

## R-404a / R-507

## Compresores Frascold Tabla de rendimientos

### Rendimientos con gas refrigerante R-404a / R-507

Modelo Compresor	T.C. °C	R-404a / R-507a TEMPERATURA DE EVAPORACIÓN											
		7,5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
A-1-6 Y	30	6.550	6.012	5.035	4.182	3.441	2.803	2.255	1.787	1.389	1.048	756	500
	40	5.580	5.118	4.280	3.551	2.918	2.372	1.902	1.496	1.144	834	557	301
	50	4.611	4.223	3.522	2.914	2.388	1.933	1.537	1.191	883	602	338	
A-1-7 Y	30				5.192	4.269	3.480	2.807	2.235	1.746	1.325	954	618
	40				4.408	3.611	2.932	2.353	1.858	1.430	1.052	709	383
	50				3.625	2.952	2.379	1.890	1.468	1.097	760	440	
A-1,5-7 Y	30	8.385	7.691	6.433	5.537	4.388	3.571	2.871	2.273	1.763	1.325	945	
	40	7.182	6.580	5.491	4.546	3.729	3.025	2.420	1.898	1.444	1.044	683	
	50	5.963	5.453	4.534	3.740	3.056	2.465	1.955	1.509	1.112	750	408	
B-1,5-9.1 Y	30	10.746	9.835	8.180	6.734	5.483	4.412	3.505	2.747	2.123	1.618	1.217	904
	40	9.202	8.401	6.953	5.697	4.617	3.699	2.927	2.286	1.762	1.338	1.000	733
	50	7.594	6.908	5.674	4.614	3.713	2.955	2.326	1.810	1.392	1.057	790	
B-2-10 Y	30	12.210	11.180	9.360	7.770	6.410	5.230	4.220	3.340	2.600	1.960		
	40	10.400	9.530	7.970	6.620	5.440	4.420	3.540	2.770	2.120	1.560		
	50	8.500	7.800	6.540	5.430	4.460	3.600	2.850	2.200	1.630	1.150		
D-2-13.1 Y	30				10.326	8.506	6.919	5.548	4.378	3.391	2.571	1.901	1.366
	40				8.762	7.192	5.831	4.661	3.668	2.833	2.141	1.574	1.118
	50				7.255	5.933	4.795	3.824	3.005	2.320	1.753	1.288	
D-3-13.1 Y	30	16.490	15.124	12.636	10.454	8.552	6.906	5.491	4.282	3.255			
	40	13.865	12.705	10.598	8.756	7.152	5.764	4.565	3.530	2.636			
	50	11.346	10.390	8.660	7.152	5.843	4.706	3.718	2.854	2.088			
D-3-15.1 Y	30	18.656	17.155	14.417	12.010	9.911	8.096	6.543	5.227	4.124			
	40	15.810	14.526	12.191	10.147	8.369	6.834	5.519	4.400	3.454			
	50	12.891	11.831	9.911	8.240	6.795	5.551	4.486	3.576	2.798			
D-3-19.1 Y	30						10.017	8.173	6.587	5.237	4.099	3.150	2.368
	40						8.508	6.938	5.590	4.443	3.472	2.656	1.972
	50						6.987	5.695	4.590	3.651	2.854	2.176	
Q-4-21.1 Y	30				16.354	13.354	10.755	8.528	6.640	5.061	3.759	2.704	1.864
	40				13.856	11.228	8.965	7.038	5.414	4.062	2.952	2.051	1.329
	50				11.230	8.996	7.092	5.485	3.043	2.145	1.420		
Q-4-24.1 Y	30				18.258	15.039	12.223	9.781	7.683	5.900	4.402	3.159	2.143
	40				15.275	12.534	10.143	8.074	6.297	4.782	3.500	2.421	1.516
	50				12.383	10.108	8.130	6.422	4.953	3.695	2.617	1.690	
Q-5-25.1 Y	30		27.872	23.293	19.273	15.771	12.747	10.159	7.968	6.134	4.615	3.370	
	40		23.541	19.641	16.228	13.262	10.702	8.507	6.637	5.051	3.709	2.571	
	50		19.188	15.968	13.164	10.735	8.639	6.838	5.290	3.954			
Q-5-28.1 Y	30				21.828	18.036	14.716	11.833	9.353	7.241	5.464	3.987	2.776
	40				18.419	15.164	12.325	9.866	7.755	5.956	4.435	3.158	2.092
	50				15.037	12.320	9.962	7.928	6.185	4.699	3.435	2.358	
Q-7-33.1 Y	30		36.817	30.960	25.767	21.200	17.224	13.801	10.895	8.468			
	40		31.284	26.267	21.828	17.929	14.534	11.605	9.106	6.999			
	50		25.652	21.494	17.826	14.611	11.814	9.396	7.322	5.553			

#### Enfriamiento con ventilador de cabezal

##### Condiciones de cálculo:

- T.C.: T° condensación
- Alimentación 50 Hz
- Sin sistema de sub-enfriamiento
- T° ambiente 32° C
- T° gas de succión 20° C

##### Equivalencias:

1 Watt = 0.8598 Kcal/h  
= 3.4121 BTU/h

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Modelo Compresor	T.C. °C	R-404a / R-507a TEMPERATURA DE EVAPORACIÓN											
		7,5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
S - 8 - 42 Y	30				33.430	27.691	22.663	18.287	14.504	11.257	8.487	6.137	4.147
	40				28.341	23.401	19.083	15.328	12.078	9.276	6.862	4.778	2.967
	50				22.954	18.862	15.302	12.218	9.550	7.240	5.230	5.230	
S - 10 - 52 Y	30				39.744	32.862	26.979	21.974	17.724	14.105	10.995	8.270	5.809
	40				34.176	28.191	23.096	18.767	15.081	11.915	9.146	6.651	4.308
	50						19.147	15.471	12.327	9.591	7.142	4.855	
S - 12 - 42 Y	30		45.911	38.508	31.958	26.205	21.195	16.872	13.181	10.068			
	40		39.041	32.568	26.869	21.889	17.573	13.866	10.713	8.059			
	50		32.203	26.668	21.829	17.629	14.016	10.933	8.325	6.138			
S - 15 - 51 Y	30	61.220	56.160	47.090	39.260	32.490	26.640	21.610	17.250	13.250			
	40	52.580	48.270	40.460	33.710	27.830	22.720	18.280	14.480	11.190			
	45	48.180	44.260	37.160	30.920	25.470	20.740	16.630	13.070	10.010			
	50	43.700	40.160	33.750	28.080	23.070	18.730	14.940	11.660	8.830			
S - 20 - 56 Y	30	69.959	64.238	53.901	44.920	37.160	30.483	24.753	19.832	15.584	11.871	8.557	
	40	60.099	55.173	46.291	38.587	31.922	26.161	21.166	16.801	12.928	9.410	6.111	
	50	50.054	45.928	38.509	32.087	26.525	21.687	17.435	13.632	10.142			
V - 15 - 71 Y	30				54.745	45.194	37.045	30.119	24.241	19.231	14.913	11.109	7.642
	40				46.892	38.600	31.552	25.571	20.480	16.100	12.255	8.767	5.459
	50						26.046	20.980	16.646	12.867	9.466	6.264	
V - 20 - 84 Y	30				65.085	53.815	43.922	35.312	27.891	21.565	16.241	11.823	8.219
	40				54.821	45.222	36.833	29.560	23.310	17.988	13.501	9.755	6.655
	50				43.855	36.042	29.273	23.454	18.490	14.288	10.754	7.794	
V - 25 - 71 Y	30	89.291	81.879	68.373	56.522	46.204	37.297	29.680	23.229	17.822	13.339	9.656	
	40	75.489	69.095	57.486	47.345	38.552	30.983	24.517	19.031	14.405	10.514	7.238	
	50	61.897	56.514	46.784	38.338	31.053	24.806	19.475	14.939	11.076			
V - 30 - 84 Y	30	105.574	97.012	81.353	67.543	55.454	44.960	35.934	28.248	21.777	16.394	11.971	
	40	89.885	82.435	68.860	56.942	46.556	37.575	29.872	23.320	17.793	13.163	9.303	
	50	74.293	67.966	56.493	46.488	37.825	30.377	24.017	18.617	14.053			
Z - 25 - 106 Y	30				85.968	70.732	57.390	45.815	35.877	27.449	20.401	14.607	9.936
	40				72.721	59.543	48.062	38.147	29.672	22.507	16.525	11.597	7.594
	50				59.331	48.274	38.714	30.522	23.571	17.732	12.876	8.875	
Z - 30 - 126 Y	30				99.297	81.793	66.481	53.206	41.816	32.156	24.074	17.415	12.026
	40				83.350	68.385	55.354	44.102	34.477	26.323	19.489	13.820	9.163
	50				37.440	55.041	44.317	35.115	27.280	20.660	15.100	10.477	
Z - 40 - 154 Y	30				120.493	99.607	81.793	66.655	53.799	42.826	33.342	24.950	17.254
	40				103.000	85.017	69.718	56.707	45.588	35.965	27.441	19.624	12.108
	50					70.438	57.532	46.526	37.022	28.626	20.941		
W - 70 - 228 Y	30				178.117	146.921	119.621	95.947	75.624	58.381	43.943	32.039	22.396
	40				151.627	124.421	100.729	80.278	62.795	48.007	35.642	25.427	
	50				125.475	102.297	82.249	65.058	50.451	38.157			
W - 80 - 240 Y	30		265.713	222.270	184.136	150.917	122.218	97.646	76.806	59.305			
	40		226.857	189.061	155.992	127.254	102.454	81.197	63.089	47.736			
	50		187.191	155.213	127.379	103.292	82.560	64.788	49.582	36.547			
Modelo Compresor	T.C. °C	R-404a TEMPERATURA DE EVAPORACIÓN											
		-30	-35	-40	-45	-50	-55	-60	-65	-70			
Z - 15 - 60 - 30Y (*)	30	21.260	17.840	14.860	12.040	9.430	7.370	5.710	4.420	3.480			
	35	20.890	17.530	14.620	11.850	9.300	7.260	5.620	4.340	3.410			
	40	20.430	17.180	14.330	11.620	9.120	7.120	5.510	4.250				
	45	19.950	16.770	14.010	11.370	8.920	6.960	5.380					
	50	19.320	16.270	13.590	11.030	8.660	6.760						

**Condiciones de cálculo:**

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- Alimentación 50 Hz
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- T° gas de succión 20° C

**Equivalencias:**

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Enfriamiento con ventilador de cabezal

(\*) Compresor de doble etapa