

Ceilcote Air Pollution Control

Air-Cure Dynamics, Inc.

Type GKP and GWP

The Type GKP and GWP is designed for small to very large gas flows. A wide variety of options are available to customize the scrubber.

The GKP type comes with an integral pre-installed fan with air flow rates from 900 ACFM to 10,000 ACFM. The GWP type is the same scrubber without the fan and comes in flow rates from 900 to 60,000 ACFM. Emission removal efficiency can be as high as 99.999%.

Benefits

- Compact, fully pre-assembled unit saves installation time and cost.
- Ready for connection to gas ducting, water and reagent supplies.
- Minimal electrical wiring at installation. All scrubber mounted electrical instruments are pre-wired to a junction box.

Applications

- Standard model will scrub vapors of most inorganic chemicals.
- GKP type (with the FRP fan wheel) can handle high concentrations of HCl and Chlorine.
- GKP type can also scrub water soluble organic chemicals.

Scrubbing Efficiency

The scrubber system normally is supplied with a packed bed height and type of packing required to achieve the desired absorption efficiency for the customer's specified application. Up to 99.999% efficiency is available with optional increased packing height.

Features

- Corrosion-resistant, high-density polyethylene (HDPE) scrubber body.
- Operating temperature capability to 150°F (210°F with optional FRP construction).
- Two large access ports for sump and spray nozzle maintenance.
- Integral liquid sump with visual liquid level site tube.
- Packing for gas scrubbing and liquid spray nozzle.
- Non-clogging chevron type mist eliminator to remove liquid droplets.
- Heavy-duty recirculation pump in corrosion resistant plastic.
- pH monitoring and control system that can be removed for calibration without interrupting operation.
- Automatic liquid level control system that adds water to the scrubber.
- Fully functional NEMA rated electrical control panel including required motor starters.
- Standard fan on the GKP scrubber that develops 7" S.P. and is flange mounted on top of the body to reduce footprint while eliminating all fan mechanical installation cost.
- Fan outlet that can be specified in any horizontal direction, which makes ducting connections easier.

Optional Features

- Vertical pit circulation pump that does not require seals and minimizes pump maintenance. (Provides smaller overall footprint.)



- Automatic blowdown completely automates the scrubber operation and minimizes the amount of operator attention and reagent handling for a safer operation.
- Automated system will sense the optimum time to drain the scrubber. Scrubbing is not interrupted during the draining operation.
- Double sump capacity for less frequent manual draining of scrubber.
- Increased static pressure on fan to 10" S.P.
- FRP fan for increased corrosion resistance for HCl and Chlorine
- Air and liquid recirculation process flow sensors and alarms for increased system reliability
- Increased packing height for very high efficiency scrubbing.
- Sump heaters for outdoor installation.

Custom Options

Ceilcote Air Pollution Control will custom build a scrubber to your specifications. These may include:

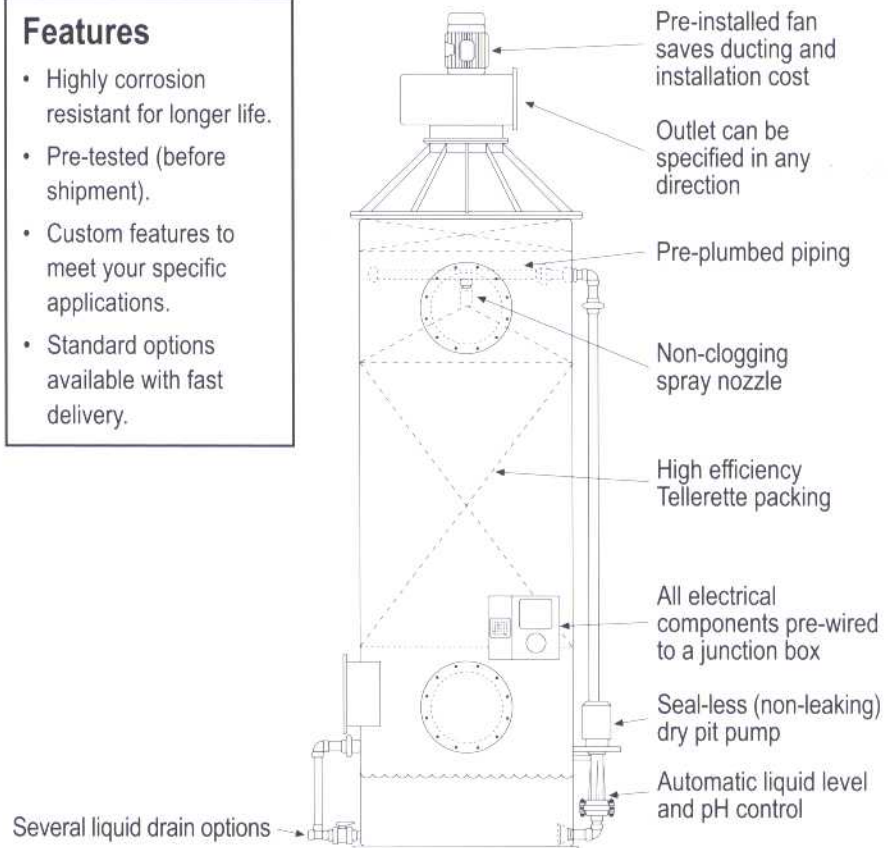
- Explosion proof components
- High efficiency mist eliminators
- An extra sump tank for more capacity
- Additional instrumentation
- Reagent supply tanks
- Skid mounted units
- Particulate and sand separation equipment

Operating Principle

Emission laden gas contacts scrubbing solution in the packed bed. The emission reacts with the solution to form a water soluble salt. The control system automatically drains and refills the scrubbing solution.

Features

- Highly corrosion resistant for longer life.
- Pre-tested (before shipment).
- Custom features to meet your specific applications.
- Standard options available with fast delivery.



Specifications

Model	Gas Vol. ACFM	Recirc.Rate GPM	Pump Motor H.P.	Column Dia. In.	Charging Sump Cap.* (Gal.)	GKP Fan Motor HP
GKP & GWP	900	8	1.5	18	28	2
GKP & GWP	1600	13	1.5	24	47	3
GKP & GWP	2500	20	1.5	30	71	5
GKP & GWP	3500	30	1.5	36	107	7.5
GKP & GWP	4800	43	2	44	154	10
GKP & GWP	6300	56	2	50	201	15
GKP & GWP	8000	64	3	54	228	15
GKP & GWP	10000	78	5	60	282	20
GWP	25000	200	10	96	721	NA
GWP	40000	314	10	120	1,126	NA
GWP	60000	450	15	144	1,622	NA

Specifications are subject to change without notice.

*Based on 6' packed bed

Contact us today for more information



Specialists in engineering, design and supply of air pollution control equipment and systems.
Scrubbers • Ionizing Wet Scrubbers
FRP Fans • Packing • Mist Eliminators

14955 Sprague Rd., Ste. 250
 Strongsville, OH 44136-1758
 Tel: 800-554-8673 or 440-243-0700
 Fax: 440-243-9854
 E-mail: sales@ceilcoteapc.com
 www.ceilcoteapc.com

Canada:
 1195 Meyerside Dr. Unit 6
 Mississauga, Ontario L5T 1H3
 Tel: 905-795-0520
 Fax: 905-795-0530

Representatives and licensees worldwide

GKP599