Slim Tube

The miscibility tests allow for the evaluation of the minimum miscibility pressure (MMP), the minimum miscibility composition (MMC), the optimization of injection parameters and composition of lean and enriched gas, the determination of oil in place recovery and the assessment of sensitivity of experimental conditions on oil recovery.

The slim tube apparatus is used to obtain dynamic miscibility information at reservoir conditions. The gas to be tested is injected at a desired pressure through the slim tube, which is already cleaned and saturated with oil by means of a high pressure pump. A back pressure regulator maintains a constant pressure within the system. The effluents flowing from the slim tube can be observed through a capillary sight glass tube. They are then expanded to atmospheric pressure and temperature conditions through a back pressure regulator. The volume of liquid effluents is then continuously monitored and recorded. The recovery curve is then plotted based on the raw data obtained during the different miscible displacement experiments.

Specification	STA-PR01	STA-PS01
Packed Tube Length	12 m	12 to 18 m
Packed Tube External Diameter	1/4 in.	1/4 in.
Porous Media Material	Glass Bead	Glass Bead
Particle Diameter	100 – 125 µm	100 – 125 µm
Maximum Working Temperature	90 ˚C	150 ˚C
Maximum Working Pressure	6000 Psi	10,000 Psi
Pressure Accuracy	0.1 % F.S.	0.1 % F.S.
Wetted Parts Material	Stainless Steel 316	Stainless Steel 316/ Hastelloy
Power Supply	220 VAC, 50/60 Hz	220 VAC, 50/60 Hz
Gas Flow Meter	✓	✓
Automatic Control & Data Acquisition System	✓	✓
Data Acquisition System	✓	✓
High Pressure Pump	✓	✓

Contact info:
+98 71 3624 6968 / +98 71 3624 7604
info@petroazma.com
www.petroazma.com

Address:
Fars Science and Technology Park,
Aryan St., Dr.Hesabi Blvd., Shiraz, I.R.Iran
P.O Code: 7197687811