

高壓高精度注射幫浦

Teledyne ISCO Syringe pump

碳封存/岩心孔隙滲透分析/地質地熱研究/岩土力學

模擬地質構造中存在的流體和壓力條件



	Capacity	Flow Range* (mL/min)	Flow Accuracy**	Pressure Range (psi, bar)
1000x	1015 mL	0.001–408	0.5% of Setpoint	10–2,000 0.7–137.9
500x	507 mL	0.001–204	0.5% of Setpoint	10–5000 0.7–345
500xv High Viscosity	507 mL	0.001–204	0.5% of Setpoint	10–5000 0.7–345
260x	266 mL	0.001–107	0.5% of Setpoint	10–9,500 0.7–655
65x	68 mL	0.00001–25	0.3% of Setpoint	10–20,000 0.7–1,390

ISCO PUMP 相關碳封存文獻

Geophys. Res. Lett., **2016**, 43, 9677–9685.
 I.J.O. Greenhouse Gas Control, **2019**, 87, 34–43.
 Water Resources Research, **2021**, 57, WR030891.
 Energies **2022**, 15, 344.
 Processes **2023**, 11, 3104.
 Scientific Reports, **2023**, 13, 9155.

恆定流速 # 恆定壓力 # 堅固可靠
 # 高壓力 # 高精準度 # 無脈衝
 # 單幫浦 - 流速/壓力梯度 # 外部控制
 # 雙幫浦 - 濃度梯度

深層海水層中的條件進行碳封存測試

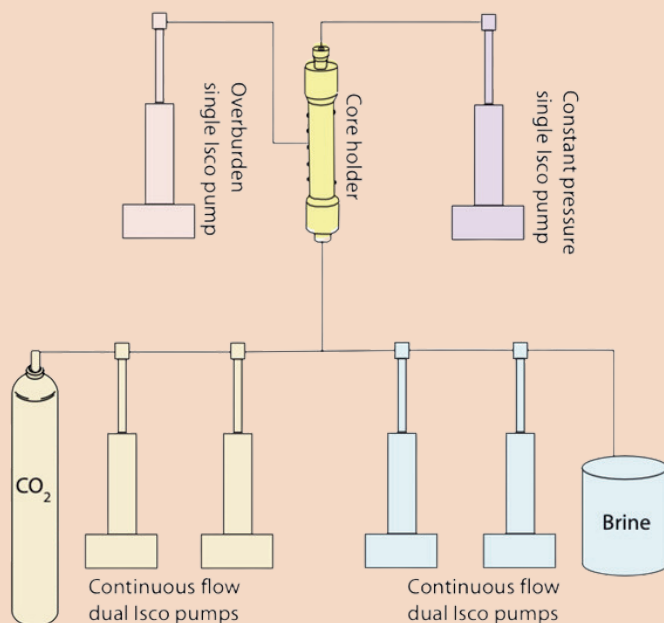


Figure 1: Modeling CO₂ distribution and transport
 In a saline reservoir formation