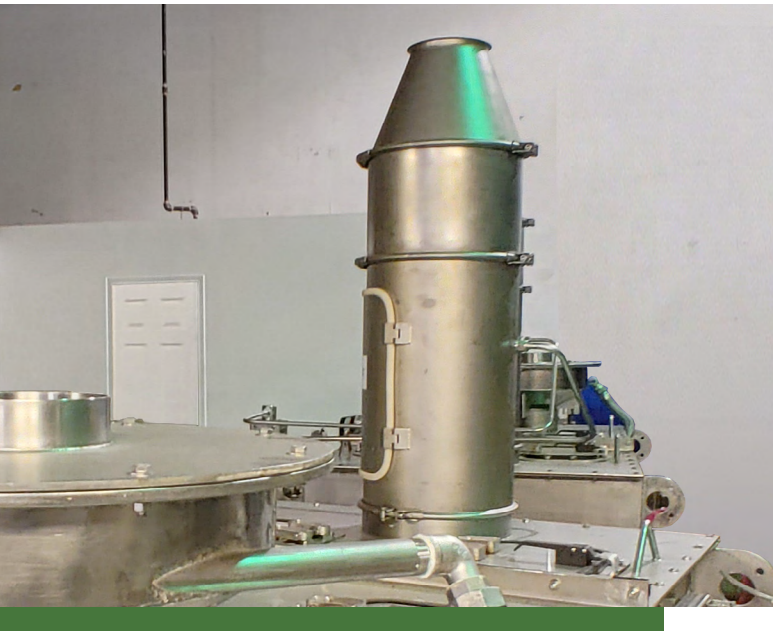


FORCED DRAFT WET SCRUBBER



EFFECTIVE DUST AND VAPOR REMOVAL

The forced draft wet scrubber is used for applications where lime is being slaked and where any dry chemical is being added to a liquid. This component captures the dust or vapor by introducing a water curtain across the extracted air stream from the chamber. A venturi eductor induces a vacuum that pulls the dust into the scrubber wetting zone and is wetted by a water spray nozzle. Any dust or vapor that escape the wetting zone is knocked out by the baffles located in the knockout zone and is returned to the chamber resulting in no wasted product. A slight negative pressure in the chamber created by the forced draft wet scrubber also helps prevent dust from escaping into the plant area for a cleaner, safer, and operator-friendly environment.

TYPICAL BULK MATERIALS PROCESSED

- Quicklime
- Hydrated lime
- Magnesium Oxide
- Soda Ash

TYPICAL APPLICATIONS

- Mining
- Municipal Water
- Wastewater
- Pulp and Paper
- Food
- Steel
- Power
- Oil and Gas

FEATURES

BENEFITS

Reduces undesired emissions and lowers exhaust temperature

Provides a cleaner and operator-friendly environment increasing safety

Stainless steel construction

Offers a corrosion resistant design permitting safe operations at elevated temperatures

Access door

Allows for quick inspection access with no tools saving money on maintenance time

Clamping system

Allows quick disconnect and reassembly making it easy to maintain and service

Self-draining baffles in the knock-out zone

Performs consistently and is easy to clean increasing productivity

Modularized arrangement and configuration (inlet/outlet design)

Can be installed in a new system or retrofitted into an existing system providing project flexibility

High efficiency and clog-resistant spray nozzle

Requires low operating pressure and little-to-no maintenance increasing efficiency

Blower outside of process stream

Protects from corrosive elements improving durability lowering maintenance costs

Stainless venturi eductor

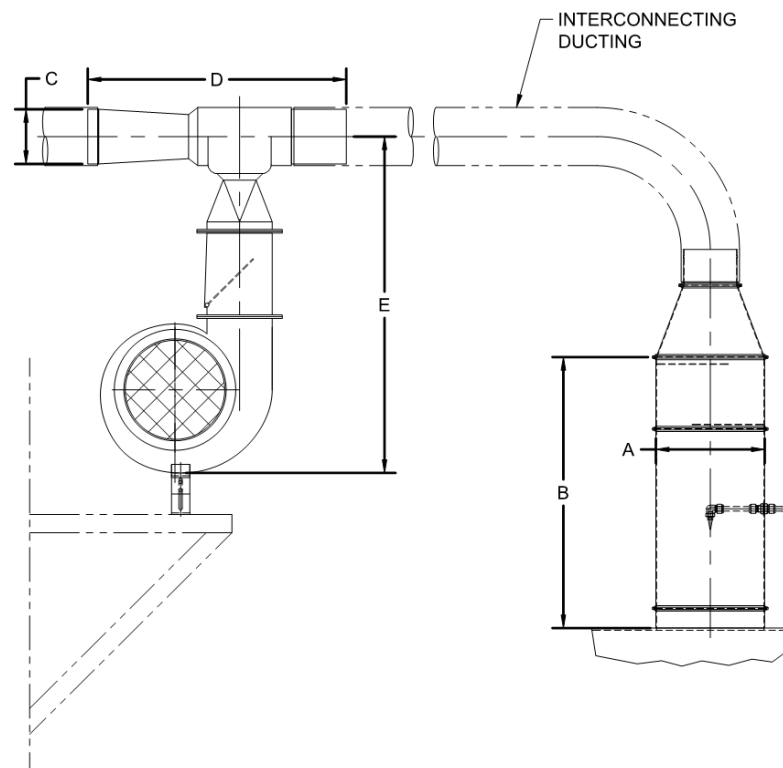
Durable construction with no moving parts in the exhaust air stream minimizing maintenance time and labor

AVAILABILITY

MODEL	A (in. [mm])	B (in. [mm])	C (in. [mm])	D (in. [mm])	E (in. [mm])	DRIVE (HP [kW])	AIR FLOW (MAX.) (CFM [m³/h])	SPRAY WATER (MAX.) (USgpm [m³/h])
WDS-200	8 [203]	37 [940]	4 [102]	27 1/2 [699]	24 1/2 [622]	1 [0.7]	222 [377]	2 [0.45]
WDS-250	10 [254]	37 [940]	4 [102]	27 1/2 [699]	24 1/2 [622]	1 [0.7]	222 [377]	2 [0.45]
WDS-300	12 [305]	37 [940]	6 [152]	28 [711]	37 [940]	2 [1.5]	573 [974]	3 [0.68]
WDS-350	14 [356]	37 [940]	6 [152]	28 [711]	37 [940]	2 [1.5]	573 [974]	3 [0.68]
WDS-400	16 [406]	37 [940]	8 [204]	21 [533]	40 1/2 [1029]	3 [2.2]	1014 [1723]	5 [1.14]



LIME SLAKER VERSION SHOWN BELOW.
ALSO AVAILABLE IN MIXING TANK VERSION.



NOTE: Information / dimensions shown are for reference only and is subject to change based on final design and applications.

SPECIFICATIONS

PROCESS REQUIREMENT

- **Air Flow Range:** 222 to 1014 CFM [377 to 1723 m³/h] @ 1.10 in w.g. [274 Pa]
- **Water Supply:** Max. flow of 5 USgpm [1.1 m³/h] @ min. pressure of 40 psig [276 kPag]

MATERIAL OF CONSTRUCTION

- **Standard:**
 - Scrubber Body: 304 Stainless Steel
 - Spray Nozzle Tubing: 304 Stainless Steel
 - Eductor: 304 Stainless Steel
 - Nonwetted Blower Wheel: A36 Carbon Steel
- **Options:**
 - Scrubber Body: Polypropylene
 - Spray Nozzle Tubing: Polyvinyl Chloride (PVC), 316/316L Stainless Tubing
 - Blower Wheel: Polypropylene (Available as In-Line Blower)



OUR NAMES HAVE CHANGED. **OUR COMMITMENT TO QUALITY REMAINS.**



LET US HELP PROVIDE A SOLUTION FOR YOUR NEEDS.

For over 50 years, STT has been designing and installing lime slaking and bulk material handling systems. What makes STT different is our diverse experience in many applications, industries and chemicals, along with the ability to support systems from concept through to decommissioning, and everything in between. To speak with one of our experts, contact us at:

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IMPORTANT NOTICE

The information contained in this product data sheet is, to the best of our knowledge, true and accurate. As application-specific factors may impact performance, users are advised to evaluate the product independently to determine suitability for the intended application and use conditions. Product availability and specifications are subject to change without notice.

