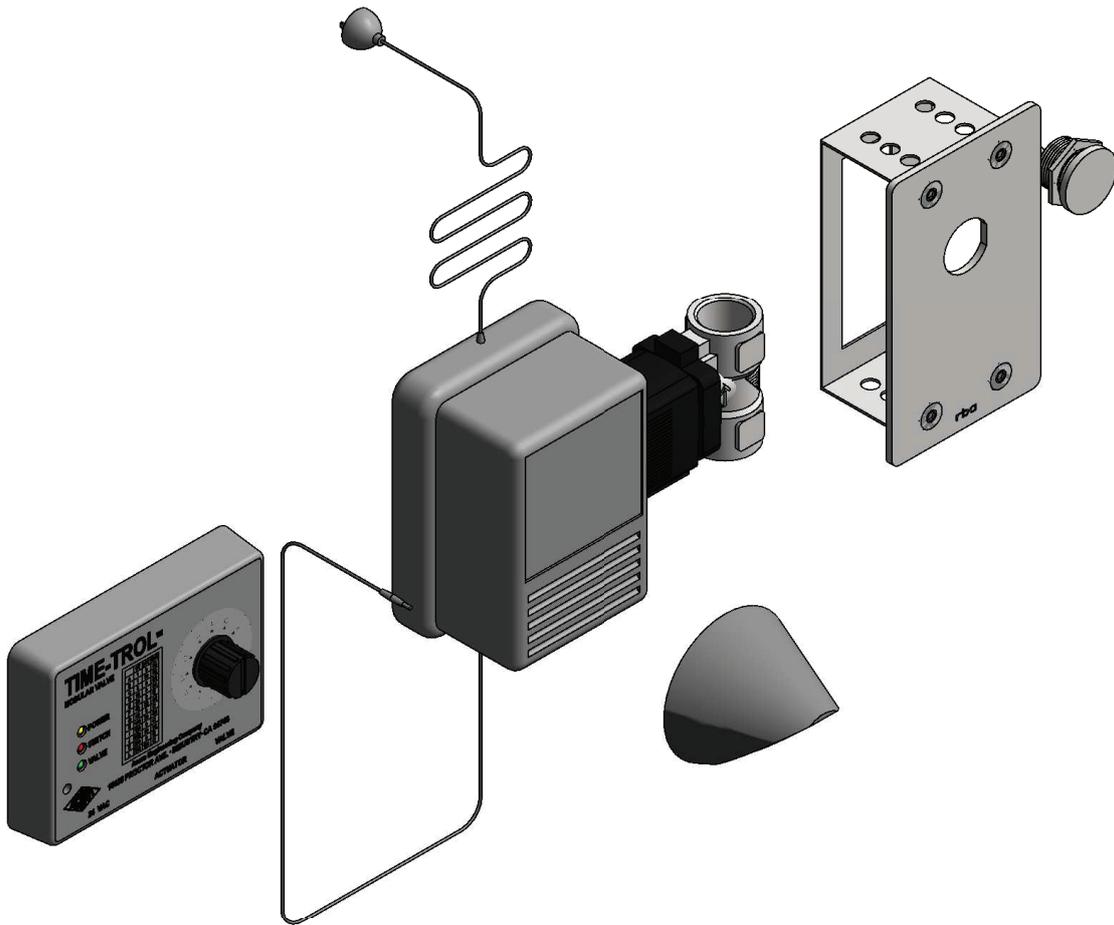


MODEL RBA8010-SERIES

RBA8010-100
RBA8010-101

Time-Trol™ Electronic Controller
As per RBA8010-100 + 7Lpm shower head



*RBA8010-101 shown



As improvements in the design and performance of RBA products are continuous, specifications may be subject to change without notice. The illustrations and descriptions herein are applicable to production as of the date of this Installation Instructions Sheet. Revised 10/21 © 2021 by RBA Group II/Model RBA8010-Series/1021

Components Included

1. Time-Trol Single I/O Electronic Controller
2. Plug Pack Transformer
3. Solenoid Valve with Plug [supplied with 3m wire]
4. Piezo Push Button and Plate [supplied with 3m wire]

Timing Options

Location	Runtime	Lockout Time Or Cycle Interrupt
A	1 second	No Lockout
B	1 second	30 seconds Lockout
C	5 seconds	No Lockout but cycle interrupt
D	10 seconds	No Lockout but cycle interrupt
E	30 seconds	No Lockout with cycle interrupt
F	1 minute	30 seconds Lockout
G	1 minute	No Lockout with cycle interrupt
H	3 minutes	30 seconds Lockout
I	3 minutes	No Lockout but cycle interrupt
J	5 minutes	30 seconds lockout
K	5 minutes	No Lockout but cycle interrupt
L	4 minutes	3 minutes Lockout

- Lockout [LO]: This function sends the unit into a 'blind' mode and is unable to be activated for a preset period.
- Cycle Interrupt [CI]: This feature enables the user to terminate the metering cycle at any time by simply re-pushing the actuator.

Requirements

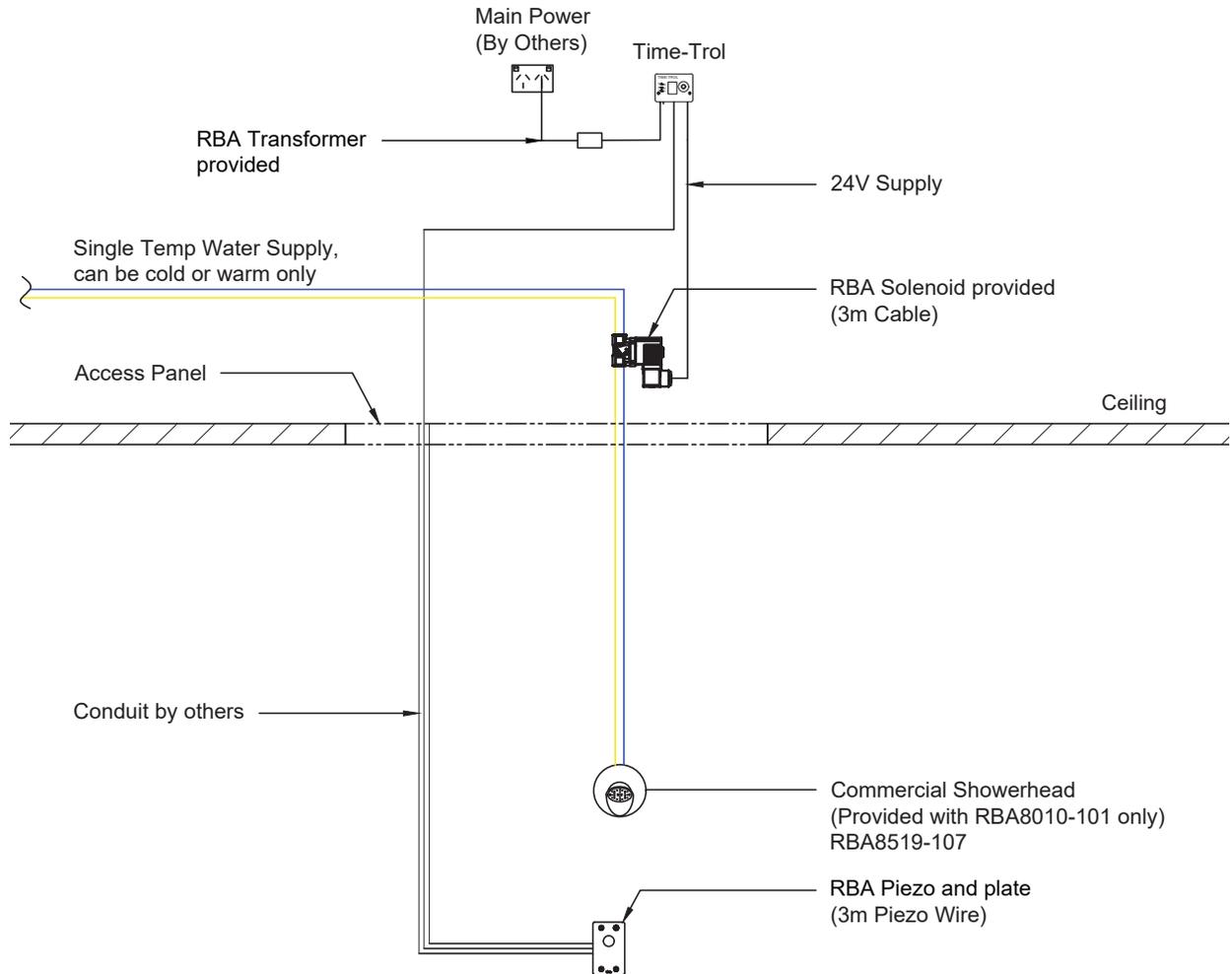
Electrical

Power Supply	240V AC GPO [by others]
Product Operation Voltage	24V AC
Force to activate Piezo	3-5 N
Maximum wire runs	20m
Piezo Wire Spec	7/0.30 1 pair overall Screen Cable
Solenoid Wire Spec	32/.020 ELCF2810 1.00mm ²

Hydraulic

Solenoid Operating Pressure	20-1000 kPa
Temperature	5-60°C
Connections	15mm BSP [G1/2"]

Drawing – Typical Installation



Cable Specification up to 20m

- Piezo - 7/0.30 1 Pair Overall Screen Cable
- Solenoid - 32/0.020 ELCF2810 1.00mm² Figure 8

Pre-Installation

- Installation should be carried out according to AS3500 and as per local codes.
- Access to Time-Trol™ and solenoid valve is required for servicing.
- Mains power GPO to be provided to the time-trol by the electrical services contractor.

Installation Instructions

1. Install conduit in the wall [conduit by others] to run Piezo push button wire from the Time-Trol™ to the Piezo location determined by the Architect.
2. Flush supply line, if water is of poor quality a line strainer should be installed to protect the solenoid valve.
3. Install Solenoid Valve in-line ensuring the flow is in the correct direction. Isolation and union type connections should be used for later servicing.
4. Mount Time-Trol™ to wall [fixings by others] close to the Piezo and Solenoid Valve to ensure wiring connections can be made. 3m of Piezo and 3m Solenoid wire are provided as standard.

Note: For wire runs greater than 3m and up to 20m please refer to the wire specification in the Electrical requirements to extend runs.

5. Mount Piezo on plate, run wire through conduit and mount the plate to wall [fixings by others]. Connect Piezo Push Button wires to the “Actuator” location as shown on the Time-Trol™ unit.
6. Wire the DIN plug to the + and – terminals only. Care should be taken to correctly align the pins on the valve DIN plug, with the socket. Failure to do so will result in the destruction of the unit. Unit runs on 24V AC [Low Voltage].
7. Plug the DIN plug onto the solenoid and connect bare end wires to the “Valve” location on the Time-Trol™.
8. Connect plug pack transformer wires to the “24 VAC” location on the Time-Trol™.
9. Select run time from available options.
10. Plug the transformer into the GPO, and turn on the power.
11. Turn on water and check for leaks.

Note: For dual temperature installations Time-Trol™ can be installed with hot & cold temperature handles, however back flow prevention devices are required on each supply to prevent cross flow.

Troubleshooting

Coloured Indicator Lights on each Controller permit quick and easy assessment for maintenance and operation:

1. Amber = unit is receiving power
2. Red = pushbutton has been activated
3. Green = solenoid valve is open. Green light goes off at the end of the timing cycle.

Please note the cycle option selected when trying to diagnose problems, as Lockout or Cycle Interrupt options may affect diagnosis.

Problem	Probable Cause	Solution
Valve does not open	No power No water supply Low voltage power supply Permanent actuator signal No actuator signal Controller in lock out mode Incorrect wiring of DIN plug Solenoid damaged	Check breaker/turn on power Open supply valves Replace plug pack transformer Replace piezo push button Replace piezo push button Check Time-trol operation Check wiring Replace solenoid valve
Valve always open	Solenoid blocked Solenoid damaged Control unit damaged	Clean solenoid Replace solenoid valve Replace control unit
Low flow	Strainers blocked Low pressure	Clean in-line strainers Check water supply
Incorrect run time	Incorrect Runtime Selection on control unit	Turn Power off, select operation & turn on

Parts

RBA Code No.	Description
RBA7125-999-002	Solenoid
RBA8010-999-001	Time-Trol Electronic Valve Controller
RBA8010-999-002	Plug Pack Transformer 24 V AC 1Amp
RBA8010-999-003	Piezo Push Button
RBA8010-999-005	Plug Pack Transformer 24 V AC 2Amp

