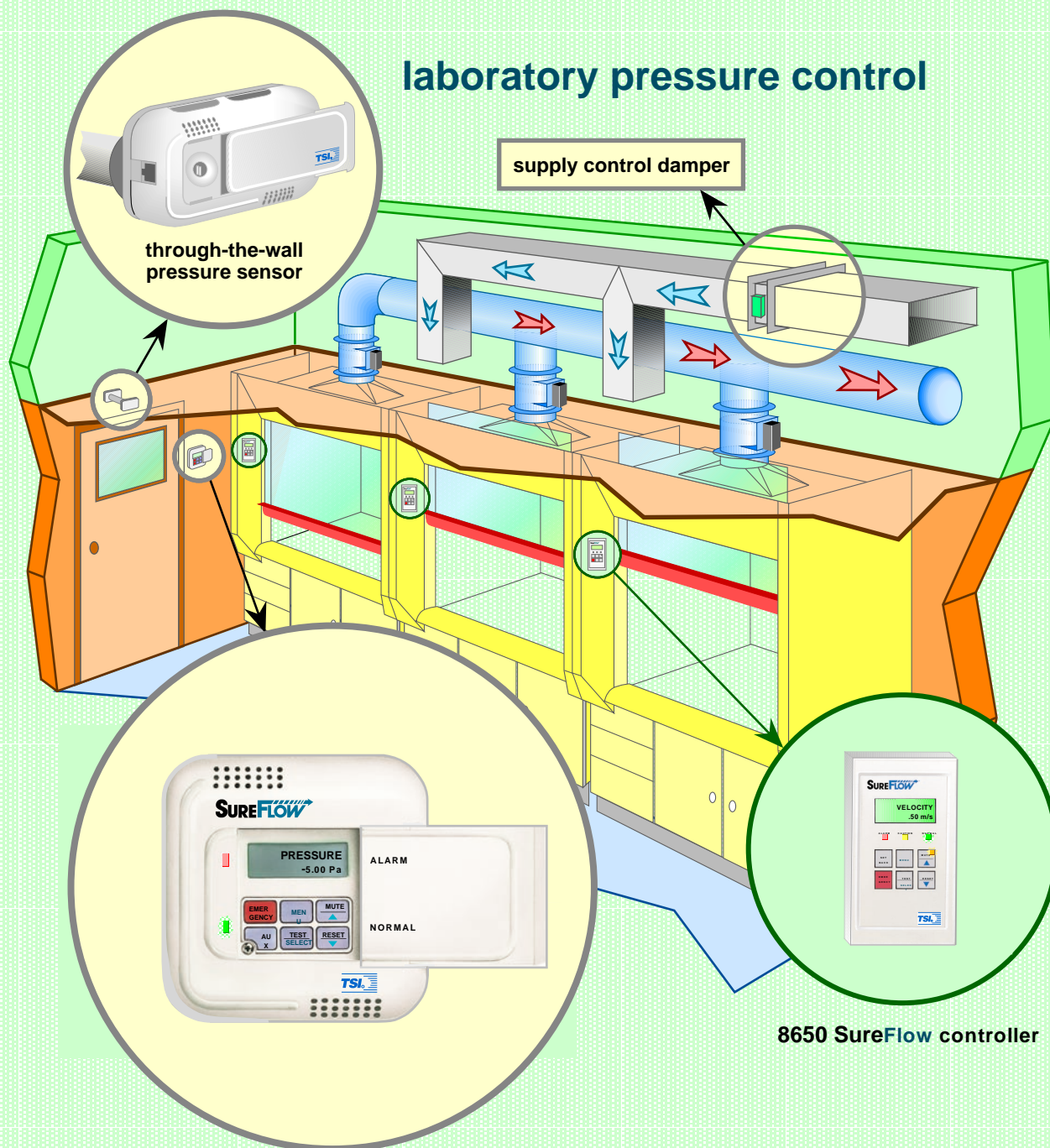


SUREFLOW[®]

laboratory control solutions

laboratory pressure control



Laboratory pressure is controlled by the 8635-C SureFlow controller as shown in the figure. The control system consists of the following main components:

- (a) digital control panel with built-in display and alarms
- (b) through-the-wall pressure sensor
- (c) supply control damper/actuator

The laboratory pressure with respect to a reference space (usually the write-up or corridor) is measured by the pressure sensor and its output signal is input to the 8635 controller. The 8635 controller compares the pressure signal with a set-point value and outputs a control signal to the actuator to adjust the supply damper so as to maintain the laboratory pressure at the set-point value. In this way, the laboratory supply air is reduced when the extract flow is reduced and vice-versa. An optional switch can be fitted on the door(s) between the laboratory and the corridor to ensure that when the door(s) is opened, the supply flow is maintained constant at the last value prior to door opening.

8635-C SureFlow controller

8650 SureFlow controller