

Aerodyne's GPC Dust Collector Helps to Keep Brazilian Oil Supplier in Check with IBAMA Regulations

A major oil supplier operating in Brazil was required by the Brazilian Institute of Environment and Renewable Natural Resources, or IBAMA, to install dust collectors on its oil rig supply ships. The supply ships provide concrete to the oil rigs and use compressed air to pneumatically transfer the concrete from the ship up to the storage vessel on the oil rig. When the air from the transfer is released into the atmosphere, some particulate is left in the air. While a dust collector would solve this, the main issue the facility was facing was that there was a limited amount of room on the supply vessels that would accommodate most dust collectors. The only solution would be a system with a compact footprint that would not require too much head room.



The oil supplier turned to Aerodyne Environmental, the industry's leading manufacturer of industrial cyclonic dust collectors and dust collection valves and its Ground Plate Cyclonic Dust Collector (GPC). The compact, horizontal design was ideal for the space limitations on the operator's deck. The GPC dust collector is a high-efficiency cyclone dust collector. It has several distinct advantages over common high-efficiency cyclone dust collectors. The spiral inlet of the GPC directs the dirty gas stream toward the ground plate and hopper of the collector. Coupled with the compact size of the collectors, this gives the GPC the ability to be installed horizontally with virtually no negative impact on collection efficiency.

After working with Aerodyne on the layout for the dust collectors on the rigs, plant operators initially purchased two GPC-18s with the durable stainless steel construction option as a trial. The company was so pleased with the performance of the Aerodyne GPCs, it purchased 20 more for its other oil rig supply ships.