

Инверторная конденсаторная установка СИ-В

Технические характеристики

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Standard configuration

- › Power supply 380-400/3N~/50
- › Pressure controlled fan speed controller
- › Crankcase heater
- › Oil separator
- › Power control box with magnetothermal switches + thermal protection + electronic controller
- › Inverter
- › Oil separator + condenser fans speed regulator with pressure probe
- › Liquid receiver with safety valve + liquid line
- › HP + LP pressure switches, Crankcase heater
- › Antivibration eliminators on suction and discharge line
- › Condenser with 6 poles axial fans
- › Condensing unit under nitrogen pressure
- › Muffler on discharge line
- › Residential Soundproofing



Soundproofed compartments accommodate the compressor capacity-controlled by inverter

The CI-B series models are compact air-cooled condensing units with variable cooling capacity, suitable for outdoor installations, silenced for residential environments and ideal for commercial and industrial applications.

The series, equipped with Bitzer compressor, is divided into 2 product lines. One line with working temperatures from +5°C to -20° and one line with working temperatures from -15°C to -40°C.

The capacity range covered and the way they are designed and built make the compact inverter units extremely versatile components of an efficient refrigerating system suitable to meet wide range of Customers' requirements.

All the units are assembled starting from a solid steel sheet body structure.

The particular internal configuration of these condensing units allows to reduce the noise level of the system: soundproofed compartments accommodate the compressor that, together with the large surface condensers and low rpm 6-pole axial fans, allow to achieve efficient and silenced performance especially when low noise level is requested.

The condensing unit is equipped with filter dryer and sight glass, to guarantee controlled and optimized operation.

The unit, supplied with pressurized nitrogen, is complete with all the refrigerating system components pre-installed together with the internal connections pipes, making the system ready for a quick installation.

The liquid receiver is complete with taps and shut-off valve for regulation and control of the inlet and outlet liquid level. These units are equipped with adjustable minimum and maximum

pressure switches with automatic reset.

The significant feature of the CI-B range is the presence of the inverter which controls the compressor and precisely modulates the delivered cooling capacity during operation.

The units are suitable for outdoor installation on the floor, but it is also possible to accommodate them on the ceiling according to the structural needs of the user.

The CI-B units are equipped with oil separator and oil receiver with electronic equalizer.

The units are equipped with crankcase heater that makes them suitable for outdoor installation in different climatic conditions. An electronic control unit manages the capacity delivered by the compressor.

Together with a compressor emergency management system and a switchboard equipped with protection magnetothermal switches, all these features complete the profile of an efficient and safe machine.

F-Gas

The new regulation on fluorinated gases entered into force on 1st January 2015; foresees a gradual reduction in HFCs between 2015 and 2030 based on a quota system and bans refrigerants with a high global warming potential (GWP) in some sectors.

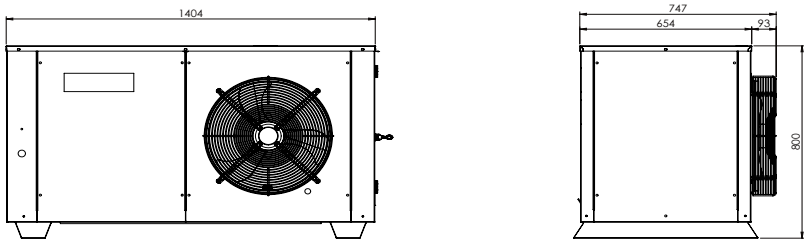
As of 1st January 2020, F-Gases with a GWP value greater than 2.500 are banned for maintenance purposes if the refrigeration load exceeds 40 tonnes of CO2 equivalent.



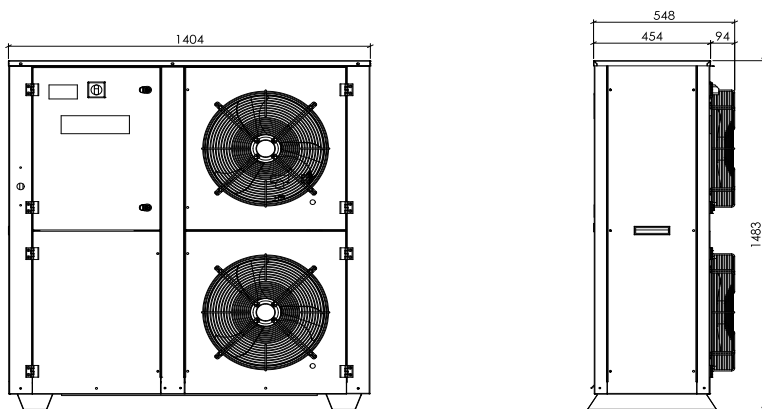
Inverter compressor continuously adjusts compressor speed to actual demand. Fewer power-consuming starts and stops result in decreased energy consumption and more stable temperatures.

Dimensions

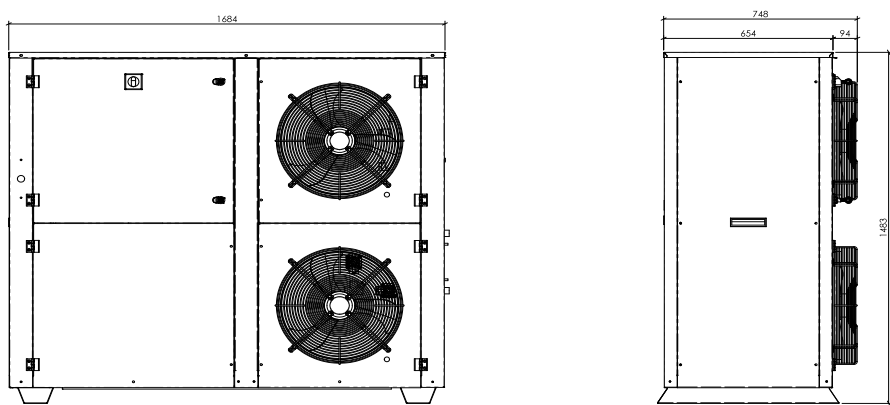
Constructive frame 2



Constructive frame 3



Constructive frame 4



GCI, Medium temperature units technical data

General data

Units		GCI2010B3B1D4R	GCI2020B3B1D4R	GCI2022B3B1D4R
Compressor				
Frame type		2	2	2
Power supply	V/ph~/Hz	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Max absorbed current (70Hz)	A	2,7	3,6	4,1
Max absorbed power (70Hz)	kW	1,3	1,8	2,1
Working temperature	°C	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Condenser				
Type		Semihermetic	Semihermetic	Semihermetic
Brand		Bitzer	Bitzer	Bitzer
Model		2HES-1Y	2FES-2Y	2EES-2Y
Refrigerant		R134a	R134a	R134a
Connections				
Fin pitch	mm	2,1	2,1	2,1
Fans nr.		1	1	1
Fans ø	mm	450	450	450
Model	ph/p	1ph-6P	1ph-6P	1ph-6P
Air flow	m³/h	2943	2943	2943
Noise pressure level at 10 m (50Hz)	dB(A)	33	34	35
Packaging				
Suction	Ø mm	16	18	22
Liquid	Ø mm	10	10	10
Standard liquid receiver	lt	5,7	5,7	5,7
PED category		1	1	1
Unit net weight	kg	160	170	193
Type				
Type		Pallet + Carton	Pallet + Carton	Pallet + Carton
Dimension (Length x Width x Height)	m	1,53 x 0,9 x 1	1,53 x 0,9 x 1	1,53 x 0,9 x 1
Volume	m³	1,4	1,4	1,4
Weight	kg	28	28	28

Units		GCI2030B3B1D4R	GCI2040B3B1D4R	GCI3050B3B1D4R
Frame type		2	2	3
Power supply	V/ph~/Hz	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Max absorbed current (70Hz)	A	5,6	7,2	8,4
Max absorbed power (70Hz)	kW	3,0	4,0	4,7
Working temperature	°C	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Compressor				
Type		Semihermetic	Semihermetic	Semihermetic
Brand		Bitzer	Bitzer	Bitzer
Model		2CES-3Y	4EES-4Y	4DES-5Y
Refrigerant		R134a	R134a	R134a
Condenser				
Fin pitch	mm	2,1	2,1	2,1
Fans nr.		1	1	2
Fans ø	mm	450	450	450
Model	ph/p	1ph-6P	1ph-6P	1ph-6P
Air flow	m³/h	2701	2701	5850
Noise pressure level at 10 m (50Hz)	dB(A)	35	39	40
Connections				
Suction	Ø mm	22	28	28
Liquid	Ø mm	10	10	12
Standard liquid receiver	lt	5,7	10	10
PED category		1	1	2
Unit net weight	kg	195	210	225
Packaging				
Type		Pallet + Carton	Pallet + Carton	Crate
Dimension (Length x Width x Height)	m	1,53 x 0,9 x 1	1,53 x 0,9 x 1	1,63 x 0,85 x 1,74
Volume	m³	1,4	1,4	2,4
Weight	kg	28	28	44

Units		GCI3060B3B1D4R	GCI4120B3B1D4R
Frame type		3	4
Power supply	V/ph~/Hz	380-400/3N~/50	380-400/3N~/50
Max absorbed current (70Hz)	A	10,3	13,3
Max absorbed power (70Hz)	kW	5,8	7,8
Working temperature	°C	+5 ÷ -20	+5 ÷ -20
Compressor			
Type		Semihermetic	Semihermetic
Brand		Bitzer	Bitzer
Model		4CES-6Y	4PES-12Y
Refrigerant		R134a	R134a
Condenser			
Fin pitch	mm	2,1	2,1
Fans nr.		2	2
Fans ø	mm	450	450
Model	ph/p	1ph-6P	1ph-6P
Air flow	m³/h	5850	5366
Noise pressure level at 10 m (50Hz)	dB(A)	41	42
Connections			
Suction	Ø mm	35	35
Liquid	Ø mm	12	12
Standard liquid receiver	lt	10	21
PED category		2	2
Unit net weight	kg	230	300
Packaging			
Type		Crate	Crate
Dimension (Length x Width x Height)	m	1,63 x 0,85 x 1,74	1,8 x 1,01 x 1,73
Volume	m³	2,4	3,15
Weight	kg	44	53

Refrigerating capacities with R134a

Units		GCI2010B3B1D4R		GCI2020B3B1D4R		GCI2022B3B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
5	20	2.629	6.009	3.805	8.430	4.645	10.191
	25	2.486	5.682	3.561	7.891	4.370	9.588
	30	2.344	5.359	3.318	7.352	4.099	8.992
	35	2.204	5.038	3.076	6.816	3.830	8.402
	40	2.066	4.722	2.836	6.284	3.564	7.819
	45	1.929	4.409	2.599	5.758	3.301	7.242
0	20	2.183	4.990	3.176	7.037	3.896	8.548
	25	2.061	4.712	2.969	6.578	3.659	8.028
	30	1.941	4.436	2.762	6.120	3.427	7.518
	35	1.821	4.162	2.557	5.666	3.198	7.015
	40	1.702	3.891	2.355	5.219	2.972	6.519
	45	1.584	3.620	2.158	4.782	2.747	6.027
-5	20	1.790	4.091	2.611	5.785	3.220	7.063
	25	1.687	3.857	2.438	5.401	3.019	6.622
	30	1.585	3.623	2.265	5.019	2.822	6.192
	35	1.483	3.390	2.095	4.642	2.630	5.770
	40	1.382	3.159	1.928	4.271	2.441	5.354
	45	1.282	2.930	1.764	3.909	2.253	4.943
-10	20	1.447	3.308	2.110	4.676	2.615	5.737
	25	1.361	3.111	1.968	4.360	2.448	5.370
	30	1.274	2.913	1.826	4.046	2.285	5.012
	35	1.188	2.716	1.687	3.737	2.126	4.663
	40	1.102	2.520	1.549	3.433	1.969	4.320
	45	1.019	2.330	1.416	3.137	1.814	3.980
-15	20	1.152	2.633	1.675	3.711	2.084	4.572
	25	1.079	2.467	1.558	3.451	1.946	4.269
	30	1.006	2.300	1.442	3.196	1.812	3.976
	35	933	2.133	1.330	2.946	1.682	3.689
	40	861	1.969	1.219	2.701	1.553	3.407
	45	792	1.810	1.111	2.462	1.426	3.129
-20	20	902	2.061	1.304	2.889	1.627	3.569
	25	838	1.916	1.207	2.674	1.514	3.321
	30	777	1.776	1.113	2.466	1.404	3.079
	35	716	1.637	1.022	2.264	1.296	2.843
	40	656	1.499	934	2.069	1.190	2.610
	45	595	1.360	848	1.879	1.085	2.381

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

Units		GCI2030B3B1D4R		GCI2040B3B1D4R		GCI3050B3B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
5	20	6.598	14.041	8.662	17.461	10.645	22.271
	25	6.215	13.227	8.137	16.401	9.995	20.911
	30	5.838	12.424	7.616	15.351	9.350	19.561
	35	5.465	11.630	7.099	14.310	8.709	18.221
	40	5.094	10.840	6.588	13.280	8.074	16.891
	45	4.723	10.051	6.082	12.260	7.443	15.572
0	20	5.587	11.889	7.440	14.996	9.004	18.838
	25	5.259	11.191	6.983	14.076	8.453	17.685
	30	4.936	10.505	6.533	13.168	7.904	16.535
	35	4.619	9.829	6.087	12.269	7.356	15.390
	40	4.303	9.158	5.646	11.380	6.812	14.252
	45	3.989	8.489	5.210	10.501	6.274	13.125
-5	20	4.660	9.918	6.297	12.693	7.500	15.690
	25	4.384	9.329	5.908	11.909	7.038	14.725
	30	4.113	8.752	5.524	11.135	6.578	13.762
	35	3.846	8.184	5.144	10.369	6.119	12.801
	40	3.581	7.621	4.768	9.611	5.662	11.845
	45	3.318	7.061	4.394	8.858	5.208	10.895
-10	20	3.822	8.134	5.245	10.573	6.139	12.844
	25	3.593	7.646	4.918	9.914	5.759	12.049
	30	3.368	7.167	4.595	9.263	5.380	11.255
	35	3.147	6.697	4.276	8.619	5.001	10.463
	40	2.928	6.231	3.958	7.979	4.623	9.672
	45	2.710	5.768	3.642	7.341	4.245	8.881
-15	20	3.076	6.547	4.294	8.655	4.932	10.318
	25	2.887	6.144	4.022	8.107	4.625	9.675
	30	2.703	5.753	3.753	7.565	4.316	9.030
	35	2.523	5.369	3.487	7.028	4.007	8.384
	40	2.344	4.989	3.222	6.494	3.698	7.736
	45	2.167	4.611	2.956	5.959	3.388	7.087
-20	20	2.426	5.162	3.453	6.961	3.887	8.131
	25	2.269	4.829	3.226	6.503	3.643	7.621
	30	2.120	4.511	3.002	6.052	3.394	7.100
	35	1.975	4.202	2.781	5.606	3.141	6.572
	40	1.832	3.898	2.561	5.163	2.888	6.041
	45	1.687	3.591	2.341	4.719	2.634	5.511

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

HCI, Low temperature units technical data

Units		GCI3060B3B1D4R		GCI4120B3B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
5	20	12.720	25.721	18.228	34.949
	25	11.948	24.160	17.019	32.631
	30	11.182	22.610	15.829	30.349
	35	10.421	21.071	14.660	28.108
	40	9.664	19.541	13.515	25.913
	45	8.912	18.020	12.397	23.770
0	20	10.864	21.968	15.721	30.143
	25	10.204	20.632	14.663	28.114
	30	9.548	19.306	13.618	26.110
	35	8.896	17.989	12.590	24.139
	40	8.248	16.678	11.583	22.209
	45	7.602	15.371	10.602	20.328
-5	20	9.135	18.471	13.324	25.546
	25	8.580	17.349	12.411	23.796
	30	8.029	16.234	11.506	22.061
	35	7.480	15.124	10.614	20.350
	40	6.934	14.020	9.737	18.670
	45	6.389	12.919	8.883	17.032
-10	20	7.548	15.262	11.069	21.223
	25	7.091	14.339	10.293	19.736
	30	6.635	13.417	9.520	18.253
	35	6.181	12.498	8.753	16.782
	40	5.728	11.582	7.996	15.332
	45	5.277	10.671	7.256	13.912
-15	20	6.121	12.377	8.992	17.240
	25	5.752	11.631	8.340	15.991
	30	5.381	10.881	7.684	14.733
	35	5.009	10.129	7.028	13.476
	40	4.638	9.378	6.378	12.228
	45	4.267	8.629	5.736	10.998
-20	20	4.871	9.850	7.124	13.660
	25	4.576	9.252	6.581	12.618
	30	4.277	8.648	6.024	11.551
	35	3.976	8.039	5.461	10.471
	40	3.671	7.423	4.897	9.390
	45	3.362	6.799	4.340	8.321

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

General data

Units		HCI2015B2B1D4R	HCI2018B2B1D4R
Frame type		2	2
Power supply		V/ph~/Hz	380-400/3N~/50
Max absorbed current (70Hz)		A	3,0
Max absorbed power (70Hz)		kW	1,4
Working temperature		°C	-15 ÷ -40
Compressor			
Type		Semihermetic	Semihermetic
Brand		Bitzer	Bitzer
Model		2GES-2Y	2FES-2Y
Refrigerant		R449A	R449A
Condenser			
Fin pitch		mm	2,1
Fans nr.			1
Fans ø		mm	450
Model		ph/p	1ph-6P
Air flow		m³/h	2943
Noise pressure level at 10 m (50Hz)		dB(A)	34
Connections			
Suction		Ø mm	16
Liquid		Ø mm	10
Standard liquid receiver		lt	2,3
PED category			1
Unit net weight		kg	170
Packaging			
Type		Pallet + Carton	Pallet + Carton
Dimension (Length x Width x Height)		m	1,53 x 0,9 x 1
Volume		m³	1,4
Weight		kg	28

Units		HCI2020B2B1D4R	HCI2030B2B1D4R	HCI2050B2B1D4R	HCI3060B2B1D4R
Frame type		2	2	2	3
Power supply	V/ph~/Hz	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Max absorbed current (70Hz)	A	4,3	6,0	7,4	10,1
Max absorbed power (70Hz)	kW	2,2	3,1	4,2	5,6
Working temperature	°C	-15 ÷ -40	-15 ÷ -40	-15 ÷ -40	-15 ÷ -40
Compressor					
Type		Semihermetic	Semihermetic	Semihermetic	Semihermetic
Brand		Bitzer	Bitzer	Bitzer	Bitzer
Model		2DES-2Y	4FES-3Y	4DES-5Y	4CES-6Y
Refrigerant		R449A	R449A	R449A	R449A
Condenser					
Fin pitch	mm	2,1	2,1	2,1	2,1
Fans nr.		1	1	1	2
Fans ø	mm	450	450	450	450
Model	ph/p	1ph-6P	1ph-6P	1ph-6P	1ph-6P
Air flow	m³/h	2943	2701	2701	5850
Noise pressure level at 10 m (50Hz)	dB(A)	36	37	40	42
Connections					
Suction	Ø mm	22	28	28	28
Liquid	Ø mm	10	10	12	12
Standard liquid receiver	lt	5,7	5,7	5,7	10
PED category		1	1	1	2
Unit net weight	kg	193	208	215	242
Packaging					
Type		Pallet + Carton	Pallet + Carton	Pallet + Carton	Crate
Dimension (Length x Width x Height)	m	1,53 x 0,9 x 1	1,53 x 0,9 x 1	1,53 x 0,9 x 1	1,63 x 0,85 x 1,74
Volume	m³	1,4	1,4	1,4	2,4
Weight	kg	28	28	28	44

Units		HCI4120B2B1D4R	HCI4140B2B1D4R
Frame type		4	4
Power supply	V/ph~/Hz	380-400/3N~/50	380-400/3N~/50
Max absorbed current (70Hz)	A	11,8	14,5
Max absorbed power (70Hz)	kW	6,8	8,5
Working temperature	°C	-15 ÷ -40	-15 ÷ -40
Compressor			
Type		Semihermetic	Semihermetic
Brand		Bitzer	Bitzer
Model		4PES-12Y	4NES-14Y
Refrigerant		R449A	R449A
Condenser			
Fin pitch	mm	2,1	2,1
Fans nr.		2	2
Fans ø	mm	450	450
Model	ph/p	1ph-6P	1ph-6P
Air flow	m³/h	5366	5366
Noise pressure level at 10 m (50Hz)	dB(A)	45	48
Connections			
Suction	Ø mm	35	42
Liquid	Ø mm	12	12
Standard liquid receiver	lt	21	21
PED category		2	2
Unit net weight	kg	330	335
Packaging			
Type		Crate	Crate
Dimension (Length x Width x Height)	m	1,8 x 1,01 x 1,73	1,8 x 1,01 x 1,73
Volume	m³	3,15	3,15
Weight	kg	53	53

Refrigerating capacities with R449A

Units		HCI2015B2B1D4R		HCI2018B2B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
-15	20	2.268	5.102	2.815	6.220
	25	2.102	4.728	2.609	5.765
	30	1.931	4.343	2.397	5.298
	35	1.757	3.952	2.181	4.820
	40	1.581	3.556	1.961	4.333
	45	1.405	3.161	1.737	3.839
-20	20	1.818	4.089	2.270	5.016
	25	1.683	3.787	2.098	4.637
	30	1.543	3.471	1.922	4.247
	35	1.398	3.146	1.740	3.845
	40	1.251	2.815	1.553	3.432
	45	1.103	2.481	1.362	3.009
-25	20	1.427	3.210	1.792	3.961
	25	1.320	2.970	1.653	3.653
	30	1.206	2.714	1.508	3.333
	35	1.087	2.446	1.358	3.000
	40	965	2.170	1.201	2.653
	45	839	1.888	1.036	2.290
-30	20	1.090	2.452	1.378	3.045
	25	1.007	2.265	1.268	2.801
	30	916	2.060	1.151	2.543
	35	818	1.841	1.027	2.270
	40	716	1.611	896	1.980
	45	609	1.371	755	1.669
-35	20	803	1.806	1.020	2.255
	25	737	1.659	936	2.068
	30	665	1.496	843	1.864
	35	585	1.317	743	1.641
	40	500	1.124	633	1.398
	45	409	919	512	1.131
-40	20	561	1.261	715	1.581
	25	508	1.142	653	1.442
	30	449	1.009	580	1.281
	35	383	862	497	1.099
	40	311	699	404	892
	45	231	520	298	659

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

Units		HCI2020B2B1D4R		HCI2030B2B1D4R		HCI2050B2B1D4R		HCI3060B2B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
-15	20	3.878	8.381	5.179	10.711	7.143	14.061	9.304	19.062
	25	3.595	7.770	4.797	9.921	6.603	12.999	8.629	17.679
	30	3.318	7.170	4.424	9.150	6.077	11.963	7.971	16.331
	35	3.045	6.580	4.063	8.403	5.566	10.957	7.332	15.021
	40	2.776	6.000	3.713	7.679	5.071	9.982	6.712	13.750
	45	2.512	5.429	3.376	6.982	4.593	9.041	6.112	12.521
-20	20	3.187	6.887	4.307	8.907	5.999	11.810	7.773	15.924
	25	2.944	6.362	3.977	8.224	5.527	10.880	7.188	14.727
	30	2.706	5.848	3.655	7.558	5.070	9.980	6.619	13.560
	35	2.472	5.343	3.341	6.910	4.627	9.109	6.067	12.429
	40	2.243	4.848	3.039	6.285	4.200	8.267	5.534	11.337
	45	2.018	4.362	2.749	5.686	3.788	7.456	5.022	10.289
-25	20	2.569	5.552	3.517	7.274	4.942	9.729	6.379	13.068
	25	2.365	5.111	3.236	6.693	4.536	8.930	5.880	12.047
	30	2.164	4.677	2.961	6.124	4.144	8.157	5.396	11.054
	35	1.966	4.249	2.694	5.572	3.765	7.411	4.926	10.093
	40	1.772	3.830	2.438	5.041	3.400	6.693	4.475	9.168
	45	1.582	3.418	2.192	4.534	3.050	6.004	4.042	8.281
-30	20	2.023	4.371	2.809	5.810	3.974	7.823	5.120	10.490
	25	1.854	4.007	2.572	5.320	3.632	7.149	4.702	9.633
	30	1.687	3.645	2.341	4.842	3.299	6.495	4.296	8.801
	35	1.521	3.287	2.117	4.379	2.978	5.863	3.904	7.998
	40	1.358	2.934	1.903	3.935	2.671	5.257	3.527	7.225
	45	1.198	2.588	1.698	3.512	2.378	4.681	3.164	6.482
-35	20	1.545	3.338	2.179	4.507	3.098	6.099	3.996	8.186
	25	1.407	3.040	1.983	4.100	2.812	5.536	3.650	7.477
	30	1.269	2.742	1.791	3.704	2.534	4.989	3.314	6.790
	35	1.131	2.445	1.606	3.322	2.266	4.461	2.991	6.127
	40	995	2.151	1.429	2.955	2.010	3.956	2.679	5.488
	45	861	1.861	1.260	2.606	1.767	3.479	2.381	4.877
-40	20	1.134	2.450	1.626	3.362	2.317	4.561	3.002	6.151
	25	1.019	2.202	1.464	3.028	2.078	4.091	2.720	5.573
	30	905	1.956	1.308	2.704	1.848	3.638	2.444	5.008
	35	792	1.712	1.156	2.391	1.628	3.204	2.178	4.462
	40	680	1.470	1.011	2.090	1.416	2.788	1.924	3.941
	45	569	1.229	871	1.802	1.215	2.391	1.684	3.451

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

Units		HCl4120B2B1D4R		HCl4140B2B1D4R	
Tev [°C]	Tamb [°C]	Cooling capacity MIN [W]	Cooling capacity MAX [W]	Cooling capacity MIN [W]	Cooling capacity MAX [W]
-15	20	12.677	23.341	15.356	28.012
	25	11.645	21.441	14.121	25.759
	30	10.628	19.569	12.900	23.532
	35	9.630	17.731	11.695	21.333
	40	8.652	15.930	10.503	19.159
	45	7.696	14.170	9.326	17.012
-20	20	10.692	19.687	13.018	23.746
	25	9.786	18.018	11.948	21.794
	30	8.897	16.381	10.887	19.860
	35	8.026	14.778	9.839	17.948
	40	7.175	13.211	8.806	16.063
	45	6.344	11.681	7.789	14.208
-25	20	8.827	16.252	10.818	19.733
	25	8.044	14.811	9.902	18.063
	30	7.278	13.401	8.996	16.409
	35	6.529	12.022	8.099	14.774
	40	5.799	10.678	7.217	13.164
	45	5.087	9.367	6.349	11.582
-30	20	7.095	13.063	8.773	16.003
	25	6.430	11.839	7.999	14.592
	30	5.779	10.641	7.234	13.196
	35	5.143	9.470	6.479	11.818
	40	4.525	8.331	5.735	10.462
	45	3.923	7.224	5.006	9.131
-35	20	5.511	10.147	6.900	12.586
	25	4.953	9.119	6.252	11.405
	30	4.405	8.111	5.613	10.238
	35	3.871	7.127	4.982	9.088
	40	3.352	6.171	4.362	7.957
	45	2.850	5.247	3.754	6.848
-40	20	4.091	7.532	5.215	9.512
	25	3.621	6.668	4.676	8.529
	30	3.163	5.823	4.141	7.553
	35	2.715	4.999	3.614	6.592
	40	2.281	4.200	3.097	5.649
	45	1.863	3.431	2.594	4.731

Cooling capacity MIN = compressor @30Hz
Cooling capacity MAX = compressor @70Hz

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