



INSTANT MATCH®

SDS236T (755.699 / 755.678) Instant Match Transformer



QUICK CONNECT GUIDE

 **Bluetooth®**
WITH
Active Link



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Bluetooth® wireless technology

A wireless Bluetooth connection may be used to allow the SDS236T (755.699 / 755.678) Whale Instant Match® transformer to communicate with the Mira Advance Flex Extra (J09Nn or J09N) shower without the use of a physical hardwired connection or external flow sensor to activate the pump. To set up the wireless connection, please follow the process below.

For Mira Flex Extra Advance (J09N) showers manufactured after Week 2 2019 and those manufacturer prior to this date. The production date label is located on the base of the shower.



Important Information



WARNING

Please read the following information before setting up a *Bluetooth*® wireless technology connection between the Whale Instant Match® transformer and Mira® Advance Flex Extra (J09Nn or J09N) shower:

- The electrical wiring must conform to EU wiring regulations BS7671: 2018 (18th Edition).
- The Bluetooth® function of the Whale Instant Match® transformer will **only work** with the Mira® Advance Flex Extra (J09Nn or J09N) shower.
- For optimum signal strength, mount the transformer within 5 metres of the shower within the same room.
- Locating the transformer outside of a 5 meter radius or in a different room can cause a communication breakdown between the transformer and shower, resulting in intermittent or complete failure to operate.
- The Bluetooth connection is only to be used where the transformer is installed in the bathroom with the shower. Where the transformer is installed in a boxing only plastic access panels are to be used.
- A hardwired connection must be established if a Bluetooth® wireless technology connection cannot be made between the shower and transformer.
- If any component or cord is damaged, it must be replaced by a qualified person to avoid a hazard.



**Mira Advance
Flex Extra - J09Nn or J09N**

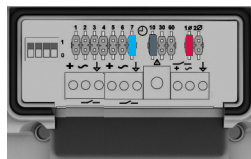
Set Up

1. Shower and Transformer settings

- Before starting the Bluetooth® pairing process, please ensure that the "BLE Pump Enable" switch inside the front cover of the Mira® Advance Flex Extra has been set to the "ON" position, and that the "Wired Pump Mode" and "Reserved 2" switches remain in the "OFF" position as per the diagram shown.
- At this stage, please ensure that your transformer is set to position 7 for "Bluetooth" and the pipe inlet diameter must be set to 1 for 15mm.



OFF	ON	
1		BEAB CARE MODE
2		43 DEG C
3		45 DEG C
4		RESERVED 1
5		ECO
6		RESERVED 2
7		BLE PUMP ENABLE
8		WIRED PUMP MODE



**Whale
Transformer
Settings**

Blue Jumper - Sensor Position 7
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe Inlet 15mm

Pairing Process

1. Transformer set up

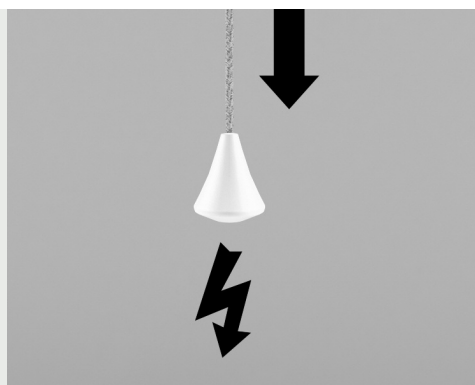
- Switch the mains electric supply to the transformer **ON** and wait to hear the audible beep from the transformer. The light on the transformer will now flash red to indicate that a Bluetooth® connection has not yet been established.
- Press and HOLD the blue test button on the transformer until the light flashes red and green to indicate that the transformer is now in pairing mode.

NOTE: You now have 120 seconds to pair the transformer to the shower.



2. Configuring the shower

- Turn on power to the shower using the pull cord.
- This will automatically pair the shower and pump.



Pairing Process - Pre Week 2 2019 (02/19). Pairing setup for Mira Advance Flex Extra J09N Manufactured prior to Week 2 2019

1. Transformer set up

- Switch the mains electric supply to the transformer **ON** and wait to hear the audible beep from the transformer. The light on the transformer will now flash red to indicate that a Bluetooth® connection has not yet been established.
- Press and **HOLD** the blue test button on the transformer until the light flashes red and green to indicate that the transformer is now in pairing mode.

NOTE: You now have 120 seconds to pair the transformer to the shower.



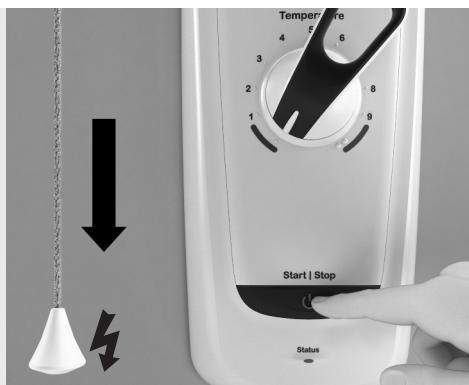
2. Shower set up

- Ensure that the electric supply to the shower is turned **OFF**. Then turn the dial on the shower to **FULL COLD**.

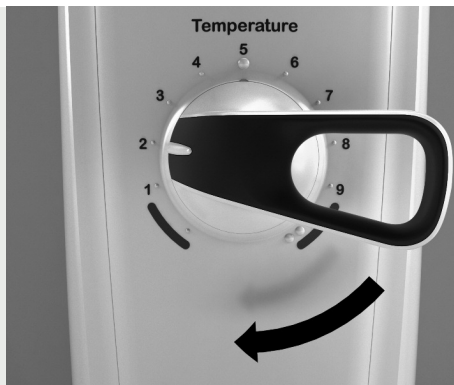


3. Configuring the shower

- Switch the mains electric supply to the shower **ON**, Start/Stop button will illuminate.
- Within **10** seconds press and **HOLD** the Start/Stop button on the shower until the Start/Stop light on the black button goes off.

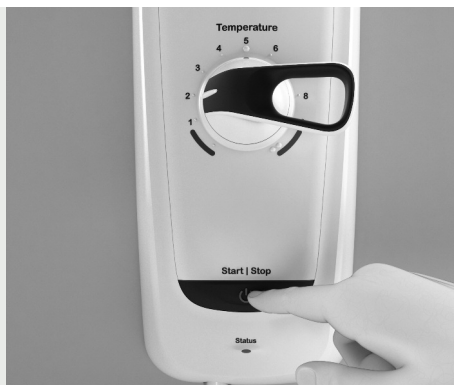


4. Slowly turn the dial on the shower to position 2



5. Pairing the shower to the Whale Instant Match® transformer

- Press and release the start/stop button on the shower.
The status light on the shower will now flash **blue** to indicate that the shower is in pairing mode.
- The status light on the shower will then flash white and you will hear an audible beep from the shower to indicate that the transformer has successfully been paired to the shower.
- The Whale® transformer will flash green only to indicate that it is paired to the Mira® shower.



6. Completing the pairing

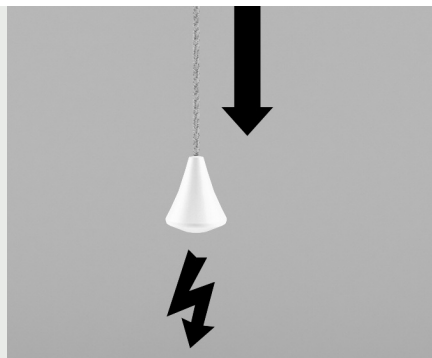
- Turn the temperature control to full cold and press the Start/Stop button on the shower. The shower will now return to normal standby mode.
- You may now follow the "Post Installation Procedure" in the Mira® Advance Flex Extra (J09N) Instruction Manual (page 25) if necessary.



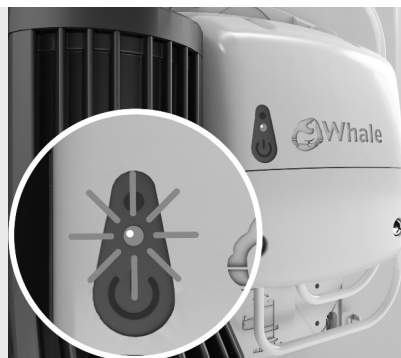
Unpairing the transformer from the Mira Advance Flex Extra shower (J09Nn or J09N)

Service work that may need to be carried out on the Mira® Advance Flex Extra (J09Nn or J09N) shower e.g. the renewal of the control PCB board may require the Bluetooth® wireless technology connection between the shower and Whale Instant Match® transformer to be terminated and paired again. To unpair the transformer from the shower, please follow these steps.

1. Switch the mains electric supply to the shower OFF



2. Be sure to leave the mains electric supply to the pump ON. The light on the transformer will flash blue



3. Remove the red jumper from the 'pipe diameter' setting on the transformer. Press and hold the test button and wait for an audible beep, indicating unpairing is complete. The light on the transformer will flash red. The transformer has now been unpaired. See section below for unpairing the shower.

NOTE: Replace red jumper after light flashes red to enable re-pairing. To pair the shower to the transformer again, please follow the Bluetooth® wireless technology setup procedure.


















Unpairing the Mira Advance Flex Extra shower (J09Nn or J09N) from the transformer

In cases where the Mira shower needs to be paired to a new transformer or re-paired with an existing transformer, the following steps to unpair the shower must be taken.

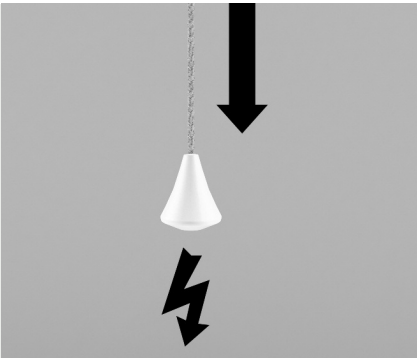
1. Unpair transformer and shower

- Isolate power from Mira shower
- Remove front cover from Mira shower
- Move DIP switch 'BLE PUMP ENABLE' to 'OFF' position (see opposite)

OFF		ON		
1		2		BEAB CARE MODE
2		3		43 DEG C
3		4		45 DEG C
4		5		RESERVED 1
5		6		ECO
6		7		RESERVED 2
7		8		BLE PUMP ENABLE
8				WIRED PUMP MODE
















2. Power cycle shower

- Replace front cover
- Turn power on to Mira shower



3. Pair transformer and shower

- Isolate power from Mira shower
- Remove front cover from Mira shower
- Move DIP switch 'BLE PUMP ENABLE' to 'ON' position (see opposite)
- Replace front cover
- The shower is ready to be paired with Whale transformer

OFF		ON		
1		2		BEAB CARE MODE
2		3		43 DEG C
3		4		45 DEG C
4		5		RESERVED 1
5		6		ECO
6		7		RESERVED 2
7		8		BLE PUMP ENABLE
8				WIRED PUMP MODE

Where a Bluetooth® connection cannot be established between the transformer and shower, a hardwired connection may be used (on compatible showers) to activate the pump. The hardwired connection allows the transformer and shower to communicate by means of a physical wired connection, eliminating the need for an external flow sensor. Compatible showers and their pump connections may be found below.

Wired Connections to the Whale Instant Match® Transformer



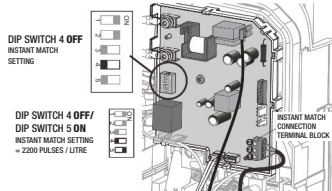
Triton Hardwired Connections

Triton® Omnicare Design DIGI,
Omnicare Ultra Plus DIGI
Wired Connections to the Whale
Instant Match® Transformer

NOTE: For 755.699 transformers (with a fourth dip switch on the transformer), ensure the fourth dip switch is in the UP position as shown.



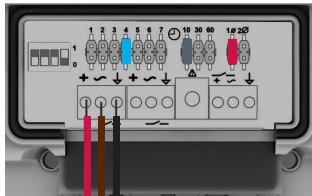
Triton® Shower Connections and Settings



Connect the control wire from the Whale Instant match as below:

- 1 - +5V (Red)
- 2 - 0 V (Black)
- 3 - Signal (Brown)

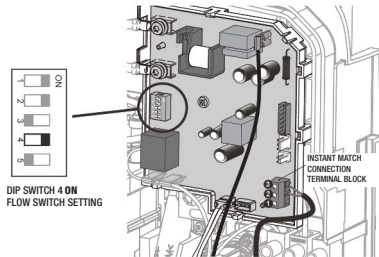
Whale® Transformer Settings



- Blue Jumper - Sensor Position 4
- Grey Jumper - Over run 10 Seconds
- Red Jumper - Pipe inlet 15mm

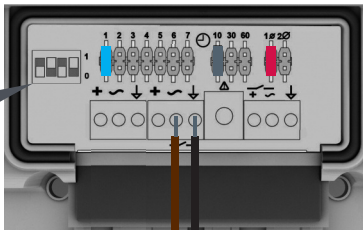
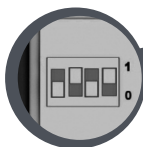
Flow switch compatible shower connections

Triton®
Flow Switch compatible shower connections Triton Omnicare, Omnicare Design, Omnicare Ultra, Omnicare Ultra Plus, Omnicare SR Pumped Electric



Whale® Transformer Settings

Dip Switches



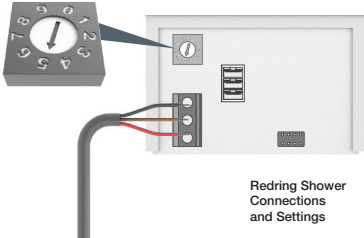
- Flow rates are nominal values only. This will vary depending on pipework.

Redring Hardwired Connections

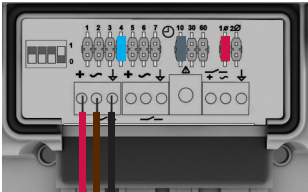
Redring® Selectronic WP (RSEL85WPC or RSEL95WPC)

Wired Connections to the Whale
Instant Match® Transformer

Redring® Shower Connections and Settings



Redring Shower
Connections
and Settings



Whale® Transformer Settings

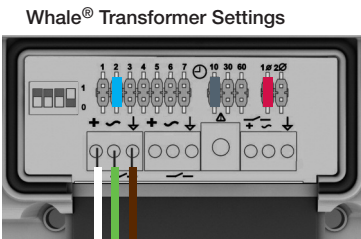
Blue Jumper - Sensor Position 4
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm



Whale Instant Match® Transformer Flow Sensor Connections

An external flow sensor should be used where a shower is not compatible with a Bluetooth® wireless technology or hardwired connection to activate the pump. Compatible flow sensors and their connections to the transformer are listed below.

Sika® Sensor Connection



Blue Jumper - Sensor Position 2
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm

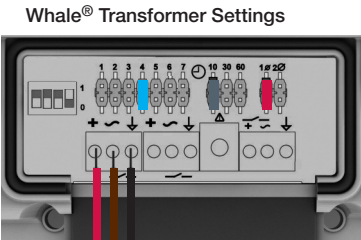
NOTE: For 755.699 transformers (with a fourth dip switch on the transformer), ensure the fourth dip switch is in the UP position as shown.



Sika® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

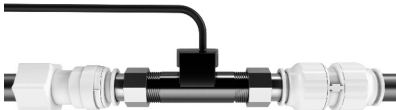
Gems® Sensor Connection



Blue Jumper - Sensor Position 4
Grey Jumper - Over run 10 Seconds
Red Jumper - Pipe inlet 15mm

NOTE: For 755.699 transformers (with a fourth dip switch on the transformer), ensure the fourth dip switch is in the UP position as shown.

There are two versions of Gems® flow sensor: 1000 pulses per litre (ppl) and 2200 ppl.
Blue jumper position 3 = 1000 ppl
Blue jumper position 4 = 2200 ppl (shown below)



Gems® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Whale Instant Match® Transformer Flow Switch Connections

In a situation where a Bluetooth® wireless technology or hardwired connection with the shower cannot be established, or a suitable flow sensor has not been fitted, the Whale SDS236T Instant Match transformer can be used with an AK1568 flow switch to activate the pump.

Electric Shower Settings

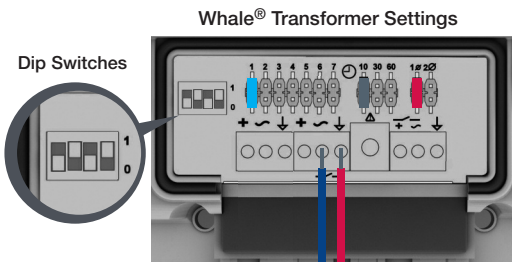
- Step 1: Turn Dip switch 2 to the 'ON' position.
- Step 2: Move red jumper to pipe size '1' for 15mm inlet pipe.
- Step 3: Move the blue jumper to increase or decrease the pump speed as required, using the table below as a guide.
- Step 4: Move the grey jumper to increase or decrease the pump overrun if necessary.

Jumper Position	Flow Rate (LPM)
1.	4.5 - As shown opposite
2.	5.0
3.	5.5
4.	6.0
5.	6.5
6.	7.0
7.	7.5

- Flow rates are nominal values only.
This will vary depending on pipework.



Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.



Whale Instant Match® Transformer Flow Switch Connections Cont'd

Mixer Shower Settings

- Step 1: Turn Dip switch 2 to the 'ON' position.
- Step 2: Move red jumper to pipe size '2' for 22mm inlet pipe.
- Step 3: Move the blue jumper to increase or decrease the pump speed as required, using the below table as a guide.
- Step 4: Move the grey jumper to increase or decrease the pump overrun if necessary. 30 is the recommended setting for use on mixer showers.

Note: An additional flow switch is available in the AK1570 Mixer Valve Conversion kit (sold separately).

Flow Switch x 2

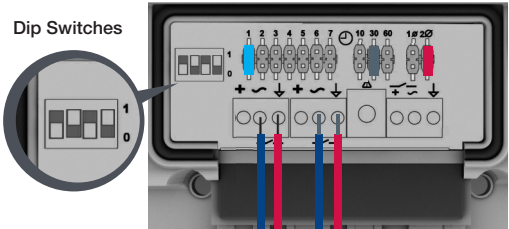


Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Jumper Position	Flow Rate (LPM)
1.	7.5 - As shown opposite
2.	8.0
3.	8.5
4.	9.0
5.	9.5
6.	10.0
7.	11.0

- Flow rates are nominal values only. This will vary depending on pipework.

Whale® Transformer Settings



- Blue Jumper - Sensor Position 1
Grey Jumper - Over run 30 Seconds
Red Jumper - Pipe inlet 22mm

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