

# Ultraviolet Solutions for HVAC New Build Projects

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Gibbons Ultraviolet Solutions  
**Total Coil Disinfection**

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## Ultraviolet Solutions for HVAC “New Build Projects”

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- Long-established and proven means of cooling coil disinfection, referred to as ultraviolet germicidal irradiation (UVGI).
- Simple plug-and-play installation with minimum disruption.
- By inactivating bacteria, mould and viruses, biofilm is eradicated, which maintains the efficiency of the cooling coil in its as built condition.
- Installed on the air-off side, UVC disinfects the cooling coil and the drain pan so that condensate can be recycled as grey water.
- Disinfection of external and recirculated air passing through the coil and ductwork.
- Improved indoor air quality (IAQ) from virtual elimination of bio-contaminants that can trigger allergic reactions and propagate illness from bacteria, spores and viruses.
- Improves health, wellbeing and productivity for occupants.
- Reduces absenteeism.
- Virtually eliminates time-consuming manual cleaning, use of chemicals and/or pressurised water and is a non-invasive 24/7 self-cleaning regime.
- Extends the service life of cooling coils, fans, pumps and chillers.
- Maintains U-value and delta-T of cooling coils and therefore the design efficiency of the HVAC system – if installed in all AHUs – to as-built.
- Maintains operating costs compared to AHUs not fitted with UVC.
- Lower chilled water flow rates with fewer chillers running for the cooling load, compared to HVAC systems not fitted with UVC.
- Compliance with CIBSE Technical Memorandum TM44, Inspection of air conditioning systems.
- May gain BREEAM® and LEED credits.
- Complies with 06 – Microbe and Mould Control, Part. 1: a. of the WELL Building Standard precondition for cooling coils.
- Facilitates compliance with Energy Performance Certificate (EPC).

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