

StaticCharge™ Intake Screen Air Scour

(to be completed only in conjunction with StaticOrb Quote Request Form)

Client Data

 Name:

Project Name:

Company:

Address:

 City:

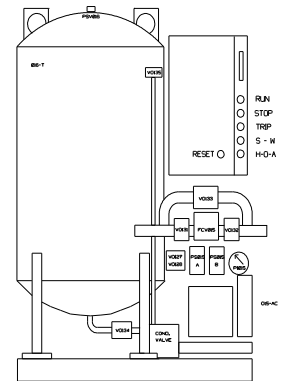
 Province:

Post Code:

 Phone:

Fax:

Email:



System Options:

- Manual System** - recommended when daily or less frequent operations are justified by site conditions. After checking to verify that the system is turned on and that the receiver is at the desired pressure, the operator quickly opens the valve, releasing the air and producing the backwash. The operator closes the valve, and the receiver is refilled by the compressor. The compressor is a splash lubricated, 60% duty cycle unit, equipped with an adjustable automatic start/stop pressure switch. If the system has additional screens and valves, the procedure is repeated.
- Manually Initiated System** - uses a pneumatic actuator to open the valve. Operation of the valve is accomplished by pushing a button on the control panel. The valve opens quickly and remains open for a few seconds. Other equipment is the same as the Manual system. The compressor is a splash lubricated, 60% duty cycle unit, equipped with an adjustable automatic start/stop pressure switch. This system is suggested for situations where daily or less frequent operations are required and when valve sizes are larger than 100mm, or a push-button system is preferred.
- Timer Initiated System** - automatically opens the designated valve when the selected time is reached. The valve remains open for a few seconds and then closes. For multiple valve systems, each valve is opened in sequence only after a receiver recharge cycle. The compressor is pressure lubricated 100% duty cycle. The valves are pneumatically actuated with manual override and limit switches to indicate valve position in the full open or closed position. Included is a relatively sophisticated control panel. In addition to the main power connection points and lockable disconnect, the control panel accommodates all of the timer-based initiation circuitry including: transformer, adjustable timer, interlock to ensure that the receiver tank is at pressure prior to air release, valve operation control logic, system selection switches for manual or automatic operation of the valves and the compressor, and illuminated push buttons for manual



valve actuation that are lit at full valve travel to indicate valve position. If the system has more than one valve, then the control panel also includes sequencing circuitry.

- Fully Automatic System** - incorporates a sophisticated array of control operations and inputs. Like all air scour systems the principal components are the air receiver, the air compressor, the valves, and the control panel. For fully automatic systems two pressure lubricated 100% duty cycle compressors are recommended. The compressors operate in alternating mode with one compressor always in a standby or backup status. The valves are pneumatically actuated with manual override and limit switches to indicate valve in the full open or closed position. The control panel is more involved than timer initiated systems and includes, as a minimum, all components in the timer initiated system, plus Inputs: remote cycle start, differential pressure initiated cycle start; Outputs: cycle in process, receiver tank at pressure ready for new cycle start, compressor run on, compressor fail to start, low compressor oil pressure, valve fail to open, valve fail to close, high differential pressure; Control Activities: automatic alternation of lead/lag compressor, automatic start of lag compressor if lead compressor fails to reach pressure within selected time, cycle start from remote signal, automatic shut down and alarm with major fault, and automatic alarm with minor fault.