sound pressure level Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 scroll compressors
- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“ (0152-0612)
W3000 „L-version“ (0604-1204)
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 410A	GLWC	0152	0182	0202	0252	0262	0302	0352	0412	0452	0512	0552	0612
Nominal cooling capacity	kW	43,4	50,1	58,9	66,4	72,6	86,7	101,2	114,7	128,6	143,5	164,9	186,3
Power consumption	kW	10	11,3	13	15,2	16,6	19,5	22,7	25,9	28,9	32,2	36,9	41,6
Max. current consumption	A	31	33	41	45	51	56	64	72	82	92	105	118
ESEER	-	5,81	5,98	6,01	5,69	5,59	5,66	5,80	5,71	5,80	5,78	5,93	5,79
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	73	74	74	74	75	76	77	77	78	78	79	79
Sound pressure level 10 m	dB(A)	45	46	46	46	47	48	49	49	50	50	51	51
Length	mm	1055	1055	1055	1055	1055	1222	1222	1222	1222	1222	1222	1222
Width	mm	649	649	649	649	649	873	873	873	873	873	873	873
Height	mm	1255	1255	1255	1255	1255	1496	1496	1496	1496	1496	1496	1496
Operating weight	kg	280	295	300	310	315	565	605	635	675	715	765	795

as above, however with standard configuration with 4 scroll compressors

Refrigerant R 410A	GLWC	0604	0704	0804	0904	1004	1104	1204
Nominal cooling capacity	kW	174	203	228	258	288	329	371
Power consumption	kW	39	45	52	58	64	74	84
Max. current consumption	A	112	128	144	164	183	209	236
ESEER	-	5,79	5,92	5,82	5,93	5,93	5,99	5,89
Scroll compressor	Quantity	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4
Sound power level	dB(A)	86	87	88	89	90	91	91
Sound pressure level 10 m	dB(A)	58	59	60	61	62	63	63
Length	mm	2227	2227	2227	2227	2227	2227	2227
Width	mm	877	877	877	877	877	877	877
Height	mm	1780	1780	1780	1780	1780	1780	1780
Operating weight	kg	1055	1130	1190	1270	1355	1450	1510

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data With chilled water 12/7 °C and cooled water 30/35 °C
Sound power level EUROVENT certified value, definition as of ISO 3744
Sound pressure level Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



R 134a

- Standard configuration with 1 screw compressor
- Control cabinet on the lateral side
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWC	0401	0501	0551	0651	0751	0851	0951
Nominal cooling capacity	kW	87	107	130	147	165	198	221
Power consumption	kW	20	25	28	33	37	43	50
Max. current consumption	A	55	67	80	92	105	115	132
ESEER	-	5,15	5,32	5,25	5,29	5,40	5,54	5,42
Screw compressor	Quantity	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3	3
Sound power level	dB(A)	91	92	94	94	94	94	94
Sound pressure level 10 m	dB(A)	63	64	66	66	66	66	66
Length	mm	2300	2500	2500	2500	2500	3200	3200
Width	mm	1000	1000	1000	1000	1000	1000	1000
Height	mm	1500	1500	1500	1500	1500	1500	1500
Operating weight	kg	800	840	1160	1180	1190	1270	1350

as above, however with standard configuration with 2 screw compressors

Refrigerant R 134a	GLWC	0802	1002	1102	1302	1502	1702	1902
Nominal cooling capacity	kW	178	217	251	298	340	393	447
Power consumption	kW	39	49	56	66	75	85	100
Max. current consumption	A	111	134	161	183	210	230	264
ESEER	-	5,39	5,52	5,24	5,49	5,67	5,70	5,61
Screw compressor	Quantity	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6
Sound power level	dB(A)	94	95	97	97	97	97	97
Sound pressure level 10 m	dB(A)	66	67	69	69	69	69	69
Length	mm	3200	3200	3200	3500	3500	3500	3500
Width	mm	1200	1200	1200	1200	1200	1200	1200
Height	mm	1500	1500	1500	1800	1800	1800	1800
Operating weight	kg	1470	1490	1930	2220	2260	2320	2720

ESEER

European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data

With chilled water 12/7 °C and cooled water 30/35 °C

Sound power level

EUROVENT certified value, definition as of ISO 3744

Sound pressure level

Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!

Chiller Water Cooled · Packaged · Without Heat Rejection GLWC 1001 ... 1801 - BA2

Indoor Installation 233 kW up to 1216 kW GLWC 2002 ... 4802 - BA2



- Standard configuration with 1 screw compressor
- Control cabinet on the front side
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWC	1001	1201	1301	1351	1601	1801
Nominal cooling capacity	kW	233	284	321	362	424	479
Power consumption	kW	51	60	68	74	89	102
Max. current consumption	A	132	165	184	208	235	272
ESEER	-	5,49	5,87	5,42	5,82	5,71	5,86
Screw compressor	Quantity	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3
Sound power level	dB(A)	94	97	97	97	97	97
Sound pressure level 10 m	dB(A)	66	69	69	69	69	69
Length	mm	2800	3600	3600	3600	3600	3600
Width	mm	900	900	900	900	900	900
Height	mm	1735	1750	1750	1750	1950	1950
Operating weight	kg	1610	2070	2100	2120	3160	3180

as above, however with standard configuration with 2 screw compressors

Refrigerant R 134a	GLWC	2002	2402	2602	2702	3202	3602	4202	4502	4802
Nominal cooling capacity	kW	460	559	643	733	826	953	1089	1153	1216
Power consumption	kW	99	119	137	148	176	204	233	242	251
Max. current consumption	A	263	329	367	416	470	544	620	661	702
ESEER	-	5,76	5,96	5,59	6,00	5,77	5,98	5,56	5,82	6,06
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	97	99	99	99	99	99	99	99	99
Sound pressure level 10 m	dB(A)	69	71	71	71	71	71	71	71	71
Length	mm	3600	3600	4500	4500	4500	4500	4500	4500	4500
Width	mm	1120	1150	1150	1150	1150	1150	1150	1150	1150
Height	mm	1900	1900	1900	1900	1900	2150	2150	2150	2150
Operating weight	kg	3050	3680	4000	4040	5160	5850	6270	6320	6360

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and cooled water 30/35 °C

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



R 134a

- Standard configuration with 3 screw compressors
- Control cabinet on the front side
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWC	5003	5203	5403
Nominal cooling capacity	kW	1283	1353	1403
Power consumption	kW	278	291	306
Max. current consumption	A	742	779	816
ESEER	-	5,79	5,89	5,91
Screw compressor	Quantity	3	3	3
Circuits	Quantity	3	3	3
Speeds	Quantity	6	6	6
Sound power level	dB(A)	101	101	101
Sound pressure level 10 m	dB(A)	73	73	73
Length	mm	4500	4500	4500
Width	mm	1700	1700	1700
Height	mm	2100	2100	2100
Operating weight	kg	7890	7930	7960

as above, however with standard configuration with 4 screw compressors

Refrigerant R 134a	GLWC	5414	5904	6404	6804	7204	7804	8404	9004	9604
Nominal cooling capacity	kW	1466	1560	1687	1797	1906	2043	2178	2306	2432
Power consumption	kW	297	325	354	381	408	436	465	484	503
Max. current consumption	A	832	886	940	1014	1088	1164	1240	1322	1404
ESEER	-	6,00	5,87	5,86	5,93	5,98	5,74	5,56	5,82	6,06
Screw compressor	Quantity	4	4	4	4	4	4	4	4	4
Circuits	Quantity	4	4	4	4	4	4	4	4	4
Speeds	Quantity	8	8	8	8	8	8	8	8	8
Sound power level	dB(A)	102	102	102	102	102	102	102	102	102
Sound pressure level 10 m	dB(A)	74	74	74	74	74	74	74	74	74
Length	mm	4500	4500	4500	4500	4500	4500	4500	4500	4500
Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250
Height	mm	2050	2050	2250	2250	2250	2250	2250	2250	2250
Operating weight	kg	8280	9380	11410	11460	11520	11930	12350	12430	12520

ESEER

European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data

With chilled water 12/7 °C and cooled water 30/35 °C

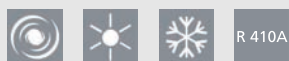
Sound power level

EUROVENT certified value, definition as of ISO 3744

Sound pressure level

Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized packaged configuration with 1 scroll compressor
- Heat pump switch using 4 way valve
- Cooling operation up to -10 °C,
Heating operation up to -7 °C outside temperature
- Autoadaptive microprocessor control
- Integrated chilled water pump



Supply voltage		1 ~ 230 Volt (Series ED5)					3 ~ 400 Volt (Series ED1)					
Refrigerant R 410A	GSAH	0011	0021	0025	0031	0041	0021	0025	0031	0041	0051	0061
Nominal heating capacity	kW	5,7	6,4	8,1	10,0	12,4	6,4	8,0	9,7	12,8	14,4	16,8
Nominal cooling capacity	kW	4,6	5,4	6,6	8,2	10,4	5,3	6,7	8,2	10,8	12,6	14,6
Power consumption*	kW	2,3	2,4	2,9	3,6	4,5	2,4	2,7	3,2	4,7	5,0	5,4
Max. current consumption	A	17,6	17,6	20,6	24,6	28,6	7,1	7,6	9,6	11,6	13,4	16,6
ESEER	-	2,96	3,19	3,16	3,01	3,01	3,21	3,41	3,17	3,13	3,08	3,33
Scroll compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	1	1	1	1	1	1	1	1	1	1	1
Pump												
Pump head piping	kPa	59	57	54	54	43	57	54	54	40	33	30
Nominal volume flow	m³/h	0,8	1,0	1,2	1,5	1,9	1,0	1,2	1,5	2,0	2,3	2,7
Sound power level	dB(A)	65	66	66	66	69	66	66	66	69	69	69
Sound pressure level 10 m	dB(A)	37	38	38	38	41	38	38	38	41	41	41
Length	mm	900	900	900	900	900	900	900	900	900	900	900
Width	mm	370	370	370	370	370	370	370	370	370	370	420
Height	mm	640	640	940	940	1240	640	940	940	1240	1240	1390
Operating weight	kg	90	95	110	115	140	95	110	115	140	160	170

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data

With warm water 40/45 °C and air intake temperature 7 °C

With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode

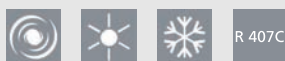
Sound power level

EUROVENT certified value, definition as of ISO 3744

Sound pressure level

Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for space saving configuration with 1 ... 2 scroll compressors
- Heat pump switch using 4 way valve
- Cooling operation up to -15 °C,
Heating operation up to -10 °C outside temperature
- Microprocessor control
- Controller type: µ-chiller
- Connection to BMS via optional interface
- With loose water filter and mounted flow switch



GAHN	without pump – without buffer tank
GAHP	with pump
GAHB	with pump – with buffer tank

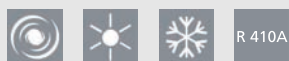
Refrigerant R 407C	GAH_	005	008	010	012	016	020	024
Nominal heating capacity	kW	11,9	18,5	24,0	27,0	37,0	46,0	54,0
Nominal cooling capacity	kW	9,1	17,1	21,0	25,0	34,2	40,0	50,0
Power consumption*	kW	4,6	7,1	9,1	10,8	14,2	17,4	21,6
Max. current consumption	A	11	17	20	27	34	40	54
ESEER	-	-	-	-	-	-	-	-
Scroll compressor	Quantity	1	1	1	1	2	2	2
Circuits	Quantity	1	1	1	1	2	2	2
Speeds	Quantity	1	1	1	1	2	2	2
Sound power level	dB(A)	67	76	78	78	79	81	81
Sound pressure level 10 m	dB(A)	39	48	50	50	51	53	53
Length	mm	1290	1290	1290	1290	2580	2580	2580
Width	mm	734	734	734	734	734	734	734
Height	mm	1230	1230	1450	1450	1321	1541	1541
GAHN without pump – without buffer tank								
Operating weight	kg	165	230	261	261	461	522	522
GAHP with pump								
Operating weight	kg	184	244	275	275	482	544	544
GAHB with pump – with buffer tank								
Operating weight	kg	252	312	343	343	550	612	612

ESEER	European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data	With warm water 40/45 °C and air intake temperature 7 °C With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode
Sound power level	EUROVENT certified value, definition as of ISO 3744
Sound pressure level	Hemispherical radiation – 10 m distance – without reflection For project related sound data calculations use the obligatory sound power level (see also page 45)!

Heat pumps Outdoor Installation

Air Cooled · Packaged
43 kW up to 173 kW

GLAH 0152 ... 0612 BD1
GLAH 0152 ... 0512 BD1.LT



- Standard configuration with 2 scroll compressors
- Heat pump switch using 4 way valve
- Buffer tank und pump optional (hydraulic module GLHM)
- Cooling operation up to -15 °C,
Heating operation up to -5 °C outside temperature
Heating operation up to -10 °C outside temperature bei configuration -LT
- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- Mounted with water filter



Refrigerant R 410A	GLAH	0152	0182	0202	0252	0302	0352	0412	0452	0512	0552	0612
Nominal heating capacity	kW	43	48	54	65	81	93	105	121	136	157	173
Nominal cooling capacity	kW	38	43	48	58	73	83	94	107	120	138	151
Power consumption*	kW	14	16	18	21	26	30	34	38	42	48	54
Max. current consumption	A	35	37	45	52	62	71	81	91	103	116	129
ESEER	-	4,04	4,08	4,03	4,00	3,95	4,06	3,92	4,09	4,04	4,18	3,99
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	84	84	84	84	85	86	86	86	87	87	87
Sound pressure level 10 m	dB(A)	56	56	56	56	57	58	58	58	59	59	59
Length	mm	1695	1695	1695	2195	2195	2195	2745	2745	3245	3245	3245
Width	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
Height	mm	1420	1420	1420	1420	1420	1420	1420	1420	1620	1620	1620
Operating weight	kg	450	460	470	560	690	750	840	910	1030	1090	1100

as above, however temperature/noise optimized

Cooling operation up to -15 °C, heating operation up to -10 °C outside temperature with LT model

Refrigerant R 410A	GLAH.LT	0152	0182	0202	0252	0302	0352	0412	0452	0512
Nominal heating capacity	kW	42	48	54	64	84	96	109	121	137
Nominal cooling capacity	kW	36	42	48	55	73	84	94	103	119
Power consumption*	kW	14	15	18	21	26	30	34	38	42
Max. current consumption	A	33	36	45	49	61	73	81	91	103
ESEER	-	4,09	4,16	4,03	4,02	4,08	3,96	3,94	3,93	3,99
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	79	79	80	80	81	83	83	83	84
Sound pressure level 10 m	dB(A)	51	51	52	52	53	55	55	55	56
Length	mm	1695	1695	2195	2195	2795	2795	2745	2745	3245
Width	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120
Height	mm	1420	1420	1420	1420	1420	1620	1620	1620	1620
Operating weight	kg	450	480	520	560	770	840	910	950	1070

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With warm water 40/45 °C and air intake temperature 7 °C

With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 4 scroll compressors
- Heat pump switch using 4 way valve
- Buffer tank und pump optional (hydraulic module GLHM)
- Cooling operation up to -15 °C,
Heating operation up to -5 °C outside temperature
Heating operation up to -10 °C outside temperature bei configuration -LT
- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface
- Mounted with water filter



Refrigerant R 410A	GLAH	0524	0604	0704	0804	0904	1004	1104	1204
Nominal heating capacity	kW	145	167	185	209	234	266	306	344
Nominal cooling capacity	kW	129	147	166	189	211	240	277	311
Power consumption*	kW	53	58	65	72	80	92	104	116
Max. current consumption	A	116	127	143	160	179	206	232	258
ESEER	-	3,39	3,57	3,64	3,80	3,88	3,68	3,84	3,93
Scroll compressor	Quantity	4	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4	4
Sound power level	dB(A)	92	92	92	92	93	94	95	95
Sound pressure level 10 m	dB(A)	64	64	64	64	65	66	67	67
Length	mm	3110	3110	3110	3110	4110	4110	4110	4110
Width	mm	2220	2220	2220	2220	2220	2220	2220	2220
Height	mm	1700	1700	2150	2150	2150	2150	2150	2150
Operating weight	kg	1570	1750	1900	2080	2270	2410	2540	2700

as above, however temperature/noise optimized

Cooling operation up to -15 °C, heating operation up to -10 °C outside temperature with LT model

Refrigerant R 410A	GLAH.LT	0524	0604	0704	0804	0904	1004	1104	1204
Nominal heating capacity	kW	150	166	191	220	244	274	315	356
Nominal cooling capacity	kW	134	149	172	198	219	248	287	322
Power consumption*	kW	53	58	65	77	84	92	104	121
Max. current consumption	A	116	127	143	167	187	206	232	266
ESEER	-	3,53	3,64	3,77	3,57	3,60	3,82	3,98	3,80
Scroll compressor	Quantity	4	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4	4
Sound power level	dB(A)	92	92	92	94	94	94	96	97
Sound pressure level 10 m	dB(A)	64	64	64	66	66	66	68	69
Length	mm	3110	3110	3110	4110	4110	4110	5110	5110
Width	mm	2220	2220	2220	2220	2220	2220	2220	2220
Height	mm	2150	2150	2150	2150	2150	2150	2150	2150
Operating weight	kg	1700	1840	1980	2310	2370	2520	2800	2940

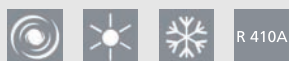
ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With warm water 40/45 °C and air intake temperature 7 °C
With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Optimized for high efficiency with 5 ... 6 scroll compressors
- Heat pump switch using 4 way valve
- Cooling operation up to -15 °C
Heating operation up to -5 °C outside temperature
Heating operation up to -10 °C outside temperature bei configuration .LT
- Autoadaptive microprocessor control
- Controller type: W3000 „L-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 410A	GLAH	1355	1506	1656	1806
Nominal heating capacity	kW	380	402	469	517
Nominal cooling capacity	kW	343	364	425	466
Power consumption*	kW	127,7	135,2	157,6	175,7
Max. current consumption	A	288	308	355	394
ESEER	-	3,67	3,70	3,64	3,71
Scroll compressor	Quantity	5	6	6	6
Circuits	Quantity	2	2	2	2
Speeds	Quantity	5	6	6	6
Sound power level	dB(A)	95	95	96	96
Sound pressure level 10 m	dB(A)	66	66	67	67
Length	mm	4615	4615	5615	5615
Width	mm	2226	2226	2226	2226
Height	mm	2430	2430	2440	2440
Operating weight	kg	3380	3550	4020	4090

as above, however temperature/noise optimized

Cooling operation up to -15 °C, heating operation up to -10 °C outside temperature with LT model

Refrigerant R 410A	GLAH.LT	1355	1506	1656	1806
Nominal heating capacity	kW	367	388	450	495
Nominal cooling capacity	kW	330	348	404	441
Power consumption*	kW	127,5	139,0	158,2	185,1
Max. current consumption	A	296	316	363	403
ESEER	-	3,92	3,95	3,99	3,91
Scroll compressor	Quantity	5	6	6	6
Circuits	Quantity	2	2	2	2
Speeds	Quantity	5	6	6	6
Sound power level	dB(A)	88	88	89	89
Sound pressure level 10 m	dB(A)	59	59	60	60
Length	mm	5615	5615	6615	6615
Width	mm	2226	2226	2226	2226
Height	mm	2440	2440	2440	2440
Operating weight	kg	4010	4180	4620	4710

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data With warm water 40/45 °C and air intake temperature 7 °C
With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode
Sound power level EUROVENT certified value, definition as of ISO 3744
Sound pressure level Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!

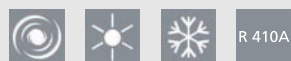


- Optimized packaged configuration with 1 scroll compressor
- Heat pump switch using 4 way valve
- Cooling operation up to -10 °C,
Heating operation up to -7 °C outside temperature
- Autoadaptive microprocessor control
- Integrated chilled water pump



Supply voltage		1 ~ 230 Volt (Series ED5)					3 ~ 400 Volt (Series ED1)					
Refrigerant R 410A	GSDH	0011	0021	0025	0031	0041	0021	0025	0031	0041	0051	0061
Nominal heating capacity	kW	5,7	6,4	8,1	10,0	12,4	6,4	8,0	9,7	12,8	14,4	16,8
Nominal cooling capacity	kW	4,6	5,4	6,6	8,2	10,4	5,3	6,7	8,2	10,8	12,6	14,6
Max. external pressure	Pa	200	100	200	80	80	100	200	80	80	80	70
Power consumption*	kW	2,8	2,9	3,5	4,2	5,7	2,9	3,3	3,8	5,9	6,1	6,5
Max. current consumption	A	20,3	20,3	23,3	27,3	31,3	9,8	10,3	12,3	14,3	16,1	19,3
ESEER	-	2,11	2,37	2,53	2,48	2,27	2,44	2,62	2,58	2,36	2,40	2,62
Scroll compressor	Quantity	1	1	1	1	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	1	1	1	1	1	1	1	1	1	1	1
Pump												
Pump head piping	kPa	59	57	54	54	43	57	54	54	40	33	30
Nominal volume flow	m³/h	0,8	1,0	1,2	1,5	1,9	1,0	1,2	1,5	2,0	2,3	2,7
Sound power level	dB(A)	68	68	68	68	71	68	68	68	71	71	71
Sound pressure level 10 m	dB(A)	40	40	40	40	43	40	40	40	43	43	43
Length	mm	900	900	900	900	900	900	900	900	900	900	900
Width	mm	580	580	580	580	580	580	580	580	580	580	630
Height	mm	640	640	940	940	1240	640	940	940	1240	1240	1390
Operating weight	kg	110	115	130	135	180	115	135	135	180	200	210

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
Performance data With warm water 40/45 °C and air intake temperature 7 °C;
With chilled water 12/7 °C and air intake temperature 35 °C; * in heating mode
Sound power level EUROVENT certified value, definition as of ISO 3744
Sound pressure level Hemispherical radiation – 10 m distance – without reflection
For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 2 scroll compressors
- Heat pump switch using 4 way valve
- Autoadaptive microprocessor control
- Controller type: W3000 „B-version“ (0152-0612)
W3000 „L-version“ (0604-1204)
- Master/slave operation with units of
W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 410A	GLWH	0152	0182	0202	0252	0262	0302	0352	0412	0452	0512	0552	0612
Nominal heating capacity	kW	50,5	58,2	68,0	77,0	85,0	100,9	116,9	132,1	148,3	165,4	190,0	214,7
Nominal cooling capacity	kW	38,4	44,7	52,3	59,0	65,2	77,7	90,2	101,8	114,5	127,9	146,9	166,0
Power consumption	kW	12,9	14,3	16,7	19,2	21,1	24,7	28,4	32,2	36,0	40,0	45,9	51,5
Max. current consumption	A	31	33	41	45	51	56	64	72	82	92	105	118
ESEER	-	5,67	5,86	5,88	5,59	5,52	5,54	5,72	5,61	5,69	5,66	5,80	5,70
Scroll compressor	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Circuits	Quantity	1	1	1	1	1	1	1	1	1	1	1	1
Speeds	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Sound power level	dB(A)	73	74	74	74	75	76	77	77	78	78	79	79
Sound pressure level 10 m	dB(A)	45	46	46	46	47	48	49	49	50	50	51	51
Length	mm	1055	1055	1055	1055	1055	1222	1222	1222	1222	1222	1222	1222
Width	mm	649	649	649	649	649	873	873	873	873	873	873	873
Height	mm	1255	1255	1255	1255	1255	1496	1496	1496	1496	1496	1496	1496
Operating weight	kg	290	305	315	325	330	585	620	660	685	740	790	830

as above, however with standard configuration with 4 scroll compressors

Refrigerant R 410A	GLWH	0604	0704	0804	0904	1004	1104	1204
Nominal heating capacity	kW	202	234	263	297	332	379	428
Nominal cooling capacity	kW	156	181	203	229	257	293	331
Power consumption	kW	49	57	64	72	80	92	104
Max. current consumption	A	112	128	144	164	183	209	236
ESEER	-	5,69	5,81	5,72	5,82	5,81	5,98	5,78
Scroll compressor	Quantity	4	4	4	4	4	4	4
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	4	4	4	4	4	4	4
Sound power level	dB(A)	86	87	88	89	90	91	91
Sound pressure level 10 m	dB(A)	58	59	60	61	62	63	63
Length	mm	2227	2227	2227	2227	2227	2227	2227
Width	mm	877	877	877	877	877	877	877
Height	mm	1780	1780	1780	1780	1780	1780	1780
Operating weight	kg	1090	1165	1245	1290	1395	1500	1585

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and warm water 40/45 °C

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 1 screw compressor
- Control cabinet on the lateral side
- Selectable control of
 - Condenser water temperature (warm water)
 - Evaporator water temperature (chilled water)
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWH	0401	0501	0551	0651	0751	0851	0951
Nominal heating capacity	kW	100	123	148	168	189	223	252
Nominal cooling capacity	kW	77	95	116	131	147	175	197
Power consumption	kW	23	29	34	39	44	51	59
Max. current consumption	A	55	67	80	92	105	115	132
ESEER	-	5,15	5,32	5,25	5,29	5,40	5,54	5,42
Screw compressor	Quantity	1	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3	3
Sound power level	dB(A)	91	92	94	94	94	94	94
Sound pressure level 10 m	dB(A)	63	64	66	66	66	66	66
Length	mm	2300	2500	2500	2500	2500	3200	3200
Width	mm	1000	1000	1000	1000	1000	1000	1000
Height	mm	1500	1500	1500	1500	1500	1500	1500
Operating weight	kg	800	840	1160	1180	1190	1270	1350

as above, however with standard configuration with 2 screw compressors

Refrigerant R 134a	GLWH	0802	1002	1102	1302	1502	1702	1902
Nominal heating capacity	kW	202	249	287	339	387	445	509
Nominal cooling capacity	kW	158	194	223	265	304	348	397
Power consumption	kW	47	58	67	78	88	102	117
Max. current consumption	A	111	134	161	183	210	230	264
ESEER	-	5,39	5,52	5,24	5,49	5,67	5,70	5,61
Screw compressor	Quantity	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6
Sound power level	dB(A)	94	95	97	97	97	97	97
Sound pressure level 10 m	dB(A)	66	67	69	69	69	69	69
Length	mm	3200	3200	3200	3500	3500	3500	3500
Width	mm	1200	1200	1200	1200	1200	1200	1200
Height	mm	1500	1500	1500	1800	1800	1800	1800
Operating weight	kg	1470	1490	1930	2220	2260	2320	2720

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and cooled water 40/45 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 1 screw compressor
- Control cabinet on the front side
- Selectable control of
 - Condenser water temperature (warm water)
 - Evaporator water temperature (chilled water)
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWH	1001	1201	1301	1351	1601	1801
Nominal heating capacity	kW	274	323	362	408	477	547
Nominal cooling capacity	kW	215	254	286	324	377	430
Power consumption	kW	62	73	80	89	105	124
Max. current consumption	A	132	165	184	208	235	272
ESEER	-	5,49	5,87	5,42	5,82	5,71	5,86
Screw compressor	Quantity	1	1	1	1	1	1
Circuits	Quantity	1	1	1	1	1	1
Speeds	Quantity	3	3	3	3	3	3
Sound power level	dB(A)	94	97	97	97	97	97
Sound pressure level 10 m	dB(A)	66	69	69	69	69	69
Length	mm	2800	3600	3600	3600	3600	3600
Width	mm	900	900	900	900	900	900
Height	mm	1735	1750	1750	1750	1950	1950
Operating weight	kg	1610	2070	2100	2120	3160	3180

as above, however with standard configuration with 2 screw compressors

Refrigerant R 134a	GLWH	2002	2402	2602	2702	3202	3602	4202	4502	4802
Nominal heating capacity	kW	519	639	726	824	935	1090	1231	1303	1374
Nominal cooling capacity	kW	409	502	573	655	736	855	971	1030	1089
Power consumption	kW	116	145	161	178	210	249	274	288	302
Max. current consumption	A	263	329	367	416	470	544	620	661	702
ESEER	-	5,76	5,96	5,59	6,00	5,77	5,98	5,56	5,82	6,06
Screw compressor	Quantity	2	2	2	2	2	2	2	2	2
Circuits	Quantity	2	2	2	2	2	2	2	2	2
Speeds	Quantity	6	6	6	6	6	6	6	6	6
Sound power level	dB(A)	97	99	99	99	99	99	99	99	99
Sound pressure level 10 m	dB(A)	69	71	71	71	71	71	71	71	71
Length	mm	3600	3600	4500	4500	4500	4500	4500	4500	4500
Width	mm	1120	1150	1150	1150	1150	1150	1150	1150	1150
Height	mm	1900	1900	1900	1900	1900	2150	2150	2150	2150
Operating weight	kg	3050	3680	4000	4040	5160	5850	6270	6320	6360

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006

Performance data With chilled water 12/7 °C and cooled water 40/45 °C

Sound power level EUROVENT certified value, definition as of ISO 3744

Sound pressure level Hemispherical radiation – 10 m distance – without reflection

For project related sound data calculations use the obligatory sound power level (see also page 45)!



- Standard configuration with 3 screw compressors
- Control cabinet on the front side
- Selectable control of
 - Condenser water temperature (warm water)
 - Evaporator water temperature (chilled water)
- Autoadaptive microprocessor control
- Controller type: W3000 „XL-version“
- Master/slave operation with units of W3000 series as accessories available
- Connection to BMS via optional interface



Refrigerant R 134a	GLWH	5003	5203	5403
Nominal heating capacity	kW	1463	1545	1613
Nominal cooling capacity	kW	1147	1212	1260
Power consumption	kW	333	352	373
Max. current consumption	A	742	779	816
ESEER	-	5,79	5,89	5,91
Screw compressor	Quantity	3	3	3
Circuits	Quantity	3	3	3
Speeds	Quantity	6	6	6
Sound power level	dB(A)	101	101	101
Sound pressure level 10 m	dB(A)	73	73	73
Length	mm	4500	4500	4500
Width	mm	1700	1700	1700
Height	mm	2100	2100	2100
Operating weight	kg	7890	7930	7960

as above, however with standard configuration with 4 screw compressors

Refrigerant R 134a	GLWH	5414	5904	6404	6804	7204	7804	8404	9004	9604
Nominal heating capacity	kW	1647	1759	1899	2041	2181	2322	2462	2606	2749
Nominal cooling capacity	kW	1310	1392	1501	1606	1710	1827	1942	2060	2749
Power consumption	kW	356	387	421	459	467	522	548	575	603
Max. current consumption	A	832	886	940	1014	1088	1164	1240	1322	1404
ESEER	-	6,00	5,87	5,86	5,93	5,98	5,74	5,56	5,82	6,06
Screw compressor	Quantity	4	4	4	4	4	4	4	4	4
Circuits	Quantity	4	4	4	4	4	4	4	4	4
Speeds	Quantity	8	8	8	8	8	8	8	8	8
Sound power level	dB(A)	102	102	102	102	102	102	102	102	102
Sound pressure level 10 m	dB(A)	74	74	74	74	74	74	74	74	74
Length	mm	4500	4500	4500	4500	4500	4500	4500	4500	4500
Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250
Height	mm	2050	2050	2250	2250	2250	2250	2250	2250	2250
Operating weight	kg	8280	9380	11410	11460	11520	11930	12350	12430	12520

ESEER European Seasonal Energy Efficiency according to Eurovent standard 6-C003-2006
 Performance data With chilled water 12/7 °C and cooled water 40/45 °C
 Sound power level EUROVENT certified value, definition as of ISO 3744
 Sound pressure level Hemispherical radiation – 10 m distance – without reflection
 For project related sound data calculations use the obligatory sound power level (see also page 45)!

Controller Features of G and GL Chiller Series

μ-chiller

Following controller functions are available as standard:

- Remote On/Off contact, collective fault messaging
- Remote switch between heating/cooling mode
- General status/operating messaging
- Status messaging of individual compressors
- Chilled water pump control



Besides, following controller functions are additional and are available as option:

- Soft start of compressors
- Connection to Building Management System
- Connection for remote control

W3000 „B-version“

Following controller functions are available as standard:

- Alphanumerical display
- Selection of 3 languages
- Remote On/Off contact
- Collective fault messaging
- Remote switch between heating/cooling mode
- Chilled water pump control
- P-I temperature control at inlet and outlet
- Retrieving last 200 alarm messages with history



Besides, following controller functions are additional and are available as option:

- Setpoint shifting via 4-20 mA signal
- Load shedding contact
- Error switch off by others
- Connection for remote control
- Soft start of compressors
- Status messaging of compressors
- Connection to Building Management System
- Master/slave operation with up to 5 units

W3000 „L-version“

Following controller functions are available as standard:

As with W3000 B-version with additional:

- Setpoint shifting via 4-20 mA signal
- Selection of 7 languages
- Error switch off by others



Besides, following controller functions are additional and are available as option:

As with W3000 B-version with additional:

- 2-nd setpoint

W3000 „XL-version“

Following controller functions are available as standard:

As with W3000 B-version with additional:

- Continuous capacity control of screw compressors
- Selection of 7 languages
- Without chilled water pump control



Besides, following controller functions are additional and are available as option:

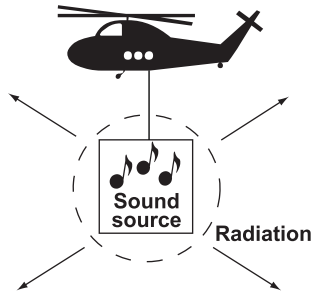
As with W3000 B-version with additional:

- 2-nd setpoint
- Chilled water pump control

Sphere

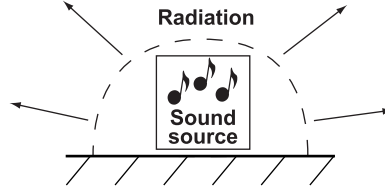
Radiation factor 1

Only theoretical value



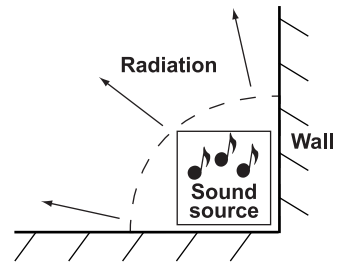
Hemisphere

Radiation factor 2



Quarter sphere

Radiation factor 4



Example:

79 dB(A) Sound power level

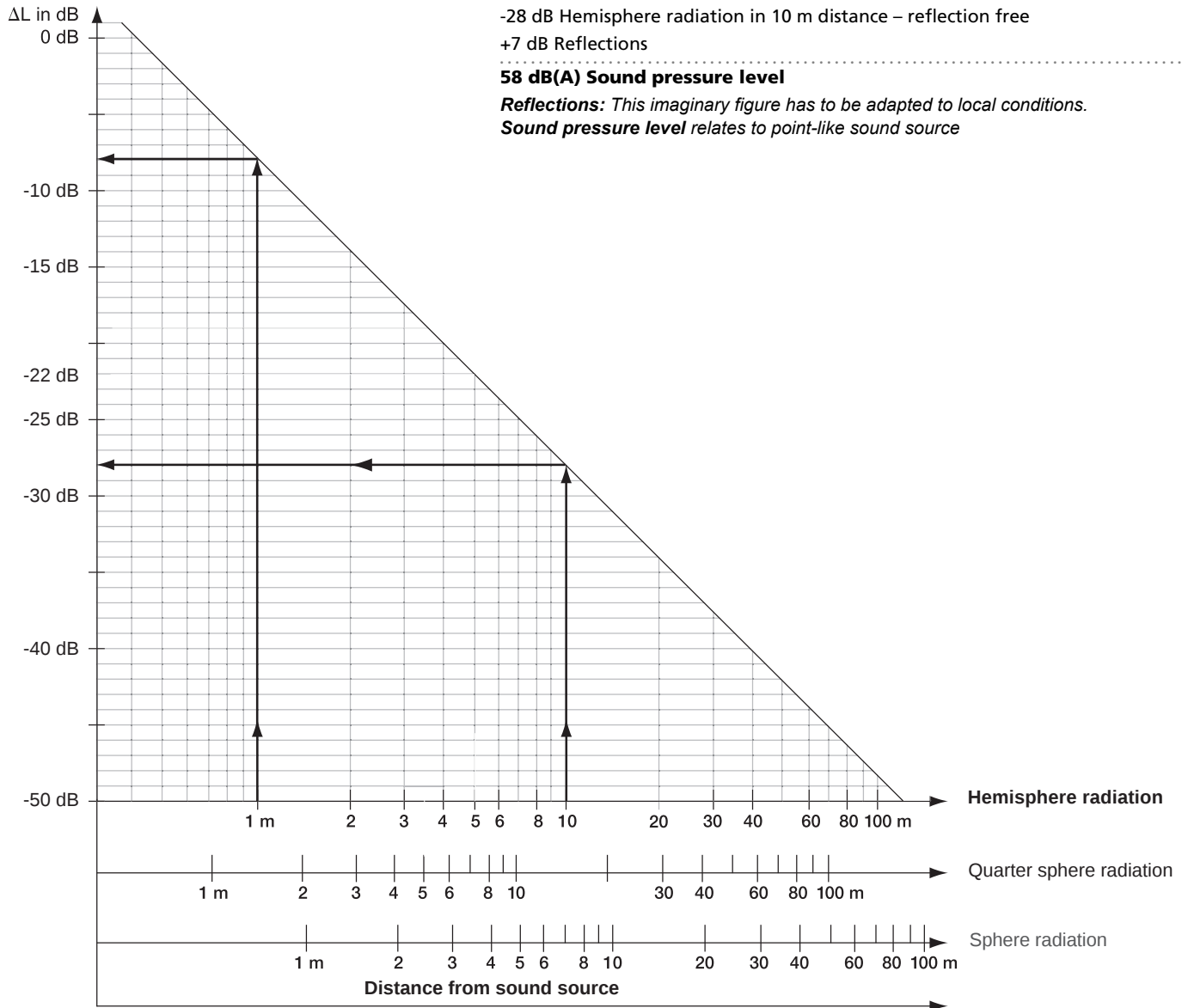
-28 dB Hemisphere radiation in 10 m distance – reflection free

+7 dB Reflections

58 dB(A) Sound pressure level

Reflections: This imaginary figure has to be adapted to local conditions.

Sound pressure level relates to point-like sound source



79 dB(A) Sound power level: Can be measured but not perceived. Like heating capacity of a heating element.

58 dB(A) Sound pressure level: Can be measured and perceived. Like room temperature increase by heating element.

Customer proximity, sales structures

Reachable always and everywhere!

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