

Brr! Baghouse Goes Cold in Oil Drilling Application

A company in the oil drilling industry was looking to find a dust collector that would withstand arctic conditions. The standard bag house is not able to withstand these conditions due to the fact that cold conditions compressed air and bag houses have limited tolerances, making the conventional bag houses an inefficient way of dust collecting for this company. In hopes of finding a solution to its problem the company turned to Aerodyne.

Aerodyne suggested the company use the SplitStream dust collector to replace the baghouse. The SplitStream dust collector achieves high-efficiency by forcing dirty gases into a powerful centrifugal motion. There are no moving parts to bind up in the arctic temperatures and the centrifugal action throws dust particulate out of the gas stream. A secondary air stream carries the dust particulate to the hopper, keeping dust away from the collector walls and reducing sticking and abrasion.

As a result, the SplitStream virtually eliminates maintenance problems common to other types of cyclones. The prevention of particulate contact with external walls is a major factor in the unit's ability to achieve high efficiency ratings. Since the SplitStream does not use bags or filter cartridges, the collected product is easily returned to the process for reuse or sent out for disposal.

Furthermore, this dust collector removes 99% of dust that are 7 microns, making the SplitStream an ideal fit for the client's dust collecting needs. The SplitStream's ability to function in arctic conditions without losing its ability to effectively collect dust made this product perfect for the customer.