

MIKRO-PULSAIRE FILTER UNIT FOR PIGMENT PRODUCTION

For a renowned German manufacturer of specialty chemicals, MikroPul Cologne supplied a Mikro-Pulsaire 232 HP 3700 TRH CIP filter unit. Application is the recovery of micronized iron-oxide pigments. Offering a filter area of 320 m², 17.000 m³ incoming air with a total dust amount of 4 tons per hour can be processed. MikroPul ensures clean gas values of 4 mg/m³ maximum, leading to a filter efficiency of more than 99,998%. To comply with the clean gas requirements anytime, 232 needle felt filter bags with Gore-Tex PTFE membrane finish were built in, each 11 feet long. The operating temperature ranges between 230° and 260°C at an outdoor installation. Hopper and housing (steel grade 1.4301) are equipped with a thermplate vessel jacket heating to provide this temperature level any time.

A Cascadair™ hopper inlet increases filter performance and bag life, gradually diverting portions of the incoming gas in stages. The housing also has a standard built in CIP system with rotating spray nozzles which allow – together with a high surface quality and polished welding seams inside the housing - thorough cleaning for product change options. Maintenance works like bag exchange are easily carried out inside the walk-in plenum from the clean gas side (no contact with raw gas).

For bag fastening, MikroPul supplied the reliable and comfortable clampless Bayonet-Venturi-Technology in 1.4581 steel grade. The integrated diaphragm valve system (IMV) is supplemented with sound suppressors for low noise jet-pulse bag cleaning. Additional connections for level indicators or tappers can be attached to the housing.



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