



www.e-vending.com

Majestic Fresh Brew Coffee Machine

COFFEE BREWER

COFFEE BREWER OPERATION

1. The coffee brewer motor is driven a little way to clamp the base of brewing chamber to the surface of the filter platform to seal. This position is determined by the index roller switch and the 2nd dwell in the cam.
2. Water & ground coffee are dispensed into top mixing bowl of brewer unit
3. After the water delivery stops, the brew/fusion delay time starts
4. At the end of the brew/fusion time, the brewer motor drives for a moment to lift the top plunger in to seal off the top of the brewer chamber. This position is determined by the index roller switch and the 3rd dwell in the cam.
5. The 1st stage of the air pump starts and runs for the programmed duration to pressurize the chamber and push the brewed coffee out and into the coffee whipper station
6. At the end of the 1st pumping stage there is a programmed delay, this is to allow the pressure to drop and for the coffee whipper chamber to empty (i.e. not to overflow)
7. At the end of the 1st delay phase the 2nd stage air pump starts, after approximately 1 second it should be possible to hear air pass through into the coffee whipper chamber, having pushed all of the liquid out of the chamber. The remaining pumping time will dry the spent coffee grinds.
8. At the conclusion of the 2nd pumping stage there is a further programmed delay, to further assist the drying process.
9. At the conclusion of the 2nd stage pump delay the air pressure switch is checked, if there is no pressure present, the brewer motor is switched ON to drive the brewer back to its home position, in the process the brew chamber will be lifted above the level of the spent coffee grounds and the filter belt is driven to remove/discard the grounds.

However, if air pressure is still present a waiting/time-out period is started, the pressure switch is then checked at 1 second intervals up to 20 seconds. This is to prevent the chamber opening under pressure and making a mess.

If the pressure subsides at any point up to the 20 seconds, the brewer motor will be switched ON to drive home as normal.

If air pressure is still present after 20 seconds, then the coffee brewer is put out of action, and COFFEE BREWER FAULT is displayed.

A 'BREWER FAULT' condition can be reset by switching the machine OFF and back ON.

However, if the cause of the pressure remaining is not remedied, then the fault condition will be reinstated at some earl point.