CALDERA TECHNOLOGIES LIMITED

SCRUBBER SIZING CHECKLIST

The seven figures we ask for first

Almost every wet scrubber design comes down to these seven figures. Fill in what you have, leave the rest blank, and send it back. We will check it and tell you if anything is missing or looks off.

Your details

COMPANY | YOUR NAME | EMAIL | PHONE | SITE LOCATION

1 What's in the air

The gases or vapours, and the process making them.

How to find it: Start with the safety data sheets for the chemicals in use.

GASES OR VAPOURS | PROCESS MAKING THEM

SDS AVAILABLE? ☐ Yes, attached ☐ No

2 Air volume

The extract flow the scrubber treats, in m³/h.

How to find it: Not measured? The fan nameplate and duct size give us a start. A traverse at a duct test point takes about an hour and settles it.

FLOW (m³/h) | DUCT SIZE (mm) | FAN MAKE / MODEL

FLOW IS ☐ Measured ☐ Estimated ☐ Not known

3 Inlet concentration

How much of each gas reaches the scrubber, typical and peak.

How to find it: Don't know it? Tell us what goes into the tanks each week and we can estimate it.

TYPICAL | PEAK | OR: CHEMICAL USE PER WEEK

UNITS ☐ mg/m³ ☐ ppm

4 Your emission limit

The figure you must meet at the stack, and who set it.

How to find it: Usually in your environmental permit or local authority permit, or a group standard.

LIMIT, PER GAS (mg/m³) | PERMIT OR REFERENCE NO.

SET BY ☐ Permit ☐ Local authority ☐ Group standard ☐ Not sure

5 Gas temperature, and anything else in the stream

Dust, oil mist or condensate all change the design.

How to find it: Hot or wet gas may need a quench or pre-filter ahead of the tower.

GAS TEMP (°C) | OTHER NOTES ON THE STREAM

ALSO PRESENT ☐ Dust ☐ Oil mist ☐ Condensate ☐ None known

6 Running pattern

Hours a day, days a week, and whether the load is steady or comes in batches.

How to find it: Batch loads set the design peak.

HOURS A DAY | DAYS A WEEK | IF BATCH: HOW LONG, HOW OFTEN

LOAD IS ☐ Steady ☐ Batch

7 The site

Space and height available, indoors or out, drainage, water and power.

How to find it: A photo of the proposed location helps more than a description.

SPACE, L X W X H (m) | WHERE LIQUOR CAN DRAIN | WATER AND POWER NEARBY

LOCATION ☐ Indoors ☐ Outdoors ☐ On a roof ☐ Photo attached

ANYTHING ELSE WE SHOULD KNOW: FUTURE EXPANSION, OTHER EXTRACT TO COMBINE, DEADLINES

SEND IT BACK

hello@caldera-technologies.com

Save this PDF once filled in, or print and scan it. Add drawings, SDS or photos if you have them.
Gaps are fine: working out the rest is part of what we do. You will not get a quote unless you ask for one.