

## R-134a

## Compresores Frascold Tabla de rendimientos

### Rendimientos con gas refrigerante R-134a

Modelo Compressor	T.C. °C	R-134a TEMPERATURA DE EVAPORACIÓN										
		12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
A - 1 - 6 Y	50	3.738	3.403	3.090	2.799	2.278	1.829	1.443	1.113	828	581	362
	60	3.208	2.914	2.641	2.386	1.930	1.537	1.198	904	647	417	
	70	2.673	2.421	2.186	1.969	1.580	1.243	952	696	466		
A - 1 - 7 Y	30	6.131	5.600	5.104	4.641	3.807	3.090	2.478	1.963	1.533	1.178	888
	40	5.448	4.972	4.527	4.111	3.364	2.719	2.167	1.698	1.301	966	683
	50	4.762	4.341	3.947	3.579	2.917	2.345	1.853	1.430	1.067	752	476
A - 1,5 - 7 Y	50	4.882	4.444	4.034	3.653	2.969	2.381	1.876	1.444	1.074	754	473
	60	4.192	3.807	3.448	3.114	2.515	1.999	1.556	1.172	838	543	
	70	3.495	3.163	2.855	2.569	2.057	1.615	1.234	901	605		
B - 2 - 10 Y	T.C. °C		12,5	7,5	5	0	-5	-10	-15	-20	-25	-30
	50		6.920	5.720	5.180	4.210	3.370	2.640	2.010	1.480		
	60		5.930	4.880	4.400	3.550	2.800	2.160	1.610	1.130		
	70		4.920	4.060	3.620	2.880	2.240	1.680	1.200	790		
	80		3.890	3.160	2.830	2.220	1.680	1.220	810	470		
B - 1,5 - 9.1 Y	T.C. °C	12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
	30	8.072	7.370	6.713	6.100	4.999	4.050	3.241	2.556	1.983	1.505	1.110
	40	7.181	6.547	5.955	5.403	4.410	3.554	2.821	2.197	1.668	1.218	835
	50	6.279	5.715	5.188	4.697	3.814	3.052	2.397	1.834	1.350	930	559
D - 2 - 13.1 Y	30	12.215	11.137	10.128	9.187	7.499	6.054	4.829	3.800	2.937		
	40	10.750	9.793	8.897	8.061	6.560	5.274	4.183	3.264	2.491		
	50	9.282	8.447	7.666	6.935	5.624	4.500	3.546	2.742	2.064		
D - 3 - 13.1 Y	50	9.370	8.481	7.651	6.879	5.504	4.342	3.373	2.574	1.922		
	60	7.882	7.114	6.398	5.732	4.549	3.553	2.728	2.055	1.511		
	70	6.404	5.764	5.165	4.609	3.624	2.799	2.120	1.574	1.139		
D - 3 - 15.1 Y	50	10.714	9.741	8.832	7.984	6.458	5.140	4.006	3.032	2.195	1.470	833
	60	9.140	8.284	7.485	6.741	5.404	4.247	3.249	2.383	1.628	959	
	70	7.554	6.817	6.131	5.492	4.346	3.355	2.494	1.741	1.071		
D - 3 - 19.1 Y	30	18.611	16.991	15.475	14.060	11.516	9.326	7.459	5.883	4.567	3.479	2.587
	40	16.486	15.033	13.674	12.406	10.125	8.158	6.474	5.042	3.829	2.804	1.936
	50	14.354	13.067	11.865	10.744	8.726	6.983	5.483	4.194	3.085	2.124	1.279
Q - 4 - 21.1 Y	30	19.518	17.709	16.016	14.444	11.630	9.236	7.224	5.552	4.173		
	40	17.212	15.587	14.068	12.653	10.125	7.977	6.174	4.679	3.450		
	50	14.784	13.355	12.019	10.775	8.556	6.675	5.104	3.809	2.751		
Q - 4 - 24.1 Y	30	21.805	19.829	17.980	16.255	13.164	10.524	8.294	6.428	4.877		
	40	19.092	17.349	15.718	14.194	11.462	9.123	7.144	5.481	4.090		
	50	16.415	14.903	13.485	12.161	9.782	7.744	6.013	4.555	3.327		
Q - 5 - 25.1 Y	30	23.014	21.009	19.139	17.398	14.281	11.613	9.350	7.445	5.854	4.531	3.432
	40	20.508	18.708	17.030	15.469	12.676	10.282	8.244	6.515	5.051	3.806	2.735
	50	17.980	16.385	14.901	13.521	11.053	8.936	7.125	5.574	4.238	3.073	2.033
Q - 5 - 28.1 Y	30	25.263	22.987	20.859	18.878	15.335	12.319	9.780	7.660	5.900		
	40	22.361	20.332	18.435	16.667	13.503	10.807	8.533	6.631	5.045		
	50	19.394	17.617	15.954	14.404	11.629	9.262	7.265	5.592	4.195		
Q - 7 - 33.1 Y	50	22.783	20.740	18.822	17.029	13.803	11.029	8.666	6.666	4.974		
	60	19.398	17.645	15.999	14.458	11.682	9.294	7.258	5.531	4.067		
	70	15.993	14.538	13.169	11.887	9.576	7.585	5.888	4.448	3.226		

Enfriamiento con ventilador de cabezal

Equivalencias:

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

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

## R-134a

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### Rendimientos con gas refrigerante R-134a

Modelo Compressor	T.C. °C	R-134a TEMPERATURA DE EVAPORACIÓN										
		12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
S - 8 - 42 Y	T.C. °C	12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
	30	40.381	37.265	33.932	30.821	25.232	20.426	16.333	12.881	9.997	7.610	5.649
	40	36.822	33.509	30.416	27.535	22.373	17.951	14.198	11.040	8.408	6.229	4.430
	50	32.600	29.548	26.705	24.063	19.347	15.326	11.930	9.086	6.722	4.768	3.152
S - 10 - 52 Y	T.C. °C	12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
	30	46.921	42.849	39.048	35.507	29.159	23.718	19.096	15.204	11.956	9.263	7.037
	40	41.766	38.113	34.704	31.530	25.842	20.960	16.796	13.262	10.271	7.734	5.565
	50	36.593	33.358	30.344	27.538	22.511	18.189	14.485	11.311	8.579	6.200	4.088
S - 12 - 42 Y	50	<b>29.272</b>	<b>26.614</b>	<b>24.122</b>	<b>21.790</b>	<b>17.583</b>	<b>13.950</b>	<b>10.844</b>	<b>8.222</b>	<b>6.039</b>	<b>4.250</b>	<b>2.810</b>
	60	<b>25.144</b>	<b>22.761</b>	<b>20.533</b>	<b>18.455</b>	<b>14.722</b>	<b>11.519</b>	<b>8.801</b>	<b>6.522</b>	<b>4.639</b>	<b>3.106</b>	<b>1.879</b>
	70	<b>21.034</b>	<b>18.934</b>	<b>16.978</b>	<b>15.160</b>	<b>11.916</b>	<b>9.158</b>	<b>6.841</b>	<b>4.920</b>	<b>3.351</b>	<b>2.089</b>	
S - 15 - 51 Y	T.C. °C	12,5	7,5	5	0	-5	-10	-15	-20	-25	-30	
	50		35.940	29.750	26.980	22.000	17.720	1.404	10.900	8.220		
	60		30.850	25.460	23.030	18.700	14.950	11.710	8.940	6.560		
	70		25.720	21.150	19.090	15.370	12.170	9.380	6.980	4.920		
	80		20.530	16.790	15.110	12.050	9.400	7.080	5.080	3.340		
S - 20 - 56 Y	T.C. °C	12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30
	50	<b>40.994</b>	<b>37.342</b>	<b>33.938</b>	<b>30.772</b>	<b>25.102</b>	<b>20.233</b>	<b>16.065</b>	<b>12.500</b>	<b>9.440</b>	<b>6.786</b>	<b>4.439</b>
	60	<b>35.304</b>	<b>32.103</b>	<b>29.126</b>	<b>26.359</b>	<b>21.409</b>	<b>17.154</b>	<b>13.495</b>	<b>10.334</b>	<b>7.572</b>	<b>5.110</b>	<b>2.851</b>
	70	<b>29.536</b>	<b>26.793</b>	<b>24.247</b>	<b>21.886</b>	<b>17.667</b>	<b>14.038</b>	<b>10.900</b>	<b>8.153</b>	<b>5.701</b>	<b>3.444</b>	
V - 15 - 71 Y	30	64.862	59.249	54.008	49.123	40.362	32.844	26.447	21.051	16.533	12.773	9.648
	40	57.731	52.698	48.002	43.627	35.782	29.041	23.283	18.386	14.228	10.690	7.648
	50	50.581	46.127	41.975	38.109	31.179	25.213	20.091	15.692	11.894	8.575	5.614
V - 20 - 84 Y	30	76.087	69.392	63.112	57.234	46.623	37.447	29.591	22.943	17.389	12.815	9.108
	40	66.637	60.649	55.044	49.808	40.387	32.273	25.352	19.512	14.368	10.617	7.336
	50	57.687	52.395	47.454	42.851	34.559	27.527	21.521	16.468	12.254	8.766	5.890
V - 25 - 71 Y	50	<b>50.416</b>	<b>45.814</b>	<b>41.501</b>	<b>37.467</b>	<b>30.192</b>	<b>23.908</b>	<b>18.532</b>	<b>13.983</b>	<b>10.177</b>	<b>7.033</b>	<b>4.469</b>
	60	<b>42.548</b>	<b>38.555</b>	<b>34.822</b>	<b>31.340</b>	<b>25.084</b>	<b>19.704</b>	<b>15.120</b>	<b>11.247</b>	<b>8.005</b>	<b>5.310</b>	<b>3.081</b>
	70	<b>35.040</b>	<b>31.650</b>	<b>28.492</b>	<b>25.556</b>	<b>20.306</b>	<b>15.820</b>	<b>12.014</b>	<b>8.807</b>	<b>6.116</b>	<b>3.858</b>	
V - 30 - 84 Y	50	<b>57.001</b>	<b>51.914</b>	<b>47.145</b>	<b>42.682</b>	<b>34.627</b>	<b>27.655</b>	<b>21.669</b>	<b>16.576</b>	<b>12.281</b>	<b>8.689</b>	<b>5.706</b>
	60	<b>48.767</b>	<b>44.288</b>	<b>40.097</b>	<b>36.183</b>	<b>29.137</b>	<b>23.057</b>	<b>17.846</b>	<b>13.411</b>	<b>9.655</b>	<b>6.486</b>	<b>3.807</b>
	70	<b>40.614</b>	<b>36.745</b>	<b>33.136</b>	<b>29.774</b>	<b>23.744</b>	<b>18.562</b>	<b>14.132</b>	<b>10.360</b>	<b>7.151</b>	<b>4.410</b>	
Z - 25 - 106 Y	30	97.622	88.968	80.855	73.266	59.583	47.778	37.707	29.225	22.190	16.457	11.883
	40	83.812	76.231	69.144	62.532	50.661	40.475	31.830	24.583	18.591	13.709	9.794
	50	71.204	64.657	58.554	52.878	42.737	34.088	26.789	20.695	15.664	11.551	8.214
Z - 40 - 154 Y	30	139.527	127.216	115.688	104.916	85.532	68.845	54.634	42.682	32.769	24.675	18.182
	40	122.877	111.831	101.510	91.885	74.617	59.807	47.236	36.686	27.937	20.770	14.966
	50	106.046	96.283	87.184	78.722	63.602	50.702	39.804	30.688	23.136	16.928	11.846
W - 70 - 228 Y	30	208.464	190.058	172.817	156.701	127.683	102.678	81.363	63.414	48.507	36.318	26.522
	40	185.643	168.871	153.192	138.567	112.315	89.791	70.672	54.632	41.348	30.496	21.752
	50	162.898	147.780	133.685	120.572	97.130	77.129	60.247	46.159	34.541	25.070	17.420
W - 80 - 240 Y	30	167.659	152.092	137.551	123.999	99.713	78.934	61.362	46.697	34.639	24.889	17.146
	40	142.149	128.553	115.896	104.141	83.182	65.377	50.427	38.030	27.889	19.702	
	50	117.438	105.816	95.045	85.087	67.459	52.632	40.307	30.183			
Z - 30 - 126 Y	T.C. °C	12,5	7,5	5	0	-5	-10	-15	-20	-25	-30	
	30	115.780	96.120	87.390	71.820	58.510	47.130	37.460	29.250			
	40	103.020	85.610	77.830	63.850	51.800	41.480	32.680	25.180			
	45	96.610	80.290	72.980	59.840	48.410	38.610	30.240	23.110			
	50	90.310	74.940	68.090	55.720	44.980	35.710	27.790	21.020			

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- Alimentación 50 Hz
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