



Hydra ADE24/TX

Automatic Anti-Algae System

Fitted in Minutes - Works on Contact - Lasts For Years

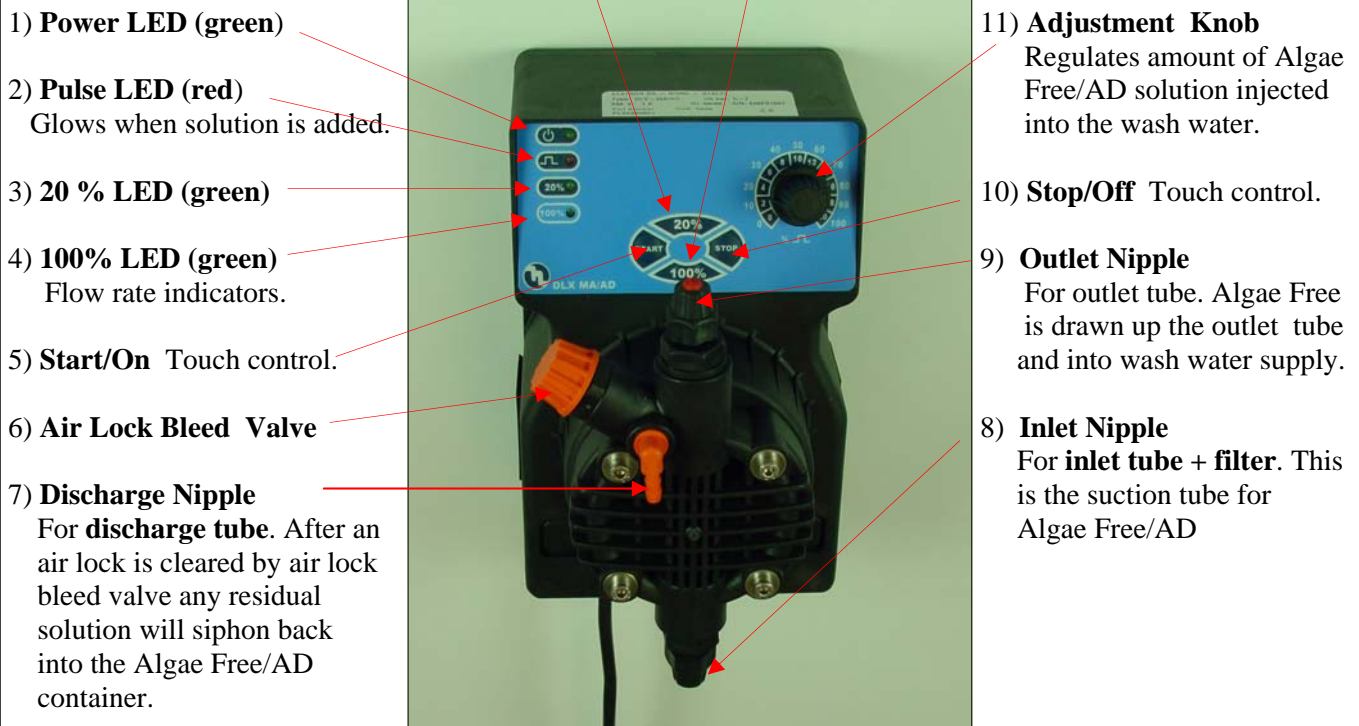
LED indicator lights for Power, Pulse and Flow Rates.

Easy to Read and Easy to Use Controls

Compact Robust Waterproof Unit

Air Lock Bleed Valve

(13) 20% setting (12) 100% setting



ADE24/TX Dosing Pump Dimensions
4.8 inches by 8.4 inches

Climax Photo & Digital
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USA Sales 800-444-0977 Fax 423-217-1333

The Hydra ADE24/XT Anti-Algae Dosing System

Fitted to All Makes and Models of Processors

The ADE24/TX Anti-Algae system is simple to fit, with a down time to your processor of approximately 30 minutes.

The system comes complete with full fittings a holding cage for the wash additive and 4x5 litres of Algae Free/AD solution.

The streamlined polypropylene moulded casing is compact, robust and totally waterproof to IP65 specifications.

The addition of LED display down the left hand side of the pump face, ensures that you can see at a glance when the system is:

- (a) Switched ON or OFF.
- (b) When Algae Free/AD solution is being injected
- (c) Which current flow rate that the pump is set on. Either 20% (normal) or 100% (priming).

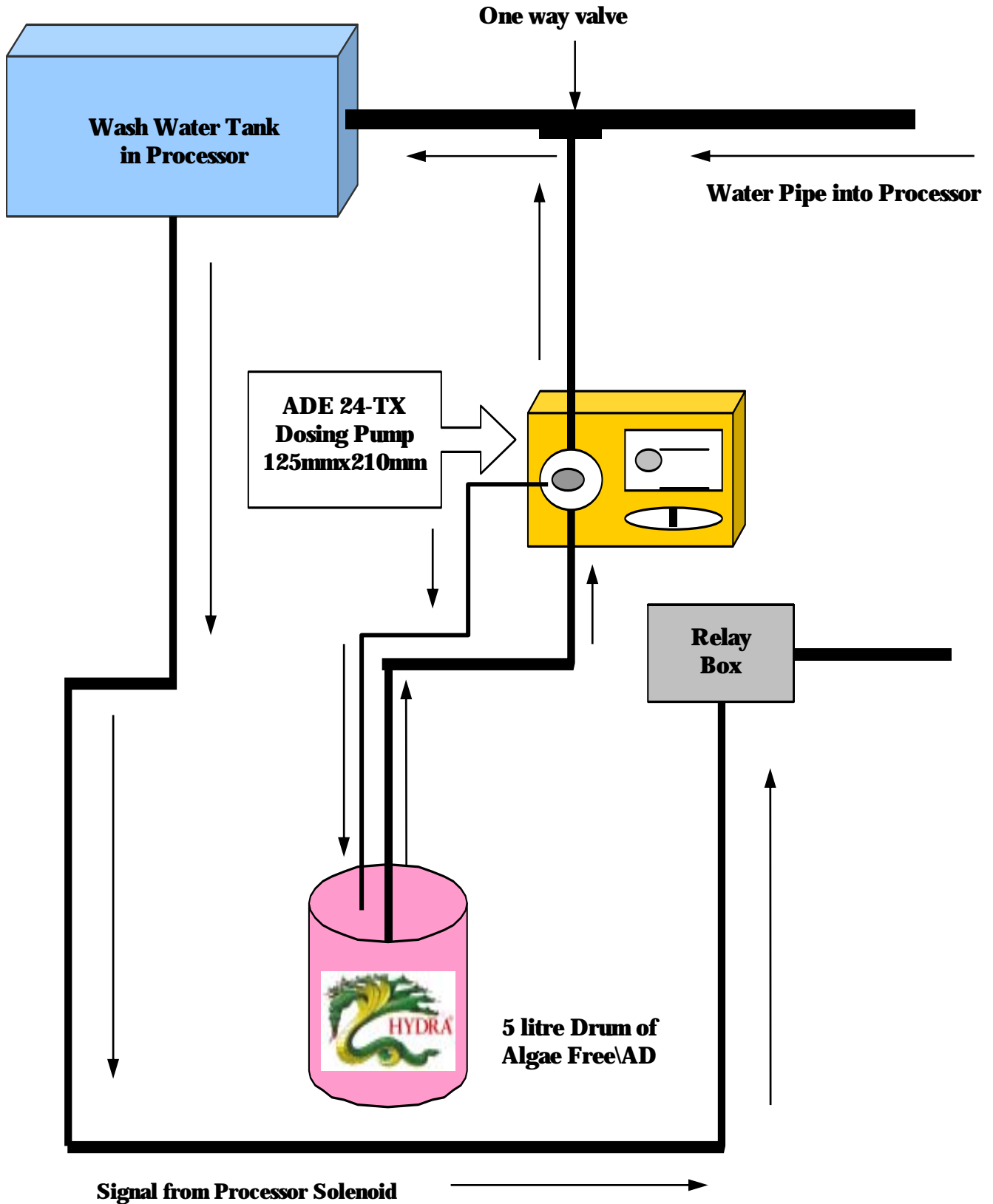
In the unlikely event of an air lock in the pump (which is caused by the inlet tube not being fully immersed into the Algae Free solution or by the adjustment knob being turned down to below 2%) the easy to use bleed valve makes air lock removal simple and safe. An extra pipe fitted on the front of the pump via a discharge nipple allows Algae Free/AD to feed straight back into the 5 litre container when the air lock is cleared

Detailed Description of ADE24/TX Pump Facia

- 1) **Power LED (Green)** Once the unit is switched on this will glow green. This eliminates the problem of the unit being switched off without the customer being aware. At the end of the processing day there is no need to switch the unit off. It will not operate unless the processor is processing.
- 2) **Pulse LED (Red)** Every time that the unit adds a shot of Algae Free/AD this LED will glow red. You can now ensure that the unit is dosing correctly.
- 3) **20% LED (Green)** The normal setting for the system is on the 20% scale. This LED will ensure right setting is visible.
- 4) **100% LED (Green)** This setting is only used to prime the pump i.e. the pump will pump harder on this setting.
- 5) **Start/On Touch Control.** Switches the power to the ADE24/TX unit ON.
- 6) **Air Lock Bleed Valve.** Only used in the event of an air lock. See full instructions for use supplied with ADE24/TX system.
- 7) **Discharge Nipple.** A 'soft' polythene tube is supplied which fits onto nipple. This pipe is inserted into the **Algae Free/AD** container along with the outlet tube. When the airlock is cleared using the Air Lock Bleed Valve any residual solution will siphon back into the **Algae Free/AD** container.
- 8) **Inlet Nipple.** The 'soft' polythene inlet tube is connected onto this nipple. This tube has a filter/weight on the other end and is inserted into container of **Algae Free/AD**.
- 9) **Outlet Nipple.** The 'stiff' polythene outlet tube is connected to this nipple. It is this tube that carries the **Algae Free/AD** into the water supply feeding the wash tank/s.
- 10) **Stop/Off.** Switches the power to the ADE24/TX unit OFF.
- 11) **Adjustment Knob.** Regulates the amount of **Algae Free/AD** added to the water supplying the processor wash tanks. Normal setting is the **20% BLACK inner dial** and settings will be from **3%** upwards depending upon wash tank size and amount of water per minute. On water saver processors, due to the very short rinse water cycles, the normal setting is **6%** Full information is given by installation engineer or Hydra Help Desk. Once on the correct setting this should not be changed without contacting Hydra or installation engineer.
- 12) **100% Setting Switch.** Touch control to set percentage rate. Normally only used for priming pump.
- 13) **20% Setting Switch.** Touch control to set percentage rate. This is the normal setting for ADE/24/TX dosing pump.

For technical information or further advice please contact Technical Help Desk on 1-866-809-7286

ADE 24 Dosing System Schematic For Algae Free\AD



INSTALLATION INSTRUCTIONS

For the Hydra ADE24/TX 110v - Relay System

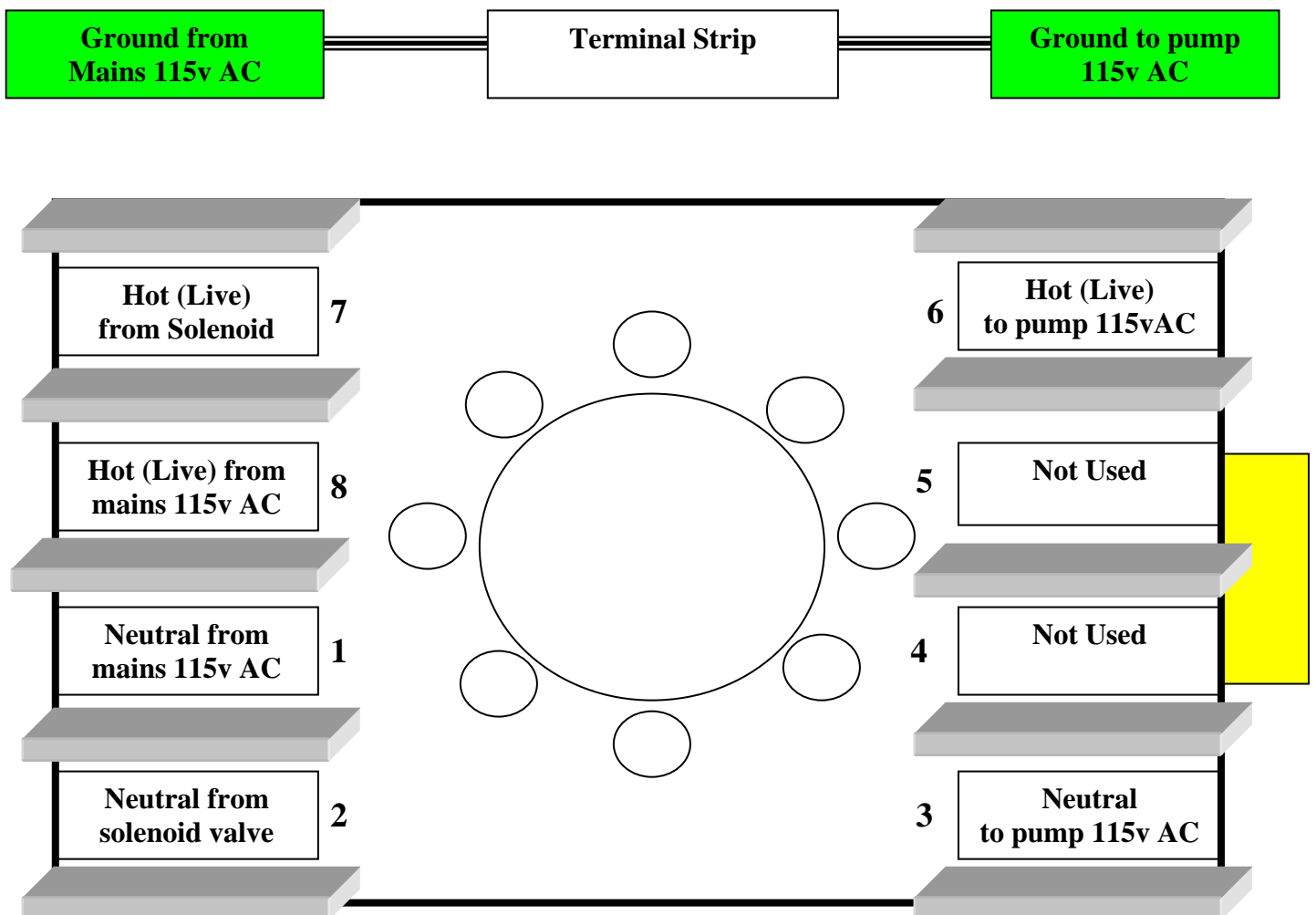
- 1) Fix ADE24/TX pump unit in an upright position to wall adjacent to processor, using 2 short screws and raw plugs a maximum height of 6 feet above the floor level.
- 2) Fit relay box close to pump but out of reach of any water, using 2 short screws and raw plugs.
- 3) Fit cradle for chemical container below relay box, allowing sufficient headroom to put ALGAE FREE\AD container into cradle. **N.B.** Ensure that top of chemical container is below top of wash tank., otherwise the contents of the container could siphon into the wash tank.
- 4) Run cable from pump to relay box, using no (6) on terminal base for black wire (hot) and no (3) on terminal base for white wire (neutral), connect green/yellow wire (earth) to single terminal strip.
- 5) Run a cable from solenoid valve to relay box, either using piggy back connectors or 3 way terminal strip to break into solenoid cable. Only use black wire (hot) and white wire (neutral) to relay base, using terminal no (7) on relay base for black wire (hot) and terminal no (2) on relay box for white wire (neutral).
Note: If there are only two wires going from the processor to the solenoid valve then either one can be used as the hot and the other as the neutral (it does not matter which way round they go).
- 6) Run power supply from standard 115v socket using 3 pin plug to relay base, use terminal no (8) on relay base for black wire (hot) and terminal no (1) on relay base for white cable (neutral), connect green wire (earth) to other side of single terminal strip.
- 7) Tighten cable clamp to wires. Push relay into base. Fit relay cover to relay box and tighten 4 screws holding cover on.
- 8) Drill 1 hole in cap of ALGAE FREE/AD container large enough to take both **inlet tube** and **discharge tube** (PVC soft tubing). Push **inlet tube** through cap and fit stainless steel filter to bottom of tube. Place container of ALGAE FREE/AD into cradle. Refit cap to container and push inlet tube into solution. Ensure that the foot of filter sits on the bottom of the container in an upright position.
- 9) **Attach inlet tube to pump.** (bottom of pump) Unscrew first black nut on inlet nipple. Slide other end of inlet tube through nut and push tubing firmly onto inlet nipple (trim tube to correct length). Retighten black nut to black connector on inlet nipple.
- 10) Attach discharge tube. Push tubing (soft tubing) onto orange nipple on pump and run tubing through cap of ALGAE FREE container into solution.
- 11) Fit water connection kit supplied to processors water supply (reinforced flexible tubing).
- 12) **Attach Outlet Tube to pump.** (top of pump), and run tubing to water connection kit.
- 13) Switch processor on so that processor's solenoid has switched on the water, switch ADE24/TX pump on and run at 100% setting.
- 14) Wait until pump has been primed (solution has reached outlet side of pump) then switch pump off.
- 15) Connect other end of outlet tube (stiff tubing) to non-return valve (black plastic) in water connection kit then switch pump back on until all air is out of tubing.

- 16) Set pump at 3% on 20% scale to 6% on 20% scale for water saver processors (inner black scale)
 Check wash tanks after 2-3 week's use and adjust the pump up slightly depending on results
 Do not set pump below 2% or you will get air locks.
Note: water saver processors may need a higher setting due to the very short water cycle.
- 17) The installation is now complete and the pump will only come on when the processor's water solenoid switches on. Therefore other than when the Algae Free solution bottle needs changing, the ADE24/TX pump unit should always be left switched on as it will switch on and off automatically.
- 18) **Note:** It is important that the wash tank/s and racks are thoroughly cleaned prior to operating the ADE24/TX system. If in doubt contact Hydra 1 866 809 7286 Technical Dept.
- 19) Fit "Operating" and "Air Lock" instructions to wall adjacent to ADE24/TX system.

HELP LINE FREE PHONE: 1 866 809 7286 TECHNICAL DEPT

WIRING DIAGRAM FOR RELAY

NB. The plug (if present) is cut off from the power supply lead on the ADE 24 pump.



NB. The ground wire from the solenoid valve is not used

WIRING FOR RELAY

115vAC Mains Power Supply In

- 8) - Live from mains 115v AC (black wire)
- 1) - Neutral from mains 115v AC (white wire)

115v AC Supply to Pump

- 6) - Live to pump 115v AC (black wire)
- 3) - Neutral to pump 115v AC (white wire)

Power from Solenoid

- 7) - Live from solenoid valve (black wire)
- 2) - Neutral from solenoid valve (white wire)

Not Used

- 4) - Not used
- 5) - Not used

Earths 115v AC

Join earth (green wire) from **115v Mains Power Socket**.
To earth (green/yellow wire) from **115v Supply to Pump**.

LIST OF FITTINGS

Water Connection Kit

- 1 - Number includes black non-return valve

Relay Kit

- 2 - Short screws
- 2 - Raw plugs
- 1 - Single terminal strip
- 1 - Relay base
- 1 - Relay
- 1 - Relay box

White Steel Bottle Holder

- 1 - Cradle
- 2 - Short screws
- 2 - Raw plugs

Balance of Fittings

- 2 - Short screws
- 2 - Raw plugs
- 20 - Cable ties
- 20 - Cable bases
- 25 feet - 3 core cable
- 1 - Laminated "Operating" instructions for wall
- 1 - Laminated "Air Lock" instructions for wall
- 1 - Installation instructions