



COMMERCIAL REFRIGERATION

**AIR COOLED CONDENSING UNITS FITTED WITH  
HORIZONTAL ROTARY HGA COMPRESSORS**

# Tecumseh technology serving the refrigeration industry.

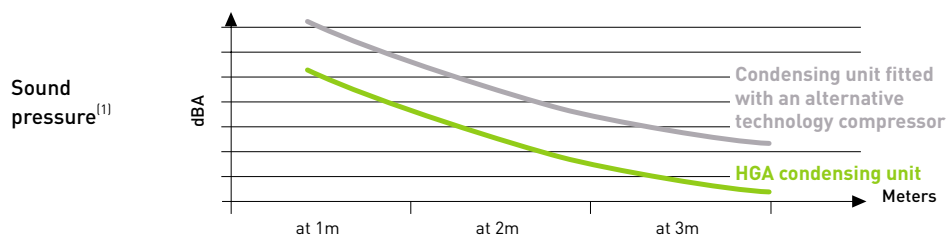


TECUMSEH  
EUROPE

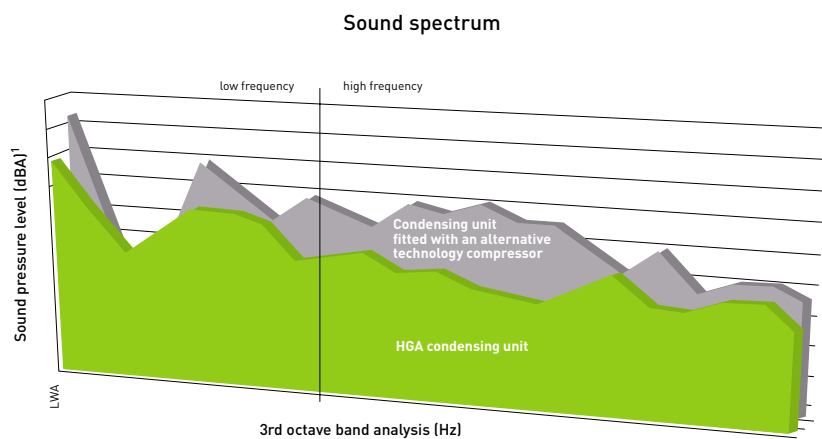
TOGETHER WE WILL GO FURTHER

# The only European manufacturer

→ Reduce noise levels with HGA condensing units.

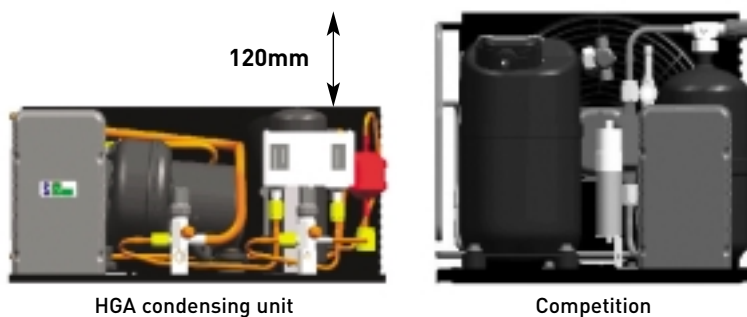


- **Up to 6 dBA<sup>(2)</sup>** lower than an equivalent condensing unit fitted with a reciprocating compressor.
- Rotary vane and roller compression design ensure **lower noise levels**.
- **Vibration** transmitted from the compressor to the HGA condensing unit is significantly **reduced** by the use of high absorption anti-vibration mounts.
- The new design electronic fan motor also helps **reduce noise levels**.
- The Research and Development teams at Tecumseh Europe have designed a condensing unit which produces **a minimum amount of vibration**.
- **These factors combine to significantly reduce noise levels – Your customers will hear the difference.** HGA condensing units produce less low frequency noise than condensing units fitted with equivalent reciprocating compressors. The application itself tends to filter the high frequency noise.



→ HGA condensing units fit where others don't.

- HGA condensing units have a reduced height of **220mm maximum**.



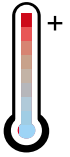
<sup>(1)</sup> For more information see Technical Bulletin 18 "The concepts of Sound".

<sup>(2)</sup> Sound pressure levels given as an example only.

# of horizontal rotary compressors

## → HGA condensing units ensure refrigeration performance at high ambient temperatures.

- The **quality** and **reliability** of Tecumseh technology ensure the performance of HGA condensing units.
- The **selection criteria** for the condenser fan set are both **rigorous and severe**.
- The fouling of the condenser is reduced by the use of the **widest condenser fin spacing** available on the market.

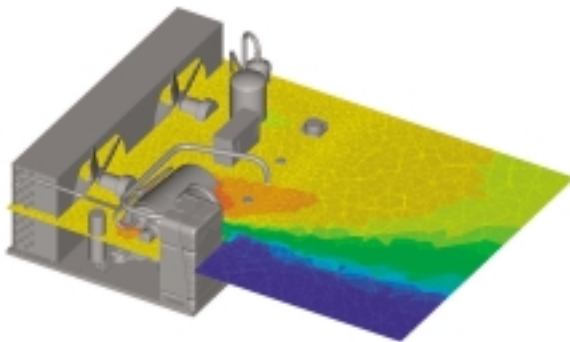


## → Reduce hot air discharge by using HGA condensing units.

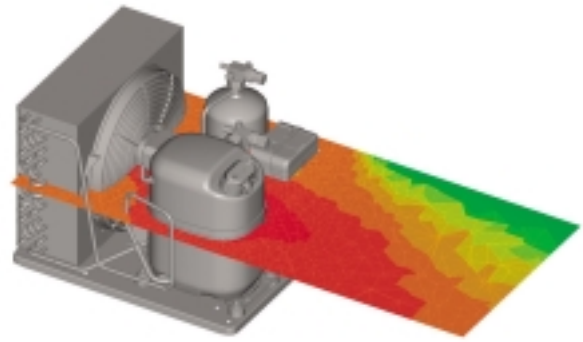
- The discharge air temperature is lower because of a **lower condensing temperature**.
- The condenser **heat exchange** surface is **optimized**.
- The new design electronic fan motors ensure **higher performance**.
- Rotary compressors produce a **lower heat of rejection in the condenser**.



Comparative thermal cartography



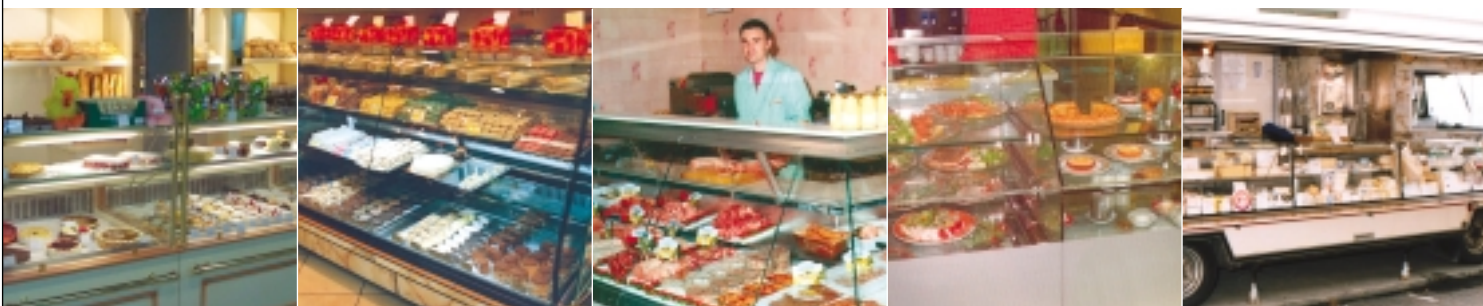
HGA condensing unit



Condensing unit fitted with a reciprocating compressor

## → Reduce electricity costs by using HGA condensing units.

- The **electricity bill** could be **reduced** by 30%<sup>[3]</sup> if the application is equipped with HGA.
- **HGA rotary compressors** have **greater efficiency** than the equivalent reciprocating compressors. Direct suction and the low number of moving parts mean that they achieve an excellent coefficient of performance.
- **Electronic fan motors** have a 40% **higher efficiency** than conventional motors.



<sup>[3]</sup> Data given as an example.



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