Innovation In and
Out of Parlour

Air Blast Mk2 Manual

Date - May 2019

Part Number - 39-0151

Manual Versions

Version 1.00 - August 2011.....First version of manual

Version 1.01 - March 2012.....Added information on Start Up Mode

Version 2.10 - May 2019.....Updated manual part numbers

About the Air Blast Control

The ATL Air Blast Control has been designed to significantly assist in the thorough cleansing of large bore vacuum milk pipes. The principle of operation although simple, is very effective. During the cleaning process, a small amount of cleaning solution or rinsing water is drawn into the milk pipe by a vacuum. One end of the pipe- furthest away from the vacuum source- is terminated in a solenoid valve- normally closed- one side of which is open to the atmosphere.

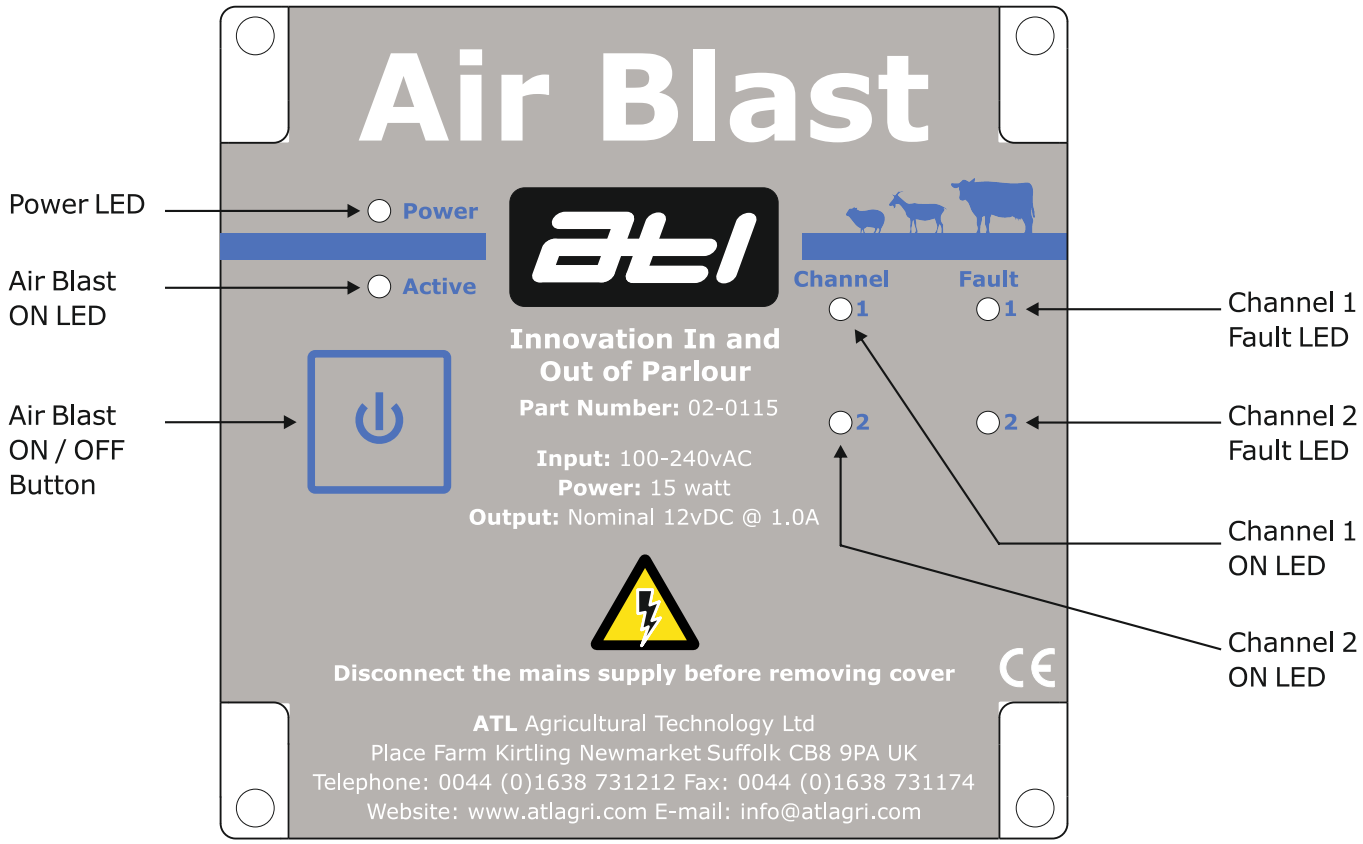
The Air Blast Control opens and closes the solenoid valve; when it opens the sudden inrush of air forces the cleaning solution up and around the walls of the milk pipe and into the milking point tap-offs ensuring that areas not normally in contact with the solution are covered and cleaned. The process is automatically repeated at intervals during the cleaning cycle by adjusting the settings on the Air Blast Control.

The Control has two independent channels and may be used in parlours with single, loop or branch milk lines

Specifications

- Input Voltage: *100 - 240volts AC, 47-63Hz*
- Input Protection: *Over voltage and over temperature protection*
- Output Voltage: *Nominal 12volt DC*
- Output Protection: *1A 20mm fuse*
- Output Connectors: *Switched negative for each channel and 2 common positives*
- Channel Indicator: *LED for each channel which illuminates when output ON (see below)*
- Solenoid Valves: *Maximum of 0.5amps per solenoid valve*

Front Cover



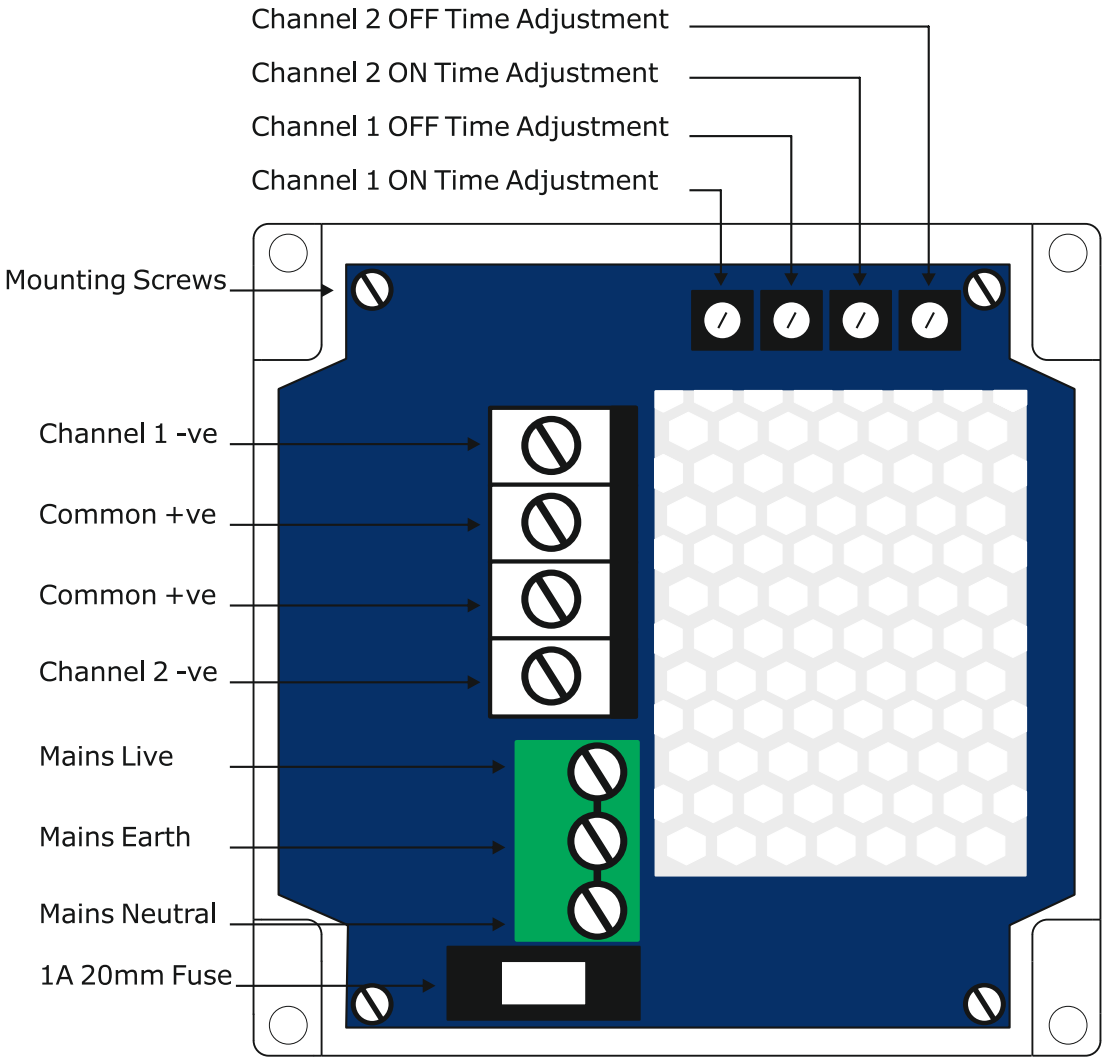
Installing the Air Blast Control

Firmly screw the enclosure to a vertical wall with the cable glands facing downward. Avoid side cable entry and never use top entry. The Control requires a 100 - 240volt AC 47-63Hz mains electricity supply derived from an accessible, switched, fused outlet fitted with a 3amp anti-surge fuse. Do not use a 13amp plug and socket. The Control is internally fused with a 20mm 1amp anti-surge fuse on the DC output.

The solenoid valves must be of the normally closed type rated at 0.5amps maximum 12volts DC. The negative lines are switched and so the positive supply may be looped from one valve to the other, or connected seperately.

Good Installation Practice

- A separate mains supply and earth running directly from the consumer meter is essential.
- Avoid routing the mains cable to the air blast close to other supplies especially those providing intermittent current-motors that are starting and stopping continually or high power heaters with thermostatic control.

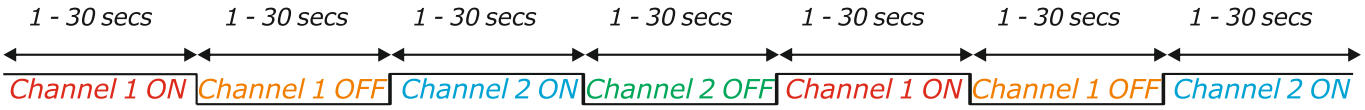


Notes

Mounting screws have M3 washer between printed circuit board (PCB) and lid mount. If not installed, ON / OFF button will not function.

Mains input voltages 100-240vAC 47-63Hz

Setting Up the Timings



- The solenoid valve ON time is adjustable between 1 and 30 seconds independently on each channel
- The solenoid valve OFF time is adjustable between 1 and 30 seconds independently on each channel.
- The solenoid valve ON time depends on the duration of the cleaning cycle, the volume of water in the pipes and their diameter.
- Start cleaning the system with the two OFF time controls set to the midway point and the two ON time controls fully anticlockwise in the minimum time position.
- Turn the Air Blast Control on and adjust the controls so that as soon as a pipe is purged of water, the solenoid valves shut off.
- Ensure that the OFF period allows the vacuum in the milk lines to build up sufficiently.

Changing the Start Up Mode

- Please refer to the diagram on page 2.
- On start up the Air Blast is factory set to be OFF (i.e. the Air Blast is not active).
- If the Air Blast is required to start up in the ON state (i.e. the Air Blast is active), press and hold the ON / OFF button until the Active LED flashes.
- To return the Air Blast to start up in the OFF state, press and hold the ON / OFF button again until the Active LED flashes.