



# HANDTE VORTEX HANDTE VENTURI

wet scrubbers

**Innovative  
applications through  
tried-and-proven  
technology:  
high performance  
wet scrubbers**



SPEED  
SAFETY  
SERVICE  
WOW

## MISSION STATEMENT

### WHAT WE DO:

We will clean dust, mist and fumes from factories, making them safe and more productive.

### HOW WE DO IT:

We will ship collectors fast while still giving the customer what they want.

We will be the most customer and sales rep friendly company in the dust and mist collection industry.

We will make the best dust and mist collectors in the business from an end user operation and maintenance viewpoint.



## CLEANING UP THE WORKPLACE, FOR TODAY... AND TOMORROW

Saving energy and increasing production efficiency while controlling indoor air quality is a challenging aspect of plant management. Dust and mist collectors - whether used for pollution control or product recovery - can impact all these areas. Camfil Air Pollution Control (APC) can help solve your dust and fume problems.



## TRUST IN OUR EXPERIENCE.

Our skilled and qualified team of engineers are engaged in designing and implementing the best solutions for all individual requirements. We employ the best technology and select optimal components and accessories. We ensure operational availability and economic efficiency.

## LOOKING FOR SAFE SOLUTIONS TO HAZARDOUS SUBSTANCES IN YOUR PRODUCTION PROCESSES?

	<b>STEAM:</b> washing machines, waste treatment, soldering, die-casting machines, releasing agents, paint vapors, cooling aggregates, spark discharge material removal machines, paint-stripping units, electro-plating units, lead production, electro-galvanizing plants, foundries
	<b>ALUMINUM MAGNESIUM DUST:</b> minimal lubrication, grit production, chip removal, de-burring, brushing, separating, finishing processes, forging processes, grinding and polishing
	<b>ALUMINUM MAGNESIUM CHIPPINGS:</b> drilling, machining, rough machining, sawing, de-burring, forming processes, recycling systems
	<b>RUBBER/LEATHER/PLASTIC FINES:</b> shoe manufacturing, tire re-treading, plastics processing, foils production, extruders, modeling, textiles manufacturing
	<b>FIBERS/FLUFF/TEXTILE DUST:</b> polishing processes, paper machines, waste sorting systems, textile processing, recycling plants, insulation material production, asbestos abatement, food processing, grain processing
	<b>STICKY POWDERS:</b> pharmaceutical processes, manufacturing of food, animal feed, dyes, mold and die manufacturing, printing machines, tire and chip production, adhesive applications, textile finishing, mixing and conveying plants, plastics processing, ceramic coating
	<b>GREASY VAPORS:</b> Canteens, animal carcass disposal, plants, food production, wash units, mix stations, pharmaceutical products, de-greasing plants, meat processing, biofiltration units
	<b>FLAMMABLE/EXPLOSIVE DUSTS:</b> grinding processes, finishing, polishing, blasting machines, explosive production, forging presses, grain processing, printed circuit board production, brake test rigs, recycling and drying units, power plant engineering, mining
	<b>CARBON DUSTS:</b> bentonite applications, furnace soot, mix stations, tire production, cement industry, mining, mold and die production, dye production, electrodes manufacturing

## CAMFIL APC HAS YEARS OF EXPERIENCE WORLDWIDE IN WET SCRUBBING TECHNOLOGY.

### THE PHYSICAL ACTIVE PRINCIPLE:

Particles dispersed in the gas stream are brought into contact with a scrubbing fluid in order to bind them. This requires the generation of a phase interface as large as possible between the gas (air) and the liquid. The gas stream is then deflected whereby the inertia causes the particles to move to the surface of the liquid where they are contained.



## HANDTE VORTEX

### OUR WET SCRUBBER PROVIDES NUMEROUS ADVANTAGES:

- No filter elements required
- The safest solution when dealing with flammable/combustible materials
- Universal applications
- High-level separation combined with safe operating technique
- Low-maintenance

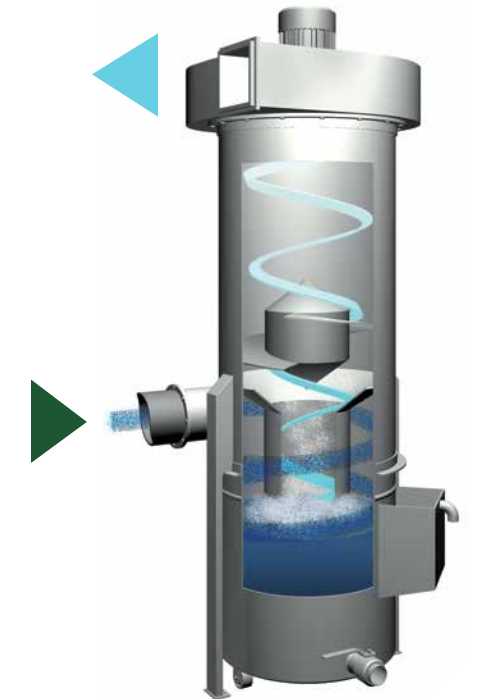
Wet scrubbing technology ensures compliance with:  
NFPA & EPA



## SIMPLY SELECT THE BEST WET SCRUBBER FOR YOUR FACTORY'S NEEDS.

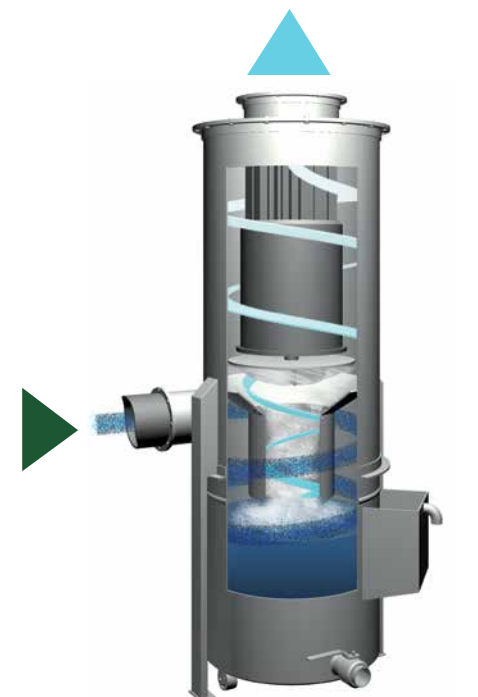
### THE HANDTE VORTEX MADE SPECIAL FOR DEALING WITH FIBERS AND FLUFF, INCLUDING STICKY MATERIALS

The Handte Vortex is a combination of centrifugal and water separator with a downstream ventilator which works on the water swirl principle. The pollutant-laden air is introduced at a tangent and settles as an eddy sink on the surface of the water. The special routing of the air flow generates an intensive swirl of water through which the pollutant-laden gas stream is led. Intensive mixing with the scrubbing fluid causes the pollutants to bond and precipitate. The radial-mounted spiral separates the liquid through centrifugal force from the pollutants bound up in the gas stream. The cleansed air is sucked in by the downstream ventilator and then blown out.



### THE HANDTE VORTEX DUAL: EXTREME VERSATILITY COMBINED WITH ROBUST DESIGN TO MEET A WIDE VARIETY OF APPLICATIONS

The Handte Vortex Dual works with an integrated ventilator. Pollutants are separated from the air stream by means of a combination of water swirl and disintegration principle. Pollutant-laden air enters the middle section at a tangent and deflected. An air flow is routed to generate a strong swirl of water through which the contaminated raw gas must pass. Ultrafine particles are filtered out by means of the ventilator blade which is simultaneously employed as a disintegrator whereby non-separated particles are mixed intensively with water and flung through centrifugal force into a wall of water to achieve a high level of separation. The wet particles flow back into the bottom part of the equipment with scrubbing fluid where they then settle in the water-stilling zone. Then, the cleansed gas escapes through the central ventilation pipe.





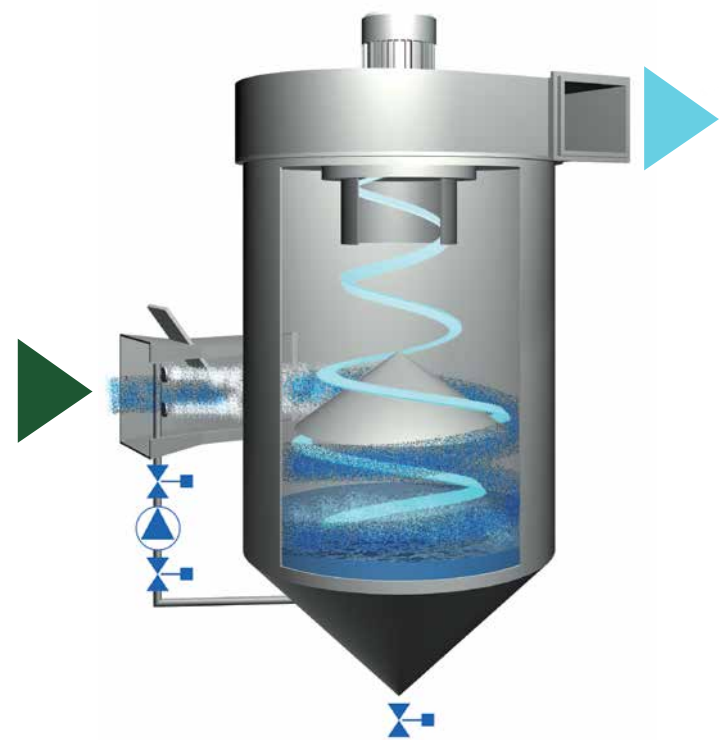
# HANDTE VENTURI

## HIGH PERFORMANCE WET COLLECTOR

Effective system with Venturi principle for meeting highest demands in efficiency and heavy loadings.

### BENEFITS OF THE VENTURI:

- Safe and most cost effective solution for combustible dusts
- Highest operational safety
- Low spare parts costs
- Space saving design
- Dust free maintenance



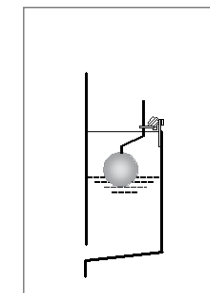
## ALL OF OUR WET SCRUBBERS PROVIDE NUMEROUS ADVANTAGES:

- No filter elements required
- The safest solution when dealing with flammable/combustible materials
- Universal applications
- High-level separation combined with safe operating modus
- Low-maintenance assembly

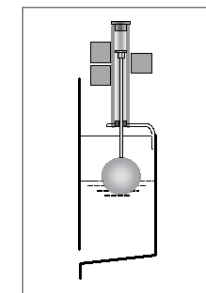
## SELECTION OF COMPONENTS:

Modular system components ensure the best possible use; these include:

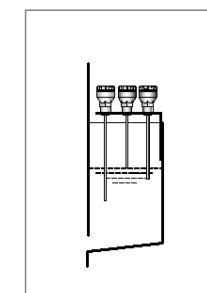
### WATER LEVEL CONTROL



Mechanical float gages (WR).



Electro-magnet gages (FMR).



Conductive rod probe (FKR).

### ELECTRICAL CONTROLS

Electronic/protection/stored program controls

### SLUDGE DISCHARGE FACILITIES

#### Variant - Tank K



Sludge tank.



Tank with strainer basket.



Sludge tank with valve.

#### Variant - Hopper T



Hopper with slide valve.



Hopper with squeeze valve.



Hopper with C-coupling.





# HANDTE VORTEX HANDTE VENTURI

wet scrubbers



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