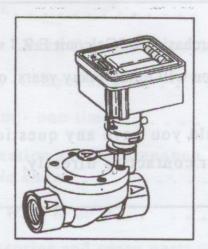
## **OPERATING INSTRUCTIONS**

BATTERY OPERATED
WATERING CONTROLLER
GALCONIT E.Z.
MODEL 2010





Before installing and using your Galconit E.Z. please read the instruction booklet.

OPERATING INSTRUCTIONS
BATTERY OPERATED
WATERING CONTROLLER
CLAILCONIT I 7

MODEL 2010

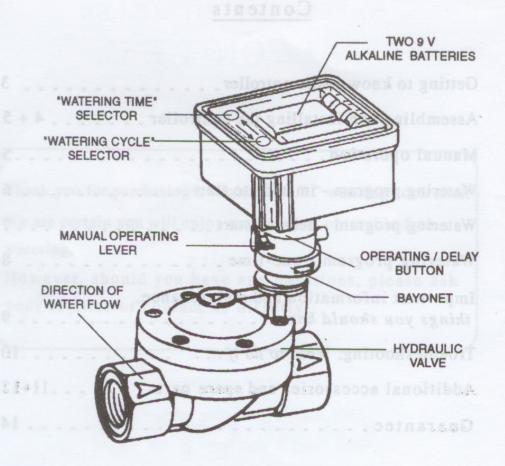
Thank you for purchasing a "Galconit E.Z." watering controller. We are certain you will enjoy many years of trouble-free watering.

However, should you have any questions, please ask your retailer or contact us directly.

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#### GETTING TO KNOW YOUR CONTROLLER



# ASSEMBLING AND INSTALLING THE CONTROLLER

#### Installation

- 1. Turn off the main water supply.
- Install the controller into the watering system making sure that the water flow from the mains is in the direction of the arrow on the valve housing.

\*Never use the controller unit as a handle for tightening the valve to the pipe.

Should the valve need tightening, DO NOT use the controller as a handle. A 1/4 turn anticlockwise releases the head. Re-assemble after installation of valve unit.

When dismantling the unit, make sure not to lose the O-ring \*Should your watering system not have a filter installed, you are recommended to fit one (like the Galcon filter - see page 11) between the controller and the water mains, to prevent the system from becoming blocked.

Turn the manual operating lever to the central position, "AUTO".



4. Turn on the main water supply.

Battery Installation
 Insert the batteries correctly
 (watch out for the + - polarity).

 (Only use 9V alkaline batteries)



First insert the rear end of the battery and only then firmly push the front side of the battery into position.

Should you wish to install the controller inside a valve box, you must first seal the cover in accordance with the instructions (see page 9) Important information and maintenance.

Things you should know!

#### MANUAL OPERATION

TO open the valve manually - turn the lever to the left.



TO close the valve manually - turn the lever to the right.

Remember - To operate the watering controller automatically, the lever must always be in the middle (AUTO) position.

Manual operation, to OPEN, or CLOSE, may also be used during the Automatic program.

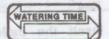
# WATERING PROGRAM - IMMEDIATE START (Example: 30 minutes of watering every 3 days).

STATERING PROGRAM - POBLAYER

- Make sure that the "manual operation lever" is in the middle (AUTO)
  position and that the batteries are removed.
- 2. Point the "watering time" selector to the required setting (e.g. 30 min position 4)

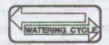
Position	1	2	3	(4	) 5	6	7	8	9	A	В	C	D	E	F
Watering Time	5		15 n u 1		45	1	1.5			4		6	8	10	12





3. Point the "watering cycle" selector to the required settting (e.g. for once every 3 days - position 8)

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Watering	d e-	45	90	3	6	12	1	2					7	10	14	
Cycle	y	mir	nutes	h	ou	rs				d	a y	8	10	31		Ce





4. Insert the batteries correctly (see instructions page 5).

Wait approx.10 seconds after inserting the batteries before continuing onto step 5.

- 5. Press the "operating button" beneath the controller Once to start watering. (you will hear a "click").
  - \* From now on the valve will open automatically in accordance with the program, for 30 minutes every 3 days at the same time.
- N.B.- The "watering time" length can be changed even after running the program, by changing the "watering time" selector according to the table.
  - To re-program, remove the batteries, wait 20 seconds and start again from step 1, according to the program required.

#### WATERING PROGRAM - DELAYED START

(Example: 2 hours of watering, once every 7 days, starting with a 6 hour delay).

- 1. Make sure that the "manual operation lever" is in the middle (AUTO) position and that the batteries are removed:
- 2. Point the "watering time" selector to the required setting (e.g. 2 hours position 8)

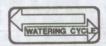
Position	1	2	3	4	5	6	7	8	9	A	В	C	D	E	F
Watering Time	5		15 n u			1	1.5			4		6.	8	10	12





- 3. Insert the batteries correctly (see instructions page 5).
- 4. Set the "watering cycle" selector to the "delay position" (0).

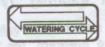
Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	E
Watering Cycle	de-	45	90	3	6	12	1	2	3	4	5	6	7	10	14	0 п
Cycle	-8>	mi	nutes	h	o u	rs	10		91	d	a y	8			60	0





- Push operating button (beneath unit) HOLD, and release after hearing the number of clicks representing the number of hours DELAY required.
   (6 clicks = 6 hour delay)
  - ( If the number of hours selected is an odd number, an additional click will be heard after a few seconds, this will ensure that the valve will be turned off )
- Turn the "watering cycle" selector to the required setting (e.g. for once every 7 days- position "C").

														1			
1	Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
	Watering Cycle	del	45	90	3	6	12	1	2	3	4	5	6	7	10	14	onc
1	Cycle	a	Ima	านเอร	n	o u	18	1000			u .	a y	9				0





- \* In six hours time, the controller will start watering for a period of 2 hours, regularly once every 7 days.
- N.B.- The "watering time" length can be changed even after running the program, by changing the "watering time" selector according to the table.
  - To re-program, the batteries should be removed, wait 20 seconds and start again from step 1, according to the program required.

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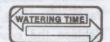
#### WATERING PROGRAM - ONE-TIME OPERATION

(Example: 30 minutes of watering, once only, starting with a 10 hour delay).

- 1. Make sure that the "manual operation lever" is in the middle (AUTO) position and that the batteries are removed.
- 2. Point the "watering time" selector to the required setting (e.g. 30 minutes position 4)

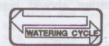
Pale	_		-	$\sim$		_			100			200				
Position	1	2	3	(4	) 5	6	7	8	9	A	B	C	D	E	F	1
Watering Time	5		15 n u 1			1	1.5			4 ur		6	8	10	12	1





- 3. Insert the batteries correctly (see instructions page 5).
- 4. Set the "watering cycle" selector to the "delay position" (0).

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Watering Cycle	00-07	45 mir	90 nutes	3 h	6 o u	12 rs	1	2	3	4 d	5 a y	6	7	10	14	once



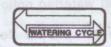


 Push operating button (beneath unit) HOLD, and release after hearing the number of clicks representing the number of hours DELAY required.
 (10 hours = 10 clicks)

( If the number of hours selected is an odd number, an additional click will be heard after a few seconds, this will ensure that the valve will be turned off )

6. Turn the "watering cycle" selector to the "ONCE" position (F).

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Watering Cycle	de-	45	90	3	6	12	1	2	3	4	5	6	7	10	14	0 0
Cycle	ay	mir	nutes	h	ou	18	31	ń		d	a y	8			HA	6





- \* In 10 hours time, the controller will start watering for a period of 30 minutes one-time only.
- N.B.- To re-program, the batteries should be removed, wait 20 seconds and start again from step 1, according to the program required.

# AND MAINTENANCE Things you should know!

#### 1. Installation in valve boxes

Should the controller be installed in a valve box, the battery compartment must be sealed. To do this, use a neutral grease of any type such as Vaseline®, that should fill the entire battery compartment.

Replace the cover firmly.

- 2. If the controller is out of use for a long period of time, it is recommended that the batteries be removed.
- 3. The batteries should last for about one year (i.e. good quality alkaline batteries).
- 4. We recommend that new batteries be installed at the beginning of a new season.
- 5. Before replacing the batteries, the contacts should be cleaned with a dry cloth and sprayed with a protecting spray (e.g. WD-40 or similar).
- 6. Do not turn on the water supply when the controller is not connected to the hydraulic valve.
- 7. The recommended water pressure range is 1-8 atmos. (Bars).
- 8. Additional watering option (semi-automatic):

Every push of the "operating button", after the controller has been programmed, will automatically open the valve for an additional "watering time" (or terminate watering if the "operating button" is pressed during the automatic watering).

In any event, watering will continue thereafter according to the original programming without interruption.

seconds and start again from step 1, according to the program

# TROUBLESHOOTING. What to do if....

PROBLEM	CAUSE	SOLUTION
The valve does not open and no click is heard from the controller, even when	Manual operation lever is not in the "AUTO" position.	Place the lever in the correct. "AUTO" position in the center.
programmed for immediate operation (see page 6) or	The batteries are incorrectly positioned.	Replace batteries correctly ensuring correct polarity (+
after repeatedly pressing the "operating button".	The batteries are dead.	Try again after replacing the batteries with fresh ones.
	No water supply	Check the mains water supply valve or look for any other cause
9 (	The manual operation lever is not in the central "AUTO" position.	Place the lever in the "ATITO
The valve does not open or close, despite hearing a click when pressing the	Dirt in the valve unit.	Dismantle the controller from the valve and clean the channel beneath the plunger.  N.B. Replace the plunger in the correct direction and make sure that O-ring no.1 is in place, Install a filter!
"operating button".	recommended!)	Dismantle and clean the valve itself (open the 6 sealing screws that surround the unit). Make sure you re-assemble in the correct direction.  Install a filter!
2	The pressure in the system is over 8 atmos. or too low (below 1 atmos.).	Remove the spring from the plunger if the pressure is too high, or increase supply pressure if too low.
During programming for delay start time, the clicks stop before reaching the required number of hours.	Weak batteries.	Replace batteries.

<sup>\*</sup>Should you experience any other problems or if the suggested solution does not help, you should ask your retailer for assistance.

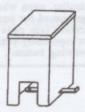
### ADDITIONAL ACCESSORIES AND SPARE PARTS

(May be purchased from authorized Galcon distributors)

1. Protection box (cat. no. K10023)

An externally locked dark green metal box.

Protection against vandalism, the elements, and unauthorised reprogramming.



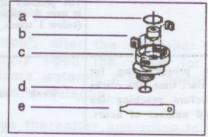
Externally lockable frame (cat. no. 2074)
 Provides protection by an external screw against easy opening of the cover.



- 3. Transparent sealing grease pack See instructions on page 9.
- 4. Water supply filter. 3/4" filter (cat. no. 6310)
  Water supply filter. 1" filter (cat. no. 6305)
  Protects the watering system against dirt that can cause clogging. Supplied in both 1" and 3/4" diameter sizes.

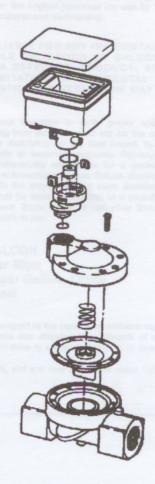


- Maintenance parts kit: (cat No. 13016)
  - a. 'O' RING No. 1.
  - b. PLUNGER,
  - c. BAYONET,
  - d. 'O' RING No. 2,
  - e. ADJUSTING DEVICE.



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- 6. COVER POR E.Z. (cat. No. 4123)
- 7. 3/4" B.S.P. VALVE & BAYONET ASSEMBLY (cat. No. 5001)
- 8. 1" B.S.P. VALVE & BAYONET ASSEMBLY (cat. No. 5002)



#### GALCON WARRANTY

GALCON, warrants these products to be free from defects in material and workmanship for a period of one year from the date of purchase. This warranty does not cover damage resulting from accident, misuse, neglect, modification, improper installation or subjection to line pressure in excess of 150 lbs. per square inch. This warranty shall extend only to the original purchaser of the product for use by the purchaser. This warranty shall not cover batteries or any maifunction of the product due to battery failure. The obligation of Galcon under this warranty is limited to repairing or replacing at its factory this product, which shall be returned to the factory within one year after the original purchase for use by the purchaser and which on examination is found to contain defects in material and workmaship.

GALCON.SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND; THE SOLE OBLIGATION OF GALCON, BEING LIMITED TO REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT: 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.

Unattended use for prolonged periods without inspection to verify proper operation is beyond the intened use of this product, and any damage resulting from such use shall not be the responsibility of Galoon. There are no warranties which extend beyond the description on the face hereof. In the case of purchase of the product for use other than for persona, family or household purposes. Galoon, hereby disclaims any implies warranties, including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes. Galoon, disclaims any such warranties to the extent permitted by law. To the extent that any such disclaimer or implied warranties shall

be ineffectual, then any implied warranties shall be limited in duration to a period of one year from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

GALCON Kfar Blum Upper Galilee 12150 Israel

Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units or units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of Galcon.

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

#### AGENT:



Kfar Blum 12150 Israel • Tel. 972-6-948514 • Fax. 972-6-948777

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