Sand Pack System

The sand pack system provides an alternative porous medium to perform EOR studies at different conditions of temperature and pressure. The sand pack is a tube which is filled with calibrated sand having a known grain geometry. Optionally, several pressure taps can be integrated along the tube to monitor the pressure gradient as a function of injection distance. The versatile apparatus warrants various EOR tests including water flooding, polymer injection, ASP injection, miscible and immiscible gas flooding, microbial flooding and steam injection.

Specification	SPS-BR01	SPS-BR02	HSS-PR01	HSS-PR05
Max. Working Temperature	Ambient	Ambient	120 ˚C	120 ˚C
Max. Working Pressure	Atmospheric	Atmospheric	6,000 Psi	6,000 Psi
Pressure Accuracy	0.05% F.S.	0.05% F.S.	0.05% F.S.	0.05% F.S.
Tube Diameter	1.5″	1.5″	1.5″	1.5″
Tube Length	30 cm	30 cm	10 cm, 20cm, 30 cm	10 cm, 20cm, 30 cm
Position	Horizontal	Horizontal	Horizontal	Horizontal
Wetted Material	Poly (methyl methacrylate)	Poly (methyl methacrylate)	Stainless Steel 316	Stainless Steel 316
Input Power Supply	220 VAC, 50/60Hz	220 VAC, 50/60Hz	220 VAC, 50/60Hz	220 VAC, 50/60Hz
Infusion Pump	✓	✓	×	×
Computer System	✓	✓	×	×
Automatic Data Acquisition (Pressure Log)	✓	✓	×	×
Accurate Gas Injection System	×	✓	×	×
Force Convection Oven	×	×	✓	✓
Number of Accumulator	×	×	2	2
Downstream Pressure Controller	×	×	✓	✓
High Pressure HPLC Pump is included	×	×	×	✓

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