

Table 502.01 (2): Minimum Energy Star Requirements

Equipment Type	Minimum Energy Efficiency (EER) (Btu.h/W) @T3 Condition	For Golden Sa'fa and Platinum Sa'fa
Split and packaged unit including cassette type unit	As per Table 1 of UAE.S 5010 -5	10% higher than the minimum energy efficiency value
Multiple split unit	As per Table 4 of UAE.S 5010-5	10% higher than the minimum energy efficiency value

Water Source Heat Pump

Water source heat pump must meet the minimum energy efficiency requirement (Energy Efficiency Rating (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, Table 2 for all buildings.

Chillers

Chillers must comply with minimum energy efficiency requirements as specified in Table 502.01(1). Appropriate testing procedures must be followed as per chiller types to determine the energy efficiency values on either T1 or T3 temperature conditions.

The T1, T2 and T3 temperature conditions specified in the table 502.01(3) as per AHRI shall be considered for the determination of cooling capacity and energy efficiency.

Table 502.01 (3): Climatic Conditions (as per AHRI)

Equipment Type	T1 (Moderate Climates)	T2 (Cool Climates)	T3 (Hot Climates)
Indoor conditions	27° C DB, 19° C WB	21° C DB, 15° C WB	29° C DB, 19° C WB
Outdoor conditions	35° C DB, 24° C WB	27° C DB, 19° C WB	46° C DB, 24° C WB

As part of design permit application, the project team must provide the complete building equipment details in the AC unit schedule form, including the quantity, equipment type, location, capacity and energy performance (COP/ EER/ Energy Star).