



Twin and triple AJ, FH or AG compressors mounted in parallel



TWIN and TRIPLE COMPRESSORS

Flexible refrigeration by TECUMSEH

AJ, FH and AG compressors
mounted in parallel

Tecumseh Europe and its distribution network always at your service

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VARIABLE CAPACITY

MORE EFFICIENT
TEMPERATURE CONTROL

ENERGY SAVINGS





Offering you greater flexibility, reduction in running costs and lower noise levels

Twin and triple compressors are specifically designed for applications which have to cope with large capacity variations. They offer considerable advantages:

- ▶ **variable capacity**
- ▶ **more efficient temperature control**
- ▶ **energy savings**

■ Tecumseh offers you flexible refrigeration:

Capacities from 960W to 10 600W* on R-404A for low back pressure.

From 1 050W to 10 300W* on R-134a and 2 300W to 21 000W* on R-404A for high back pressure.

*At -30°C evap. temp. for LBP and at -10°C evap. temp. for HBP.

The refrigeration capacity of a twin or triple compressor unit is simply double or triple that of a single compressor.

Triple compressor units have three times the capacity. Multi-compressor systems can offer a wide range of refrigeration capacities.

■ Variable capacity:

For refrigeration installations which have to cope with large capacity variations, the compressors are selected to cope with the most critical load.

As a rule, there are three ways of varying capacity:

- Hot gas bypass to the suction (simple technically, but not an energy efficient solution and can result in overheating of the compressor motor).
- Variable speed.
- Multi-compressor systems. A simple, efficient and competitive way of obtaining capacity control by stopping and starting compressors. Systems using twin or triple compressors offer a very flexible cooling solution.

SIMPLE: compressors operate together or separately giving a staggered capacity control.

EFFICIENT: the system can operate on part load for as long as required.

REDUCED INVESTMENT: Twin and Triple compressor systems are excellent value for money compared with other technologies.

Standard equipment

System mounted on cross members for AJ compressors and on a base plate for FH and AG compressors.
 Brazed oil and pressure equalisation kit.
 Brazed suction and discharge lines.
 Non return valves on each discharge line.
 Suction valve.
 Brazed discharge line.

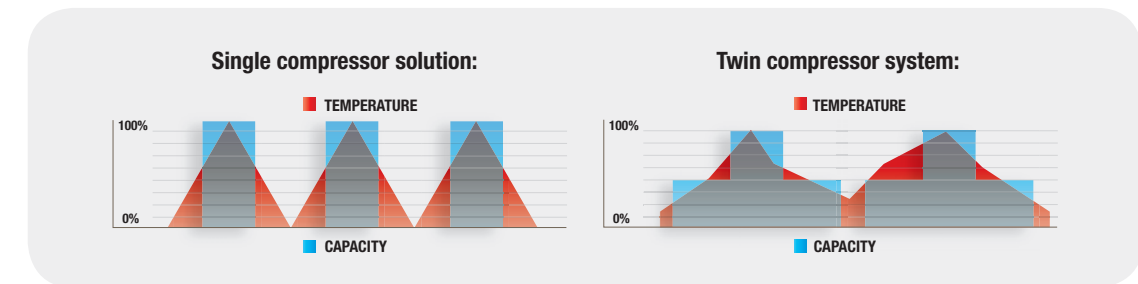
Options

Crankcase heater (to prevent the accumulation of liquid refrigerant when a compressor is not running).
 Suction without valve.

Other

Factory fitted electrical box.
 We recommend using pump down to prevent liquid slugs.

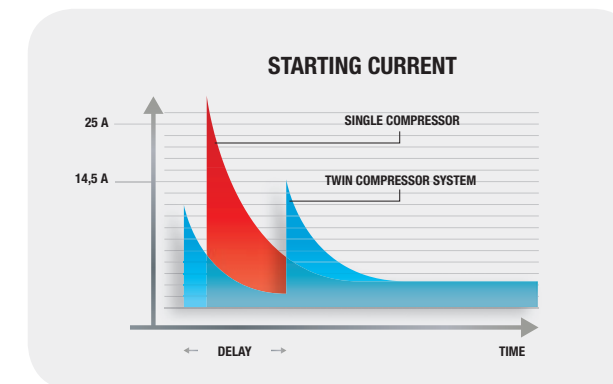
■ More efficient temperature control:



With twin and triple compressor applications, temperature changes either fast or slow, can be easily accommodated and the temperature variation between minimum and maximum is reduced when compared to a single compressor. The number of compressor starts is also reduced.

■ Energy savings:

Multi compressor systems are more energy efficient: they adjust to the changing conditions of the application, keeping the temperature stable and providing a genuine reduction in your running costs.



Lower starting current:

Compressor starting current is typically 3 to 5 times higher than during normal operation. When using a system of staggered starts, the starting current is considerably reduced.

Longer product life:

In multi compressor systems, start/stop cycles are reduced. Compressors can function alternatively for certain periods which prolongs product life.

Other advantages include...

■ Lower noise levels:

Multi compressor systems generate less noise than a single compressor of equal capacity; compressor sound levels are not simply added together, they are equal to that of a single compressor plus 3 decibels.

■ Reliability:

AJ, FH and AG hermetic compressors from the Tecumseh product range are renowned for their strength and reliability.



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	Models	REFRIGERATING CAPACITY (W)	EFFICIENCY (W/W)	REFRIGERATING CAPACITY (W)	EFFICIENCY (W/W)	Noise level dBA	HEIGHT mm	LENGTH mm	DEPTH mm	
		At -10°C evaporating temp.		At -5°C evaporating temp.						
HIGH TEMPERATURE REFRIGERATION	R-134a									
	AJ Duos	CAJD4510Y	934	1,2	1297	1,4	57	302	681	321
		TAJD4510Y	1058	1,4	1448	1,7	57	321	658	321
		CAJD4518Y	1788	1,4	2442	1,6	62	302	681	321
		TAJD4518Y	1782	1,6	2469	1,9	62	321	658	321
		CAJD4522Y	2468	1,6	3274	1,8	64	302	681	321
		TAJD4522Y	2432	1,5	3233	1,8	65	321	658	321
	AJ Trios	CAJTR4528Y	2681	1,4	3662	1,6	64	301	900	365
		TAJTR4528Y	2673	1,6	3703	1,9	64	301	900	365
		CAJTR4533Y	3701	1,6	4911	1,8	67	301	900	365
		TAJTR4533Y	3648	1,5	4849	1,8	68	301	900	365
	FH/AG Duos	TAGD4566Y	4333	1,5	6415	1,8	79	560	690	441
		TAGD4568Y	5758	1,6	8129	1,9	78	560	690	441
		TAGD4574Y	6617	1,7	9268	2	78	560	690	441
		TAGD4586Y	6928	1,6	9719	1,9	79	560	690	441
	R-404A / R-507									
	AJ Duos	CAJD9520Z	2302	1,3	2952	1,5	68	302	681	321
		TAJD9520Z	2323	1,3	2974	1,5	68	321	658	321
		CAJD9526Z	2698	1,3	3540	1,6	68	302	681	321
		TAJD9526Z	2573	1,3	3445	1,5	68	321	658	321
		CAJD4538Z	4243	1,3	5477	1,5	70	302	681	321
		TAJD4538Z	4223	1,3	5424	1,5	73	321	658	321
	AJ Trios	CAJTR4551Z	4886	1,4	6270	1,6	74	301	900	365
		TAJTR4551Z	4773	1,3	6246	1,5	74	301	900	365
		CAJTR4557Z	6364	1,3	8216	1,5	76	301	900	365
		TAJTR4557Z	6335	1,3	8136	1,5	76	301	900	365
	FH/AG Duos	TFHD4548Z	4579	1,3	6220	1,6	75	460	711	304
		TFHD4562Z	6058	1,4	8059	1,6	77	460	711	304
TFHD4580Z		8045	1,4	10526	1,6	82	460	711	304	
TAGD4590Z		7952	1,4	10994	1,6	86	560	690	441	
TAGD4610Z		9075	1,4	12480	1,6	86	560	690	441	
TAGD4612Z		10611	1,4	14342	1,6	87	560	690	441	
TAGD4614Z		13093	1,5	17419	1,7	87	560	690	441	
TAGD4615Z		14035	1,5	18491	1,7	86	560	690	441	

Other voltages and triple FH and AG multiplexed : please contact us

Tecumseh refrigeration capacity rating conditions: Performance at 35°C ambient temperature - Return gaz 11K, cond. pressure 54.5°C, 8.3K subcooled.

Our noise data is published in accordance with the EN 13215. In a constant effort to improve our quality, Tecumseh Europe's published noise data is in accordance with EN ISO3743-1



Tecumseh

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	Models	REFRIGERATING CAPACITY (W)	EFFICIENCY (W/W)	REFRIGERATING CAPACITY (W)	EFFICIENCY (W/W)	Noise level dBA	HEIGHT mm	LENGTH mm	DEPTH mm	
		At -35°C evaporating temp		At -30°C evaporating temp.						
LOW TEMPERATURE REFRIGERATION	R-404A/R-507									
	AJ Duos	CAJD2464Z	619	0,8	957	1	65	302	681	321
		TAJD2464Z	588	0,9	933	1,1	65	321	658	321
		CAJD2492Z	1093	0,9	1599	1,1	70	302	681	321
		TAJD2492Z	1043	1	1526	1,1	70	321	658	321
		CAJD2513Z	1521	1	2143	1,1	74	302	681	321
		TAJD2513Z	1483	1	2113	1,1	73	321	658	321
	AJ Trios	CAJTR2519Z	2281	1	3215	1,1	77	301	900	365
		TAJTR2519Z	2225	1	3169	1,1	75	301	900	365
	FH/AG Duos	TFHD2516Z	1700	0,9	2801	1,1	74	460	711	304
		TFHD2522Z	2256	0,9	3647	1,1	80	460	711	304
		TAGD2532Z	3526	1,1	5396	1,2	77	560	690	441
		TAGD2544Z	4767	1,1	7047	1,3	80	575	690	441

Other voltages and triple FH and AG multiplexed : please contact us

Tecumseh refrigeration capacity rating conditions: Performance at 32°C ambient temperature - Return gaz 32°C, cond. pressure 54.5°C, liquid temperature 32°C.

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