



Technical Specification

Installation

Zonecheck connects into a wet-pipe sprinkler system using two mechanical couplings (sized to match pipe diameter). Approved zonecheck equipment shall be installed throughout the property in accordance with the code standards for zoning.

Standards

In the majority of multi-occupancy sprinklered premises it is a requirement of NFPA 25 that for every fitted flow-switch a functional test should be carried out every quarter. Zonecheck can carry out this flow-switch test automatically at a preset time each week. Zonecheck is currently approved by Factory Mutual, Underwriters Laboratories. Underwriters Laboratories Canada.

Operating Principle

The zonecheck pump re-circulates water around the flow switch at a pressure equal to one sprinkler head discharging water (0.5 bar). As water operates the flow-switch paddle, an electronic signal is sent back to the keyswitch to indicate that the flow-switch has operated correctly. Throughout the whole process water is being re-circulated within the system and no water is discharged – zonecheck is a closed system.

Technical Detail

Zonecheck is supplied as an assembled unit to minimum schedule 10 pipe. Supplied with rolled ends, an end-end distance of 25.6" with a red paint finish. Zonecheck is available in the following pipe diameters: Ø 2", Ø 2 1/2", Ø 3", Ø 4".

Standard Specification

Working Pressure Rating	175 psi
Operating Temperature Range	0°C - 49°C (32°F - 120°F)
Compatible Pipe (Manifold Models)	Schedule 10, 2" - 4" diameter (6" & 8" available as special order)
Compatible Pipe (Retro-fit Models)	Schedule 10 and 40, 2" - 8" diameter
Component Connections	2 - 1" NPT/25mm British Standard, Thread elbows
Valves	Red: Standard valve, Green: Contains check valve



Electrical Specification

Circulation Pump

Approvals	UL, ULC, FM
Operating Voltage	120v 60Hz
Full Load Current	1.63 A
Power Rating	185 W
IP Rating	IP43

Water-flow Detector (Manifolds Models Only)

Contact Rating	Two sets of SPDT (Form C) 10.0 A, 1/2 HP @ 125/250 VAC 2.5 @ 6/12/24 VDC
Triggering Flow Rate	4-10 GPM
Static Pressure	250 psi
Operating Temperature	0°C - 49°C (32°F - 120°F)

Key Switch

Operating Voltage	ZCK-1; single-phase 120V-60Hz
Key switch Operation Modes	Self-test: Wired locally Group test: Interconnected
Key Switch LED Operation	Ready state: No LED
Test Initiation:	PUMP LED (green)
Flow Switch Activation:	Waterflow LED (green)
Full Load Current	1.63 A
Power Input (P1)	185 W
Rated Power (P2)	90 W
Capacitor	400 VDB

Mounting Options

Includes back box for surface or flush mounting.
For pre-wired, use 4 11/16" x 4 11/16" back box.

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