

Table 10.1.: Components of Smoke Control and HVAC Systems

ITEMS	REQUIREMENTS
	<p>c. Where a smoke damper is installed within an air transfer opening in a wall, a spot-type detector listed for releasing service shall be installed within 1524 mm horizontally of the damper.</p> <p>d. Where a smoke damper is installed in a corridor wall or ceiling, the damper shall be permitted to be activated by a smoke detector in that corridor.</p> <p>e. Where a total-coverage smoke detector system is provided within areas served by a HVAC system, smoke dampers shall be activated by smoke detection system.</p>
10. COMBINATION (SMOKE/FIRE) DAMPERS	<p><u>1. GENERAL</u></p> <p>i. Where the smoke barrier is also constructed and serving as Fire barrier/ Wall, a combination (Smoke/Fire) Damper shall be installed for all Ducts and air-transfer openings penetrating such barriers/Walls.</p> <p><u>2. ACTUATION OF COMBINATION DAMPERS</u></p> <p>i. The actuating device operating temperature shall be approximately 50°F (10°C) above the normal temperature within the duct system, but not less than 160°F (71°C).</p> <p>ii. The actuating device operating temperature shall be not more than 350°F (177°C) where located in a smoke control system.</p> <p>iii. A combination of fire/smoke dampers installed in smoke control system shaft penetrations shall not be activated by a local area smoke detection unless it is secondary to the smoke management system controls.</p>
11. SMOKE CONTROL PANEL (SCP OR FIRE FIGHTER'S SMOKE CONTROL STATION)	<p>i. Whether it is a dedicated smoke control system or HVAC system configured to provide smoke control features, an approved, dedicated Smoke Control Panel shall be provided for the Smoke Control Systems for Fire fighter's controlled operation.</p> <p>ii. Such SCP shall be essentially located at the Emergency Command Center or the agreed and approved location where the Main Fire Alarm Control Panel is located.</p> <p>iii. The SCP (Smoke Control Panel) shall be with graphic displays, clearly depicting the building layout, location and working status of smoke-control systems and equipment such as Ducts, Fans and Dampers within the building, Smoke zones within the building etc.</p> <p>iv. The SCP should provide the control capability over all smoke-control system equipment or zones within the building to enable fire fighters to readily understand the operation of the system, to activate or isolate certain zones or individual equipment based on their judgment of the emergency situation.</p> <p>v. SCP shall essentially have a minimum of these features</p> <ol style="list-style-type: none"> Fan ON-AUTO-OFF Dampers OPEN-AUTO-CLOSE Visual indication of WHITE for Fans, Dampers-NORMAL Visual indication of RED for Fans-OFF, Dampers-CLOSED Visual indication of GREEN for Fans-ON, Dampers-OPEN Visual indication of AMBER for Fans-TROUBLE, Dampers TROUBLE <p>vi. The control functions of the SCP shall override any automatic functions in the Smoke Control System. See Section 6 for approval requirements.</p>