SE7600E Series

Indoor air quality (IAQ) controller

Most people spend up to 90 per cent of their time indoors. A large portion of that time is dedicated to a working environment in a commercial building. Studies conducted by the Environmental Protection Agency (EPA) show indoor air can contain levels of pollutants that are actually higher than levels found outdoors.

In light of this, indoor air quality has become a major concern to businesses, building managers, tenants, and employees because of its direct impact on the comfort, well-being, and productivity. Not all buildings have severe indoor air-quality issues, yet even well-run buildings can experience episodes of poor indoor air quality.

The Schneider Electric™ SE7600E IAQ controller, along with a CO_2 sensor, is a cost-effective solution capable of controlling economiser-free cooling and IAQ demand-based ventilation strategy while providing a fresh air measurement input right out of the box. The Schneider Electric IAQ controller replaces the need for custom programmed DDC controllers and sensors to achieve the same results as in the past. When connected to a building automation system, the Schneider Electric IAQ controller can monitor and verify CO_2 and fresh air levels, ensuring air quality and energy efficiency is optimised.

While primarily designed for use in small to midsized commercial building applications such as office buildings or schools, the Schneider Electric IAQ controller can be installed in any other building type currently using a standard packaged rooftop or heat pump unit with a requirement for fresh air control. The Schneider Electric IAQ controller provides a simple, cost-effective solution. It offers advanced pre-programmed sequences of operations that can be installed without special software, tools, or the presence of a network. This greatly reduces the installation cost and commissioning complexity while providing control functions immediately when powered on.

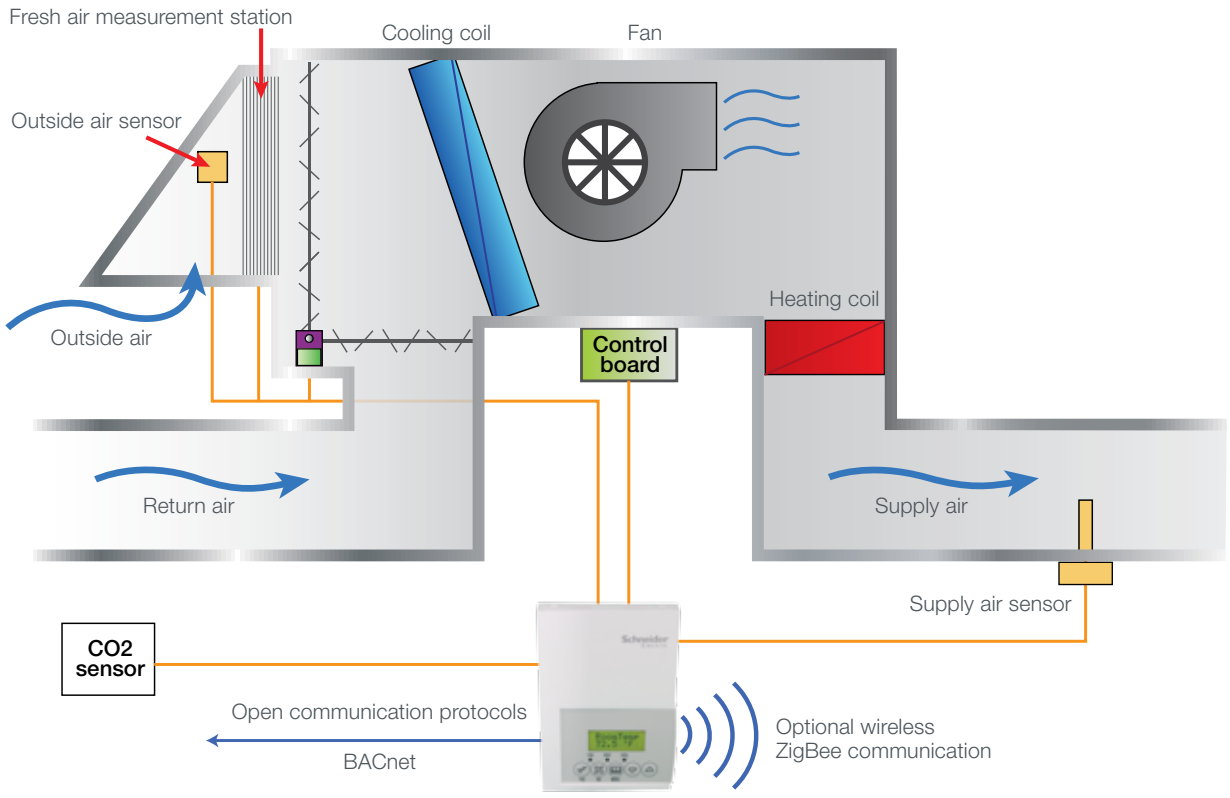
Further energy saving benefits can be achieved with the use of a local onboard passive infrared (PIR) motion sensor that can automatically detect local activity. This allows the IAQ to be controlled only when occupants are present, thus saving on unnecessary energy costs. This functionality along with configurable night setback features makes it an economical yet highly effective control solution. This brings IAQ control and energy saving features in one simple yet powerful package that is network ready, BACnet®, or ZigBee® wireless compatible.

Schneider Electric

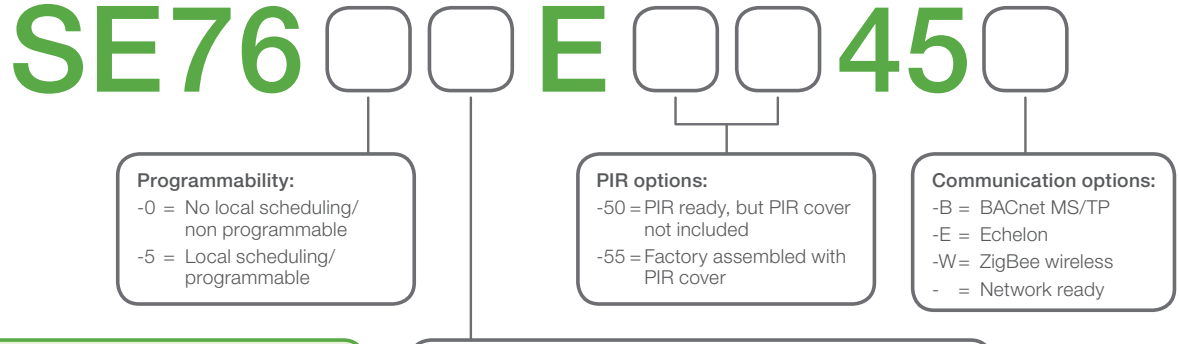
Features and benefits

Features	Benefits
Controls IAQ with any remote return duct or wall-mounted CO_2 sensor	Being able to control IAQ means healthier and more productive occupants
Controls and measures fresh air with any third-party fresh air measurement station	Meets new IAQ requirements and regulations for LEED type buildings
Embedded free cooling economiser loop	True energy savings with adjustable economiser control loop; minimum fresh air can be measured and controlled with the fresh air measurement station
One small, compact thermostat-like controller	Provides a simple-to-install, cost-effective package; easy thermostat-like operation for the end user
Network-ready functionality built in	Allows for future network functionality along with remote monitoring of all critical system data points for sustainability
Passive infrared (PIR) sensor cover available as an accessory	Further energy savings is possible with the use of a local passive infrared (PIR) sensor cover to automatically detect local occupancy; IAQ is maintained and controlled only when occupants are present to save energy costs

Typical application



SE7600E Series ordering matrix



Example:
SE7652H5045E
- Roof top controller
- Local scheduling or programming
- 2H/2C application
- PIR ready
- Echelon wireless communication

* Some part number configurations may not be available. Please refer to the tables for available versions.

Please refer to the SE7000 Series - Product Comparison Guide for all available part numbers. The latest SE7000 Series - Product Comparison Guide is available as a pdf document on the web at: **http://schneider-electric.com/buildings**.