

Knock Out Drum

Flare / Vent Scrubbers



Product Overview:

ERGIL's Knockout Drum systems are engineered to provide superior separation of entrained liquids from vapor streams in the oil, gas, petrochemical, and chemical industries.

Utilizing advanced design principles, these drums play a crucial role in ensuring the efficiency and safety of flare headers and relief systems.

Design Features:

Versatile Configurations:

Available in horizontal and vertical orientations to accommodate specific operational requirements. The horizontal configuration is preferred for situations with high liquid volumes, whereas vertical configurations are ideal for space-constrained environments.

Advanced Mist Elimination:

Incorporates high-efficiency mist eliminators capable of removing droplets as small as 6 microns. The mist eliminators are available in fiber-bed or mist pad types, each designed to optimize separation efficiency and minimize pressure drop.

Optimized Vessel Design:

Features include a side entry inlet nozzle located to optimize the natural gravity separation process and gas jet dispersion, enhancing droplet separation efficiency. Top exit nozzles are designed to facilitate the smooth discharge of vapor while maintaining the integrity of separated liquids.



Configuration and Key Features:

Nozzle and Internal Configurations:

Engineered with precision to ensure optimal fluid dynamics. Options include baffled inlet streams for enhanced separation, side exit nozzles with special arrangements to prevent uneven flow, and vortex breakers to avoid pump suction issues.

Safety and Operational Efficiency:

Each drum is designed with safety-enhancing features like manways positioned for easy access and maintenance, and tangential entry nozzles to prevent swirling actions that can disrupt mist eliminator functions.

Selection Guide:

Operational Considerations:

Selection should be based on the vapor flow rates, expected liquid load, and plant layout specifics. This ensures the drum's size and orientation are matched to the operational demands.

Mist Eliminator Selection:

Choose between different types of mist eliminators based on the required removal efficiency, permissible pressure drop, and potential fouling characteristics.

Customization Options:

ERGIL offers customized design modifications to address specific challenges such as high-pressure drops, space limitations, or special material requirements for corrosion resistance.



Our R&D Commitment:

ERGIL's R&D center continuously explores innovative technologies to enhance the performance and reliability of our Knockout Drums.

Our engineers utilize state-of-the-art simulation and testing methodologies to advance the design and functionality of our products, ensuring they meet the highest standards of performance and regulatory compliance.

Collaboration and Technical Support:

ERGIL believes in a collaborative approach to problem-solving. We work closely with our clients from the initial design phase through to installation, ensuring that every Knockout Drum is perfectly tailored to meet and exceed the operational requirements.

Our team provides comprehensive technical support and expert consultation to ensure optimal setup and maintenance.

40 years of experience

35.000
SQUARE METER
MANUFACTURING
SPACE



300+
EMPLOYEES



200+
DIVERSE RANGE
PRODUCTS



30+
INTERNATIONAL
REPRESENTATIVES



40
YEARS
OF EXPERIENCE



5 MAIN
OFFICE



QUALITY
CERTIFICATES



AT 4
REGIONS



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data sheet series

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