



Zonecheck

Technical guide to pump modifications.

1 DIMENSIONS

The Para 8 is a physically smaller pump than the Top-S as can be seen in the picture. The exact dimensions can be seen below.

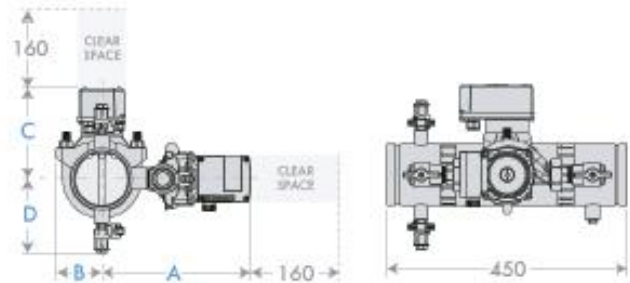
The pump casting is the same length (inlet to outlet) and the same diameter. This means that pumps can be replaced on older models (see page 5).



New Pump
(Para 8)

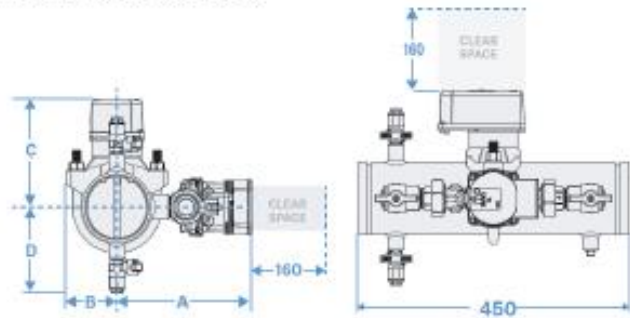
Old Pump
(Top-S)

Old Pump (Top-S)



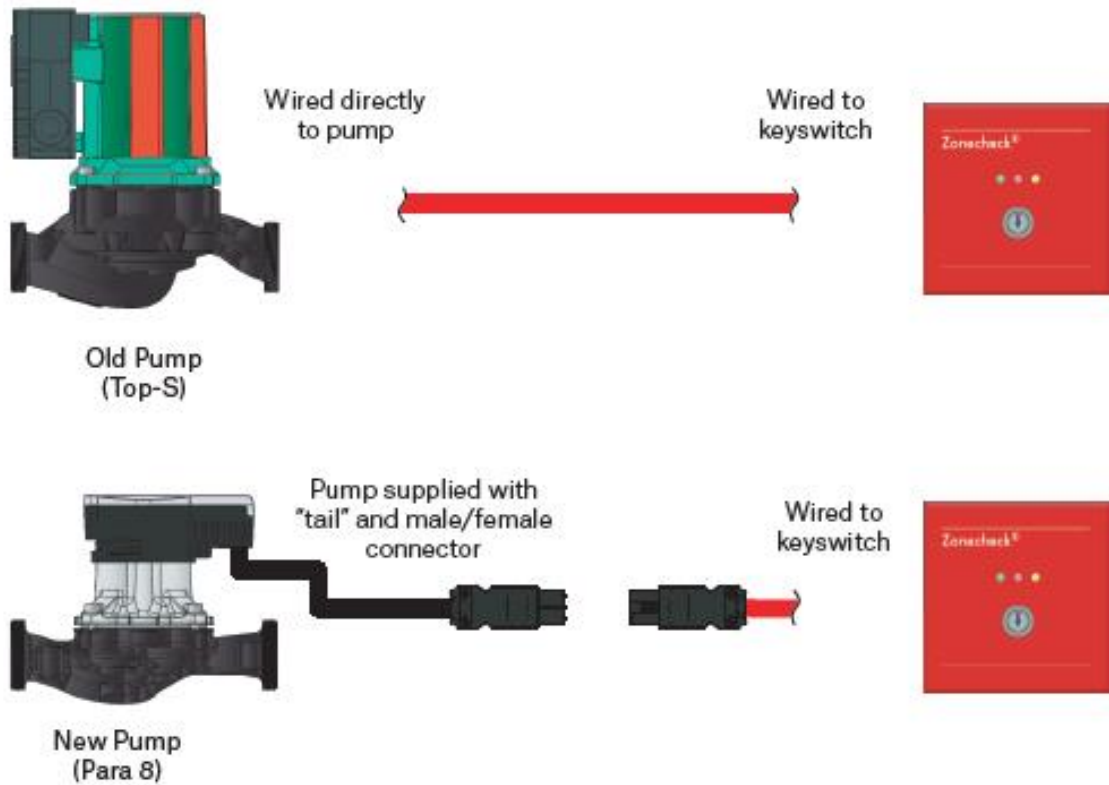
Øin	Ømm	A	B	C	D
2"	50	256	58	145	116
2½"	65	264	58	155	124
3"	80	271	66	165	130
4"	100	283	86	170	140
6"	150	309	113	200	168
8"	200	336	148	235	195

New Pump (Para 8)



Øin	Ømm	A	B	C	D
2"	50	210	66	145	116
2½"	65	215	66	155	124
3"	80	220	85	165	130
4"	100	225	85	170	140
6"	150	250	115	195	170
8"	200	275	150	225	195

2 WIRING



The Top-S pump was wired directly into a plastic housing on the side of the pump. The new Para 8 will be supplied with a short "tail" and a male/female connector (see picture). The installer will firstly site the key-switch at an appropriate location and then wire from the key-switch to the female side of the connector assembly.



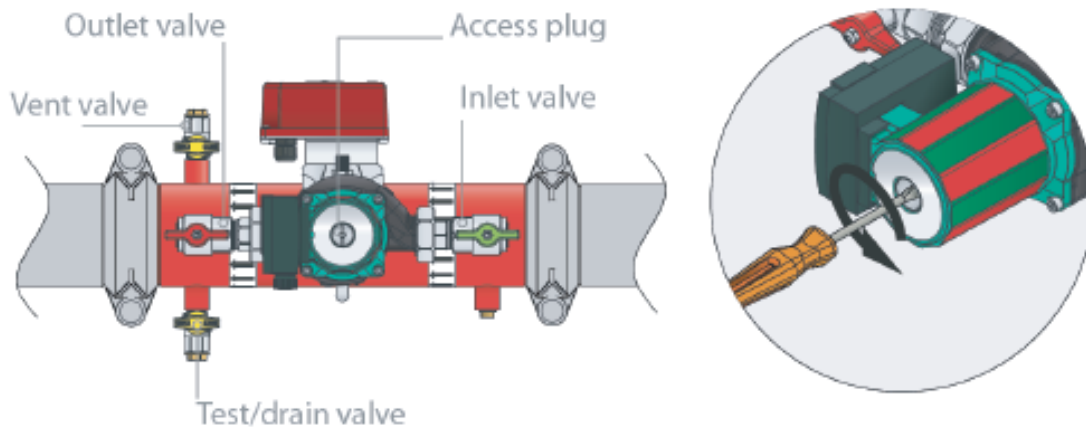
3 VENTING

The Top-S pump could be vented through a seal at the end of the pump motor assembly. The new Para 8 pump can no longer be vented in this way as there is no access point in the motor assembly. However, Zonecheck has always including a vent (and drain) valves as part of the assembly so the Zonecheck can easily be vented via this means instead.

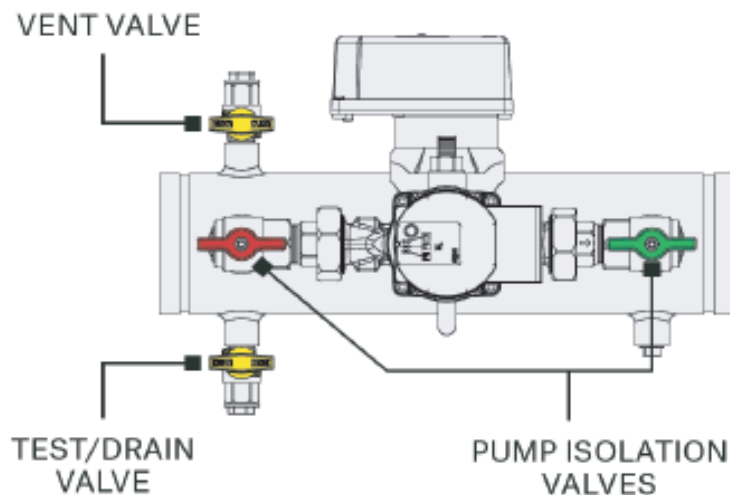
Venting is an important process to ensure that the pump works efficiently and trips the flow-switch. Venting is only required when the Zonecheck is installed horizontally and once the pipework is vented, it is unlikely to require further venting unless the pipework is drained and the water replaced.

The new Para 8 pump is designed to be less sensitive to pockets of air within the water.

Old Pump (Top-S)



New Pump (Para 8)



4 TECHNICAL SPECIFICATIONS

The new Para 8 pump is a more efficient design and so has a lower power rating than the Top-S version. The performance of the two pumps is very similar and flow rates are controlled via the use of orifice plates built into the Zonecheck assembly. Please see the specifications below.

Pump

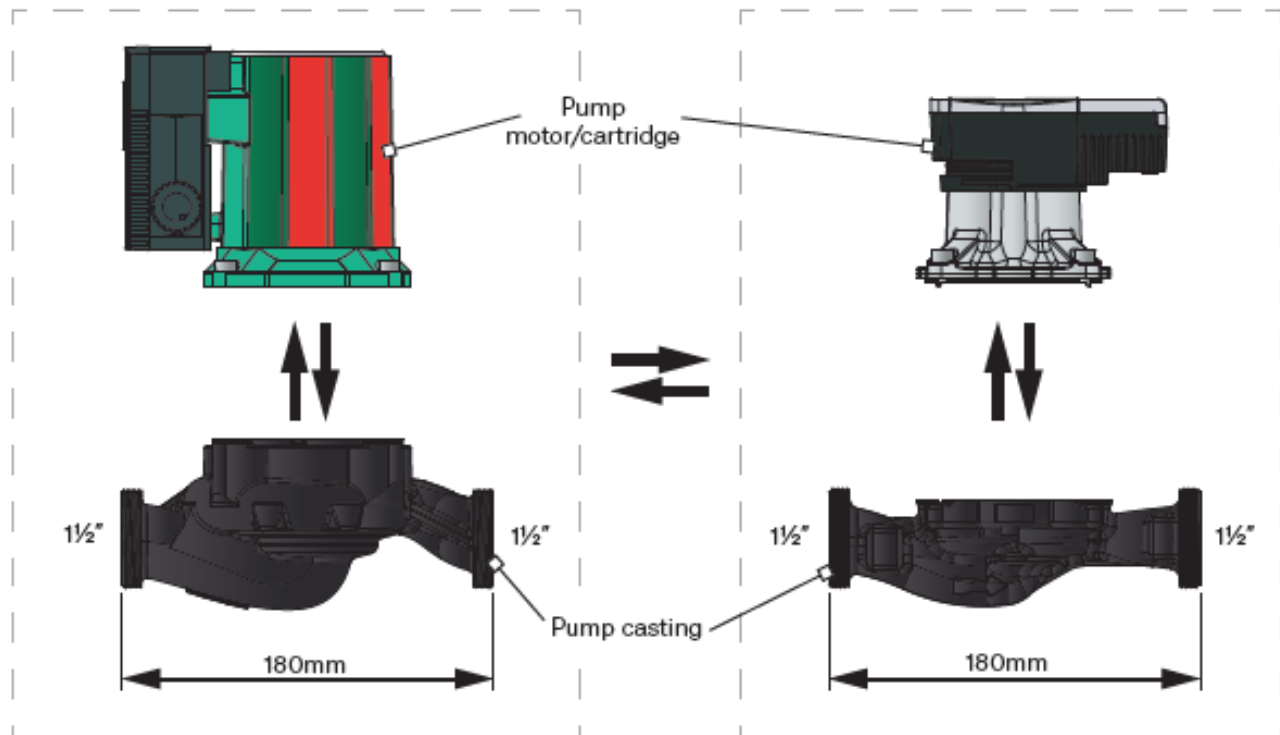
Type..... Wilo Top-S
Operating Voltage..... 230v 50Hz
Imax..... 0.93 A
Max Power Rating..... 195 W
IP Rating..... IP43

Pump

Type..... Wilo Para
Operating Voltage..... 230v 50Hz
Imax..... 0.82 A
Max Power Rating..... 75 W
IP Rating..... IPX4D

The max working pressure of Zonecheck remains the same as before at 12bar (with testing pressure of 18bar). This will be clearly labelled on the Zonecheck unit in a similar way to before. The pump itself is labelled as PN10 by the manufacturer but this pump (within the overall Zonecheck assembly) has gone through all of the rigorous tests from third party approval bodies as the previous model including static pressure testing to over 40bar.

5 REPLACEMENT OF PUMPS



The Top-S pump has proven itself to be an extremely reliable pump which has typically given 20+ years of service if used regularly. We fully expect this new model to provide similarly excellent durability based on the life-cycle testing performed by the manufacturers and in-house at Project Fire.

If the pump does need to be replaced then there are two main ways to do this:

1. Replace the pump motor only which is the easiest method.
2. Replace both the pump motor and casting as an entire pump replacement.

It is important to note that the Top-S motor is not compatible with the Para 8 casting and neither is the Para 8 motor compatible with the Top-S casting. However, an entire Top-S pump (motor and casting) can be replaced with an entire Para 8 pump (motor as casting).

Project Fire will naturally hold a stock of Top-S pumps for maintenance purposes but once these have been used up, older Zonechecks that require a replacement pump will have to replace both the motor and casting to the Para 8.

Zonecheck® product and support is available from:-

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