

M9130 Slim Tube System

Grace Instrument's M9130 Slim Tube System is used to test dynamic miscible (or homogeneous) solutions at reservoir conditions.

Before testing gas is injected at user-controlled pressure through a slim tube which has been saturated in oil through a high pressure pump. A back pressure regulator achieves a constant pressure inside the system while the liquid waste, (or effluent) discharged from the slim tube can be observed through a capillary sight glass tube.



They are then expanded to atmospheric pressure and temperature through a back pressure regulator. An ultrasonic multiphase separator for liquid measurement as the produced gas is measured by a wet gas meter.

A recovery curve is plotted using the raw data obtained during the testing of different miscible displacement experiments. Additional components such as density meter and gas chromatograph may be added to extend the capabilities of the instrument.

Features

- *Determines miscibility at reservoir conditions*
- *Raw data obtained after testing*
- *Produced gas is measured by wet gas meter*
- *High level of automation*
- *Ultrasonic multiphase separator for liquid measurement*
- *Many add on tools extend unit capabilities*
- *Embedded gas injection pump makes safe and easy operation for user*

Specifications

Tube length:	80 ft. (24 m.)
Tube diameter:	1/4 in. outside diameter
Material:	Stainless Steel
Porous media :	Calibrated 230 - 310 μm silica
Approx porosity :	35 %
Approx pore volume:	100 cc
Working pressure:	10,000 psi (700 bar)
Working temp.:	Up to 150°C
Fluids:	Oil, HC gas, CO ₂ ,
Power supply:	220 VAC 50 Hz