The original manufacturer's spare parts offer
▪ An original manufacturer's offer
▪ Clear and "ready-to-install"
▪ Structured around 6 key product functions
The Tecumseh Offer

Tecumseh finished products are designed, developed and tested in Tecumseh accredited laboratories.
The components used have been carefully selected for their specific characteristics and fields of application to achieve the most demanding performance, in complete safety, for optimum longevity.

The original manufacturer's parts offer is the guarantee of:

- Compliance with European Directives.
- The safety of equipment and its environment.
- Achieving the performance promised by the brand.

Tecumseh guarantees the reliability of its products insofar as they include original manufacturer's spare parts.
Why buy original manufacturer's parts?

The components used in Tecumseh products have been carefully selected for their specific characteristics and window of application to achieve the most demanding performance, in complete safety, for optimum longevity.

This is particularly true for electrical components as they are declared in the certification files. Compressors or condensing units are approved with their particular electrical components.

Example N°1: Electrical boxes and components

The electrical components selected by Tecumseh comply with all standard tests. As an example, under normative starting conditions (low voltage), the starting capacitor is determined as required for each motor and supply voltage. The equipment then selected allows an optimum motor starting torque.

If the components are incorrectly dimensioned, e.g. the permanent capacitor, there is a risk of overheating due to too high a generated current. If unsuitable generic component kits are used, excessively high temperatures can be generated and cause unexpected protective interventions for normal operation or even a fire start, even if the Tecumseh box has fire protection.
Why buy original manufacturer's parts?

Example N°2: Fan motors

Tecumseh fan motors are dedicated to each condensing unit, which implies a suitable rotation speed and air flow rate and customized connections.

Compliance with the Eco-Design Directive, initial performance and noise level are guaranteed with Tecumseh manufacturer spare parts.

The complete replacement of the fan motor ensures the correct operation of the condenser and maintains the refrigeration characteristics expected of the condensing unit.
TParts, online spare parts selection tool

Reliable - Fast - Efficient

- an identification by Serial Number of the product which guarantees the perfect replacement with traceability tracking
- an online selection tool accessible to all with instant results.
- a ready-to-install offer that includes all the accessories necessary for the intervention.

TParts is available on www.tecumseh.com
An offer structured around 6 key product functions

1. Refrigeration
   - Condenser
   - Equipped valve
   - Liquid receiver
   - Oil
   - Sight glass
   - Oil separator
   - Oil equalizer
   - Suction line accumulator
   - Others:
     - Evaporation tank
     - Sealing ring
     - Liquid sight glass
     - Tubes and hoses
     - Silent Bloks
     - Filter drier

2. Ventilation
   - Fan motors
   - Propeller
   - Motor
   - Bracket
   - Grid
   - Speed controller

3. Electrical
   - For compressors:
     - Electrical box
     - Pre-wired electrical box
     - Electrical kit
     - Terminal cover / T-Connect
     - Wiring
     - Protector
     - Relay
     - Starting capacitors
     - Permanent capacitors
   - For housed condensing units:
     - Thermal magnetic circuit breaker
     - Circuit breaker (fan)
     - Disconnector
     - Pressure switch
     - Crankcase resistance

4. Control
   - SILENSYS INVERTER
   - INVERTER
   - Pressure sensor
   - Filter
   - Display and display cover
   - Chiller INFINEE
   - Human Machine Interface (HMI)
   - Speed inverters
   - Refrigerant pressure sensor

5. Housing
   - For unhoused units and racks
     - Door / Front panel / Roof
     - Rear panel
   - SILENSYS mounting kit
   - Lock
   - Chiller INFINEE
   - Replacement kit for INFINEE chiller pump
   - Expansion vessel
   - Sealing

6. Hydraulic

TParts displays all spare parts included in Tecumseh Europe current offer.

If a part is not displayed in TParts please address your request directly to your regular sales contact for an equivalent part solution.
Refrigeration function
Condenser

The offer:
A condenser systematically proposed with all the fixing elements (screws / rivets).

Benefits for the installer:
Simplify the replacement by having in a bag the adequate and new fixing elements to avoid any oxidation or corrosion, and allow the replacement of the old fixings.
Maintain the correct capacity of the condensing unit

Tecumseh recommendation:
When changing the condenser, remember to change the filter drier.
Refrigeration function
Equipped valve

The offer:
A single reference per type of valve, which includes all the components necessary for its replacement according to the valve configuration, such as the gasket, the connection kit (copper end cap screwed on brass connection), the plug, the screws...

Benefits for the installer:
An appropriate seal is always supplied to ensure a watertight seal. Gain in efficiency thanks to the connection kit to be screwed on the valve with a copper tip to allow easy copper-copper brazing.

Tecumseh recommendation:
To keep the valve tight, remember to systematically change the gasket (gasket supplied with the valve) and to protect the valve with a damp cloth during soldering.

After vacuuming it is recommended in some cases to change the filter drier to limit the potential risk of moisture.
Refrigeration function

Liquid receiver alone or with valve

The offer:
Tecumseh offers for all liquid receivers, the liquid receiver alone or the liquid receiver with valve.

Benefits for the installer:
An offer adapted to different intervention needs.
Everything available for replacement and time saving.

Tecumseh recommendation:
Remember to change the filter drier at the same time as the liquid receiver to ensure that the unit will continue to be used on a daily basis.

Please note: Within the framework of European regulations it is not possible to carry out a replacement with fusible-plug liquid receiver.
Oil

The offer:
Tecumseh offers oil in 1L or 2L containers, certified for the proper use of compressors.

Benefits for the installer:
Only Tecumseh oil guarantees all the necessary and indispensable lubricating characteristics to ensure the performance, longevity and safety of its finished products.

Tecumseh recommendation:
Caution: Compressor oils are often hygroscopic, so careful storage and tight sealing of the oil is essential for proper conservation. Any incident on an installation (liquid shock, presence of water ...) must systematically lead to an oil change with an oil certified by Tecumseh.

Compressor sight glass

The offer:
Only one oil sight glass reference on the FH/AW, AG compressor ranges. The reference includes a plug, a seal, a nut.

Benefits for the installer:
The oil sight glass is used to monitor the oil level in the compressor, which guarantees its longevity.

Tecumseh recommendation:
Check the oil level regularly. Checking the oil level via an oil sight glass is done with the compressor at standstill and not in operation.
Refrigeration function

Oil separator and oil equalizer

**Oil separator**

**The offer:**
Two sizes of oil separators.

**Benefits for the installer:**
Dimensioned and selected according to the needs of the unit. Identical center distance and dimensions, identical fasteners for quick replacement avoiding any modification.

**Tecumseh recommendation:**
Always replace with an original part to ensure correct operation of the condensing unit and avoid failure due to lack of oil in the compressor.

**An oil equalization line**

**The offer:**
A component dedicated to multi-compressors.

**Benefits for the installer:**
Line of piping (bends and brazing) already made and brazed to the initial dimensions and center distances. Does not require any realization, generates a saving of time.

**Tecumseh recommendation:**
Any system with parallel compressors must have at least one oil level equalization line on each compressor during operation and at standstill.
Refrigeration Function

Suction line accumulator

The offer:
A suction line accumulator with all the elements to fix on the base.

Benefits for the installer:
A complete range of suction accumulators from 0.6L to 10L to cover the Tecumseh range. Everything available for replacement.

Tecumseh recommendation:
For condensing units, the option suction line accumulator is always recommended to prevent possible liquid waves, especially on negative temperature installations.

The systems are mainly equipped with thermostatic expansion valves. At each start-up, depending on the conditions, the possibility of a temporary liquid return cannot be excluded. The lower the temperature of the application, the greater the risk.

This phenomenon is all the more accentuated at low temperatures, since Maximum Operating Pressure (MOP) valves are not usually installed.
Refrigeration function

Other Spare Parts

- Condensate tray
- Sealing ring
- Liquid sight glass
- Tubes and hoses
- Silent blocs
- Filter drier
Ventilation function

Fanmotor, Propeller, Motor, Bracket, Grid

The offer:
The motorized ventilation offer includes both monobloc motors and motors assembled according to the needs of your installation.
The complete motorized fan unit is delivered with all the necessary fixing elements.

Benefits for the installer:
An offer compatible with the requirements of the European ErP (Energy-related-Products-Directive), also known as Eco-design.
This directive defines the minimum efficiency requirements for products with a high energy demand.

Tecumseh recommendation:
In order to comply with the regulations and maintain the initial performance, it is essential to replace the defective product with its original part, which is guaranteed with the manufacturer's spare parts.

The complete replacement ensures the correct operation of the condenser and maintains the expected performance of the condensing unit in complete safety.
Variable speed controller or complete kit for fans

The offer:
Ready-to-install variable speed controller or kits (accessories); all components required for assembly and installation are included depending on the model.

Benefits for the installer:
Ready-to-use kits with simple technologies for AC or EC fans. A factory preset solution for easy installation. Original manufacturer's part that guarantees the performance of the system and its compliance with the requirements of the European ErP directive. Maintains the condensing temperature at low ambient temperatures and allows a good supply of the application's expansion valve.

Tecumseh recommendation:
In the search for energy savings, Tecumseh recommends improving the performance of standard condensing units by equipping them with fan speed controllers. Check the fan on/off pressures after replacement.
Electrical function

Electrical Box, Pre-wired box

Electrical box

Consists of: box mounted with 2 terminals (Junior) and 3 terminals (Senior)

Benefits for the installer:
Simplification: a box that includes all the necessary connections, with original parts.

Tecumseh recommendation:
Tecumseh recommends changing all electrical components when a component fails, for safety, proper operation and service life reasons. The origin of the problem is usually not the cause of a single component.

Pre-wired electrical box

Composition: box, capacitor, relay, protector.

Benefits for the installer:
Saves time and avoids mistakes. Original manufacturer's parts for the correct operation of the compressor and condensing unit.
Electrical function

Electrical kit, Terminal cover, Wiring

Pre-wired electrical component kits

**Consists of:** capacitor, relay, protector.

**Benefits for the installer:**
Limits error sources with pre-wiring.
The replacement of the assembly guarantees the correct operation of the compressor.

Terminal cover included T Connect

**Composition:** The terminal cover is systematically delivered with a spring, a cover, a gasket.

**Benefits for the installer:** Reduces sources of errors.

Wiring
Tecumseh offers cables from 500 mm to 1500 mm in length.
Electrical function

Compressor electrical components

**Overload**
The original manufacturer's protectors are the only guarantee against the risk of fire.

**Relay**
If you change the relay, we advise you to change the start capacitor.

**Start or permanent capacitors**
Use the original part to avoid any electrical problem that could cause the compressor to fail or even start a fire.

All selections of these electrical components are based on international standards.
An offer of electrical components for the replacement of defective parts of housed condensing units.

a) Thermal magnetic circuit breaker/contactor
b) Circuit breaker (fans)
c) Disconnecting switch

Benefits for the installer:
Tecumseh’s offer ensures that you have the parts with the right dimensions and original calibration.

Tecumseh recommendation:
Never exceed the calibrations of the original components for safety reasons.
The offer:
An offer pressure switch and mini pressure switch for all refrigerants, also includes pressure switches for propane operation for the Chiller.

Benefits for the installer:
Selection of the right model and factory settings with the assurance of the correct switch-off or switch-on values.

Tecumseh recommendation:
For any pressure switch fitted, the on and off values must be tested and verified (with pressure gauge) under actual conditions. Please consider the discrepancy between the visual scale and reality.
The offer:

a) Heating belt
b) Oil heater (PTC: Positive Temperature Coefficient)

Benefits for the installer:
Guaranteed selection for the right oil temperature.

Tecumseh recommendation:
The oil heater is an essential component for the proper functioning of a refrigeration system for optimum compressor service life.

It prevents any liquid in the oil, allows hot starting of mechanical parts and a good oil viscosity index for ideal lubrication.
INVERTER
An INVERTER for the SILENSYS silent housed unit, pre-programmed at the factory and pre-configured on the control side.

Benefits for the installer:
The INVERTER is supplied with a programming of the parameters suitable for the operation of the SILENSYS. The intervention time is fast and avoids all risks of error (number of parameters and complexity of the programming).

Tecumseh recommendation:
When changing the INVERTER Tecumseh recommends to change the filter to reduce the risk of disturbance of the electrical network by magnetic fields and residual current. It is imperative to earth all connecting cables at both ends to avoid magnetic interference.

Other components: INVERTER input and output contact card (single), Pressure sensor - Filter - Display and display cover
Control Function

For INFINITI chiller

Human Machine Interface (HMI)
The offer: preloaded with INFINITI Software.
Installer benefits: Ready to use on INFINITI and compulsory for a good operation of the system.

Speed inverters
The offer: Preconfigured speed inverter to operate with INFINITI control. There are 2 versions one for the compressor and the other for the pump.
Installer benefits: Time gain and system operation safety.

Refrigerant pressure Sensors
The offer: Qualified sensors for use with propane in HP and LP.
Installer benefits: A compatible sensor with the INFINITI control and with regulations.

Non-exhaustive offer, find all spare parts for Chiller INFINITI on TParts from the serial number.
The offer:
A complete housing to provide protection against the weather.

Benefits for the installer:
Combine the advantage of a traditional unit or rack with the strength of a housed unit.

Equipping a unit with a housing allows the combination of the strength of Tecumseh units, weather protection and durability.

Nota Bene: The traditional condensing units’ bases have been withdrawn from the Tecumseh spare parts offer.
Housing function

Housing parts for WINTSYS and SILENSYS

Door

Door fitted with DIN rail, lock, cable clips, lever handle, danger sticker and Tecumseh logo.

**Benefits for installer:**
All components are designed for quick and easy replacement.

Front panel / Roof

Front panel with logo, roof, including screws and bolts.

**Benefits for installer:**
Guaranteed acoustic performance and system tightness.

*Nota Bene: The traditional condensing units’ bases have been withdrawn from the Tecumseh spare parts offer.*
Housing function

SILENSYS mounting kit and lock

SILENSYS wall/ground fixing kit

**Consists of:** screws, washers, nuts. Installation instructions in the packaging.

**Benefits for the installer:**
On the SILENSYS S and M sizes the mounting brackets are designed and tested for wall or floor mounting.

**Lock**
If the door of the SILENSYS is not damaged Tecumseh offers you the possibility to replace only the lock.

Note Bene: Cable glands are associated with the components where they are mounted (not sold individually).
Hydraulic function
For INFINEE chiller

Replacement Kit for INFINEE chiller pump

The offer: This kit includes the pump, its insulation, seals, screws and nuts. All necessary components are supplied.
Installer benefits: Components already selected, time saved (pre-cuted insulation for a better result.
Qualified pump to operate specifically with the inverter drive to guarantee its efficiency and life span.

Expansion Vessel

The offer: Expansion vessel, Original pressure 4 bar nitrogen.
Installer benefits: same components as factory mounted
Recommendations: On each installation it is necessary to inflate or deflate the vessel based on the system.

Sealing: The INFINEE spare part offer includes also the seals which have been qualified and tested for the chiller applications.