Introducing the 'iVAC Contactor'.

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BCTINT iVAC is pleased to introduce the 'iVAC Contactor'. Once again we have been listening to your needs and this time we have a solution for those dust collectors that require power that exceeds the specification of the iVAC Switch Box or iVAC Pro Switch.
The main limitation with respect to controlling dust collectors is the start up current surge and not the running current. In many cases the start up current can be as much as four to five times the running current and last for several seconds. This initial surge, can over time damage the contacts in the iVAC Pro Switch units.
The iVAC Pro Switch Box and iVAC Pro Switch115xx units which operate at 115Vac, have a power switching capability of up to 1HP. In the case of the iVAC Pro Switch 24020 that operate at 240Vac, this model has the ability to control dust collectors up to 2HP.
The following table identifies the typical power requirements of a range of commercially available dust collectors

Dust Collector HP	115Vac	230Vac single phase	230Vac 3 phase	600Vac 3 phase
Up to 1 HP	7A			
1.5 HP	12 to 14A	7A		
2 HP		9A	5A	
3HP		18A	9.5A	3A
5 HP		21A	14A	5A
7.5 HP			21A	7A
10 HP			26A	9A

An area of concern is the 1.5HP dust collectors that are wired to run at 115Vac. Some of these units have a running current of 16Amps and start up surge currents in excess of 60Amps. This level of current can over load the contacts and often trip the circuit breaker of the iVAC units designed to operate at 115Vac.

As a result BCT iVAC strongly recommends the use of the iVAC Contactor for 1.5HP dust collectors operating on 115Vac and for any dust collector over 2 HP operating on 230Vac.

The 'iVAC Contactor' is basically a heavy duty 3 pole relay; housed in an electrical box. It can be controlled from an iVAC Switch Box or an iVAC Pro Switch 115xx.
It has the ability to with stand start up currents of up to 150 Amps and then maintain a running current of up to 40 Amps. The contacts are also rated to operate at up to 600Vac, either single or three phase.
By referring to the above table it can be seen that the 'iVAC Contactor' has the ability to control dust collectors up to 10HP.
Since the installation of the contactor usually requires a custom connection, the installation must be performed by a certified electrician. The installation guide can be seen on this web site
The iVAC Contactor kit contains a contactor, electrical box; interconnect cable to the iVAC Switch Box or iVAC Pro Switch115xx and a set of required hardware. All electrical materials are UL certified.

Specification.

Electrical Box	8" x 8" x 4" UL E109311
Contactor Rating	600Vac 150Amps surge current 40 Amps running current. 3 pole. 115Vac control voltage. UL E249187
Control Cable.	115Vac. 6'long. UL approved