

# **BRINK<sup>®</sup> FAVS** FUMING ACID VENT SYSTEM



## SAFE AND EFFICIENT COLLECTION OF OLEUM, LIQUID SO<sub>3</sub> AND CHLOROSULFONIC ACID SMOKE

The Brink° Fuming Acid Vent System by MECS° Inc. is an engineered, skid mounted sub micron smoke removal device that is designed to control problems created by fuming acids that are vented to the atmosphere. Typically the application is related to these fuming acids being pumped into storage tanks, tank cars or tank trucks. The atmospheric vents on these tanks are ducted to a Brink° FAVS to avoid the dense, highly corrosive and toxic smoke that would otherwise result. Systems are available in pre-engineered capacities from 100 – 1500 ACFM (170 – 2548 Am<sup>3</sup>/hr). Other sizes available upon request.

## **FEATURES AND BENEFITS:**

- Pre-engineered, self contained, skid mounted package ready to install and operate.
- Brink fiber bed mist eliminator for a minimum of 99.5% mist collection efficiency.
- Value engineered to utilize high alloy and FRP materials only where needed.
- Hydrolysis water injection manifold and "T" assures complete conversion to dilute H<sub>2</sub>SO<sub>4</sub> – sulfuric acid and/or HCl – hydrochloric acid smoke.
- Simple operation with basic, operator friendly controls.
- Robust chemical duty motor, blower and general construction for low maintenance and high on stream reliability.
- Insulated and heat traced for all-weather, outdoor use.
- Portable, wheeled, rolling systems can be designed for emergency spill/fuming acid control.

MECS<sup>®</sup> BRINK<sup>®</sup>

Learn more at www.mecsglobal.com

# **BRINK® FAVS: FUMING ACID VENT SYSTEM**

### **HOW THE BRINK® FAVS WORKS**

With the blower motor running, dilution air and the fuming acid vapor emissions are drawn through the storage tank vent and ducted to the hydrolysis section where water is injected at a controlled rate within the manifold to hydrolyze the SO<sub>3</sub> and/or CSA vapor into aerosol acid smoke. This sub-micron smoke travels through the throat of the standing Brink<sup>®</sup> mist eliminator which is mounted on a tube sheet within the Brink<sup>®</sup> FAVS vessel. The mist is collected within the deep bed cross section of the Brink<sup>®</sup> fiber bed and the weak acid liquid is drained off the outside onto the tube sheet then drained into the bottom of the vessel and eventually pumped away. The now clean air is drawn out of the top of the vessel through the Brink<sup>®</sup> FAVS ducting/blower and exhausted to atmosphere.



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#### SYSTEM CAPACITIES

MODEL	MAX. G/ ACFM	AS FLOW Am <sup>3</sup> / hr	MAX. SO <sub>3</sub> , Ibs. / hr.	CSA RATE kg / hr
FAVS-100	100	170	11	4.99
FAVS-200	200	340	22	9.98
FAVS-500	500	849	54	24.49
FAVS-1000	1,000	1,698	108	48.98
FAVS-1500	1,500	2,548	162	73.48

Other sizes can be designed and built upon request.



#### www.mecsglobal.com

#### North America MECS Headquarters

Chesterfield, Missouri, USA Tel: +1-314-275 5700 northamerica@mecsglobal.com

#### Europe/Africa

Brussels, Belgium Tel: +32-2-658 2620 europe-africa@mecsglobal.com

Milan, Italy Phone: +39-02-8969 0658 italy@mecsglobal.com

Johannesburg, South Africa Tel: +27-11-708 9860 southafrica@mecsglobal.com

#### Asia/Pacific

Hong Kong, China MECS Far East Limited Tel: +852-2734 5388 hongkong@mecsglobal.com

Shanghai, China MECS Chemical Plants Equipment (Shanghai) Co., Ltd Tel: +86-21-6182 1111 shanghai@mecsglobal.com

Mumbai, India MECS India Private Ltd. Tel: +91-22-6774 9500 india@mecsglobal.com

#### South America

Barueri, Sao Paulo, Brazil Tel: +27-11-218 8618 brazil@mecsglobal.com