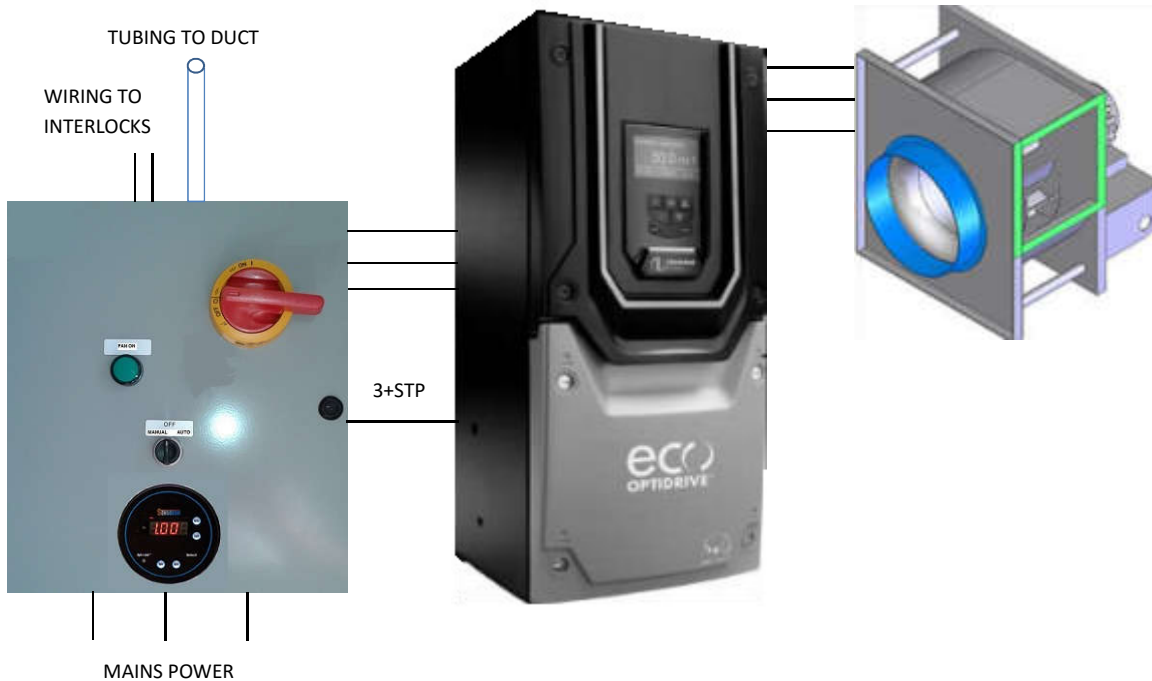


VFD-BASED EXTRACTION CONTROL SYSTEM TYPE 2



This control system employs a Variable Frequency Drive (VFD) to full advantage for fan motor control. The system provides two operating modes: MANUAL – immediate start and run at full speed; AUTO – start with interlocks and run at constant duct pressure. The system provides the following features:

- Motor ramp-up/ramp-down to avoid costly high-current fast starts and extend motor life
- AUTO mode:
 - may be interlocked with damper-open or other demand switches so as to provide first-on/last-off function
 - maintains constant duct pressure regardless of how many dampers are open or the state of filters
 - energy-efficient – use only the energy required
 - lower noise levels

The control system is applicable to any extraction architecture:

- Hose reel
- Fume extractor
- Hood & duct
- Direct connect hose
- etc.

It accommodates input voltages of:

- 200-240/1/60
- 200-240/3/60
- 380-480/3/60
- 575-600/3/60

It accommodates motor powers from 1 to 250HP. Most VFDs are available with IP55 rating. Numerous options are available, including built-in fused disconnect (shown).