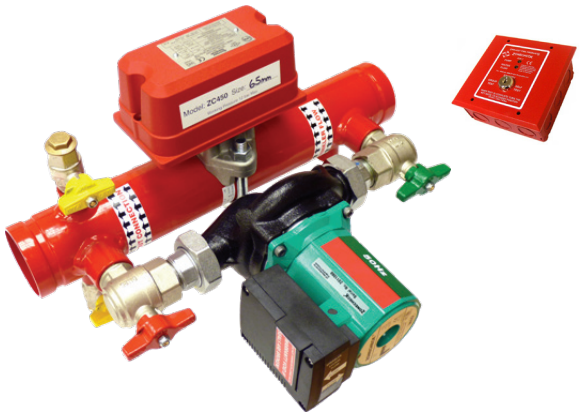
DATA SHEET | TECHNICAL

ZONECHECK*450*

green product



- ✓ 100% Water saving
- ✓ Simplicity of testing
- ✓ Massive cost savings

Overview

Zonecheck is a remote flow-switch testing device. It works by using a closed loop system that re-circulates water to simulate sprinkler head operation and tests the flow-switch without discharging water.

Specification

Zonecheck

Working pressure rating	max 15 bar (water)
Compatible pipe	2", 2½", 3", 4", 6"
Connections	Roll groove (both ends)
Installation	Horizontal *or* Vertical

Flow-switch

Triggering flow-rate	30-57 Litres/minute
Enclosure rating	IP54
Conduit entrances	Ø22.2 mm
Contact ratings	10 A @ 125/250V AC 2.5 A @24V DC
Operating temperature range	0-68°C (32-155°F)

Pump

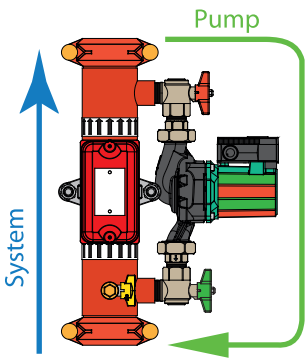
Approvals	LPCB, UL, FM and VdS
Operating Voltage	240v 50Hz
Full Load Current	0.88
Power Rating	185 watts
IP Rating	IP43
WP Rating	175 psi

Key-switch

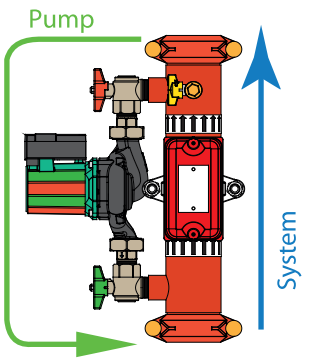
Operating voltage	Single-phase 240V-50Hz
Key switch operation modes	Self-test: Wired locally; Group test: Interconnected
Key-switch LED Operation	Ready state: No LED
Test Initiation	**PUMP** LED (green)
Flow Switch Activation	**WATER FLOW** LED (green)
Full Load Current	0.88 amps
Power Input (P1)	185 watts
Rated Power (P2)	90 watts
Capacitor	400 VDB

Ordering information

Part code	Pipe size mm (in")	Approx Weight (Kg)	
ZC450-50RH	50 (2")	11.5	*Right-hand version (standard)*
ZC450-65RH	65 (2½")	12	
ZC450-80RH	80 (3")	13	
ZC450-100RH	100 (4")	15	
ZC450-150RH	150 (6")	18	
ZC450-50LH	50 (2")	11.5	*Left-hand version*
ZC450-65LH	65 (2½")	12	
ZC450-80LH	80 (3")	13	
ZC450-100LH	100 (4")	15	
ZC450-150LH	150 (6")	18	



Left handed

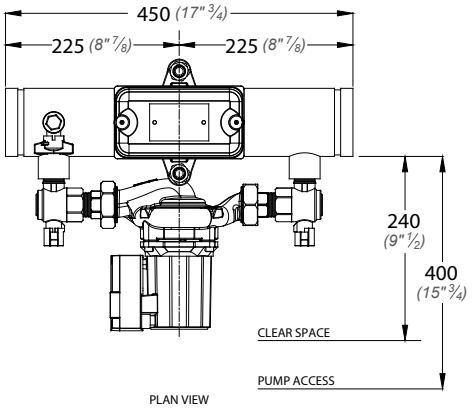


Right handed

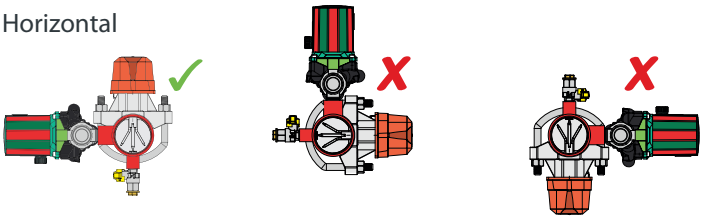
Installation

Zonecheck® connects into a wet-pipe sprinkler system using two grooved couplings (not included). When fitted correctly, the red and green stripes on the pump are always horizontal. On horizontal runs, the flow-switch must always be on the top of the pipe. For vertical flow applications, only mount Zonecheck where up-flow conditions exist.

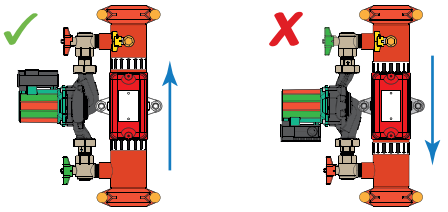
Dimensions



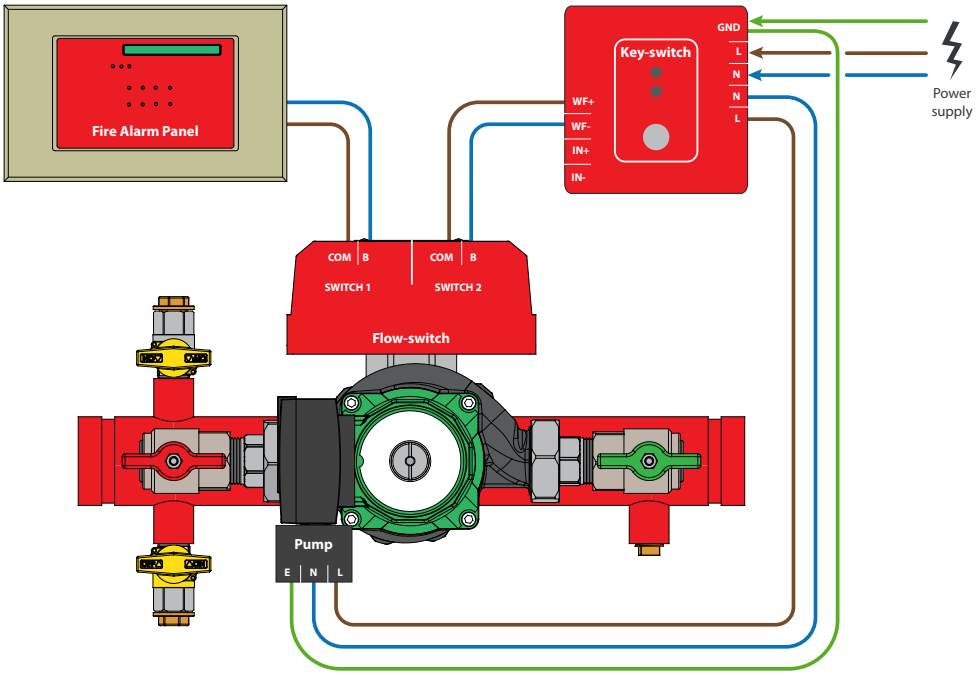
Horizontal



Riser



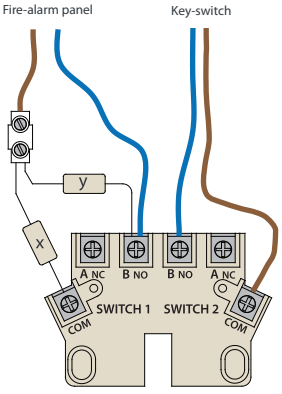
Wiring



Flow-switch wiring

Typical fire-alarm/flow-switch connection*. Refer to specific fire-alarm panel instructions for information.

x =fire/alarm resistor (usually 1Ω)
y = end of line resistor (usually 470Ω)



Flow-switch

*Typical arrangement only

Venting

Zonecheck will not work properly if air is trapped within the unit. Follow these simple steps to vent trapped air.



1. Notify building management of your actions.
2. Isolate alarms & main fire pump.
3. Have a suitable container or drain ready to catch any water.
4. Remove the vent plug from the uppermost yellow vent-valve on the Zonecheck®.
5. Attach a suitable connector & hose pipe to the uppermost yellow vent-valve on the Zonecheck®.
6. Carefully crack open the yellow vent-valve.
7. Keep yellow vent-valve open until all air is expelled and only water is coming from the vent (may take up to 10 minutes).
8. Shut the yellow vent-valve.
9. Remove the connector & hose pipe.
10. Carefully re-insert and tighten the vent plug.
11. Don't forget to contact building management & let them know when you have finished testing.
12. Where applicable, re-establish the alarms and main fire pump.

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