

HELIUM BUBBLE GENERATOR SYSTEMS

SAI™ Model 5 Console

Don't guess at what the air is doing — see what it is doing. The Model 5 generates helium-filled, neutrally buoyant bubbles of controlled size that trace airflow exactly, from still air to 60 m/s.

SINGLE OR DUAL OUTPUT

EXPANDABLE AT ANY TIME

CALIBRATED BEFORE SHIPMENT

SHIPS IN 30 DAYS



DUAL-OUTPUT CONSOLE, SHOWN AS SHIPPED

The **SAI Model 5 Console** is a compact, purpose-built instrument for visualizing complex airflow. Helium, air, and SAI 1035 Bubble Film Solution are metered independently through precision micro-metering valves on vernier scales — so bubble size, specific weight, and generation rate are set deliberately rather than found by trial. The resulting bubbles follow flow streamlines instead of diffusing into them, pass through rotating fans at high rpm without impact damage, and handle laminar, turbulent, steady and unsteady flow equally well.

300–400/sec

BUBBLES PER HEAD

1–4 mm

ADJUSTABLE DIAMETER

60 m/s

FLOW SPEEDS TRACED

1–2 min

BUBBLE LIFE

Why Engineers Choose the Model 5

A console built for repeatable measurement — not a general-purpose bubble machine.

**Deliberate, Repeatable Control**

Micro-metering valves with vernier scales resolve to 0.001" of needle-stem travel, so a calibrated flow setting can be reproduced exactly — test after test, operator after operator.

**Mini-Vortex Filter**

A cyclonic air jet spins out every bubble that is too heavy or too light. Only genuinely neutrally buoyant tracers leave the outlet tube and enter your flow field.

**Expandable Output**

Order with a single output and add a second whenever the work calls for it. Nothing is discarded in the upgrade — the console is built to accept both from day one.

**Field-Ready Construction**

Console, Plug-In Heads, filters, wands, and tubing travel together in a rugged Pelican A.B.S. case, and the unit disassembles easily for cleaning, maintenance, and repair.

**Flexible Bubble Delivery**

Variable-Speed Wands with a 60 mm diffusing nozzle, plus four stainless extension tubes, let you implant bubbles precisely where the flow needs to be seen.

**Safe, Clean Operation**

SAI 1035 Bubble Film Solution is non-toxic and non-corrosive, won't stain surfaces or clothing, and is comfortable to run in labs, cleanrooms, and shared workspaces.

Trusted Across Industries

Wherever teams need to see airflow instead of guessing at it.

Automotive & Aerospace

Wind Tunnel Testing

HVAC & Building Systems

Industrial Processes

Cleanrooms & Specialized Research

Academic & Government Labs

Specifications

Bubble generation rate	300–400/sec per head
Bubble diameter	1–4 mm, adjustable
Bubble life	1–2 minutes
Flow speed traced	to 60 m/s
Helium pressure	138 kPa, regulated
Air pressure	276 kPa, regulated
Helium flow rate	200 cm ³ /min per output
Air flow rate	0.028 m ³ /min per output
BFS consumption	50 cm ³ /h per output
Case	Rugged Pelican A.B.S.
Dimensions	55 cm L × 35 cm W × 28 cm H
Weight	9.5 kg

Ordering Information

Single Output

One Plug-In Head & Mini-Vortex Filter · 1 gal BFS

\$8,363**Dual Output**

Two Plug-In Heads & Mini-Vortex Filters · 2 gal BFS

\$10,369

Built to order and calibrated in our laboratory before shipment; ships within 30 days of payment. Freight, duties and taxes are added. One-year warranty and lifetime technical support included. Pricing shown as of publish date; contact Sage Action for current pricing.

What's included

Model 5 Console · Plug-In Head and Mini-Vortex Filter per output · two 3 m input lines with 1/4" NPT fittings · Variable-Speed Wands and tubing · SAI 1035 Bubble Film Solution · setup and operation manual · calibration sheet.

Works with

SAI Basic Light · SAI Modulated Arc Lamp · Auxiliary Air & Helium Supply · SAI 1035 Bubble Film Solution

Ready to see the unseen in your airflow?**Sage Action, Inc.**

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