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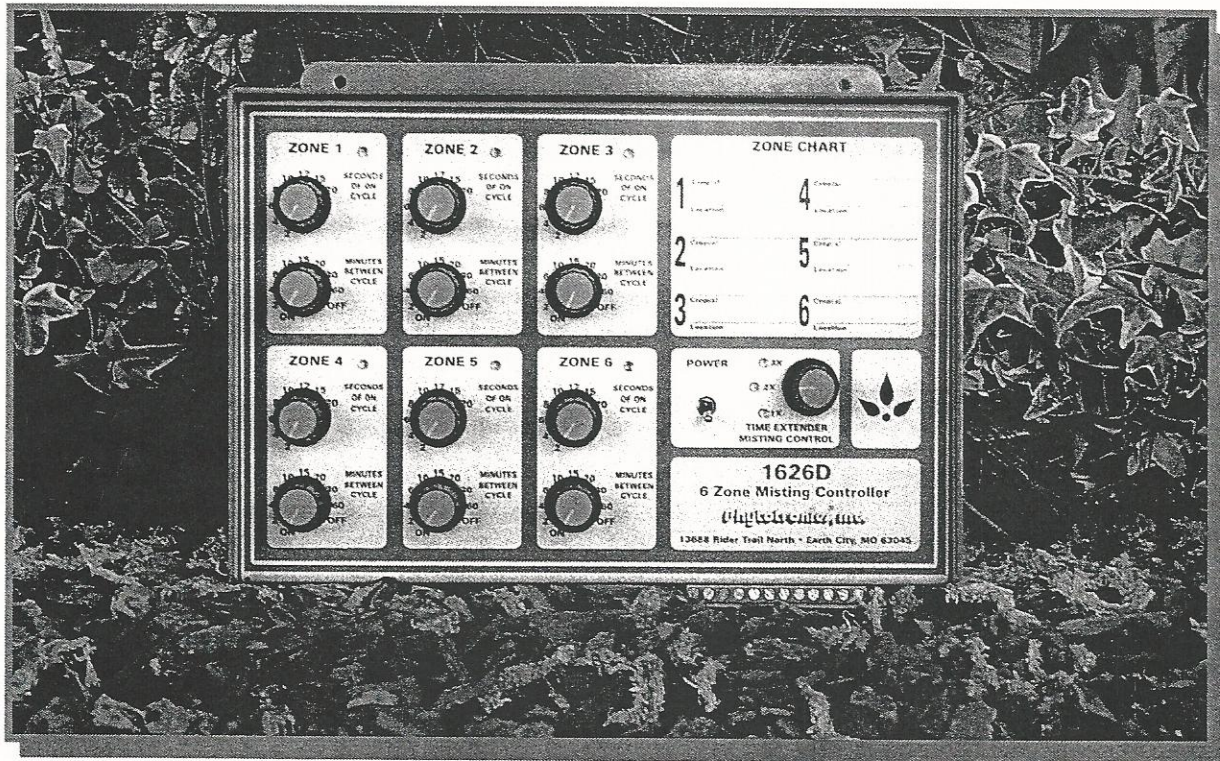
Phyto-Classic™ 1626D

AUTOMATIC MISTING CONTROLLER

Instruction Manual

Revised 08/08

**PLEASE READ ENTIRE INSTRUCTION MANUAL
(INCLUDING LIMITED WARRANTY) BEFORE INSTALLATION.**



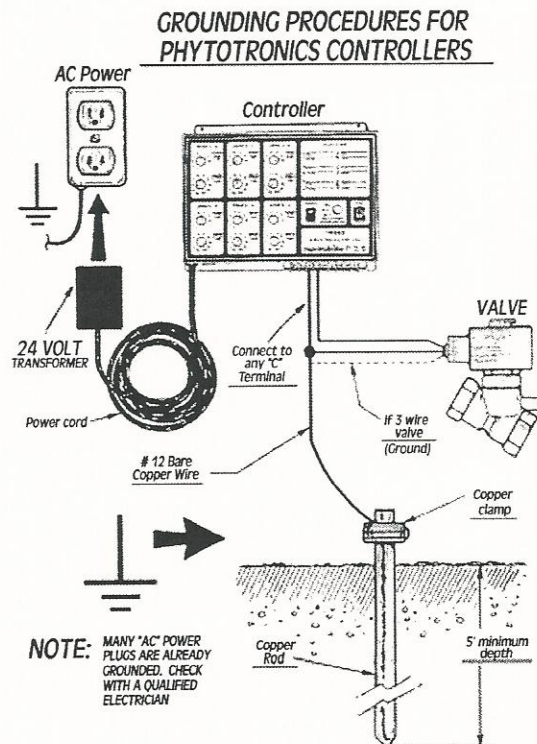
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Quick Start Instructions

1. Mount the controller per the instructions on page 7 of the manual.
2. Turn the controller power switch "off".
3. Plug the controller power cord into a grounded outlet.--
4. Connect your solenoids to the terminal strip. Example: Zone 1 valve will be wired to positions 1 and 2. Zone 2 will be wired to positions 3 and 4. The new even numbers are the commons.
5. Turn the controller power switch "on".

Understanding Your Controller

"Zone Control Blocks"

Your new Phyto-Classic® 1626D controller has six (6) "Zone Control Blocks". Each "Zone Control Block" contains the necessary switches and lights to control the misting operation for that zone. Each "Zone Control Block" contains the following three (3) items: 1) a "Zone On Indicator (LED lamp)"; 2) a "Seconds of On Time" rotary switch; and 3) a "Minutes Between Cycle" rotary switch. The operation of each of these zone controls is described in detail below.

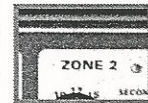


"Zone On Indicator (LED Lamp)"

The "Zone On Indicator" is a light located at the top of each "Zone Control Block" on your new Phyto-Classic® 1626D controller. The light is an indication that 24VAC power is being delivered to the zone's valve.

"Seconds of On Time"

The "Seconds of On Time" switch is located in the top portion of the "Zone Control Block". Rotating the selector switch clockwise will increase the amount of time during which 24VAC output power will be delivered to the appropriate valve. Rotating the selector switch counter-clockwise will decrease the amount of time. "Seconds of On Cycle" selections for the 1626D controller are listed below:



MODEL	AVAILABLE SELECTIONS (Seconds)
1626D (1X)	2, 4, 6, 8, 10, 12, 15, and 20
1626D (2X)	4, 8, 12, 16, 20, 24, 30, and 40
1626D (3X)	6, 12, 18, 24, 30, 36, 45, and 60

"Minutes Between Cycle"

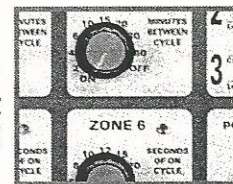
The "Minutes Between Cycle" switch is located at the bottom of each "Zone Control Block". Rotating the selector switch clockwise will increase the amount of time between the start of each "On" cycle when 24VAC power is delivered to the appropriate valve. Rotating the selector switch counter-clockwise will decrease the amount of time. The "OFF" position will prohibit any valve operation; while the "ON" position will force the valve into continuous operation. The "ON" and "OFF" positions are considered manual operations. "Minutes Between Cycle" selections for the 1626D controller are listed below:



MODEL	AVAILABLE SELECTIONS (Minutes)
1626D (1X)	ON, 2, 4, 6, 10, 15, 30, 60, and OFF
1626D (2X)	ON, 4, 8, 12, 20, 30, 60, 120, and OFF
1626D (3X)	ON, 6, 12, 18, 30, 45, 90, 180, and OFF

"Power Switch"

The "Power" switch turns on and off all power to the Phyto-Classic® 1626D controller. Safety requirements dictate that the unit be turned "Off" when the unit is being installed or serviced, or when valves are being attached to or removed from the controller.



Self-Resettable Internal Fuse

Each Phyto-Classic® 1626D controller is supplied with a 2 AMP self-resettable internal fuse to prevent damage to the internal circuits as well as to valve wiring and low wattage solenoid valves. The fuse will interrupt all internal power to the controller and the 24VAC power to the valves. Should the 'short circuit' still exist, the fuse will again trip and interrupt service.

Manufacturer's Note: Whenever the fuse 'trips' it is recommended that all valves and valve wiring be inspected for 'short circuits'. Excessive tripping of the fuse will shorten its lifetime, requiring factory service and grower loss of use. Short circuits may be caused by crossed wiring, improper grounding techniques, damaged valves, moisture collection, or an internal controller malfunction.

"Time Extender Block (Phyto-Classic® 1626D)"

Phyto-Classic® 1626D controllers are equipped with an additional feature; the "Time Extender". The "Time Extender" is a three (3) position rotary switch which will multiply the "Seconds of On Time" and "Minutes Between Cycle" times by one (1X), two (2X), or three (3X), depending on switch position. Selection of the 1X position indicates that the "Seconds of On Cycle" and "Minutes Between Cycle" periods will be as they are marked. Selection of the 2X position of the "Time Extender" will double all time periods, and selection of 3X will triple the time periods.

Example #1: With the "Time Extender" set for 3X operation:

Function	Knob Setting Position	Actual Time
"Seconds of On Time"	20 seconds	60 Seconds
"Minutes Between Cycle"		60 minutes 180 Minutes

NOTE: Phyto-Classic® 1626D controllers have water-tight, easy-turn switches to endure many years of continued use. Each switch has a fixed stop position at the minimum and maximum selectable time. DO NOT force the switches past the minimum or maximum times available for your model.

Installing Your Controller

CONTROLLER LOCATION:

Selecting the proper location for mounting your new Phyto-Classic® 1626D controller is important, and there are several guidelines you should follow to insure long and satisfying service.

- 1) **HEAT:** Avoid locations of excessive heat, such as extended exposure to direct sunlight and locations near heaters or boilers.
- 2) **VENTILATION:** Provide adequate ventilation to the controller. Do not mount the controller in enclosed areas. Allow a minimum of 3" clearance on all sides of the unit to allow proper air flow and avoid excessive heating of the unit.
- 3) **LIQUIDS:** Select a location where the controller is away from direct and continuous flooding from liquids.
- 4) **POWER:** 24V plug in transformer supplied.

CONTROLLER MOUNTING: Your new Phyto-Classic® 1626D controller is supplied with all necessary mounting hardware for a typical installation. For hollow-wall or concrete mounting surfaces, additional hardware may be required to secure the controller properly. Pre-drill the marked locations with a 1/8" or smaller starter hole. Install the two (2) bottom mounting screws, leaving approximately 1/16" between the head of the screw and the mounting surface. Test fit the controller by inserting the bottom mounting holes over the head of the mounting screws. Loosen or tighten the mounting screws as required, to provide a snug- fit between the controller and mounting surface.

Starting Your Controller

After you have selected and mounted your Phyto-Classic[®] 1626D misting controller, and wired the solenoid valves, you are ready to begin misting operations. Improper grounding will void the warranty of the 1626D controller (See page 11, for correct grounding techniques).

Do Not connect solenoid valves to the controller before verification and trial operation.

Connecting the 24VAC Power Plug:

Be sure the Phyto-Classic[®] 1626D controller power switch is in the "off" position. Plug into connector. Ensure the power cord is routed away from walkways and high traffic areas to prevent accidental interruption of power to the controller.

Turning on the Power:

For first time start-up and an understanding of your new Phyto-Classic[®] 1626D controller, follow these procedures.

- 1) Turn all of the Zone "Minutes Between Cycles" selector switches to the off position.
- 2) Turn all of the Zone "Seconds of On Time" selector switches to the maximum time.
- 3) Turn the "Time Extender" selector switch to the 1X position.
- 4) Turn on power to the Phyto-Classic[®] 1626D controller.

Each controller is put through a "Burn-in" process that checks and verifies all systems are functioning properly before it leaves our "factory". However, circuits may become loose, etc. during shipping or other rough handling. Therefore, it is necessary to be sure that your controller is operating correctly by testing it in the following method. After the power switch is turned ON, the green light of the "Time Extender" indicating 1X operation should be on.

Should the green light not be observed, turn the "Power" switch to the off position. Check the power cord connections and re-start the controller. If it still does not work, call Phytotronics[®].

Testing Misting Operations:

Turn the power switch to the "On" position and "Zone 1" should automatically begin. The Phyto-Classic[®] 1626D controller is now operational.

Turn the "Minutes Between Cycle" selector switches the minimum time; 2 minutes.

The Phyto-Classic[®] 1626D misting controller will now begin automatic zone cycling. Each Zone light will come on sequentially, indicating that 24VAC power is being supplied to the solenoid valves. If a Zone light fails to come on, or if the Zones fail to sequence properly, check for the proper settings of the "Seconds of On Time" and "Minutes Between Cycle" selector switches.

Connecting Solenoid Valves to the Controller

Valve Connector:

Solenoid Valves are connected to the 1626D controller via a terminal strip located on the bottom right of the controller. Phyto-Classic® 1626D controllers have a 12 position strip for connection of 6 valves. Locate the terminal strip on your controller and familiarize yourself with the positions and markings on the terminals.

The terminal strip accepts 22 thru 12 gauge wire, and will require a slotted screwdriver for wire attachment.

For grounded valves (valves with 3 wires), the ground wire may remain 1) disconnected; 2) connected to a terminal; or, 3) connected to a metal grounding rod or water line.

Always turn the controller Power switch OFF or switch all Zone "Minutes Between Cycles" to the OFF position before connecting valves to the controller. Connecting valves to active Zones may cause power surges which may damage the controller or solenoid valve.

ON and OFF Control: Each Zone of the Phyto-Classic® 1626D controller 'Minutes Between Cycle' has two manual operations positions, ON and OFF. ON is a good way to check valve operation or Zone location. OFF provides a means of turning off unused Zones or removing power to the terminal strip when connecting new solenoid valves to the controller.

Operational Notes:

Two internal time clocks in the Phyto-Classic® 1626D controllers provide misting control. Both clocks start when the controller power is turned ON.

Wiring Diagram for Terminal Strip

1	2	3	4	5	6	7	8	9	10	11	12
Zone 1	Common	Zone 2	Common	Zone 3	Common	Zone 4	Common	Zone 5	Common	Zone 6	Common

REPAIR POLICY

You must call 314-770-0717 to obtain pre-authorization to return any products for service. Any product returned without pre-authorization will not be accepted, and will be returned to the sender freight collect. All returns should be insured against damage during shipping, and freight must be paid by the sender. Phytotronics® will not be liable for any damage incurred during shipping.

The standard charge for Non-Warranty service and repair is \$95.00 and includes a 90 day original purchase limited warranty and return by standard UPS delivery service.

To be considered for a no-charge Warranty Repair, the original sales receipt or invoice must be included with the unit. Product determined by us to be covered by the limited warranty will, at our sole option, be repaired or replaced at no charge, and returned by standard UPS delivery service.

If the unit requires service or repair in excess of the standard \$95.00 service charge, you will be contacted by Phytotronics® Customer Service to determine appropriate action. Phytotronics® Customer Service will provide an estimate of repair costs.

Product which is inspected but not repaired or which is beyond repair will be subject to a minimum \$50.00 service charge to cover inspection and return by standard UPS delivery service.

You may request return shipping by express or overnight delivery services, or postal services other than UPS. You will be billed for any additional charges incurred.

THE LIMITATIONS DESCRIBED UNDER THE LIMITED WARRANTY APPLY TO ANY REPAIRED OR REPLACED PRODUCT, WHETHER OR NOT UNDER WARRANTY.

Limited Warranty

Phytotronics[®], Incorporated ("we") warrant to the original purchaser ("you") that the product or system accompanying this warranty (the "product") will be free from defects in material and workmanship existing at the time of manufacture and appearing within one (1) year from the date of original purchase. This warranty applies only so long as the product is stored, installed, operated and maintained in accordance with our recommendations, and when used under proper and normal use.

THIS WARRANTY SHALL BE EXCLUSIVE AND, TO THE EXTENT PERMITTED BY LAW, SHALL BE IN LIEU OF ANY OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

TO THE EXTENT IMPLIED WARRANTIES MAY NOT BE DISCLAIMED, THE DURATION OF SUCH WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS EXPRESSLY LIMITED TO THE ONE YEAR PERIOD OF DURATION OF THIS LIMITED WARRANTY. In certain circumstances, some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

When this Limited Warranty does not apply

This warranty does not cover claims resulting from failure to follow instructions on installation and use, neglect, misuse, accident, modifications, alterations, acts of God, vandalism, misapplication or repairs made by you or others, use of unauthorized attachments, use on a current or voltage other than specified, or overloading.

Your remedies

If a covered defect appears during the warranty period, we will, (at our sole option), repair or replace the defective product at no charge for service or parts, provided that the product is delivered at your expense to our authorized service center. Parts and/or replacement product supplied under this warranty may be new or rebuilt at our option. Any product which is repaired or any replacement product will be covered under this warranty for the remainder of the one year period or for 90 days after repair or replacement, whichever is longer. THIS IS YOUR EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY OR OF ANY IMPLIED WARRANTY OR OF ANY OTHER OBLIGATION ARISING BY OPERATION OF LAW OR OTHERWISE.

What is not covered by the Limited Warranty

The warranty does not include reimbursement for the expenses of labor, transportation, installation, removal or any other expenses which may be incurred by you. For instructions on how to obtain warranty service, call 314-770-0717 or write to Phytotronics[®] Customer Service, 13688 Rider Trail North, Earth City, Missouri 63045 and see the accompanying Repair Policy.

IN NO EVENT SHALL WE BE LIABLE OR RESPONSIBLE FOR PUNITIVE, EXEMPLARY, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF CROP, REVENUES OR SAVINGS ARISING OUT OF THE BREACH OR PERFORMANCE OF ANY WARRANTY OR THE USE OR INABILITY TO USE THIS PRODUCT FOR ANY PURPOSE WHATSOEVER.

YOUR EXCLUSIVE COMPENSATION FOR LOSS OR DAMAGE ARISING FROM PURCHASE, USE, REPAIR OR REPLACEMENT OF ANY PRODUCT SHALL BE LIMITED TO AN AMOUNT EQUAL TO THE PURCHASE PRICE OF THE PRODUCT. THIS LIMITATION OF LIABILITY SHALL BE APPLICABLE TO ANY CLAIMS PRESENTED TO US REGARDLESS OF THE LEGAL THEORY FORMING THE BASIS OF SUCH CLAIM, AND WHETHER SUCH THEORY INVOLVES NEGLIGENCE, CONTRACTUAL LIABILITY, FAILURE OF REMEDY OR OTHERWISE.

In certain circumstances, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

LOANER POLICY

Loaners are available to those who need the use of a controller while one of their controllers is being repaired. The standard fee for loaners is \$45.00, and includes regular UPS delivery to the customer. Loaners are shipped regular UPS unless the customer requests and agrees to pay for second day air or next day air UPS service.

All loaners must be purchased up front, and the balance (minus \$45.00 fee) will be refunded to the customer upon the timely return of the loaner in good repair.

from when the customer receives the repaired unit back from Phytotronics[®].

Loaners not returned to Phytotronics[®] immediately will be considered purchased, and will not be refunded.