

# new **AJ** silence

Leading the way in quiet units!



**INNOVATION TECUMSEH**

■ **A 7dB(A)\* reduction in noise levels**

■ **Easier installation and after sales**

■ **Optimised performance**



\* average figure measured across the range

 **Tecumseh**

# the new AJsilence

## leading the way in quiet units

The new generation of AJ Silence units is a completely new concept, a technological leap forward combining low noise, l'Unité Hermétique performance and reliability to produce an extensive range of unmissable products sold throughout the world.

### Hear the difference

In our constant drive to bring you effective refrigeration solutions for applications where noise is a real factor for the surrounding environment (staff, customers), Tecumseh is launching the new generation of AJ Silence compressors and condensing units.

The product range offers you the technical and improved acoustic performance you need for applications in local shops, bakeries, restaurants, food outlets, convenience stores, commercial kitchens, medical units etc. This generation of products replaces the previous AJ range and extends and enhances our "Silent range by Tecumseh" which started with Silensys, the only condensing units with NF acoustic performance certification\*.

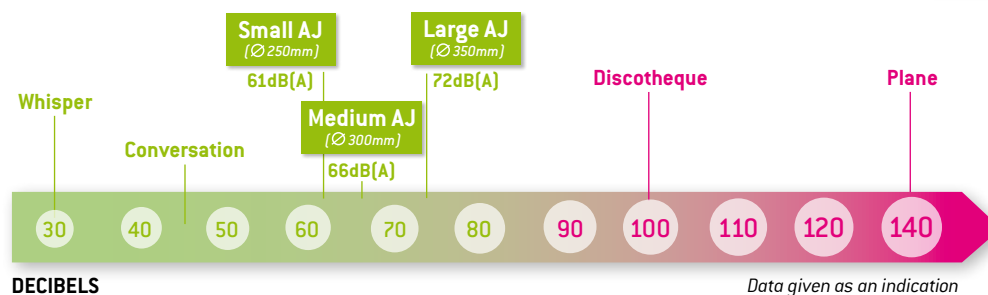
### An average noise reduction of 7 dB(A)\*\*

#### ■ You will notice the difference in noise level; this significant reduction has been measured and tested:

- A 7 decibel noise reduction makes a big difference to the human ear; in terms of noise it is the equivalent of the difference between a dishwasher and a vacuum cleaner !
- The perceived noise level of the AJ silence condensing unit is 5 times lower than that of the previous generation of products.



#### ■ New Silent AJ : discrete & efficient



#### ■ Quieter low back pressure refrigeration thanks to innovative changes made to the compressor: from 2009, the innovative noise reducing design used in AJ high and medium back pressure compressors since 2006 is now extended to low back pressure AJ applications. As a result, the reduction in noise is 8 dB(A) on average across the low back pressure applications.

\* see certified products in the Silensys brochure

\*\* average reduction observed throughout the range ; testing carried out by the COFRAC certified Tecumseh acoustic laboratory.



# the new AJsilence

also means...

## For high and low back pressure commercial refrigeration: the solutions for all applications

The AJ compressors and condensing units are particularly suited for refrigeration applications:

- cold rooms (high or low back pressure),
- drinks coolers,
- display cabinets and self-service,
- chillers for commercial kitchens and restaurants,
- gondolas,
- dough retarders,
- ice-makers,
- dehumidifiers,
- air dryers...



## Time saved on site and a simplified after sales service



■ **Easy to install**, the condenser fan assembly comes complete with grill and fast connection plug; no tools are required, and you can connect without opening the electrical box (except for CAJ/TAJ4517 and 4519 condensing units).

■ **Easier access and maintenance** with a reduction from 12 to 3 components for the fan assembly, removal via the top or the side, and the compressor bolted down from above. You will certainly appreciate the design features of this new generation of products!

Your distributor also has really fewer spare parts to manage.

■ **Same size as the previous generation** of condensing units : for installation in a wide range of applications, there are three sizes of model for the AJ Silence condensing units, each with a different fan diameter ; it's simple and easy to choose the right model.

## A leading product range giving optimised performance

■ **Energy savings**: a reduction in absorbed power of between 2 to 11% has been achieved by re-sizing the condensers and by using low energy fan motors.

■ **Lower starting current**: the new fan motors are of the permanent magnet (brushless) type, which has a progressive start up, reaching full efficiency in a maximum of 12 seconds.

■ **Performance is consistent**: as the fan motor is not affected by frequency and voltage variations : these fans ensure the acoustic and aerodynamic performance of the condensing unit.

■ **Waterproof**: IP rating 44.

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## other features

■ **Satisfaction guaranteed:** unobtrusive and backed by l'Unité Hermétique technology, you can be assured that you are giving your customers a robust and long lasting product solution to fit their refrigeration applications. The Silent AJ range is proven : more than 20 million compressors and condensing units installed throughout the world demonstrate high quality performance and reliability.

■ **Reactivity:** a leading range available internationally ; you can be assured of finding the product available wherever you are, thanks to Tecumseh service.

### Choice of equipment:

#### STANDARD

- Condenser Cu/Al.
- Receiver.
- Brazed Rotalock valves.
- Fan CE, UL, CSA.

#### OPTIONS

- Valves flared connection.
- Valves and connection kit.
- High/low pressure switch.
- Mini safety pressure switch.
- Flying electrical lead.
- Receiver with fusible plug.
- Liquid line consisting of a receiver with rotalock valve, brazed drier and a liquid line sight glass.
- Others : Please consult us.

## Tecumseh Europe and its distribution network are always at your disposal

#### SALES AND MARKETING HEAD OFFICE

Avenue de la Libération  
38390 La Verpillère  
France  
Tel. int +33 (0)4 74 82 24 00  
Fax int +33 (0)4 74 82 24 99

#### GERMAN OFFICE

Guiollettstrasse 57,  
60325 Frankfurt a.M.  
Deutschland  
Tel. int +49 (0)69 971 454-0  
Fax int +49 (0)69 724 10 53

#### ITALIAN OFFICE

130, via San Francesco d'Assisi  
10141 Giaveno (To)  
Italia  
Tel. int +39 (0)11 937 98 61  
Fax int +39 (0)11 936 37 31

#### MALAYSIAN OFFICE

N°18 Jalan Sultan Mohamed 4  
Selat Klang Utara  
42000 Port Klang  
Selangor Darul Eshan  
Malaysia  
Tel. int +60 3 3176 3886  
Fax int +60 3 3176 3890

#### SPANISH OFFICE

C/Corcega 301-303, 2º, 3a  
08008 Barcelona  
España  
Tel. int +34 93 218 5708  
Fax int +34 93 218 1691

#### U.K. OFFICE

PO Box 1908,  
Andover, Hants,  
SP10 9DE – U.K.  
Tel. int +44 (0)1 264 730 444  
Fax int +33 (0)4 74 82 24 94

[info@tecumseh.com](mailto:info@tecumseh.com)

# Hear the difference!

## new AJ silence



CONDENSING UNIT

NEW  
GENERATION

## HIGH BACK PRESSURE

Models	Refrigerating capacity (W)				Efficiency (W/W)		Sound power dB(A)	Dimensions		
	-10°C		-5°C		-10°C	-5°C		Height mm	Width mm	Depth mm
Evaporating temperature	Return gas 20°C	Superheat 10K	Return gas 20°C	Superheat 10K	Superheat 10K					
<b>R 134 a</b>										
CAJN4452YHR	633	585	782	734	1,2	1,4	60	304	345	486
CAJN4461YHR	739	679	896	837	1,2	1,3	60	304	345	486
TAJN4461YHR	779	716	943	882	1,3	1,5	64	304	345	486
CAJN4476YHR	965	893	1200	1129	1,4	1,6	64	340	433	481
CAJN4492YHR	1211	1120	1495	1406	1,6	1,7	64	340	433	481
TAJN4492YHR	1201	1111	1509	1418	1,8	2,0	64	340	432	481
CAJN4511YHR	1519	1400	1843	1727	1,7	1,8	65	340	432	481
TAJN4511YHR	1497	1380	1817	1702	1,6	1,8	65	340	432	481
<b>R 404A / R 507</b>										
CAJN9480ZMHR	1250	1107	1477	1341	1,5	1,6	66	340	433	481
TAJN9480ZMHR	1261	1116	1489	1350	1,4	1,6	66	340	433	481
CAJN9510ZMHR	1516	1339	1782	1612	1,5	1,6	67	340	433	481
TAJN9510ZMHR	1531	1352	1791	1621	1,4	1,5	67	340	433	481
CAJN9513ZMHR	1758	1544	2048	1844	1,4	1,5	67	340	433	481
TAJN9513ZMHR	1698	1492	2005	1805	1,4	1,5	67	340	433	481
CAJN4517ZHR	2166	1913	2542	2301	1,5	1,6	72	436	513	608
TAJN4517ZHR	2166	1914	2557	2315	1,5	1,6	72	436	513	608
CAJN4519ZHR	2770	2442	3255	2941	1,4	1,5	72	436	513	608
TAJN4519ZHR	2752	2427	3205	2896	1,5	1,6	72	436	513	608

**Voltages:** CAJ 220/240V – 50 Hz // TAJ 400/440V – 50 & 60 Hz. Other voltages consult us.

Performance in an ambient of 32°C, and depending on the operating conditions, suction gas return 20°C or superheat 10K.

Acoustic values based on the reference point of +5°C/ ambient 32°C for HP; -25°C / ambient 32°C for LP; in our constant effort to present indicated acoustic levels and real values as closely as possible, Tecumseh Europe conforms to EN ISO 3743-1



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CONDENSING UNIT

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GENERATION

## LOW BACK PRESSURE

Models	Refrigerating capacity (W)				Efficiency (W/W)		Sound power dB(A)	Dimensions		
	-35°C		-30°C		-35°C	-30°C		Height mm	Width mm	Depth mm
Evaporating temperature	Return gas 20°C	Superheat 10K	Return gas 20°C	Superheat 10K	Superheat 10K					
<b>R 404A / R 507</b>										
CAJN2428ZBR	330	262	440	354	0,6	0,7	59	304	345	486
TAJN2428ZBR	339	269	448	361	0,6	0,7	60	304	345	486
CAJN2432ZBR	388	305	516	412	0,6	0,7	60	304	345	486
CAJN2440ZBR	475	374	621	495	0,7	0,8	62	304	345	486
CAJN2446ZBR	694	553	901	729	0,8	0,9	65	340	432	481
TAJN2446ZBR	662	527	860	696	0,8	0,9	66	340	432	481
CAJN2464ZBR	876	693	1120	899	0,8	0,9	69	340	432	481
TAJN2464ZBR	867	686	1111	892	0,8	0,9	66	340	432	481

**Voltages:** CAJ 220/240V – 50 Hz // TAJ 400/440V – 50 & 60 Hz. Other voltages consult us.

Performance in an ambient of 32°C, and depending on the operating conditions, suction gas return 20°C or superheat 10K.

Acoustic values based on the reference point of +5°C/ ambient 32°C for HP ; -25°C / ambient 32°C for LP ; in our constant effort to present indicated acoustic levels and real values as closely as possible, Tecumseh Europe conforms to EN ISO 3743-1



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