

STANWELL
TECHNIC LIMITED

*Installation & Operation of
Multi Keg
Changeover System
(with Pump)*

Multi Keg Changeover System (MKCOS)

The System Contains

MKCOS Unit with Power Supply Lead

Stanwell SMART FOB

Stanwell G56 Pump

The above are pre-mounted on a baseboard

Installation

Location

1. MKCOS is supplied with a fitted power supply lead.
2. Please ensure that a power supply socket is available and within distance.
3. **DO NOT CONNECT TO THE POWER SOURCE UNTIL INSTRUCTED.**
4. Secure the unit to the wall within reach of the product kegs and power supply.
5. Connect 3 kegs to the unit via the 3/8" JG inlet ports (located underneath the MKCOS unit) marked **KEG 1 in - KEG 2 in - Keg 3 in.**
6. Connect the product line (dispense tap) to the 3/8" JG **PRODUCT OUT** port on the gas pump (located on the right at the rear).
7. Connect the Vent tube to the 3/16" **VENT** port (located underneath the MKCOS unit).
8. Connect a regulated compressed air supply (30 to 60 psi) to the 3/8" JG inlet connection on the G56 pump.
9. Check all connections.
10. Turn on the air supply to the G56 pump.
11. Engage the keg couplers to the 3 kegs.
12. Connect the MKCOS power cable to mains socket and turn on. Ensure that the on/off switch is in the 'ON' position (located on the left side of the MKCOS unit).
13. The control panel will now indicate **STANWELL TECHNIC AUTO KEG CHANGER.**

Figure One illustrates the control panel when mains power is connected.

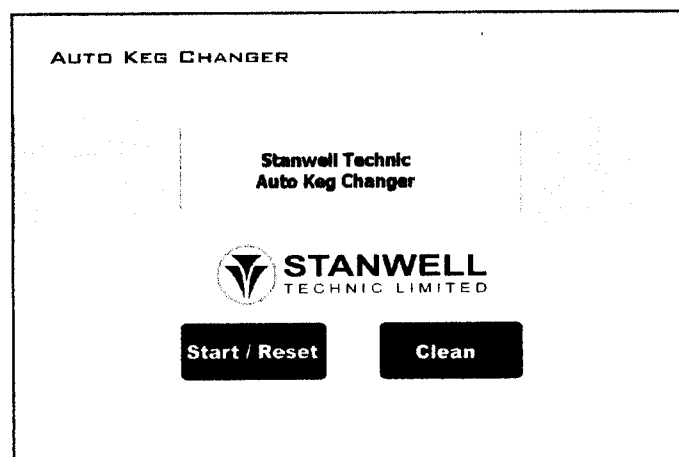


Figure One

14. Turn the lever on the top of the SMART FOB to **vent**.
15. Pressing the START/RESET button will instruct the MKCOS unit to start searching for kegs.
16. The control panel will now indicate **SYSTEM CHECK – CHECKING KEG 1**.
17. Remember to turn the FOB Detector lower lever to **serve**, this will release the float and raise it to the top of the FOB.
18. Product should now flow through the MKCOS unit and into the SMART FOB.

Figure Two illustrates on the control panel when the Start / Reset button needs to be pressed.

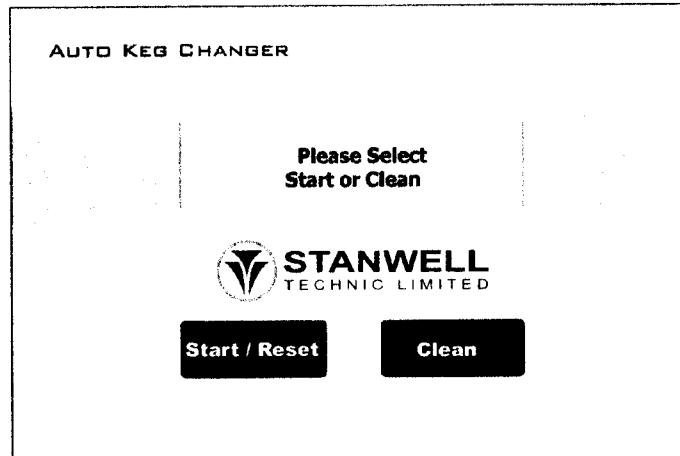


Figure Two

Figure Three illustrates the control panel when the Start / Reset button is pressed.

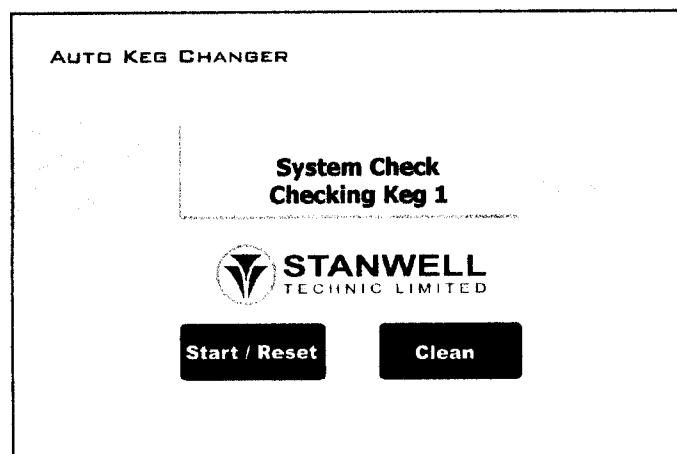


Figure Three

19. On the MKCOS Keg 1 dispense should be indicated.

Figure Four illustrates the control panel when unit is in normal running mode.

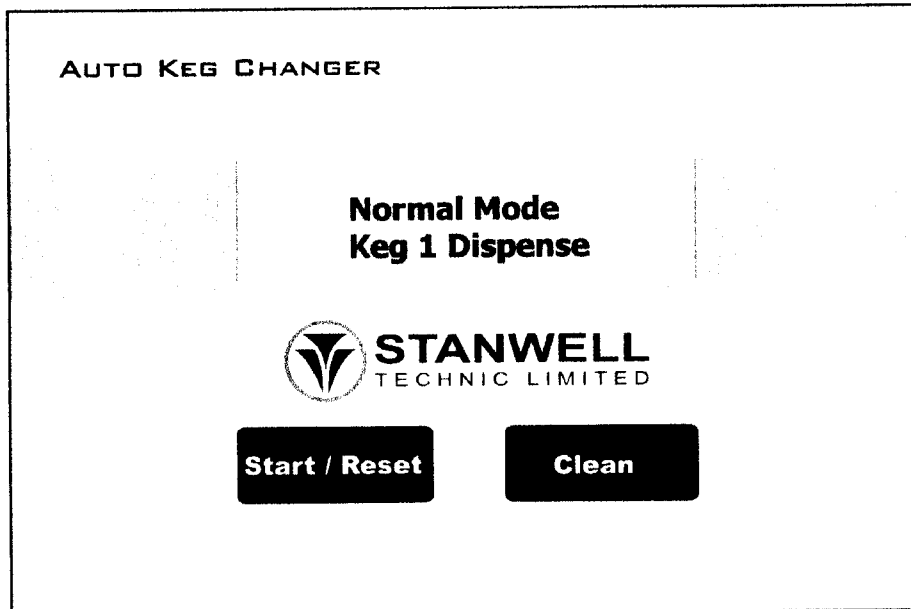


Figure Four

Operation

Dispense

1. The control panel should now indicate **NORMAL MODE – KEG 1 DISPENSE**.
2. Product can now be dispensed.
3. The pump drive pressure can be adjusted from 30 to 60 psi to suit extended product lines.
4. The system works with maximum keg top pressure of 45 psi.
5. The system works by monitoring the float position in the SMART FOB.
6. When the float begins to drop, the 'hall sensor' operates by opening the bleed solenoid of the SMART FOB. If after approximately 5 seconds the float has not relocated at the top of the chamber the control panel will activate by closing the Product flow solenoid, closing Keg 1 inlet solenoid and opening Keg 2 inlet solenoid.
7. This will rapidly re-prime the system, making the float in the SMART FOB chamber rise to the top. This activates the control to close the Vent solenoid and open the Product flow solenoid.
8. The above is repeated when Keg 2 is depleted bringing Keg 3 into use. When the last keg has been depleted the unit will search for a full keg. If no full keg is found, the control will shut down the system. The control panel will now indicate
9. **CHANGE ALL KEGS – PRESS RESET.**
10. To re-set the system, simply connect new kegs and press the START/RESET button. This will instruct the MKCOS unit to start searching for kegs.
11. The control panel will now indicate **SYSTEM CHECK – CHECKING KEG 1 (Figure Two)** and then **NORMAL MODE – KEG 1 DISPENSE (Figure Three)**.
12. Product can now be dispensed.

IN THE EVENT OF A POWER FAILURE THE UNIT WILL CONTINUE TO DISPENSE PRODUCT UNTIL THE KEG/COMPRESSOR RECEIVER IS DEPLETED

Figure Five illustrates the control panel when all the kegs are empty.

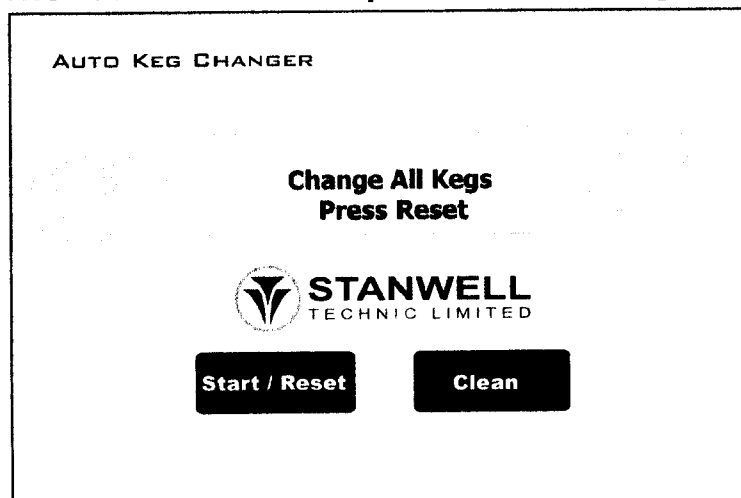


Figure Five

Line Cleaning

1. Disconnect the keg couplers from the product kegs and attach to the Line Cleaning Ring Main.
2. Open the dispense tap.
3. Press the **CLEAN** button on the MKCOS Control Panel.
4. In this mode the SMART FOB Vent solenoid valve will initially open for 6 seconds and then the 3 keg inlet solenoids will open by rotation i.e. 1-2-3 for approximately 90 seconds.
5. The SMART FOB Vent solenoid will then open for another 6 seconds and the above cycle repeats to clear the SMART FOB chamber of any cleaning solutions.
6. Flush through as normal with cold clean water.
7. Disconnect the keg couplers from the Line Cleaning Ring Main and reconnect to the 3 product kegs.
8. Prime the system with product.
9. Press the **CLEAN** button and hold for 1 second.
10. The unit will then switch back to **SYSTEM/CHECK** and then back to **NORMAL MODE**.

Figure Six illustrates the control panel when the system is in clean mode.

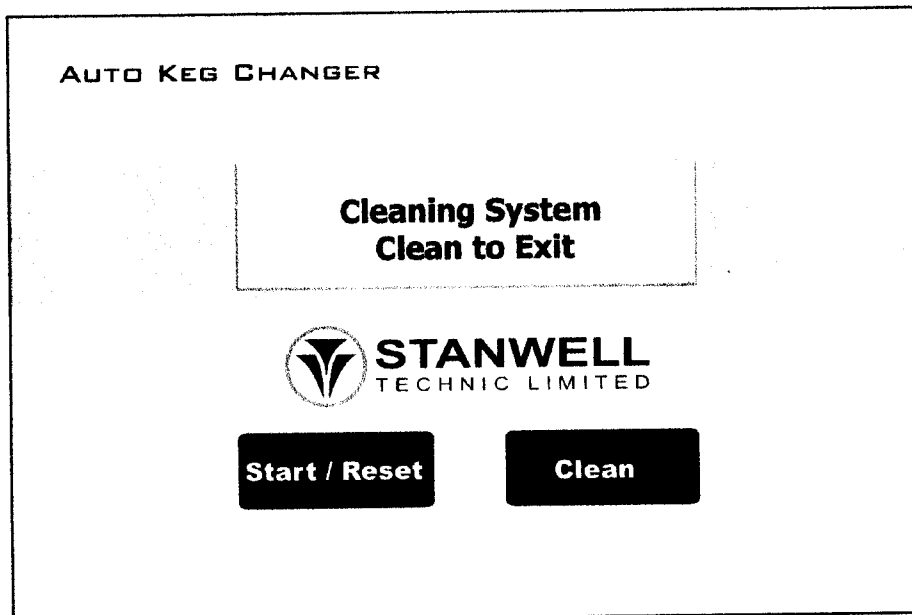


Figure Six

Technical Specification

Input Voltage	230v ac (110v if specified).
Internal Transformer Operating Voltage	24v dc.
Solenoid Valves (Dry)	Keg Solenoid Valves x 3 latching type. Bar Solenoid Valve x 1 latching type.
Product (keg) Inputs	3 x 3/8" JG Push Fit.
Vent Outlet	1 x 3/16" JG Push Fit.
Product Outlet	1 x 3/8" JG Push Fit.
Enclosure	Flame Retardant Polystyrene. Conforms to EN60529/DIN VDE 0470-1. Mechanical strength to VDE 0470 part100. Conforms to IK07 (2 Joules). IP 66 rated.
Complies with	BS EN 60335-1. LVD 73/23/EEC. CE.