

# TANNAS FOAM *AIR* BATH (TFAB)

## Foaming Tendency & Stability of Lubricating Oils

- Preferred technique for ASTM D 6082 and D 892 testing – required for GF-2, 3 & 4, API 'SL', 'SM' specifications for modern engine oils
- Air bath eliminates hazards of hot, messy oil baths
- Thermal equivalence at all locations within bath – no variation of temperature amongst samples
- No loss of temperature control since no supplemental heating device is needed
- Progressive timer with audible alarms for simplified determination of Collapse Time in D 6082 test
- Convenient, removable, sixposition cylinder carousel
- Built-in cool 'tap' water circulation for cooling from 150° to 24°C in less than 30 minutes
- Conveniently located sidemounted cylinder drying rack



Liquid baths have been used for D 892 foam testing since the inception of the method. With the call for foam testing at higher temperatures (150°C) came the desire to eliminate the safety risks and inprecision of hot, messy, oil baths and in 1995 sparked the development of an air foam bath by sister company, Savant Labs. Later, Tannas Co. began manufacturing and marketing the TFAB as a safe and reliable alternative for both foam methods.

The single bath approach of the TFAB dramatically reduces bench space requirements, eliminates the need to replace oxidized (discolored) bath oil, permits more accuracy in reading foam levels, significantly reduces the hazards of operating sequences of higher temperatures and reduces the time needed between temperature sequences. The TFAB has shown very good correlation to ASTM round robin studies and has assisted in ASTM efforts of improving test method precision.



#### **DELTA LABO**

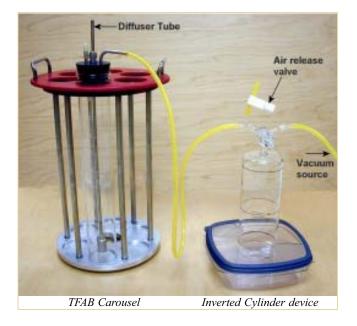
Créativa Bât A - Site Agroparc 200 Rue Michel de Montaigne BP 21221 84911 AVIGNON Cédex 9

Tél: 04.90.27.17.95 / fax 04.90.27.17.52 mobile : 06 50 87 19 65 www.deltalabo.fr

### Tannas Foam Air Bath

Dimensions	Bench-top 24"(w) x 24"(d) x 21" (61 x 61 x 53 cm)
Weight	~100 lbs. (45 kg)
Voltage	120 VAC, Single Phase, 20 Amp. 50/60 Hz (Also available in 220VAC)
Heating Medium	Air
Diffuser Air Flow	Stainless steel, cylindrical, diffuser stone Pre-heated diffuser air flow system Two (2) built-in Automated Air Flow Meters
Operating Parameters	Temperature Range: +20°C to 175°C (±0.1°C) Foaming Sequences: I @ 24°C II @ 93.5°C III @ 24°C IV@ 150°C  Approximately 200 mL sample volume Air Flow Rate: 94 to 200 mL/min (±5 mL/min.)
Function Controller (PLC)	Digital Display of Operator Commands Audible Sequence Alarms for each measuring time Continous time readout
Safety	Over-temperature Cut-off Fuse & Indicator Triple Pane Glass View Port CE Marked





The precise, simple and accurate Exit Air Device shown here was developed by Tannas Co. to meet the requirements of ASTM D 892 and for convenient use with D 6082. The calibrated volume inverted cylinder measures the amount of air passing through the foam head by fluid displacement. After each measurement, the inverted cylinder is easily and quickly refilled with fluid by vacuum, simply by turning a stopcock.

Most important, since the exit air device measures the air that has passed through the foam head, it is not affected by any air leakage that may occur prior to the foam head and will both reveal and help eliminate such problems.

A more automated Digital Exit Air Device is also available. Call for details.

YOUR LOCAL REPRESENTATIVE



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www.deltalabo.fr



**TANNAS CO.** ♦ 4800 James Savage Rd. ♦ Midland, MI ♦ 989-496-2309 ♦ Fax: 989-496-3438 ♦ Website: www.savantg

Email: tannas@savantgroup.com