



HEATED SAMPLE LINE MODEL TJ 100



The model TJ 100 is a Heated Sample Line especially designed for Emissions Applications where hydrocarbons are to be measured. To prevent the forming of hydrocarbon memory effects, (hang up), the end caps are heat resistant to up to 200°C. This allows the sample line to be coupled inside an oven of a heated sample filter and heated FID analyzers.

A flame resistant PVC coating over a rugged metal flex tubing is used for outer protection of the sample line. Direct heat transfer to inner hose. No metal braiding and no silicon materials block the heat transfer between heating element and sample hose. The inner sample hose material is Teflon® (PTFE) with an inner diameter 4mm (5/32"). Both end fittings are 316S, 1/4" o.d. Swagelok®. A type "J" thermocouple is standard. Available lengths are 1 meter, 3 meter, 5 meter, 8 meter, 10 meter and 15 meter (230 V only).

J.U.M. reserves the right, at any time and without notice, to change specifications presented in this data sheet and assumes no responsibility for the application or use of the devices described herein.



TJ 100 sample line shown with external TF 602 temperature controller

Technical Data Heated Line

- **Outside Diameter:** 55 mm
- **Available Lengths:** 1 Meter, 3 Meters, 5 Meters, 8 Meters and 10 Meters.
- **Outside Materials:** Metal Flex Tubing with flame resistant PVC coating
- **Inner Hose:** PTFE tubing, 4 mm inside/ 6 mm outside diameter
- **Thermocouple:** „J“ Type
- **Inlet / Outlet Fittings:** ¼ inch Swagelok® stainless steel 316S
- **Power requirements:** Alternative 230VAC/50/60 Hz, or 115VAC/60Hz. 1m 130 W, 3m 250 W, 5m 400 W, 10m 600 W, 15m 1500 W (230V only)
- **Ambient temperature:** 5°C - 43°C (41°F - 110°F)

Technical Data TF 602

- **Temperature controller:** Digital, micro processor programmable PID controller
- **Dimensions:** 175 mm wide, 160 mm deep, 175 mm high, GFK enclosure with transparent screw tight cover
- **Power requirements:** Alternative 230VAC/50/60 Hz, or 115VAC/60Hz, max. 2000 W
- **Ambient temperature:** 5°C - 43°C (41°F - 110°F)

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