

Duro Zone
35220
AQC Dyna-Fresh®



USE

The DuroZone **Dyna-Fresh®** Air Quality Control Center was designed to periodically introduce outdoor air into the indoor environment. A programmable (in 15 minute intervals) 24 hour timer allows flexibility in customizing fresh air intake to various seasonal and geographical conditions.

APPLICATION

The DuroZone **Dyna-Fresh®** was designed for use with DuroZone 24 volt Spring Return Dampers - Series SPRD024 or 110 Volt spring return dampers - SPRD110 Series. The **Dyna-Fresh®** meets the requirements for fresh air intake as outlined by the Washington State Energy Code.

OPERATION

The **Dyna-Fresh®** is supplied with both a user programmable timer and a manual over-ride switch. To set the timer, simply rotate the dial in a clockwise manner lining up the current time with the white arrow.

To set an "ON" cycle, gently push the appropriate black indicator towards the center of the timer. A small click will be heard and felt to confirm a positive setting. Every "ON" setting will keep the circuit energized for a period of fifteen minutes.

When the **Dyna-Fresh®** is put into an "ON" state, either by the timer setting or the manual over-ride switch, the following occurs:

- 1) 24 volts is sent to terminals D1 and D4 - opening a spring return damper.
- 2) 110 volts is sent to terminals F1 and F2 - activating an exhaust or whole house fan.
- 3) R makes to G1 - activating the equipment fan.
- 4) G1 to G2 is broken - disabling the possibility of a backfeed through the thermostat turning on the compressor.
- 5) C makes to NO and breaks from NC.

INSTALLATION

The **Dyna-Fresh®** should be located in a convenient location where access to the timer mechanism and manual over-ride switch is not impaired. The **Dyna-Fresh®** cabinet has two keyhole slots at the top to facilitate mounting.

WIRING

Wire the **Dyna-Fresh®** as follows:

110 volt 60hz supply to L1 and L2.

Whole house Fan to F1 and F2.

(Maximum contact rating = 10 amps @ 120VAC)

24 volt DuroZone Spring Return Damper (SPRD024), to D1 and D4.

R on the **Dyna-Fresh®** to R on the equipment.

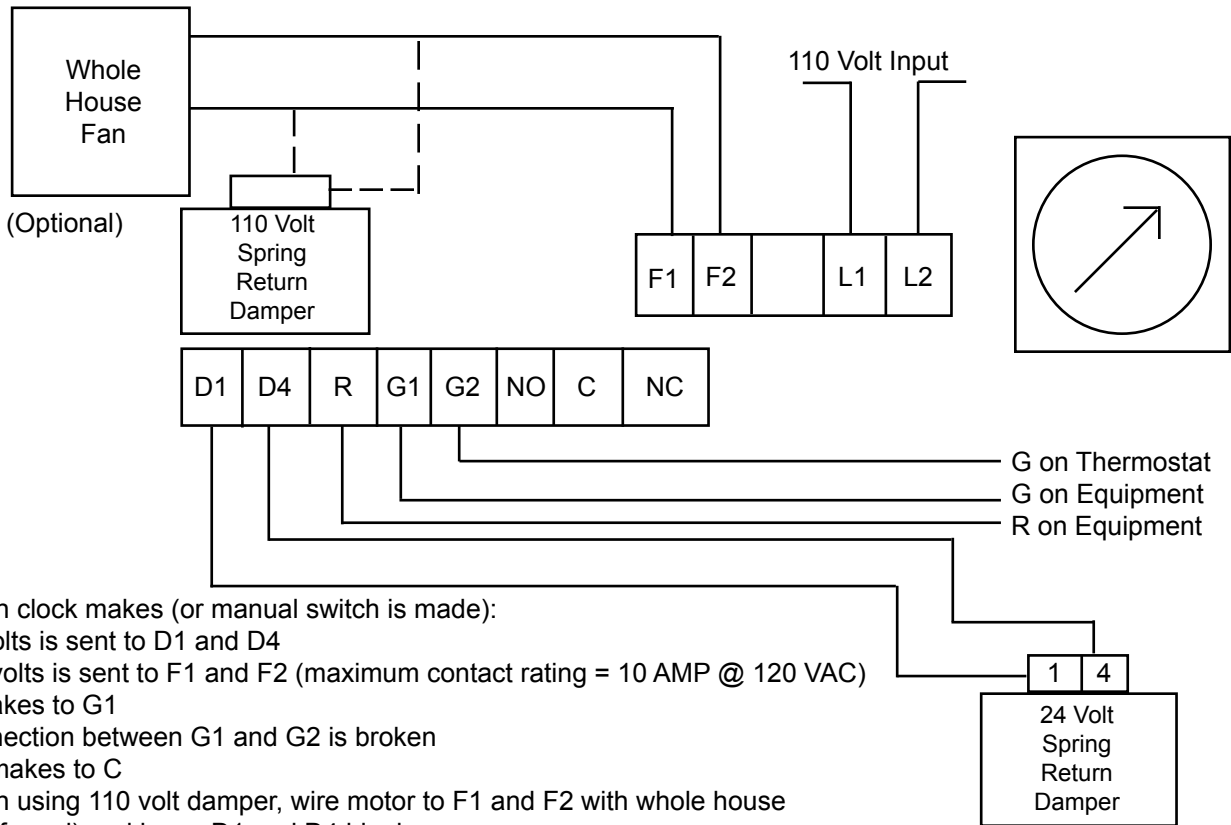
G1 on the **Dyna-Fresh®** to G on the equipment.

G2 on the **Dyna-Fresh®** to G on the thermostat.

Wire all other equipment as per normal installation.

If using a 110 volt Spring Return Damper, such as DuroZone's Series SPRD110, wire the damper to F1 and F2 in conjunction with the exhaust or whole house fan.

Dyna-Fresh® AIR QUALITY CONTROL CENTER



Internal 24 volt transformer is fused on primary and secondary sides.

Dyna-Fresh® ALTERNATIVE WIRING USING EXISTING BATHROOM FAN TO EXHAUST STALE AIR

