



Bulk Tank Vent Scrubbers

FORBES



PLASTICS TANKS AND
ENVIRONMENTAL TECHNOLOGIES

Bulk Tank Vent Scrubbers

Standard systems designed to minimise environmental nuisance from the storage and handling of fuming chemicals. Throughputs up to 25m³ per minute.

These scrubbers are most often used to counter the release of fumes during the storage and handling of ammonia and hydrochloric acid. These standard models are adaptable for other applications and we can supply custom-designed scrubbers - please discuss your requirements with us.

ONCE THROUGH

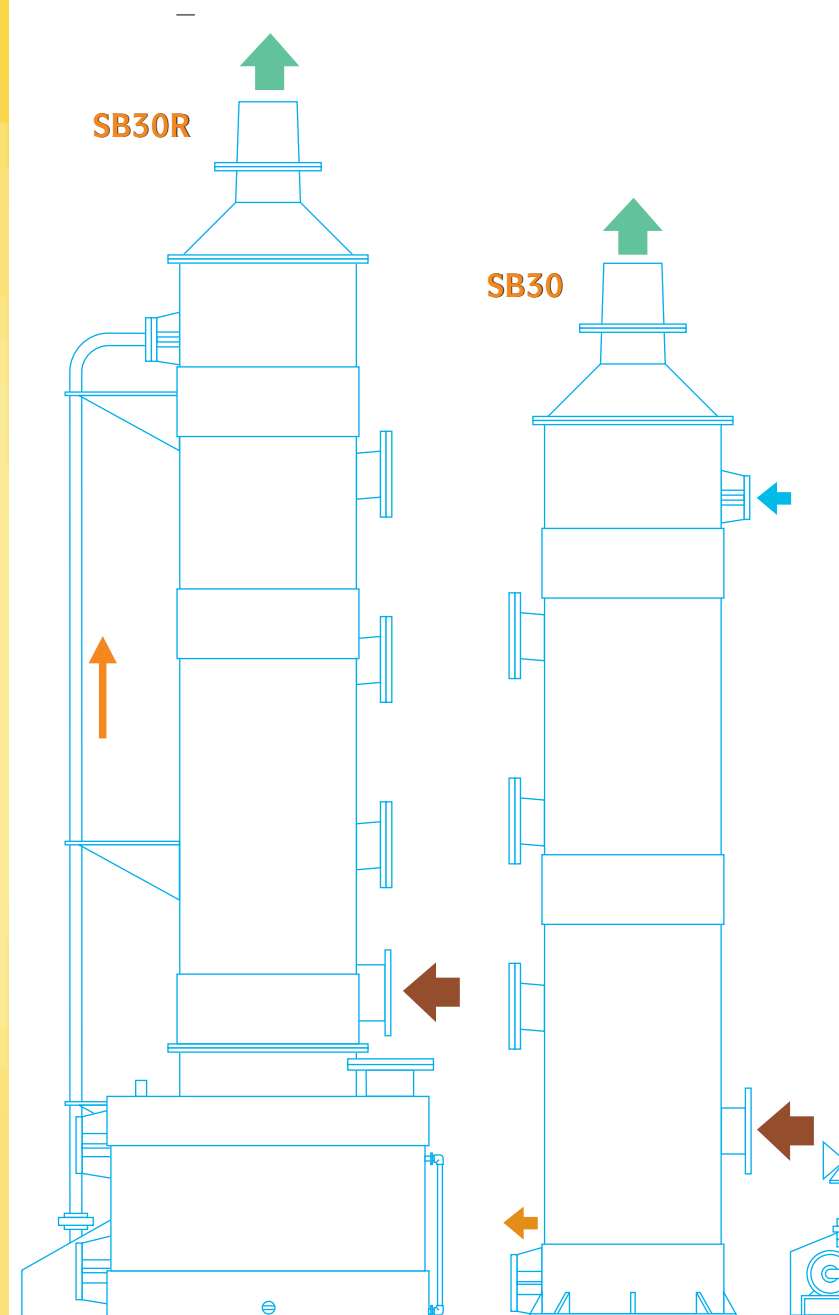
The basic models use 'once through' water producing dilute solutions which may in some instances be disposed of through the site drainage system subject to the normal approvals.

RECIRCULATION

SB2R, SB4R and SB30R incorporate an integral sump tank with recirculation pump, facilitating the use of neutralising solutions as scrubbing liquors (e.g. caustic for hydrochloric acid fumes). The scrubbing liquor needs regular monitoring and careful disposal.

CONSTRUCTION

All Forbes fume scrubbers are light and easy to install. Construction is almost entirely from plastics materials which are corrosion-free and require virtually no maintenance. Standard recirculation units are fitted with magnetic drive, seal-less, low maintenance pumps. Each scrubber unit is issued with a comprehensive installation, operation and maintenance manual.



MODEL SB2

Designed particularly for scrubbing the fumes vented during tanker delivery, intended to handle the high volume of fumes produced during tanker delivery or pressurised 'Flo-bin' system.

MODEL SB4

Designed especially to handle ammonia and pressurised 'Flo-bin' system.

MODEL SB30

Applying high efficiency technology, the SB30 is designed to handle fumes from pressurised tanker delivery.



FUME
LADEN
AIR IN

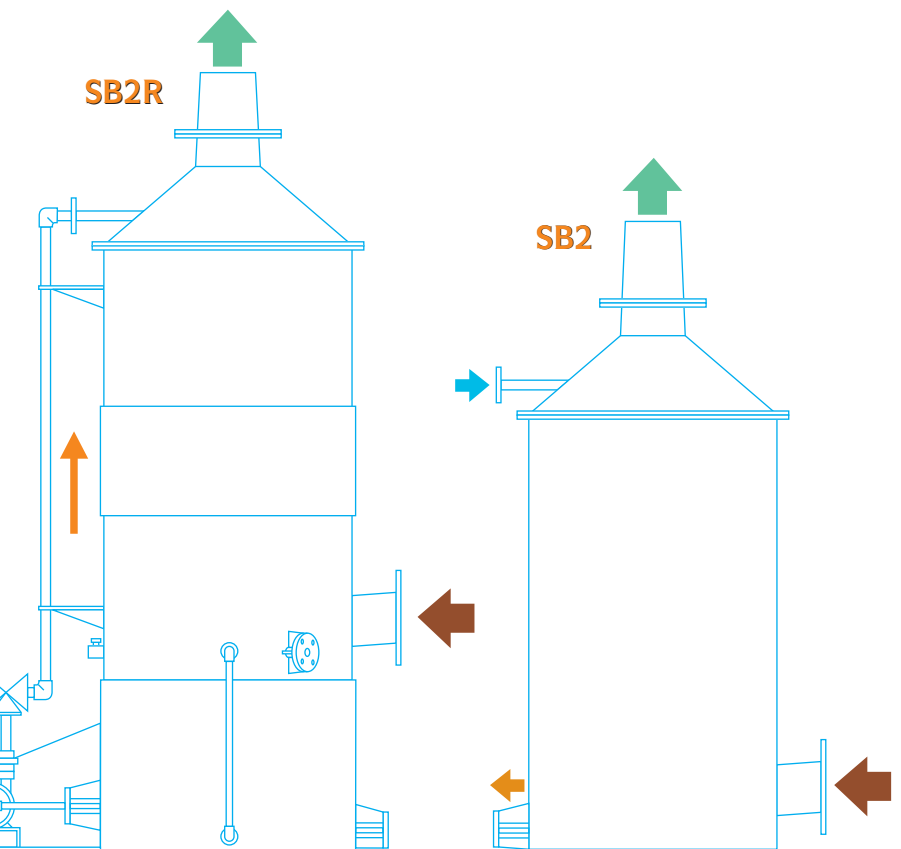


CLEAN
AIR
OUT



INTERMITTENT CONTROLLER

All scrubbers can be supplied with a control unit to activate the pump or water inlet valve to keep the scrubbing media wetted during static storage conditions.



During static storage and pumped discharge, the SB2 is NOT designed for high pressure deliveries above 7 psi from air pressure tanker discharge

For smaller 'to-bin' (IBC) pump-over type deliveries up to 15 psi.

To cope with the surge of 'pad air' at the end of a large volume



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SPECIFICATIONS FOR STANDARD SCRUBBERS

ONCE-THROUGH SCRUBBING LIQUOR

MODEL	SB2	SB4	SB30
Nominal diameter (mm)	775	775	550
Approx height (mm) to gas outlet flange	1726	2726	3200
Nominal throughput (m ³ /min)	2	4	25
Range of liquor flow rates (litres/min)	90-200	90-200	90-150
Nominal design back pressure* (mm w.g.)	20	20	150

RECIRCULATING SCRUBBING LIQUOR

MODEL	SB2R	SB4R	SB30R
Nominal diameter (mm)	775	775	1000‡
Approx height (mm) to gas outlet flange	2262	3262	3640
Nominal throughput (m ³ /min)	2	4	25
Range of liquor flow rates (litres/min)	90-200†	90-200†	90-150†
Nominal design back pressure* (mm w.g.)	20	20	150

† pump output for scrubbing liquor

* at design throughput, excluding ductwork

‡ sump



Do you need . .

. . to store or process liquids of virtually any description from ultra pure water and liquid sugar to hazardous chemicals or effluents ?

. . a constant supply of saturated brine ?

. . to store plastics granules, salt or other flowing solids?

Do you have a problem with . .

. . chemical or process fumes or odours ?

. . VOC or other pollution ?

. . talk to Forbes, our product range includes -

TANKS from 200 to 200,000 litres, including our pioneering MINIBULK® systems and a new sectional tank system

SILOS

SALT SATURATORS

PRESSURE AND VACUUM VESSELS

STRIPPING TOWERS, DEGASSERS AND CARBON ADSORPTION UNITS

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FORBES
New Road Crimplesham
Norfolk PE33 9AS UK
Tel + 44 (0)1366 389 600
Fax + 44 (0)1366 385 274
Email sales@forbesgroup.co.uk
Website www.forbesgroup.co.uk

