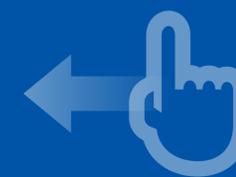
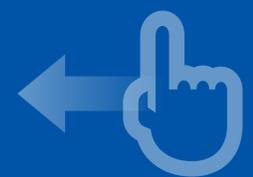


Hydrogen Circulation Pump for TOYOTA FCV MIRAI





Used on the Toyota MIRAI



Hydrogen Circulation Pump





- Recirculates a portion of the hydrogen that did not undergo a chemical reaction during electric power generation in the fuel cell stack.
- The water produced from electricity generation is also circulated, contributing to the development of a fuel cell stack without a humidifier.



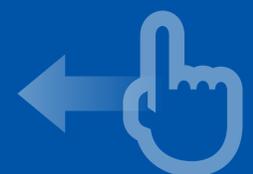
Hydrogen Circulation Pump



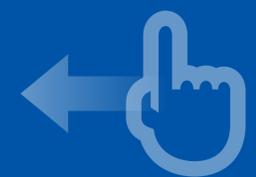
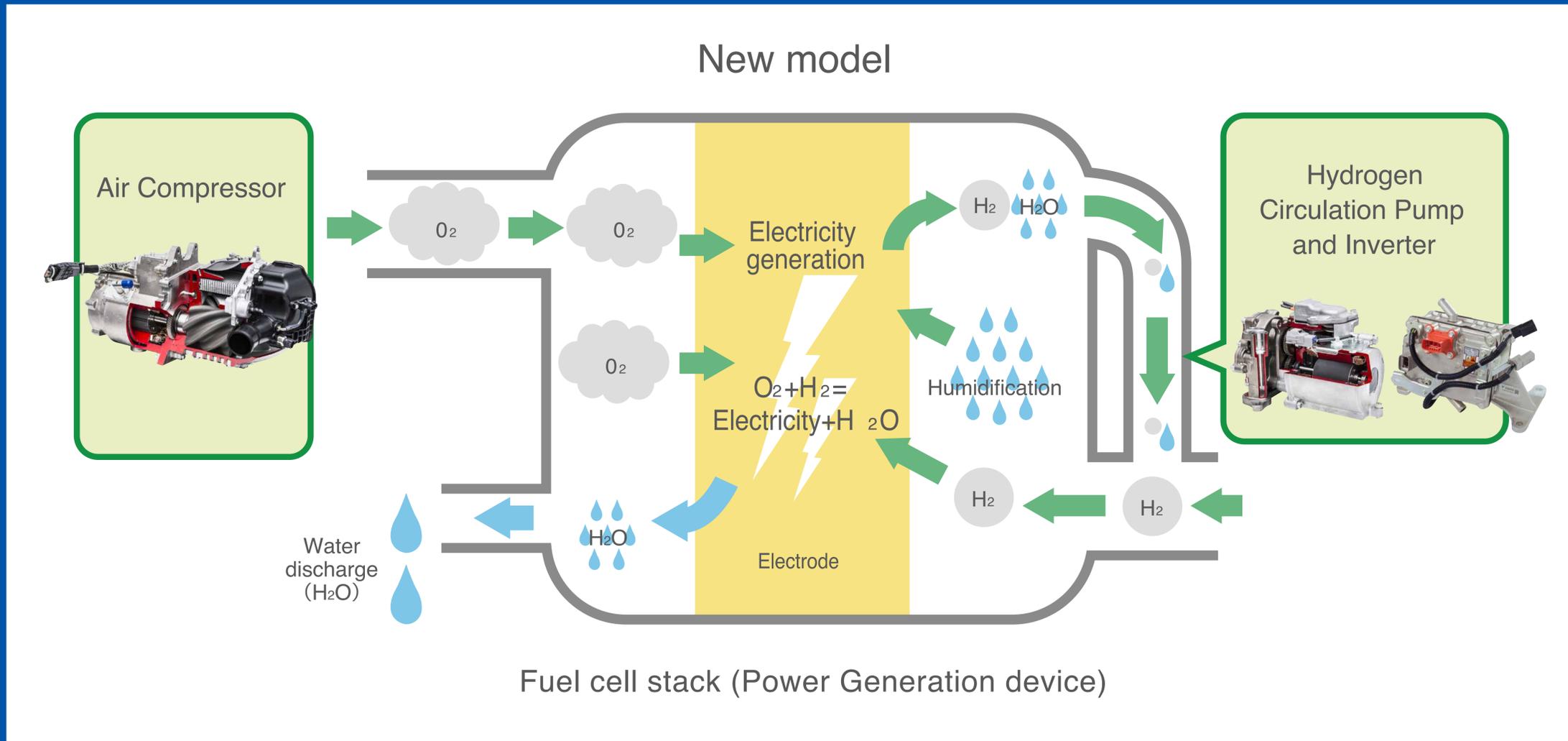


Specifications

| | |
|----------------|-----------------------------|
| Pump type | 2-lobes straight roots type |
| Maximum output | 430W |
| Maximum speed | 6,200r/min |
| Location | Under the driver's sheet |

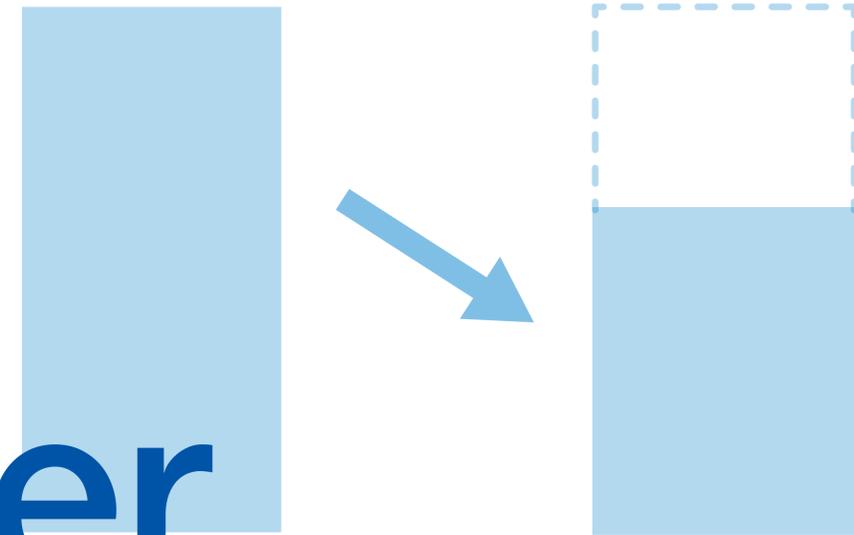


Mechanism of fuel cell and role of Hydrogen Circulation Pump

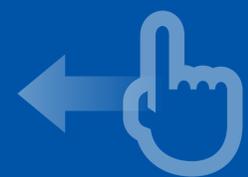




16% smaller



- Integrating the pump with the fuel cell stack raises the motor's heat dissipation performance and contributes to 16% smaller size than the previous model.

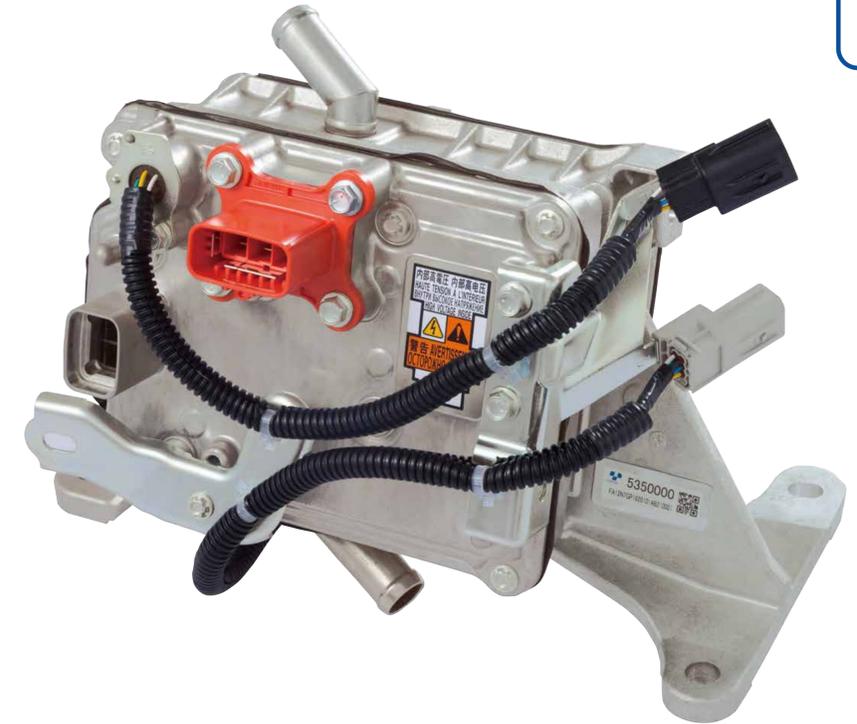


Hydrogen Circulation Pump





Hydrogen Circulation Pump Inverter



- Electric power consumption losses when operating the hydrogen circulation pump are minimized through efficient control.
- Integration with the water pump inverter contributes to a more compact size and lighter weight.

