

## CHAPTER 2 - CONSERVATION AND EFFICIENCY: BUILDING SYSTEMS

500

### 502.01 ENERGY EFFICIENCY – HVAC EQUIPMENT AND SYSTEMS



#### INTENT

To improve energy efficiency in buildings and to reduce environmental impacts.

#### REQUIREMENT

For all new air conditioned buildings, heating, ventilating and air conditioning equipment and systems must comply with the minimum energy efficiency requirements and test procedures approved by Emirates Authority for Standardization & Metrology (ESMA), as indicated below:

1. Latest edition of UAE.S 5010 -1: Labelling- Energy efficiency label for electrical appliances, Part 1: household air conditioner.

For Golden Sa'fa: Minimum star rating of 4

For Platinum Sa'fa: Minimum star rating of 5

2. Latest edition of UAE.S 5010 -5: Labelling – Energy efficiency label for electrical appliances, Part 5: Commercial and central air conditioners:

- Table-1: Split and packaged unit including cassette type unit
- Table 4: Multiple split unit.

For Golden and Platinum Sa'fa: Minimum efficiency shall be at least 10% higher than the efficiencies specified in the tables or the units must be of variable flow type.

3. Latest edition of UAE.S 5010 -5: Labelling- Energy efficiency label for electrical appliances, Part 5: Commercial and central air conditioners:

- Table-2: Water source heat pumps

4. For Chillers – Minimum efficiency requirements and test procedures as listed in Table 502.01 (1):