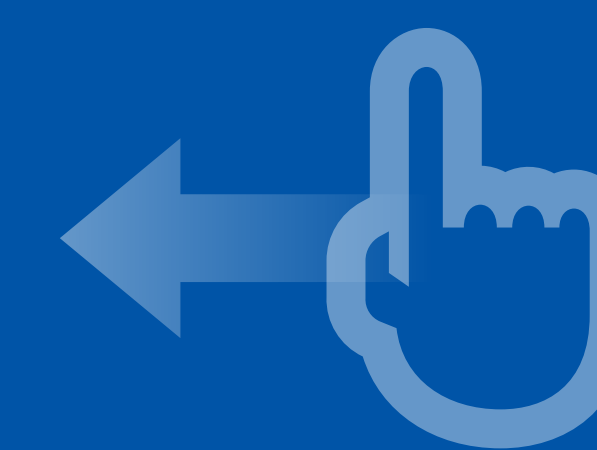


Air Compressor for TOYOTA FCV MIRAI

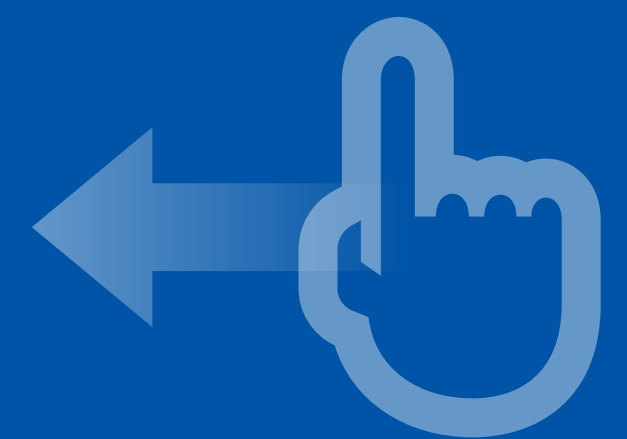




Used on the Toyota MIRAI



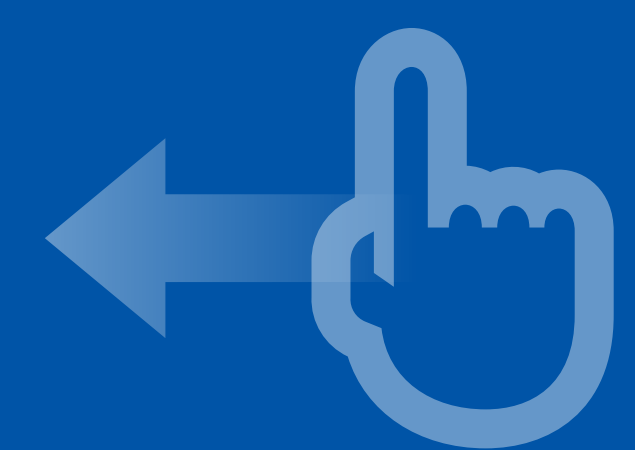
Air Compressor





- The air compressor is a crucial functional component that supplies the air necessary for fuel cell vehicles to generate electricity.
- The air compressor produces the sound of comfortable acceleration.

Air Compressor

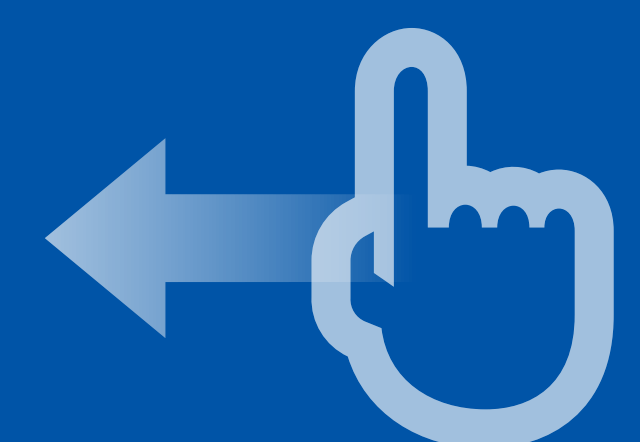




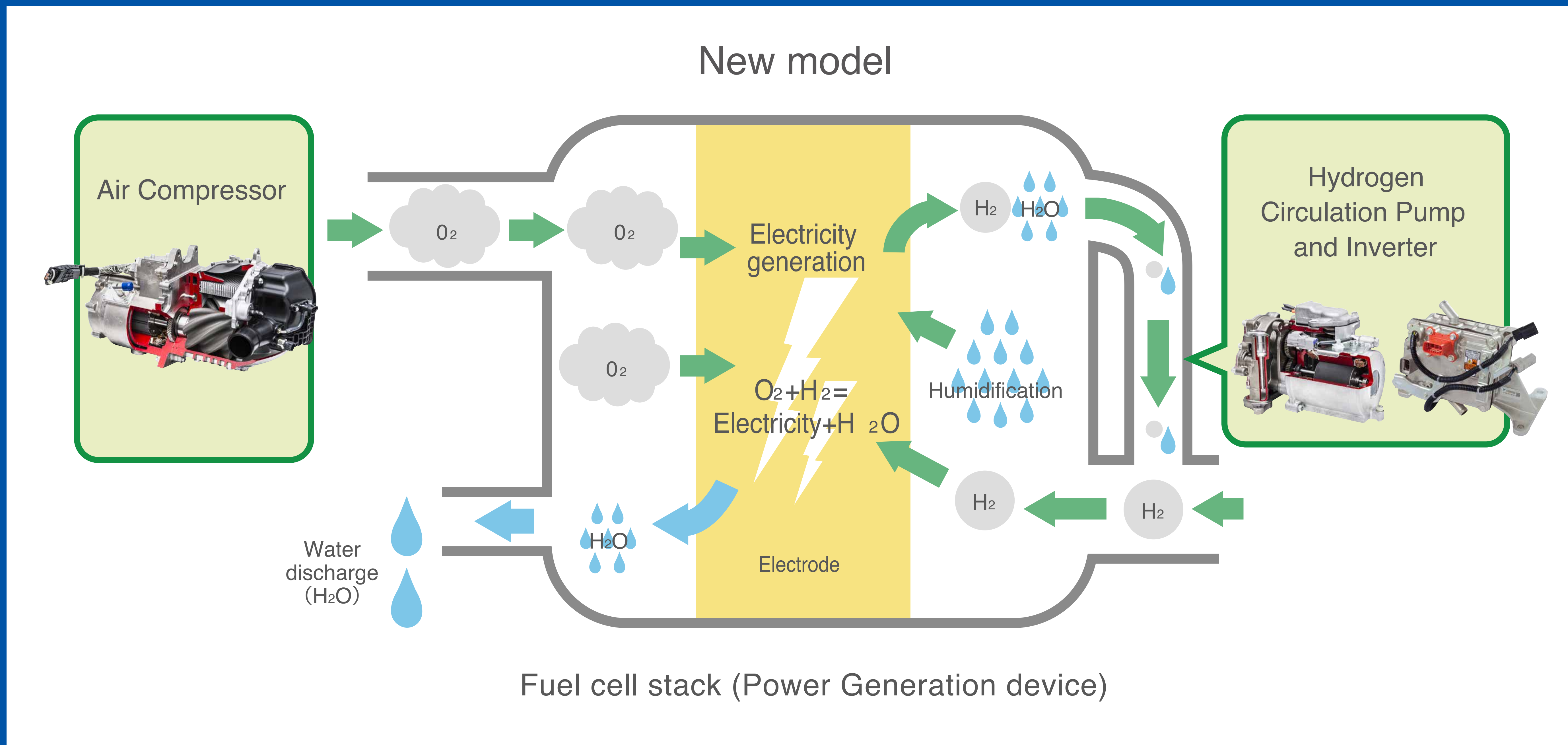
Specifications

Pump type	6-lobe helical roots type
Maximum output	20 kW
Maximum speed	12,500 r/min

Air Compressor



Mechanism of fuel cell and role of air compressor





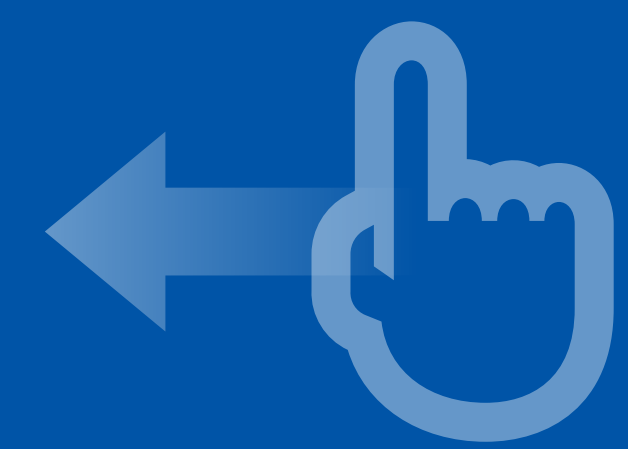
6lobe



Helical Roots-Type Rotor

- The world's first compressor that uses a 6-lobe helical roots-type rotor.
- Efficiently compresses air over the entire range from low airflow during idling to high airflow during acceleration.

Air Compressor





Sound Pressure

44% reduction

A bar chart with two light blue bars. The first bar is tall, and the second bar is significantly shorter. A blue arrow points from the top of the first bar to the top of the second bar. A dashed blue box surrounds the second bar.

- Various sound muffling structures are used along the airflow route to reduce unpleasant noise during vehicle acceleration.

Air Compressor

