



## Unit Description

ESEER 9,27 for TECS-HF, water-cooled unit. This would be enough to summarise the innovating potential of these products, which now include also the new air-cooled TECS-F series.

But TECS products, besides their unbeatable part-load efficiency, are also synonymous of extremely low inrush current values, exceptional quietness and unprecedented simplification of logistics and commissioning.



## Unit Features

- **UNBEATABLE PART-LOAD EFFICIENCY**

Chillers operate for most of the time at part load. Therefore the “seasonal efficiency” (ESEER) is the factor actually influencing the energy consumption.

In order to obtain the highest part-load energy efficiency the TECS range has been developed. At part loads, TECS units are extraordinarily more efficient than traditional screw compressor units. Consequently the ESEER values are higher by 45% for TECS-HF units.

Also for the TECS-F units remarkable energy benefits are achieved, throughout their whole operation time. The operational cost savings are substantial and real, especially with continuous, year-round operation.

- **LOW INRUSH CURRENT**

One further element of differentiation is the low inrush current value, a result of the compressor’s “soft start” switching.

This unique feature of the TECS units allows a more favourable selection of the protection devices to be placed on the power supply between transformer and unit. Furthermore, due to the reduced electrical consumption, the sizing of transformer and power supply cabling is more compact. These aspects bring further savings in terms of electrical equipment costs and associated space requirements.

- **SIMPLIFIED LOGISTICS**

The handling and the space required by the units has important implications, about on-site commissioning operations and costs.

The on-site operations are simplified, in both cases of indoor installation within equipment rooms (TECS-

HF) and of rooftop installation with related lifting (TECS-F). Besides the installation operations, the reduction of the space to be assigned within the equipment rooms represents a significant capital cost saving.

## Unit Benefits

Extremely silent operation TECS chillers are characterised by the best acoustic performance available on the market:

**Extremely low sound pressure-** and power levels with respect to traditional units, thanks to the centrifugal compressor of new generation adopted on these units. Sound spectrum without tonal components therefore not affected by peaks at the most critical frequencies.

**Absence of vibrations** with consequent benefits in terms of mechanical stress transmitted along the pipework and towards the footprint surfaces, besides the higher durability of unit’s circuitry.

Furthermore TECS-F units are available in two versions, reflecting in their names the excellent positioning with respect to other chillers; in such way the series can comply also with the most stringent requirements about acoustic emissions:

Version SL, super-silenced

Version XL, with extremely reduced acoustic emission, with sound power levels down to 83dB(A).

Equipment designed to ISO-9001 and all relevant directives. Product improvement is a continual process at ICS Industrial Cooling and we reserve the right to change the design and specifications without notice or obligation.

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