



Reduce your carbon footprint with dry roughing pumps

SCIEX is proud to now offer dry roughing pump upgrades for the SCIEX 7500 system and the 6500+ series of systems running SCIEX OS software version 3.3 or later]. Reduce the cost and the environmental impact of operating your LC-MS/MS system by using the multi-stage roughing (MSR) pump—MSR 90 and MSR 130, instead of standard oil-sealed roughing pumps, without any effects on performance of your LC-MS/MS system.

Benefits of upgrading to dry pumps include:

- Lower power consumption and heat waste by 32% or greater [see table on reverse]
- Better reliability and long run-life
- Long-term savings thanks to minimal maintenance and no waste related oil or filter changes

SCIEX is committed to providing you with cutting-edge technology that not only meets your analytical needs, but also aligns with your sustainability goals.

Electricity consumption comparison of system with oil-sealed and dry roughing pumps

	6500+ series system with oil-sealed roughing pumps [watts]	6500+ series system with a single MSR 90 dry roughing pump [watts]	SCIEX 7500 system with oil-sealed roughing pumps [watts]	SCIEX 7500 system with both an MSR 90 and an MSR 130 dry roughing pump [watts]
Mass spectrometer only – Standby*	455	455	535	535
Mass spectrometer only – Typical conditions**	630	630	695	695
Pump[s] only	1455	515	2385	1440
Mass spectrometer + pump[s] – Standby*	1910	965	2915	1975
Mass spectrometer + pump[s] – Typical conditions**	2085	1145	3080	2135
Average electrical savings [compared to using wet pumps]		47%		32%

* Standby refers to the LC-MS/MS instrument in standby/idle state.

** Typical conditions depend on the system:

- For a **6500+ series system**, typical conditions are: -500 µL/min flow rate, source heater at 400°C, ion spray voltage at 5500 V, GS1 = 40, GS2 = 70, curtain gas = 30, CAD gas = 9
- For the **SCIEX 7500 system**, typical conditions are: -500 µL/min flow rate, source heater at 400°C, ion spray voltage at 1500 V, GS1 = 35, GS2 = 70, curtain gas = 40, CAD gas = 9

*** Approximate heat output for 6500+ system with dry pumps is 4,580 BTU/hr, compared to 7,800 BTU/hr with wet pumps. Approximate heat output of 7500 system with dry pumps is 8,050 BTU/hr, compared to 11,300 BTU/hr with wet pumps



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