DATA SHEET

ZONECHECK 450

- Simple, quick & compliant flow-switch testing
- 100% Water Saving
- Remote testing from local key-switch

Overview

Zonecheck solves the problems associated with traditional flow-switch testing by removing the need to discharge water. A Zonecheck unit incorporates an approved flow-switch with a testing pump and circulation loop. When the pump is activated via the local key-switch, water is circulated across the flow-switch at a flow equivalent to one sprinkler head in operation (required by code standards). A successful test will trigger the flow-switch which is wired back to the key-switch to give a pass signal.

An Addressable version of Zonecheck is also available which means testing of flow-switches, along with many other functions such as monitoring of isolation valves can be managed from a central controller unit.

Zonecheck

Approvals................................. LPCB, UL, FM and VdS

Zonecheck Pump
Operating Voltage.................... 240v 50Hz
Full Load Current...................... 0.93 A
Power Rating............................ 195 watts
IP Rating................................. IP43
WP Rating................................ 12 bar (175 psi)

Flow-switch (Potter VSR-EU or System Sensor WFDE)
Contact Rating.......................... 10A @ 125/250 AC
Triggering Flow Rate............... 30-57 L/m
Static Pressure Rating.............. 17.25 bar (250 psi)
Operating Temperature..... 1°C – 68°C (32°F – 120°F)
Enclosure rating....................... IP54

Key-switch

Mains Power Supply............... Recommended 3A switched fused spur
Operating voltage................... Single-phase 220V-50Hz
Internal Consumption............ 7.5W maximum
LED indicator
Ready state............................... No LED
Test initiation........................... Pump LED (green)
Flow switch activation.......... Water Flow LED (green)

Operating modes.................... Self test: Wired locally
Group test: Interconnected

Dimensions (WxHxD)............ 134x134x61
Weight (unboxed)................... <1Kg
Mounting................................. Flush mounting

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 Remove the vent plug from the uppermost yellow vent-valve on the Zonecheck (have a suitable cloth, container or drain ready to catch any water)
4 Attach a suitable connector & hose pipe to the uppermost yellow vent-valve on the Zonecheck.
5 Carefully crack open the yellow vent-valve.
6 Keep yellow vent-valve open until all air is expelled and only water is coming from the vent (please note this may take up to 10 minutes).
7 Shut the yellow vent-valve. Remove the connector & hose pipe. Carefully re-insert and tighten the vent plug.
8 Don't forget to contact building management & let them know when you have finished testing.
9 Where applicable, re-establish the alarms and main fire pump.
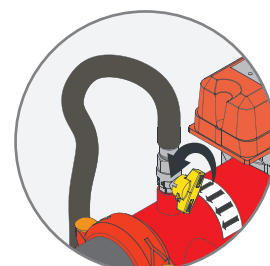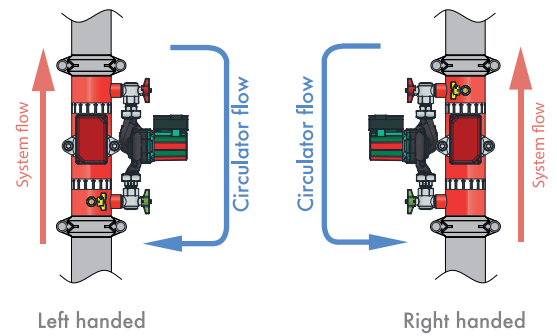
Zonecheck Dimensions
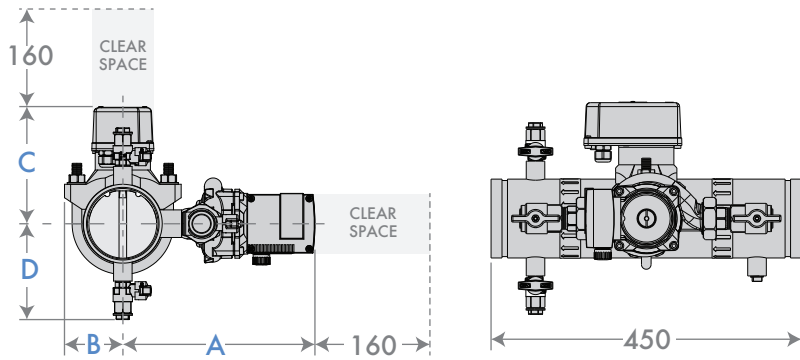
Part Code	Øin	Ømm	A	B	C	D	Weight (Kg)
ZC450-50RH	2″	50	256	58	145	116	14.0
ZC450-65RH	2½″	65	264	58	155	124	14.2
ZC450-80RH	3″	80	271	66	165	130	15.3
ZC450-100RH	4″	100	283	86	170	140	17.1
ZC450-150RH	6″	150	309	113	200	168	22.1
ZC450-200RH	8″	200	336	148	235	195	28

[Left hand - LH - models available on request]

Orientation

View from above

Left handed

Right handed
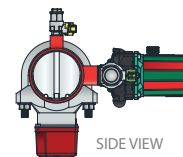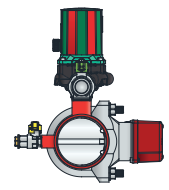
Installation
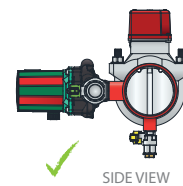
✓ SIDE VIEW
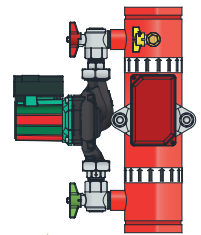
✓ PLAN VIEW

✗ Flow-switch on underside of pipe

✗ Pump not horizontal

SIDE VIEW

SIDE VIEW

Wiring

Fire Panel

for single-occupancy buildings, group key-switches via Interconnect

Key-switch

POWER SUPPLY

NO | COM   COM | NO
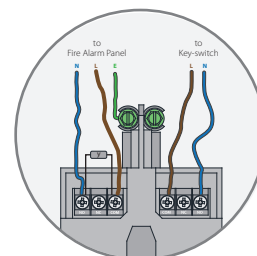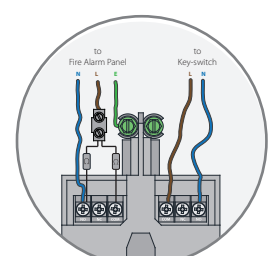
Flow-switch

Pump
L | G | N
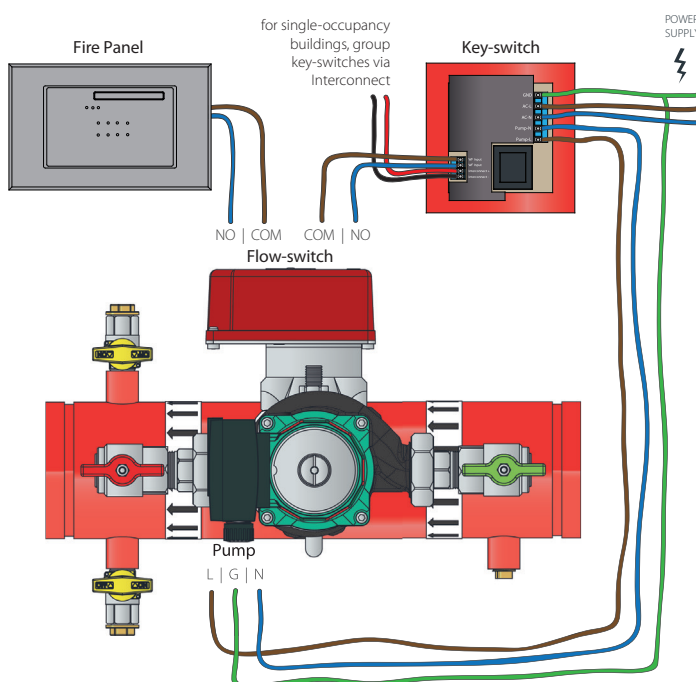
Typical fire-alarm/flow-switch connections. Exact wiring required depends on type of fire panel used. Refer to specific fire-alarm panel instructions for information/guidance.

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

to Fire Alarm Panel   to Key-switch

TYPICAL 1

to Fire Alarm Panel   to Key-switch

TYPICAL 2