

## Industrial Cooling Systems (ICS) TAE EVO 020 Chiller



Stock No	<a href="#">CF664</a>
Manufacturer	<a href="#">Industrial Cooling Systems (ICS)</a>
Model	TAE EVO 020
Year of Manufacture	Re con. 26
Condition	From a working environment, Good Condition
Ave. cooling capacity	9.5kW @ 15°C cwt // 6.3kW @ 6.3°C cwt
Ave. Water Flow Rate	0.5 - 4.8 M <sup>3</sup> /Hr
Other Info	Serviced & Gassed By Evolution Cooling
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	195
External Dimensions (WxDxH mm)	575 x 1300 x 825

### Description

The ICS TAE 020 evo Tech has been designed specifically for industry, well suited to guarantee a secure and repeatable production process, while saving money and protecting the environment. Total process security at high efficiency levels making the TAE EVO Tech chiller a go to solution.

### Higher Energy Efficiency

Thanks especially to the energy efficient scroll compressors, the oversized evaporator and the refrigerant R407C,

TAEvo Tech achieves leading energy efficiency levels. This is mated to low maintenance needs, ensuring TAEvo is a highly economical long-term proposition

### Respect of Environment

The eco-friendly refrigerant R407C with outstanding heat conductivity, coupled with the low absorbed power level of the scroll compressors, reduce the environment impact, minimising the energy waste. Recyclable and high quality materials ensure respect of environment, and reduces the carbon footprint.

### Microprocessor Control

TAEvo Tech features advanced microprocessor control technology, with all models fitted with a unique digital control. A comprehensive digital display keeps the user fully informed concerning the correct operation of the unit, warnings and alarms.

### User Friendly

The operation principle of the unit is displayed in a simple and intuitive synoptic sticker with new design. The meaning of the codes of the main alarms shown on the display of the controller, are therefore easy understandable even without the help of the instruction manual, thus facilitating the maintenance activities.

### The Perfect Solution for Whatever Your Application

- **Plastics & rubber:** presses, injection moulding, extrusion (sheet & profile), blow moulding, thermoforming, PET.
- **Lasers, with a specific Laser chiller:** cutting, welding, profiling, optics, medical, engraving.
- **Food & drinks:** confectionery, bakeries, distilleries, breweries, wineries, dairies, bottling, carbonation, meat & fish processing, vegetable & salad processing, storage.
- **Chemical & pharmaceutical:** jacketed vessels, polyurethane foam mixers, natural gas, industrial cleaning, laboratories, healthcare, solvents, paints.
- **Metal working:** processing & transformation of precious metals, aluminium working & processing.
- **Mechanical & Engineering:** machine tools, welding machines, rolling mills, presses, extruders, cutting, profiling, polishing, electric spark machinery, hydraulic control unit oil cooling, pneumatic transport, heat treatment.
- **Paper & related applications:** printers, cardboard, labels, plastic film.
- **Other applications:** ceramics, textiles, wood, rental, air compressor cooling, other applications.

### Standard Features

- Refrigerant R407C;
- Hermetic Scroll compressor;
- High-efficiency finned coil evaporator with copper tubes and aluminum fins, installed inside the water storage tank;
- Axial fan with galvanised steel crescent-shaped blades
- Air-cooled condensers (copper tubes/aluminium fins) fitted on one side of the chiller. Air filter as standard
- Storage tank (design pressure 6 barg) complete with P3 pump, filling/drain valve, pressure gauge;
- Internal hydraulic bypass between the inlet and outlet connections;

- Electronic level sensor with water conductivity function;
- High and low refrigerant pressure switches;
- Pump pressure gauge;
- Parametric microprocessor control;
- Protection rating: IP44
- Phase monitor against phase loss and phase reversal;
- Compressor crankcase heater.

### Main Benefits

- Refrigerant R407C is an environmentally friendly fluid (zero ozone depletion potential) and provides high performances thanks its outstanding heat conductivity;
- The innovative evaporator-in-tank configuration has been designed specifically for industrial process cooling. It allows a reliable operation also with high flow rates (with low pressure drops) and is furthermore compatible with the presence of contaminated process fluids;
- Large cold water tank keeps outlet water temperature constant even under varying load conditions;
- Scroll compressors ensure high efficiency, excellent performance and elevated energy savings;
- Plug-in solution with integrated pump and tank, perfectly suited to the needs of the industrial User;
- Protection class IP44 makes TAEvo Tech suitable for outdoor installation;
- Extended operating limits: TAEvo Tech as standard accepts water inlet temperatures up to 35°C, and delivers outlet temperatures down to -10°C. TAEvo Tech operates with ambient temperatures up to 46°C and with minimum ambient temperature down to -5°C
- Cooling circuit suitable both for atmospheric and pressurised hydraulic circuits (up to 6 barg);
- Comprehensive safety equipment, including phase monitor pressure switches, antifreeze sensors, level control sensors, crankcase heaters and an internal hydraulic bypass circuit.
- Optional extra water make up tank fitted

### Technical Specifications

- Dimensions (WxDxH) - 575mm x 1300mm x 825mm
- Weight - 195kg
- Water connections - 3/4" Female BSP
- Max/Min water flow (m3/h) - 1.72 / 4.8 with 5.5/3.7 bar
- Power supply - 400(±10%)/3/50
- Max power absorbed - 3.8kW
- Power Sound level - 53.1 dB(A) at 10m
- Nominal Cooling Duty - 9.5kW at 15°C (6.3 at 7°C)

**The unit will be serviced and re-gassed by Evolution Cooling.**

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**