AIR BLAST CONTROL INSTALLATION

Version - October 2009

Part Number - 39-0150

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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 branck milk lines

Air Blast Specifications:

- **Input Voltage:** 230volts AC, 50Hz, fused at 10amps.
- **Input Protection:** 3amp mains fuse.
- **Output Voltage:** 12volt DC.
- **Output Protection:** 1amp fuse.
- **Output Connectors:** Terminal blocks: 2 channels.
- **Channel Indicator:** LED to each channel on the side of enclosure which illuminates when output ON.
- **Solenoid Valves:** A maximum of 1amp per channel or 0.5amps per solenoid valve.

GOOD PRACTICE: Mains Supply:

- A separate mains supply and earth running directly from the consumer meter is essential.
- Avoid routing the mains cable to the power supply close to other supplies especially those providing intermittent current- motors that are starting and stopping continually or high power heaters with thermostatic control.
- Terminate in a sealed, fused, double pole switched outlet fitted with a 13Amp (Type 1362) fuse or trip. A 3-pin ring main socket is not suitable in parlour conditions. All mains cabling must be contained in a firmly secured durable conduit.

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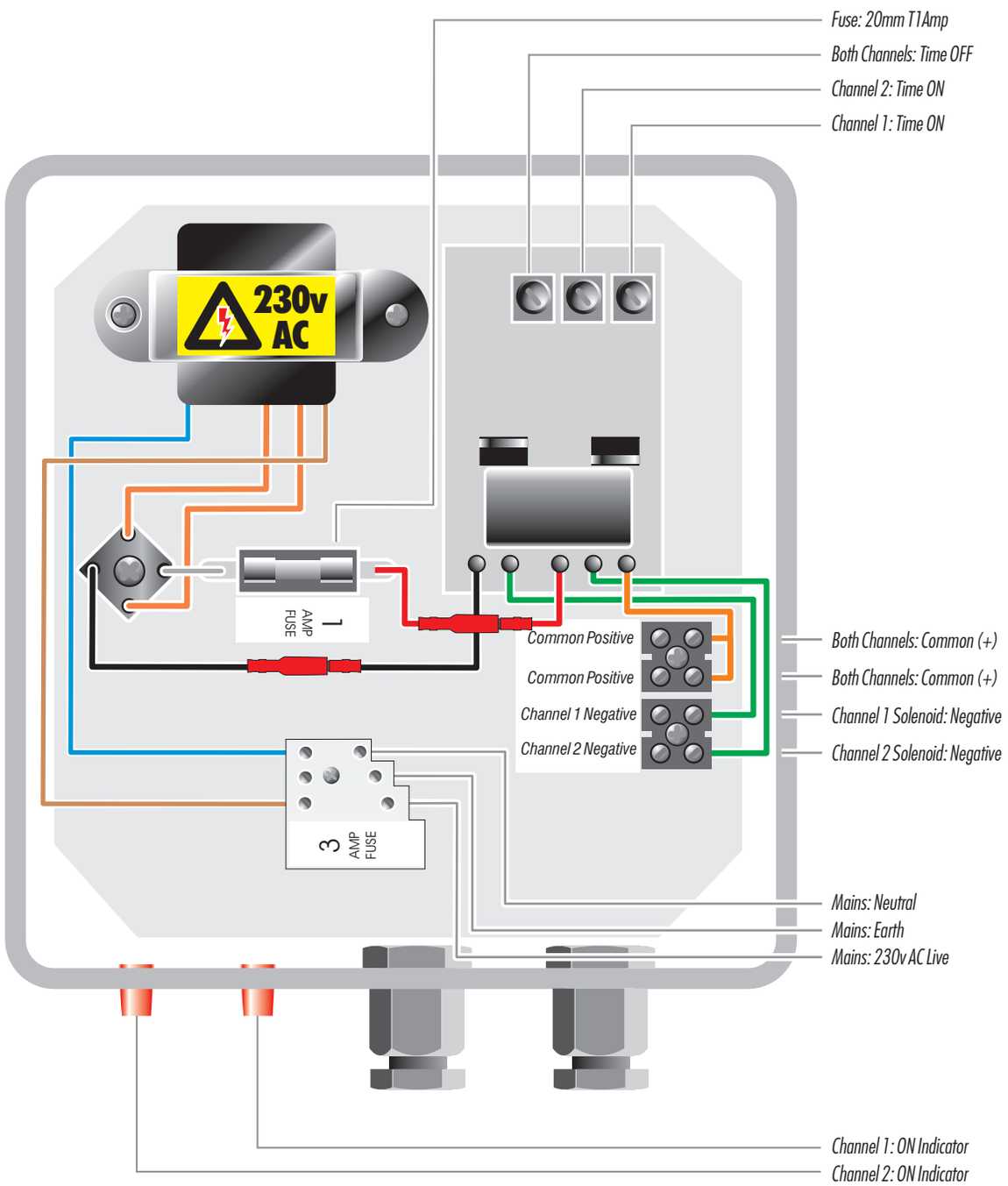
Installing the Air Blast

Firmly screw the Control to a vertical wall with the cable glands facing downward. Avoid side cable entry and never use top entry. The Control requires a 230volt AC 50Hz 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 to the DC outlet.

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



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Setting Up the Air Blast

- The solenoid valve ON time is adjustable between 1.5 and 6.5 seconds independently on each channel; the OFF time is common to both.

- 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 OFF time control 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 shuts off.
- Ensure that the OFF period allows the vacuum in the milk lines to build up sufficiently.