

HFC-407C	~0	1,700	HCFC-22 replacement
HFC-410A	~0	1,890	Air conditioning
HFC-507A	~0	3,900	Low temperature refrigeration
Hydrofluoroolefins (HFOs)			
R-1233zd	0	1	Air Conditioning
R-1234ze	0	7	Air Conditioning
Natural Refrigerants			
R744 (Carbon dioxide) (CO ₂)	0	1.0	
R717 (Ammonia)	0	0	
R290 Propane	0	3	

For existing buildings, owners and building operators should ensure that CFC and halon-based materials are not to be used for any purposes. All existing equipment or appliances for domestic and commercial refrigeration or air conditioning should always be maintained leak free. Venting of ODS refrigerants during maintenance, servicing, repairing or disposing of air conditioning or refrigeration equipment is prohibited. Sustainable measures like refrigerant gas recycling and reclamation must be employed through a DM approved agency. Recycling old refrigerant requires the refrigerant is processed to reduce contaminants and then reuse the gas in the same system thereby recovering the gas. Reclamation requires reprocessing of used refrigerant to meet the product specifications for newly manufactured refrigerant. Reusing of recycled or reclaimed refrigerants must comply with DM's requirements and standards.

The ODP and GWP values for the various products from the manufacturer should be maintained at site, for any inspection by DM.

COMPLIANCE DOCUMENTATION

Table 701.05(2): Documents Required

Project Stages	Submittal Documents
Design Permit Application	1. Mechanical drawing indicating the refrigerant used for HVAC.
Construction Completion Application	1. Technical data-sheets of all HVAC refrigerant and all mechanical systems showing the ODP and GWP. 2. Technical data-sheets of fire suppression systems.
After Completion	Not applicable.

REFERENCES AND ADDITIONAL INFORMATION

Dubai Municipality. (2001). DM Circular 108: Procedures for controlling the use of ozone depleting material (CFC).

Environment Department, Dubai Municipality. (2018). Technical Guideline No. 2 Environmental Impact Assessment (EIA) Requirements for Development, Infrastructure and Utility Projects.