

## Section Two

# POWER CLEAN FILTER MODELS WITH TOWER WATER FEED

**Models: DU910PFG, DP920PFG, DU920PFG**

## THEORY OF OPERATION

### Console Configuration

#### Model DU910PFG



#### Models DP920PFG, DU920PFG



Fig. 2-1

### POWER CLEAN FILTER Pump and Motor Operation

1. Once the tub has filled with hot water the motor begins to rotate forcing the water up through the pump chamber and out through the spray arms. Two spray jets on the underside of the lower spray arm direct water down onto the fine mesh screen of the pump housing to clear soils that may collect there during the wash cycle. (Fig. 2-2)
2. As water and soils return to the lower pump area, the chopper blade grinds the particles into smaller sizes that then pass through the perforated plate into the upper chamber of the pump. The pump impeller causes the soil laden water to be lifted and moved to the outer edges of the pump chamber where they are forced into the separator. Clean water is then forced up through the spray arms and fine mesh screen. (Fig. 2-3)
3. When the drain cycle begins, the drive motor changes direction. This relieves the pressure on the two check balls, opening the drain system.
4. Water is pumped from the tub carrying soils from the separator into the drain sump of the pump. (Fig. 2-4)
5. Soiled water is pumped out of the dishwasher through the check valve and drain hose. (Fig. 2-4)

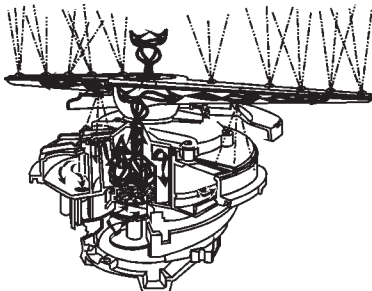


Fig. 2-2

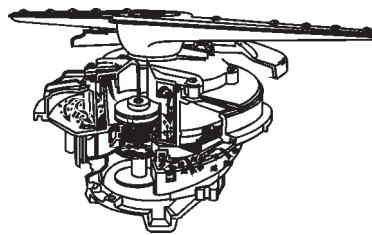


Fig. 2-3



Fig. 2-4