

## IMPLEMENTATION

The Energy Efficiency Standardization and Labelling (EESL) program is an energy conservation initiative in the United Arab Emirates. This is implemented and maintained by Emirates Authority for Standardization & Metrology, also known as ESMA.

The program focuses developing and implementing Minimum Energy Performance Standards (MEPS) and Comparative Labelling Scheme on electricity and water consumption for electrical appliances used in the UAE.

This regulation requires the HVAC equipment and systems to comply with the minimum energy efficiency requirements and test procedures as set forth by ESMA as mentioned below.

### Household air conditioners

Household air conditioning units including non-ducted package units and split-units, must meet at least the minimum energy efficiency requirement (Energy Efficiency Ratio (EER)) as per the latest edition of ESMA UAE.S 5010 - 1: Energy efficiency label for electrical appliances, Part 1: household air conditioner for all buildings. For Golden Sa'fa a minimum 4-star rating and for Platinum Sa'fa a minimum 5-star rating are required.

The star rating is achieved for the air conditioning units based on the performed Energy Efficiency Ratio (EER) at T3 condition.

Energy efficient label is a sticker (as shown in fig 502.01(1)) to be placed on electrical appliances which contain important information about the level of energy consumption of the device.

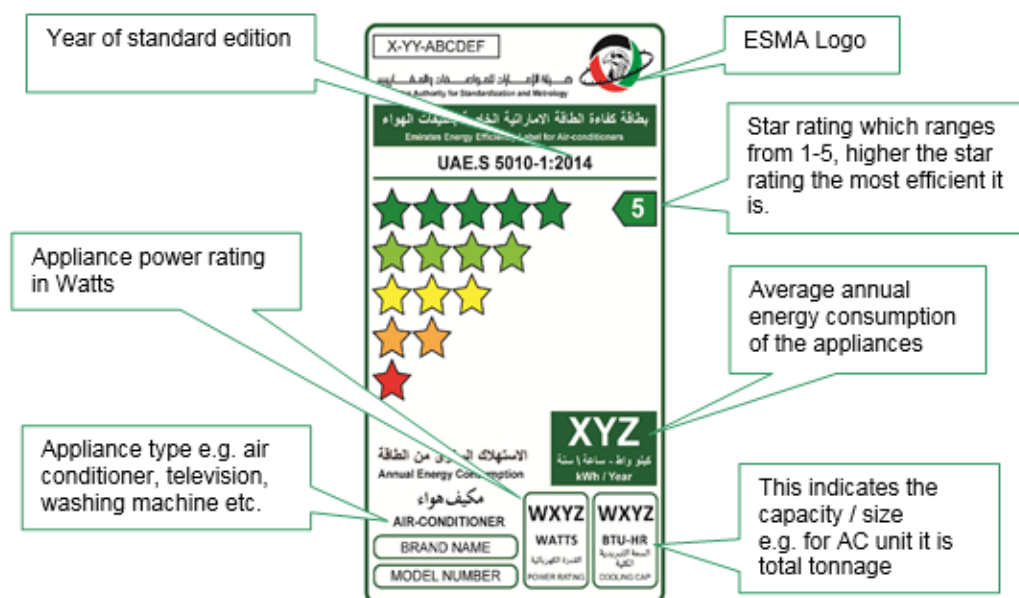


Fig. 502.01(1): The ESMA Energy Efficiency Label

### Commercial and central air conditioners

Commercial and central air conditioners must meet the minimum energy efficiency requirement (Energy Efficiency Ratio (EER)) as per the latest edition of ESMA UAE.S 5010 - 5: Labelling – Energy efficiency label for electrical appliances, Part 5: Commercial and central air conditioners for all buildings. Golden and Platinum Sa'fa buildings require 10% higher energy efficiency as indicated in Table 502.01 (2).