

ENVIRONMENT, HEALTH AND SAFETY

SUSTAINABILITY DEPARTMENT

CIRCULAR: EHS/GB/02/14

TO : All Business Units Of Dubai World, Their Clients , Green Building Consultants, Architectural & Engineering consultants, Contractors and relevant stakeholders

SUBJECT : REVISION TO ENERGY EFFICIENCY RATIO (EER) VALUES FOR AIRCONDITIONING EQUIPMENT

DATE : 26 January 2014

Greetings from EHS!

Trakhees-EHS would like to inform the stakeholders that it has reviewed the current requirements of the energy efficiency ratios of the air-conditioning units in relation to international benchmarks taking into consideration the pivotal role played by the energy in the sustainability of the built environment.

Accordingly it has made revisions to the Table 3 of the Annexure of the Regulation EHS-GB-6, Green Building Regulation for Warehouses and Industrial Developments .These revisions would also be replacing the Table 4 of the Annexure of the Regulation EHS-GB-8, Green Building regulations for villas and residential developments (up to 3 habitable storeys).

The minimum HVAC energy efficiency requirement (system performance) is outlined in the table below. The revision has been effected by taken into consideration the minimum requirements of ASHRAE 90.1 stipulated vide its Table 6.8.1A and the high energy optimization needs of the jurisdiction. This also reiterates that under no circumstances would the EER be less that the ASHRAE stipulated values.

It is a well-known fact that HVAC systems consume upto 75% of the building energy consumption especially during summer. These basic EER requirements in conjunction with integrated design principles and other adequate green measures taken during design and construction stages of the project would greatly enhance the operational sustainability of the facility through efficient performance of the HVAC systems.

Minimum HVAC Performance requirements – Energy Efficiency Ratios (EER)

SPLIT AND PACKAGED UNITS

S.No	Capacities	EER (Minimum)
1	Less than 2.5TR	11.8
2	Less than 5.4 TR	11.8
3	≥ 5.4 TR and < 11.4 TR	11.5
4	≥ 11.4 TR and < 19.8 TR	11.3
5	≥ 19.8 TR and < 63.4 TR	10.5
6	≥ 63.4 TR	10.0

CASSETTE TYPE UNITS EER ≥ 11.5

While these requirements would be reflected in the regulation soon, the stakeholders are hereby asked to comply with the above table for all their future projects.

EHS-Trakhees is committed to providing quality regulatory services to our business units and clients in protecting the environment, human health and safety. As always, we look forward to your cooperation, support and a very successful working relationship.

Should you have any queries, please feel free to approach the Green Buildings department or contact us at EHS.GreenBuilding@trakhees.ae

Regards,

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Director – EHS

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