

Camfil Farr Handte Vortex Wet Scrubber



Stock No	MER300
Manufacturer	Camfil Farr
Model	STW-RW 10
Year of Manufacture	2016
Serial	5000478
Condition	From a working environment, Good Condition
Approx Duty CFM / M ³ /Hr	15000 M ³ /Hr
Filter Area ft ² / m ²	No Filter Elements Required
Other Info	3000 Pa
Location	Our Central Warehouse, Aldridge, UK
External Dimensions (WxDxH mm)	1860x2300x4950mm+1700x1220SludgeConveyor

Description

The Camfil Farr Handte Vortex Wet Scrubber is a highly efficient and reliable solution for removing coarse particles from industrial exhaust gas streams. Designed to handle light to medium dust loads, this system is particularly suited to applications involving hazardous or explosive dusts, including steel, aluminium, magnesium, and titanium, as well as chips and process debris.

Engineered for operational safety and efficiency, the Vortex wet scrubber effectively captures a wide range of airborne contaminants, including metal dusts, rubber and plastic fines, fibres, textile dust, and sticky powders. With airflow

capacities ranging from approximately 1,200 m³/h up to 60,000 m³/h (700–35,000 cfm), it offers flexible performance across a broad spectrum of industrial processes.

Operating Principle

The particle-laden exhaust gas is introduced tangentially into the unit, creating a vortex across the surface of the scrubbing liquid, typically water. As the airflow passes through this vortex zone, the liquid is broken into fine droplets, ensuring intensive contact between the gas and liquid phases. This process enables efficient capture of particulate matter.

The contaminated droplets are then separated from the cleaned air via an integrated demister system. Through centrifugal forces within a spiral flow path, the scrubbing liquid and captured pollutants are removed, while clean air is discharged via a downstream fan. Collected contaminants settle within the scrubbing tank and can be removed through appropriate discharge systems.

Key Benefits

- Safe handling of flammable and explosive dusts
- High separation efficiency for mid-sized particles
- Suitable for light to medium dust loads
- No moving internal components or spray nozzles
- Low maintenance and reduced operating costs
- Continuous operation with high plant availability
- Compact footprint with minimal space requirements
- No filter elements required

Applications

Ideal for industrial processes generating particulate emissions, including:

- Metal processing (steel, aluminium, magnesium, titanium)
- Machining and finishing operations producing chips and dust
- Rubber, leather, and plastic processing
- Textile and fibre applications
- Handling of sticky or difficult powders

A robust, low-maintenance wet scrubbing solution, the Handte Vortex system provides safe, efficient air cleaning for demanding industrial environments.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.