

SPONSORED WEBINAR

(BY BELIMO AUTOMATION MALAYSIA SDN BHD)

BEM CPD POINT APPROVED

Date : 7th JULY 2021 (Wednesday)

Duration : 3.00 pm to 4.30 pm

Platform : ZOOM

Register Here : <https://forms.gle/v5ymMqREnYSF5j8j9>

Basic Requirements for HVAC Systems for Healthy Indoor Air Quality

We assume the air in buildings is "clean" and will not harm our health. Therefore, it is astonishing how little users and operators actually know about indoor air quality at their premises. Essential variables such as air humidity, CO₂ content or VOC concentration are hardly ever measured and even less often displayed.

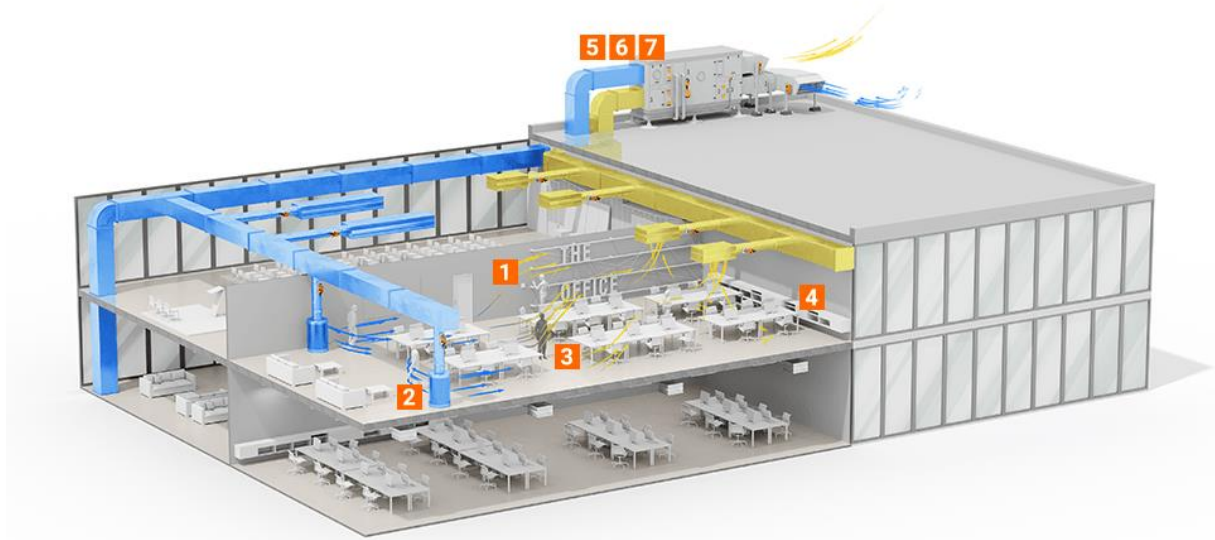
People spend approximately 90 percent of their time indoors, and breathe 12,000 litres of air per day. It is therefore important to understand the powerful influence that indoor air quality has on our wellbeing, especially during this extraordinary time of the coronavirus pandemic. While the impact of volatile organic compounds (VOCs) on humans has been widely discussed within the context of the 'sick building syndrome', the role dry air plays in spreading of microbes, including viruses, is often neglected. High performing HVAC systems and proper humidification strategies are required to maintain a stable and healthy indoor air quality in buildings.

Interview sessions with consulting engineers and experts in the ventilation sector around the world were conducted to identify the priorities when aspiring to create a healthy indoor air environment in a building. In the process, seven essential factors for ensuring healthy indoor air in non-residential buildings have emerged:

1. Continuous and reliable measurement, display and monitoring
2. Accurate amount of air to the zone and controlled removal of contaminated air
3. Well designed air dilution and air-flow pattern
4. Active pressurisation of envelope and spaces
5. Correct temperature and humidity conditioning
6. Effective filtration
7. Proper amount of outside air

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PROGRAMME OUTLINE

Time	Topic
2.55 pm	Logging in and entering Webinar
3:00 pm	Webinar: Indoor Air Quality by Mr. Alvin Chan
4.00 pm	Q&A
4.30 pm	End of Webinar

SPEAKER PROFILE

Alvin Chan is a Regional Application Consultant with BELIMO. He is based in Malaysia, and his role requires him to serve customers in SEA countries. Alvin has 21 years working experience, in various technical roles in HVAC, involved in various HVAC applications, design and maintenance positions.

He started his career, first in maintenance of HVAC facilities with a semiconductor test & assembly company, then to TROX in 2002, an air-water products specialist from Germany, initially worked in Malaysia, then in UAE, serving Middle East market, and also a stint with a reputable M&E consultancy, before joining BELIMO in 2013. He holds B. Eng (Hon) Mech & Materials Degree from National University of Malaysia, and is an Assoc. Member of ASHRAE since 2006.