

# Hermetic Compressors ASERCOM certification

**Certified performance!**



**L'UNITE  
HERMETIQUE**

# TECUMSEH EUROPE

A subsidiary of the world leader Tecumseh Products Company, TECUMSEH EUROPE have been using their experience to help those in the refrigeration industry for over 45 years.

**A strategy of constant innovation, guaranteeing performance and reliability.**

## The widest range of products

TECUMSEH EUROPE markets over 3,000 models of compressors and refrigeration units (from 50 to 35,000 W) to satisfy the needs of their customers, manufacturers and contractors.

## Reliable and efficient products

All over the world, the brand “L'UNITE HERMETIQUE” is synonymous with quality and reliability. The most extreme conditions for use are re-created in 27 test rooms (calorimeters, endurance, acoustics). Choosing an “L'UH” product means choosing an efficient product which has been tested and approved by the world's largest OEM's in the world.

## ASERCOM certification



TECUMSEH EUROPE, a member of ASERCOM (Association of European Refrigeration Compressor and Controls Manufacturers), is actively involved in the certification programme put in place by this association. The members establish the performance data of their compressors by using list methods, considered identical, comparable evaluation programmes and the same refrigerant data.

The published compressor performance of ASERCOM Members therefore can be compared directly. In addition, compressors conform to the declarations which have themselves been approved by a committee before the certification process.

## Products which are available everywhere

In order to ensure continuity of service for all our customers, our network of distributors covers 100 countries offering you the widest range of compressors, condensing units, original accessories and spare parts available.

## Tecumseh's commitments



**Quality**



**Environment**



**Performance**

# ASERCOM TECUMSEH EUROPE products certified

## ASERCOM certification

ASERCOM (Association of European Refrigeration Compressor and Controls Manufacturers) sets performance and safety standards of compressors for the refrigeration and air conditioning industry, promotes environmental protection and implements certification programmes (tests in independent laboratories, etc).

## Distribution of the certified compressors

The new data certified by ASERCOM is not incorporated in our selection programme CD version 03.01, in the General Catalogue, in our commercial documentation or technical data sheets previously distributed. However, it will be incorporated into the next editions of our catalogues.

Apart from current documentation, only the technical data sheets which can be downloaded directly from the internet bear the note "certified by ASERCOM".

Polynomial coefficients are available from TECUMSEH EUROPE on request.

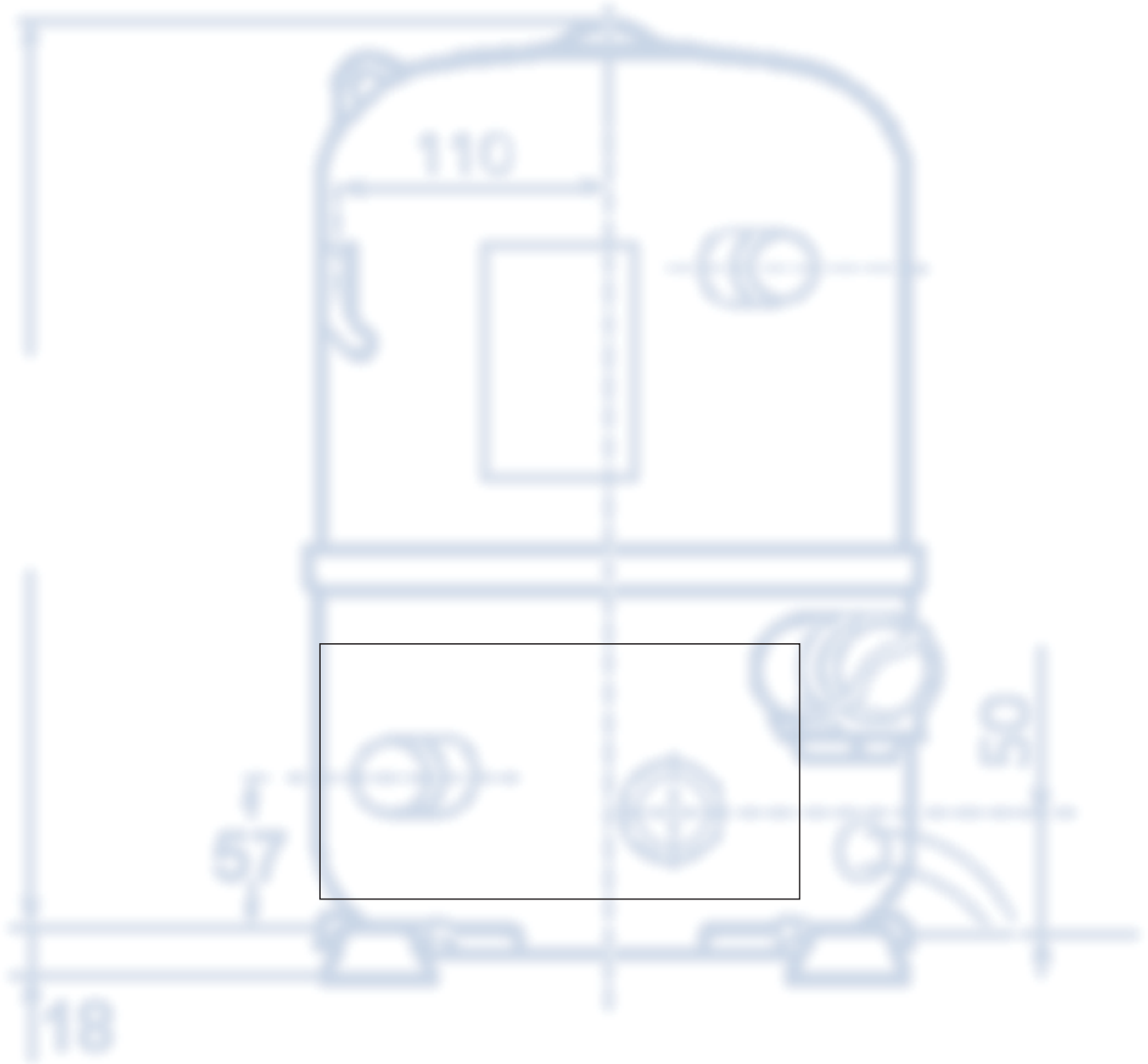
All TECUMSEH EUROPE compressor data certified by ASERCOM is included in this file.



# Commercial refrigeration

## TECUMSEH EUROPE

A professional at the service of professionals



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# TECUMSEH EUROPE compressors

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	T <sub>0</sub>	-25		-20		-15		-10		-5		0		5		10		15	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>FH4522Z</b>	30	1657	1013	2246	1163	2944	1297	3766	1419	4725	1531	5838	1637	7120	1740	8584	1843	10246	1949
	40			1715	1161	2323	1340	3027	1500	3840	1646	4780	1780	5859	1905	7094	2024	8499	2141
	50			1718	1328	2303	1544	2970	1740	3734	1918	4611	2082	5615	2234	6761	2379		
	60			1607	1479	2126	1742	2715	1981	3388	2200	4160	2403	5047	2591				
<b>TFH4522Z</b>	30	1555	1013	2147	1167	2849	1301	3677	1418	4644	1524	5767	1623	7062	1719	8542	1816	10224	1919
	40			1636	1173	2261	1356	2983	1516	3817	1659	4778	1787	5882	1907	7144	2022	8579	2136
	50			1636	1338	2243	1554	2934	1746	3724	1917	4629	2074	5663	2219	6842	2357		
	60			1494	1505	2033	1759	2643	1987	3339	2193	4136	2381	5051	2557				
<b>FH4524Z</b>	30	1843	1174	2514	1335	3290	1478	4185	1608	5217	1727	6402	1839	7756	1947	9297	2054	11040	2164
	40			1944	1347	2644	1535	3437	1707	4338	1865	5364	2012	6532	2152	7858	2289	9358	2425
	50			1964	1541	2639	1762	3395	1966	4249	2156	5216	2337	6313	2510	7557	2680		
	60			1832	1770	2430	2028	3097	2269	3849	2497	4704	2715	5678	2926				
<b>TFH4524Z</b>	30	1837	1140	2506	1308	3292	1455	4203	1584	5248	1697	6435	1797	7772	1888	9268	1971	10932	2049
	40			1935	1329	2640	1528	3443	1705	4353	1862	5378	2002	6526	2128	7807	2242	9228	2347
	50			1948	1531	2642	1764	3415	1972	4277	2159	5236	2328	6300	2481	7477	2620		
	60			1797	1750	2433	2018	3130	2260	3898	2479	4744	2678	5676	2860				
<b>FH4531Z</b>	30	2415	1450	3444	1716	4498	1925	5616	2093	6841	2239	8214	2377	9774	2526	11564	2703	13623	2924
	40			2456	1645	3517	1960	4590	2215	5716	2427	6937	2611	8292	2786	9823	2968	11570	3174
	50			2449	1876	3477	2244	4505	2548	5573	2806	6724	3033	7997	3247	9433	3465		
	60			2308	2155	3238	2579	4156	2936	5103	3243	6118	3517	7244	3774				
<b>TFH4531Z</b>	30	2540	1440	3378	1639	4336	1822	5437	1993	6699	2155	8144	2313	9792	2472	11665	2636	13782	2808
	40			2619	1653	3491	1891	4469	2112	5574	2322	6826	2524	8245	2722	9853	2922	11670	3126
	50			2613	1892	3460	2171	4398	2435	5448	2686	6629	2931	7964	3172	9471	3414		
	60			2435	2171	3197	2494	4035	2802	4970	3099	6021	3389	7211	3676				
<b>FH4540Z</b>	30	3057	1905	4063	2151	5243	2396	6616	2646	8201	2904	10017	3174	12083	3461	14417	3768	17039	4101
	40			3340	2242	4401	2531	5604	2820	6967	3112	8509	3413	10250	3725	12207	4054	14400	4404
	50			3445	2592	4486	2926	5635	3260	6912	3598	8335	3943	9924	4301	11696	4675		
	60			3231	2943	4174	3325	5194	3707	6308	4093	7535	4486	8895	4892				
<b>TFH4540Z</b>	30	3345	1957	4390	2199	5591	2437	6975	2678	8566	2931	10389	3205	12471	3508	14835	3848	17508	4235
	40			3489	2275	4570	2555	5784	2830	7157	3107	8715	3396	10482	3704	12484	4041	14746	4415
	50			3507	2622	4551	2940	5707	3251	6998	3565	8451	3888	10090	4231	11942	4601		
	60			3280	3001	4217	3356	5242	3704	6381	4053	7657	4412	9098	4788				

<p>T<sub>0</sub>: Evaporation Temperature in ° Celcius                  T<sub>c</sub>: Condensing Temperature in ° Celcius                  Q<sub>0</sub>: Refrigeration capacity in Watt                  P : Power requirement in Watt</p>	<p>Conditions for reporting:                  - Suction gas: 20° C                  - Subcooling: 0 K</p>
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	T <sub>0</sub>	-25		-20		-15		-10		-5		0		5		10		15	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>TAG4546Z</b>	30	3296	1863	4578	2196	6126	2500	7972	2781	10149	3042	8380	2834	15628	3525	8801	2887	22823	3988
	40			3394	2168	4721	2558	6287	2916	8125	3247	6632	2984	12746	3846	6988	3051	18846	4394
	50			3370	2497	4646	2951	6134	3371	4926	3038	9878	4125	5214	3123	14861	4797		
	60			3109	2846	4238	3374	3321	2955	7084	4321	3540	3062	10931	5154				
<b>TAG4553Z</b>	30	3793	2111	5224	2490	6947	2837	9005	3155	11443	3450	9461	3216	17630	3988	9933	3276	25856	4486
	40			3915	2455	5403	2904	7143	3317	9180	3701	7526	3396	14315	4394	7920	3474	21157	5021
	50			3868	2825	5306	3355	6957	3847	5618	3456	11073	4737	5939	3556	16563	5532		
	60			3517	3230	4799	3851	3761	3358	7928	4978	4012	3484	12098	5983				
<b>TAG4561Z</b>	30	4437	2391	5990	2781	7847	3154	10057	3525	12669	3911	10546	3601	19295	4782	11051	3677	28113	5891
	40			4594	2813	6210	3276	8083	3717	10261	4153	8493	3804	15728	5064	8915	3891	23001	6133
	50			4560	3269	6133	3817	7914	4338	6471	3922	12297	5362	6817	4027	18100	6464		
	60			4173	3765	5595	4409	4447	3897	8969	5618	4726	4028	13375	6824				
<b>TAG4568Z</b>	30	5428	2748	7159	3147	9193	3523	11574	3895	14348	4284	12096	3971	21248	5186	12634	4048	30248	6385
	40			5606	3205	7425	3686	9519	4135	11931	4573	9975	4223	17887	5491	10443	4310	25649	6597
	50			5639	3742	7429	4325	9463	4868	7815	4436	14444	5916	8211	4546	20935	7041		
	60			5327	4399	6969	5105	5641	4545	10941	6395	5961	4689	16131	7653				
<b>TAG4573Z</b>	30	5894	3020	7716	3477	9878	3935	12427	4393	15413	4850	12988	4485	22883	5759	13567	4576	32667	6651
	40			6163	3563	8071	4104	10288	4650	12861	5200	10772	4760	19265	6306	11272	4870	27667	7415
	50			6155	4134	8000	4766	10122	5406	8401	4894	15385	6706	8813	5021	22327	8027		
	60			5667	4725	7299	5453	5976	4870	11344	6943	6293	5015	16750	8471				

<p>T<sub>0</sub>: Evaporation Temperature in ° Celcius                  T<sub>c</sub>: Condensing Temperature in ° Celcius                  Q<sub>0</sub>: Refrigeration capacity in Watt                  P : Power requirement in Watt</p>	<p>Conditions for reporting:                  - Suction gas: 20° C                  - Subcooling: 0 K</p>
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## TECUMSEH EUROPE compressors certified by ASERCOM



	T <sub>0</sub>	-40 °c		-35 °c		-30 °c		-25 °c		-20 °c		-15 °c		-10 °c	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>CAJ2428Z</b>	30	282	325	403	384	553	446	734	508	950	570	1204	630	1500	685
	40	202	303	306	368	434	441	589	519	773	602	991	686	1246	771
	50			210	338	315	416	443	504	595	600	776	703	989	812
	60					201	377	300	468	419	572	563	688	733	814
<b>TAJ2428Z</b>	30	296	295	419	350	570	406	754	462	974	518	1234	575	1537	632
	40	205	275	309	339	436	405	590	472	775	540	994	609	1251	680
	50			212	318	317	394	443	471	594	551	774	633	987	717
	60					211	361	311	449	430	540	573	634	744	732
<b>CAJ2432Z</b>	30	342	360	496	418	687	476	917	536	1192	597	1514	661	1887	729
	40	249	347	381	417	542	487	738	560	971	636	1247	716	1567	801
	50			266	396	398	478	557	563	749	653	976	748	1243	850
	60					259	450	382	548	530	651	708	760	919	877
<b>CAJ2440Z</b>	30	422	436	600	503	818	571	1080	641	1391	712	1754	786	2173	863
	40	311	420	463	499	647	581	870	665	1135	752	1446	844	1807	941
	50			337	481	489	576	673	675	892	778	1151	888	1453	1004
	60					343	562	488	675	662	795	869	922	1114	1057
<b>CAJ2446Z</b>	30	573	526	797	613	1066	698	1384	782	1756	865	2188	946	2682	1025
	40	430	511	624	615	855	719	1126	821	1443	924	1811	1026	2234	1127
	50			458	597	651	722	876	847	1138	973	1442	1099	1793	1225
	60					456	695	634	846	842	998	1083	1152	1362	1307
<b>TAJ2446Z</b>	30	551	485	770	579	1033	672	1345	763	1712	851	2138	937	2626	1018
	40	410	470	597	581	821	692	1086	803	1397	913	1759	1021	2176	1128
	50			434	562	620	693	838	825	1094	957	1393	1090	1740	1222
	60					431	670	603	824	806	981	1042	1139	1318	1298
<b>CAJ2464Z</b>	30	733	700	1009	815	1345	923	1747	1030	2221	1141	2774	1260	3413	1391
	40	565	684		821	1096	954	1439	1087	1844	1225	2317	1373	2864	1536
	50			603	793	846	949	1131	1107	1467	1273	1860	1449	2316	1642
	60					597	930	825	1112	1092	1303	1404	1507	1770	1730
<b>TAJ2464Z</b>	30	752	650	1030	770	1365	892	1765	1015	2234	1141	2780	1270	3408	1405
	40	578	636	820	778	1108	920	1449	1066	1850	1215	2317	1369	2855	1529
	50			612	763	852	930	1135	1100	1467	1274	1854	1455	2302	1642
	60					601	918	825	1116	1088	1318	1395	1527	1752	1744

T<sub>0</sub>: Evaporation Temperature in ° Celsius  
 T<sub>c</sub>: Condensing Temperature in ° Celsius  
 Q<sub>0</sub>: Refrigeration capacity in Watt  
 P: Power requirement in Watt

Conditions for reporting:  
 - Suction gas: 20° C  
 - Subcooling: 0 K

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	T <sub>0</sub>	-40 °c		-35 °c		-30 °c		-25 °c		-20 °c		-15 °c		-10 °c	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>FH2480Z</b>	30	1004	1056	1436	1262	1938	1457	2515	1648	3171	1844	3909	2052	4735	2280
	40	689	970	1078	1232	1529	1477	2045	1712	2629	1945	3287	2184	4022	2436
	50			727	1129	1122	1438	1571	1730	2081	2014	2654	2298	3295	2588
	60					727	1320	1107	1684	1537	2033	2021	2375	2563	2717
<b>TFH2480Z</b>	30	1054	948	1502	1163	2017	1374	2606	1581	3275	1787	4028	1994	4871	2202
	40	719	850	1125	1102	1587	1345	2111	1582	2701	1814	3364	2043	4105	2270
	50			757	1002	1165	1297	1622	1583	2134	1860	2706	2130	3344	2395
	60					757	1188	1147	1541	1580	1883	2061	2214	2596	2537
<b>FH2511Z</b>	30	1387	1329	1990	1581	2705	1833	3543	2084	4517	2338	5639	2597	6921	2861
	40	962	1237	1509	1534	2151	1835	2898	2139	3765	2451	4763	2770	5904	3099
	50			1017	1424	1577	1774	2226	2132	2977	2500	3842	2880	4833	3274
	60					1008	1654	1550	2065	2177	2490	2901	2931	3734	3390
<b>TFH2511Z</b>	30	1372	1161	1966	1415	2690	1693	3556	1994	4576	2317	5761	2662	7124	3029
	40	958	1100	1477	1360	2109	1647	2866	1962	3762	2303	4807	2670	6013	3062
	50			997	1326	1529	1630	2170	1965	2933	2331	3830	2726	4872	3150
	60					975	1640	1492	2002	2115	2399	2855	2828	3724	3291

T<sub>0</sub>: Evaporation Temperature in ° Celsius  
 T<sub>c</sub>: Condensing Temperature in ° Celsius  
 Q<sub>0</sub>: Refrigeration capacity in Watt  
 P: Power requirement in Watt

Conditions for reporting:  
 - Suction gas: 20° C  
 - Subcooling: 0 K





	T <sub>0</sub>	-25		-20		-15		-10		-5		0		5		10		15	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>FH4522Z</b>	30	1657	1013	2246	1163	2944	1297	3766	1419	4725	1531	5838	1637	7120	1740	8584	1843	10246	1949
	40			1715	1161	2323	1340	3027	1500	3840	1646	4780	1780	5859	1905	7094	2024	8499	2141
	50					1718	1328	2303	1544	2970	1740	3734	1918	4611	2082	5615	2234	6761	2379
	60							1607	1479	2126	1742	2715	1981	3388	2200	4160	2403	5047	2591
<b>TFH4522Z</b>	30	1555	1013	2147	1167	2849	1301	3677	1418	4644	1524	5767	1623	7062	1719	8542	1816	10224	1919
	40			1636	1173	2261	1356	2983	1516	3817	1659	4778	1787	5882	1907	7144	2022	8579	2136
	50					1636	1338	2243	1554	2934	1746	3724	1917	4629	2074	5663	2219	6842	2357
	60							1494	1505	2033	1759	2643	1987	3339	2193	4136	2381	5051	2557
<b>FH4524Z</b>	30	1843	1174	2514	1335	3290	1478	4185	1608	5217	1727	6402	1839	7756	1947	9297	2054	11040	2164
	40			1944	1347	2644	1535	3437	1707	4338	1865	5364	2012	6532	2152	7858	2289	9358	2425
	50					1964	1541	2639	1762	3395	1966	4249	2156	5216	2337	6313	2510	7557	2680
	60							1832	1770	2430	2028	3097	2269	3849	2497	4704	2715	5678	2926
<b>TFH4524Z</b>	30	1837	1140	2506	1308	3292	1455	4203	1584	5248	1697	6435	1797	7772	1888	9268	1971	10932	2049
	40			1935	1329	2640	1528	3443	1705	4353	1862	5378	2002	6526	2128	7807	2242	9228	2347
	50					1948	1531	2642	1764	3415	1972	4277	2159	5236	2328	6300	2481	7477	2620
	60							1797	1750	2433	2018	3130	2260	3898	2479	4744	2678	5676	2860
<b>FH4531Z</b>	30	2415	1450	3444	1716	4498	1925	5616	2093	6841	2239	8214	2377	9774	2526	11564	2703	13623	2924
	40			2456	1645	3517	1960	4590	2215	5716	2427	6937	2611	8292	2786	9823	2968	11570	3174
	50					2449	1876	3477	2244	4505	2548	5573	2806	6724	3033	7997	3247	9433	3465
	60							2308	2155	3238	2579	4156	2936	5103	3243	6118	3517	7244	3774
<b>TFH4531Z</b>	30	2540	1440	3378	1639	4336	1822	5437	1993	6699	2155	8144	2313	9792	2472	11665	2636	13782	2808
	40			2619	1653	3491	1891	4469	2112	5574	2322	6826	2524	8245	2722	9853	2922	11670	3126
	50					2613	1892	3460	2171	4398	2435	5448	2686	6629	2931	7964	3172	9471	3414
	60							2435	2171	3197	2494	4035	2802	4970	3099	6021	3389	7211	3676
<b>FH4540Z</b>	30	3057	1905	4063	2151	5243	2396	6616	2646	8201	2904	10017	3174	12083	3461	14417	3768	17039	4101
	40			3340	2242	4401	2531	5604	2820	6967	3112	8509	3413	10250	3725	12207	4054	14400	4404
	50					3445	2592	4486	2926	5635	3260	6912	3598	8335	3943	9924	4301	11696	4675
	60							3231	2943	4174	3325	5194	3707	6308	4093	7535	4486	8895	4892
<b>TFH4540Z</b>	30	3345	1957	4390	2199	5591	2437	6975	2678	8566	2931	10389	3205	12471	3508	14835	3848	17508	4235
	40			3489	2275	4570	2555	5784	2830	7157	3107	8715	3396	10482	3704	12484	4041	14746	4415
	50					3507	2622	4551	2940	5707	3251	6998	3565	8451	3888	10090	4231	11942	4601
	60							3280	3001	4217	3356	5242	3704	6381	4053	7657	4412	9098	4788

T<sub>0</sub>: Evaporation Temperature in ° Celsius  
 T<sub>c</sub>: Condensing Temperature in ° Celsius  
 Q<sub>0</sub>: Refrigeration capacity in Watt  
 P: Power requirement in Watt

Conditions for reporting:  
 - Suction gas: 20° C  
 - Subcooling: 0 K

## TECUMSEH EUROPE compressors certified by ASERCOM



	T <sub>0</sub>	-25		-20		-15		-10		-5		0		5		10		15	
	T <sub>c</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
<b>TAG4546Z</b>	30	3296	1863	4578	2196	6126	2500	7972	2781	10149	3042	8380	2834	15628	3525	8801	2887	22823	3988
	40			3394	2168	4721	2558	6287	2916	8125	3247	6632	2984	12746	3846	6988	3051	18846	4394
	50					3370	2497	4646	2951	6134	3371	4926	3038	9878	4125	5214	3123	14861	4797
	60							3109	2846	4238	3374	3321	2955	7084	4321	3540	3062	10931	5154
<b>TAG4553Z</b>	30	3793	2111	5224	2490	6947	2837	9005	3155	11443	3450	9461	3216	17630	3988	9933	3276	25856	4486
	40			3915	2455	5403	2904	7143	3317	9180	3701	7526	3396	14315	4394	7920	3474	21157	5021
	50					3868	2825	5306	3355	6957	3847	5618	3456	11073	4737	5939	3556	16563	5532
	60							3517	3230	4799	3851	3761	3358	7928	4978	4012	3484	12098	5983
<b>TAG4561Z</b>	30	4437	2391	5990	2781	7847	3154	10057	3525	12669	3911	10546	3601	19295	4782	11051	3677	28113	5891
	40			4594	2813	6210	3276	8083	3717	10261	4153	8493	3804	15728	5064	8915	3891	23001	6133
	50					4560	3269	6133	3817	7914	4338	6471	3922	12297	5362	6817	4027	18100	6464
	60							4173	3765	5595	4409	4447	3897	8969	5618	4726	4028	13375	6824
<b>TAG4568Z</b>	30	5428	2748	7159	3147	9193	3523	11574	3895	14348	4284	12096	3971	21248	5186	12634	4048	30248	6385
	40			5606	3205	7425	3686	9519	4135	11931	4573	9975	4223	17887	5491	10443	4310	25649	6597
	50					5639	3742	7429	4325	9463	4868	7815	4436	14444	5916	8211	4546	20935	7041
	60							5327	4399	6969	5105	5641	4545	10941	6395	5961	4689	16131	7653
<b>TAG4573Z</b>	30	5894	3020	7716	3477	9878	3935	12427	4393	15413	4850	12988	4485	22883	5759	13567	4576	32667	6651
	40			6163	3563	8071	4104	10288	4650	12861	5200	10772	4760	19265	6306	11272	4870	27667	7415
	50					6155	4134	8000	4766	10122	5406	8401	4894	15385	6706	8813	5021	22327	8027
	60							5667	4725	7299	5453	5976	4870	11344	6943	6293	5015	16750	8471

T<sub>0</sub>: Evaporation Temperature in ° Celsius  
 T<sub>c</sub>: Condensing Temperature in ° Celsius  
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 P: Power requirement in Watt

Conditions for reporting:  
 - Suction gas: 20° C  
 - Subcooling: 0 K