

Mix Rite E-300 User guide

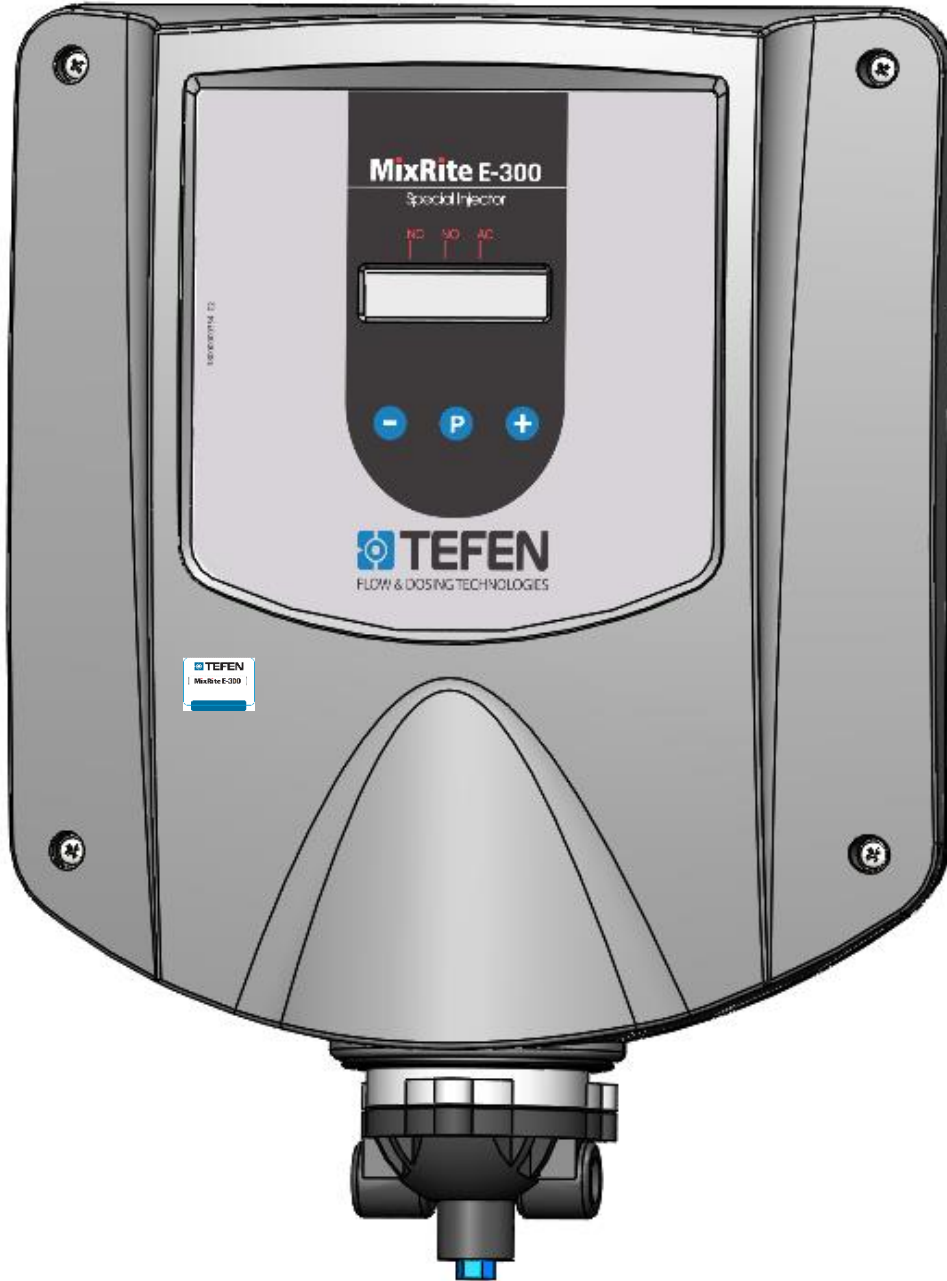
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Technical data

Category	Details
Pump	<ul style="list-style-type: none">• V – 12 DC• P – 80W• A – 7 A
Power Supply	<ul style="list-style-type: none">• 220 AC• 110 AC• 12 DC
Water Connection	<ul style="list-style-type: none">• 3/8"-18 NPT Female
Additive Temperature	<ul style="list-style-type: none">• Max 77 C° (170 F°)
Priming	<ul style="list-style-type: none">• Self-Priming Up To 1.5m (5 Ft.) Vertical, Max. Inlet Pressure 2.1 Bar (30 PSI)
Flow L/h	<ul style="list-style-type: none">• Max – 314 L/H (1.38GPM) at 1 bar (14.5 psi)
Pressure	<ul style="list-style-type: none">• Max – 7 bar (101.5 psi)
Material	
Diaphragm	Santoprene
Piston	Viton
Pump house	PP

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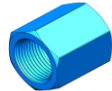
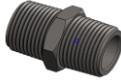

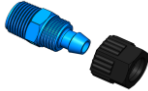
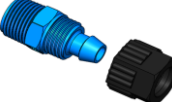



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MixRite E-300 STD KIT

Qty.	Descriptions	Part No.	Image
1.00	FEMALE PIPE COUPLING - 1/2"	12010308088	
1.00	FEMALE PIPE COUPLING - 3/4" BLUE	12010312128	
1.00	PIPE HEX NIPPLE - 3/4" NPT	12022212123	
10.00	PE TUBING 12 MM - NATURAL	14030052101	
2.00	MALE CONNECTOR - 12 MM*3/8"	22046852068	
1.00	MALE CONNECTOR - 12 MM*1/2"	22046852088	
1.00	MALE CONNECTOR - 12 MM*3/4"	22046852128	
1.00	MALE BRANCH TEE - 12 MM*1/4"	22047152048	
1.00	2 WAY 1/4" VALVE PP GREY	23002504043	
1.00	Line Check Valve 3/4"*1/2 MALE EPDM	23444008122	
1.00	FILTER 3/4" GREY	38000000172	

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MixRite E-300 PVDF KIT

Qty.	Descriptions	Part No.	Image
1.00	FEMALE PIPE COUPLING - 1/2" PVDF	12050308081	
1.00	FEMALE PIPE COUPLING - 3/4" PVDF	12050312121	
1.00	PIPE HEX NIPPLE - 3/4" NPT PVDF	12062212121	
10.00	PETUBING 12 MM - NATURAL x 100 meter	14030052101	
2.00	MALE CONNECTOR - 12 MM*3/8" PVDF	22056852061	
1.00	MALE CONNECTOR - 12 MM*1/2" PVDF	22056852081	
1.00	MALE CONNECTOR - 12 MM*3/4" PVDF	22056852121	
1.00	MALE BRANCH TEE - 12 MM*1/4" PVDF	22057152041	
1.00	2 WAY 1/4" VALVE PVDF	23002904041	
1.00	Line Check Valve 3/4" * 1/2 MALE VITON	23444108122	
1.00	FILTER 3/4" GREY	38000000172	

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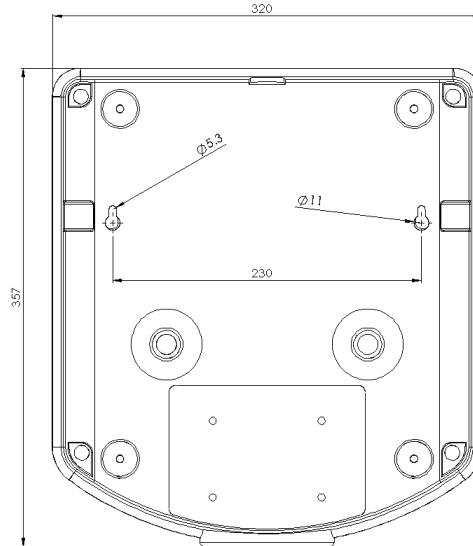
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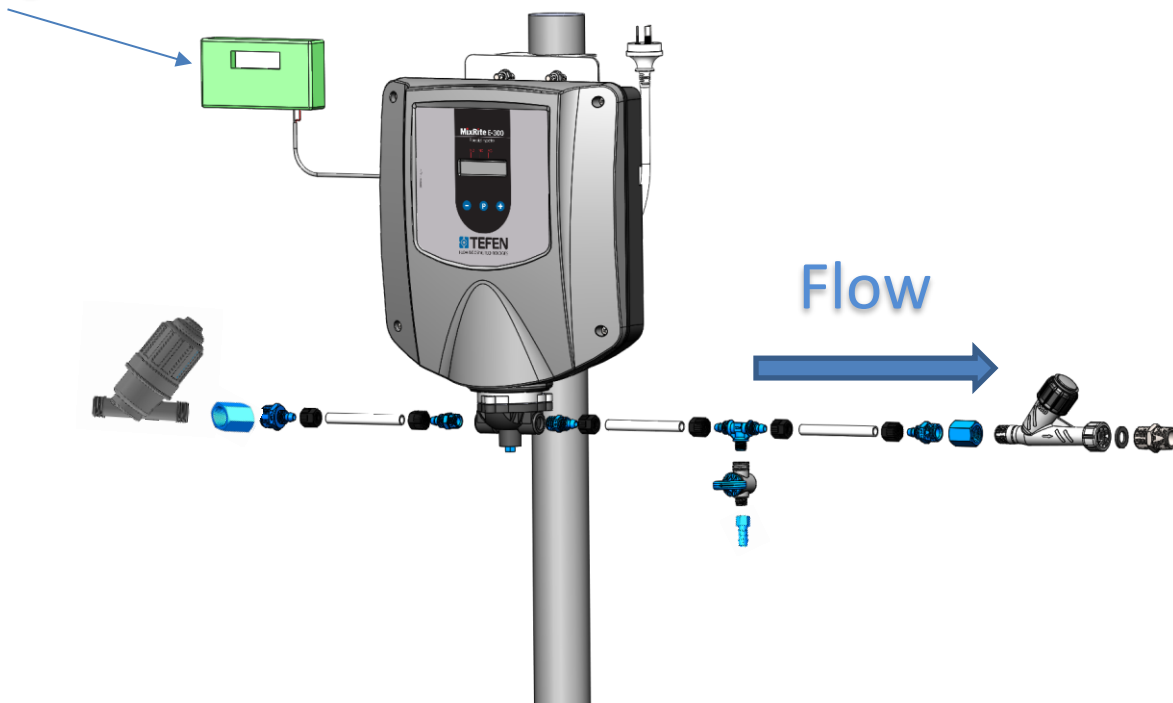


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General Dimensions (Back view)



Irrigation Controller



Note: Check the check valve position (up)

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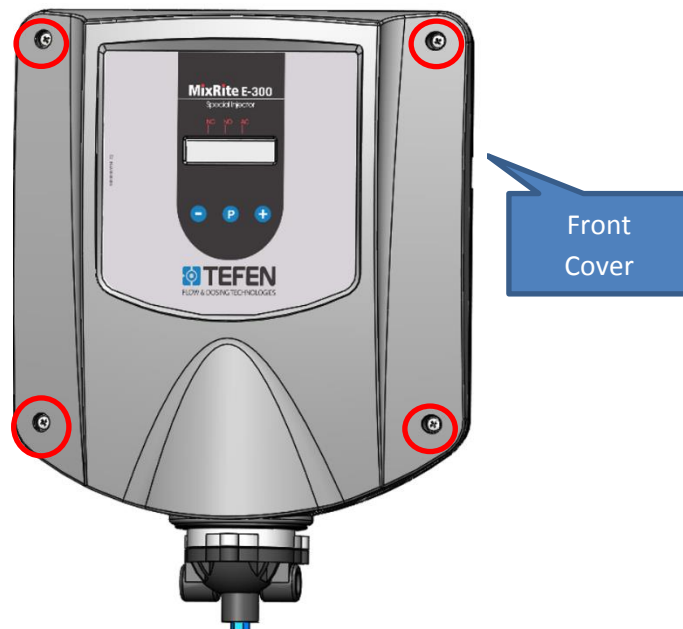
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Wiring Instructions:

- a. Ensure pump is disconnected from mains.
Do not set wires under "live current"
- b. Remove the front cover with 4 Phillips Screws.



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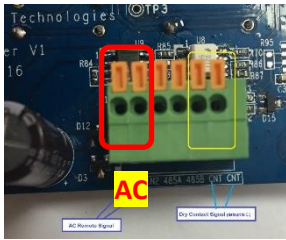
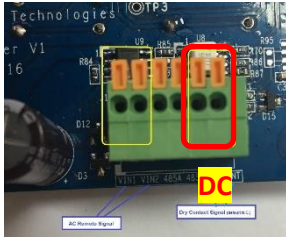
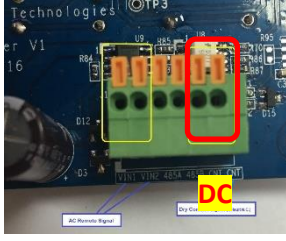
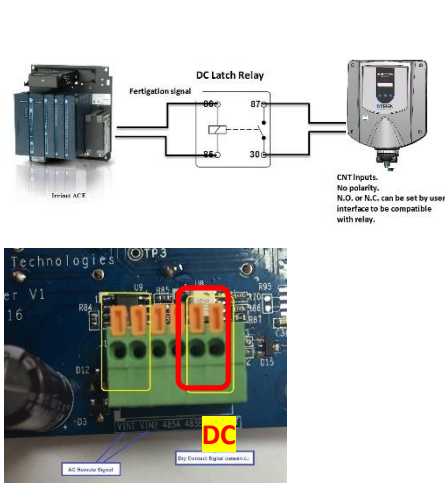
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Installation

Controller wiring connection according to Controller output

Controller I/O Type	I/O type	Card connection	Pump adjustment
AC 12-24 VAC			AC
DC Dry Conn.	NC - Normally close		DC-NC
DC Dry Conn.	NO - Normally Open		DC-NO
Latch to All Other	AC >24V DC not Dry	 <p>DC Latch Relay</p> <p>Fertigation signal</p> <p>87c</p> <p>87</p> <p>30</p> <p>CNT Inputs: No polarity. N.O. or N.C. can be set by user interface to be compatible with relay.</p>	DC-NO Or DC-NC

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Power Connection

- 110 VAC, 220 VAC connect the plug to the power
- Connect the 12VDC power supplier output to connector "J1".
Positive power supplier output terminal to be connected J1.1 (Red) & the negative one to J1.2 (Black).



NOTE: Only qualified electrician certificates may change the wiring of the pump

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Set pump parameter

1- Once connected to the mains appears on the display “OFF”



2- Adjust the code:

2.1- The Default value is DC NC (Normally Closed) for the first activation.

2.2-To change the mode, execute the follow steps:

1- Enter to the function by pressing the buttons in the following sequence:

Button(P)→Increase button (+) →Button(P)→ Increase button (+).

2- To choose the mode: Press the button (P) to change the display between three controller options:

a- DC NC (Blue dot lighted in the "Hundreds" digit)

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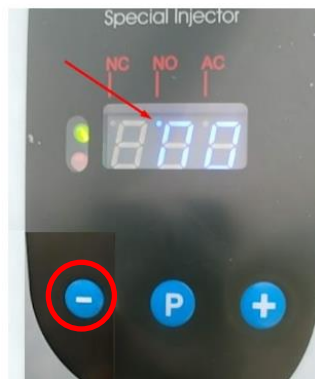
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b- DC NO (Blue dot lighted in the "Tens" digit)



c- AC (Blue dot lighted in the "Unit's" digit)



2.3 - Press the button (+) to select the chosen mode.

2.4- The new value is memorized and will be kept until new value is used.

3- Start working with the pump:

a- Press the button (+) to increase (in %) the motor power (3)

b- Press the button (-) to decrease (in %) the motor power (3).

c- Press button (+) and button (-) simultaneous to Start or Stop the Pump (1).

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4- Prime button:

Press the button (P) continuously to active the motor at 90% of the maximum power (2).



5 - If the display shows 0%, it becomes OFF after 20 seconds

6- Set the pump value according to water line presser and dosage flow requirements.

7- You can change the pump value at any time when the pump working or stopped

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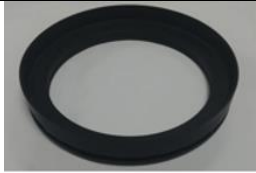


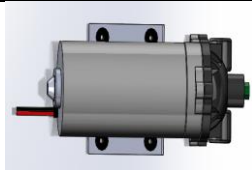
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ElectroRite – Pump Spare parts

Item no	Image	Part No.	Descriptions
1		38000000254	Power supply
2		38000000273	Controller STD for electric pump
3		38000000356	MOTOR GASKET
4		38000000390	Upper Housing
5		38000000391	Valve Kit (Viton)
6		36700000004	ElectroRite Pump wired Diaphragm Pump

Operation and fault warnings

Fault warnings display:

There are three main causes of pump failures:

1- 12 A Over-Current (Electrical Overload):

a- The Motor switched OFF and Led turned Red.

b- The Display will show the following message: **E r 1**

2- 16 A Over-Current (Electrical Overload):

a- The Motor switched OFF and Led turned Red.

b- The Display will show the following message: **E r 2**

3- Under-voltage (Driver Low voltage) supply

a- The Motor switched OFF and Led turned Red.

b- The Display will show the following message: **E r 3**

Notes:

- (1) When the motor is stopped, the display shows "OFF" and when started the display shows the power value in %.
- (2) The button (P) can be active also when the motor is OFF.
- (3) The power motor value can be changed also when the motor is OFF.

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Maintenance:

#	Period	Issue
1	Week	Cleaning the suction filter
2		Check the check valve position (up)
3	2 week	Check the tube is clean
4	6 months	Diaphragm clean
5	6 months	Function check and noise

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Additive flow rate E-300

L/H	Value	Bar
0	10	7
4	26	7
10	30	7
29	40	7
52	50	7
69	60	7
87	70	7
116	80	7
133	90	7
153	100	7

L/H	Value	Bar
19	16	4
32	20	4
64	30	4
94	40	4
125	50	4
151	60	4
168	70	4
191	80	4
234	90	4
252	100	4
0	10	5
8	20	5
39	30	5
71	40	5
98	50	5
129	60	5
150	70	5
186	80	5
214	90	5
256	100	5
0	10	6
9	20	6
27	30	6
54	40	6
73	50	6
102	60	6
124	70	6
149	80	6
182	90	6
204	100	6

L/H	Value	Bar
21	10	1
59	20	1
94	30	1
131	40	1
166	50	1
200	60	1
228	70	1
258	80	1
291	90	1
314	100	1
21	13	2
49	20	2
86	30	2
120	40	2
153	50	2
181	60	2
205	70	2
236	80	2
266	90	2
301	100	2
19	13	3
36	20	3
72	30	3
104	40	3
140	50	3
171	60	3
189	70	3
224	80	3
245	90	3
287	100	3