

Single Vertical Flame Spread Tester

수직불꽃전파시험기, SVF-938, IEC60332-1



Introduction

FESTEC's Single Vertical Flame Spread Tester is included in IEC 60332-1, IEC 60695-2-4-0 & 1 standards. This test use for method requires a set volume Chamber in standardized for source of ignition in electrical or optical, make stand straight of wires or cables vertically for the vertical arrange flame spread of the equipment.

Standard

- C IEC60332-1 : Tests on electric cables under fire conditions-Part 1 : Test on a single vertical insulated wire or cable
- C IEC60695-2-4-0 : Fire hazard testing - Part 2 : Test methods - Section 4/sheet 0 : Diffusion type and premixed type flame test methods
- C IEC60695-2-4-1 : Fire hazard testing - Part 2 : Test methods - Section 4/sheet 1 : 1kW nominal pre-mixed test flame and guidance
- KS C IEC60332-1 : Electricity cable of Flame-Resistance test-Part 1 : Insulated wire or cable for vertical arrange test
- KS C IEC60695-2-4-0 : Fire dangerousness test-part 2 : Test Methods - Part 4/00 section: Alloy diffused and line mixed mode flame test method
- KS C IEC60695-2-4-1 : Fire dangerousness test-part 2 : Test Methods - Part 4/1 section : Nominal 1kW mixed mode test of flame and directive

Feature

- Test Chamber's dimension is 300±25(W) x 450±25(D) x 1200±25(H), bottom surface of test chamber has a thickness of 12.7 mm of Lumi-Board
- Single Vertical Flame Tester's Burner used source of ignition(burner) is made from IEC 60695-2-4-1
- When during Calibration test, put Enclosure Box vertically. During testing, put specimen 45 degree angle
- Burner into the gas flow is 10±0.5L/Min for Air and 650mL/Min for Propane Gas. Also Air and Gas control for pressure of 0~7.5kPa.
- The correct gas flow control for using MFC(Mass Flow Controller-Option)
- Using switch and counter which is located Control Panel, it can check Calibration of Burner, Auto Ignition, After flame and After glow
- Software for verification of 175mm flame of 1kW calibration by IEC 60695-2-4-1 burner calibration method for reliable testing (DAQ System)

Test Result

- When between bottom of upper holder and burning start point distance is over 50mm, it is pass.
But, when it spread down over 540mm from bottom of upper holder, it is fail.

Specification

Model	FT-SVF-938
Size	1,050 × 500 × 1,900
Power	AC 220V, 50/60Hz, 10A
Weight	260kg
Exhaust	Min. 3 m ³ /min
Utilities	Propane Gas, Compressed Air, PC(Optional)