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Bachelor of Industrial Design

H₂go FEATURES

Organic style and body design catches the essence of Professor Luigi Colani's original hydrogen-hybrid H2GO car design.

Water resistant body design incorporates hidden slots, holes and channels that vacate all unwanted water droplets out of the unit.

In case of over-filling the water tank, the water simply spills safely over the rim without endangering the unit or the user.

Super hi-gloss, high-clarity ABS shell is coated with metallic spray paint finish. Naturally strong 'dome' shape for all components allows cost savings through thinner walls that easily passing all drop tests. Attention to the positions of plastic injection gates to eliminate the need for any support ribs on the outer body component.

Easy to clean and dry body-design.

3 functions in a single molded part:

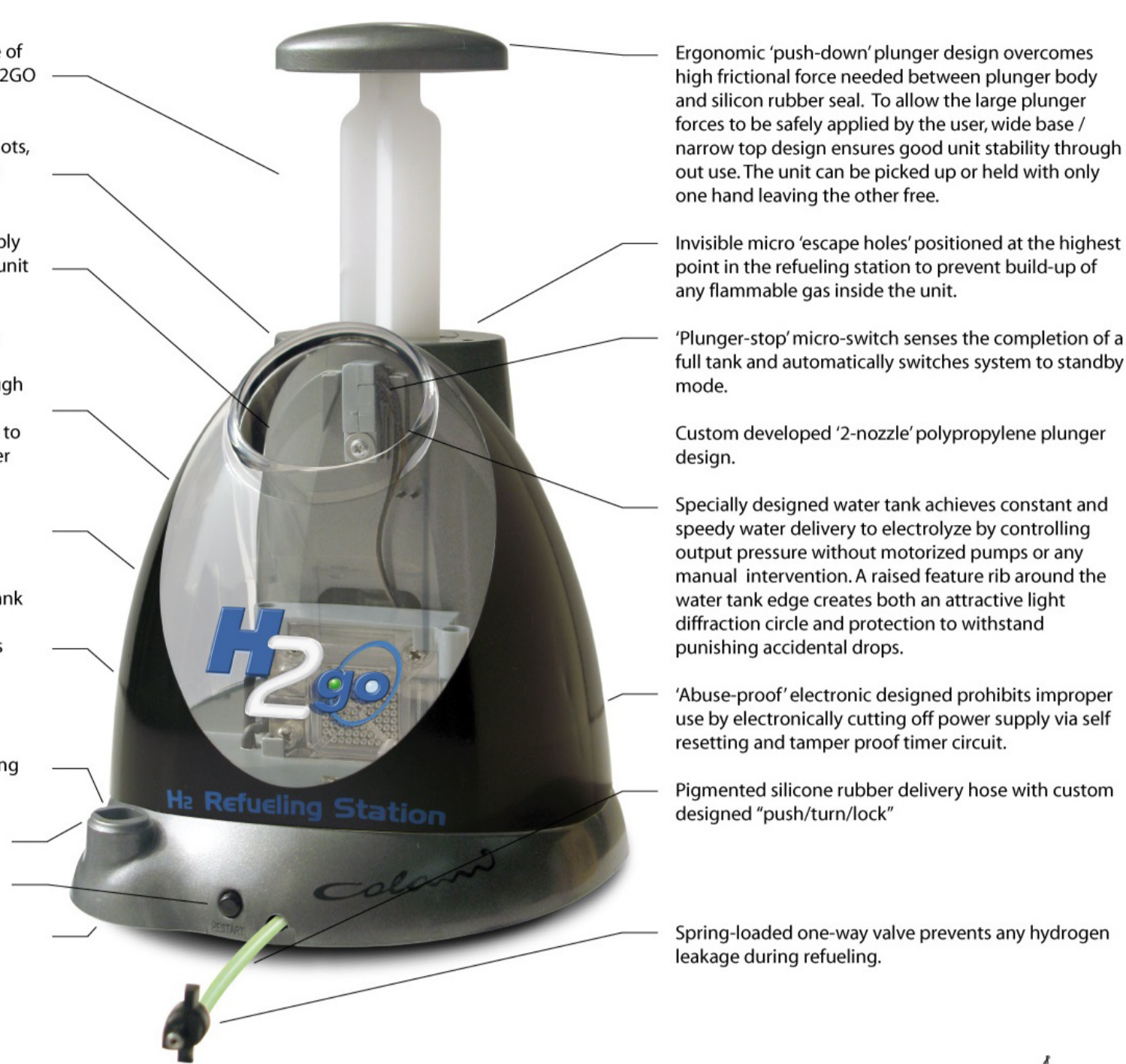
- 'Water delivery pressure' optimized 50 ml water tank with feed pipe outlets maximizes unit efficiency.
- Viewing window safely exposes refueling station's powerful water electrolyzer.
- Water-diverting design allows all spillages to be harmlessly diverted away.

ABS plastic base achieves a molded metallic finishing without noticeable streaking or welding.

Built in delivery nozzle storage

Start Button

'Wide-base' design makes for stable and balanced operation.



Ergonomic 'push-down' plunger design overcomes high frictional force needed between plunger body and silicon rubber seal. To allow the large plunger forces to be safely applied by the user, wide base / narrow top design ensures good unit stability through out use. The unit can be picked up or held with only one hand leaving the other free.

Invisible micro 'escape holes' positioned at the highest point in the refueling station to prevent build-up of any flammable gas inside the unit.

'Plunger-stop' micro-switch senses the completion of a full tank and automatically switches system to standby mode.

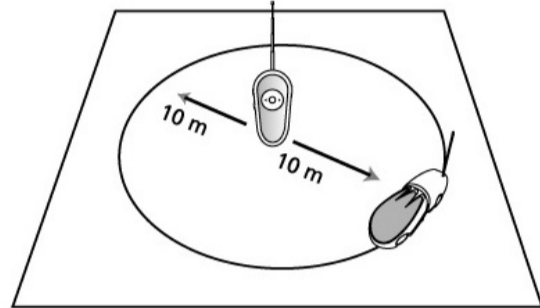
Custom developed '2-nozzle' polypropylene plunger design.

Specially designed water tank achieves constant and speedy water delivery to electrolyze by controlling output pressure without motorized pumps or any manual intervention. A raised feature rib around the water tank edge creates both an attractive light diffraction circle and protection to withstand punishing accidental drops.

'Abuse-proof' electronic designed prohibits improper use by electronically cutting off power supply via self resetting and tamper proof timer circuit.

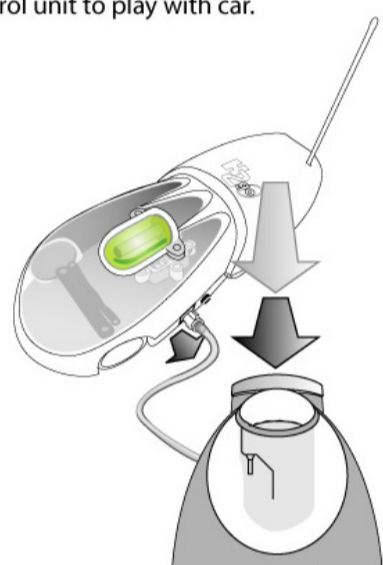
Pigmented silicone rubber delivery hose with custom designed "push/turn/lock"

Spring-loaded one-way valve prevents any hydrogen leakage during refueling.



H₂go INSTRUCTIONS

1. Charge the car, and remote control unit for 20 seconds each.
2. Use the power supply on the refueling station and allow it to generate a tank of hydrogen.
3. Once completed, transfer this fuel to the car using the refueling hose until the car's fuel tank is full.
4. Switch the car on and press buttons on remote control unit to play with car.



Hydrogen storage tank

Hydrogen Electrolyzer

Indication light

Exploded view of refueling station.



Project - Hydrogen Powered Remote Controlled Car

I designed the world's first hydrogen powered fully remote controlled car and won the 'Toy Innovation Award' at the Nuremberg Toy Fair. I have also had the

chance to teach strategic planning and scenario planning, social innovation, product redesign to undergraduate students in Hong Kong.

CV

I graduated from University of South Australia, Adelaide, with a Bachelor of Design, Industrial Design. I proceeded to complete a Graduate Diploma in Business Enterprise from University of Adelaide. In 2016, I received an MBA from University of Strathclyde with a focus on Marketing Management. With industrial experience in fields including product, toy, retail design; I specialize in taking innovative and socially conscious approaches to design. My research interests focuses on the cross-over between design and business with emphasis on exploring creative management and design entrepreneurship with a global context. I actively engages Asian business partners to bring about synergies between the education sector with public/private business sectors and I work with NGOs to bring about socially conscious design in Hong Kong.

Awards

2008 Nuremberg International Toy Fair. International Toy Design Competition. Winner of 'Toy Innovation Award' for most innovative toy design.

Uni Memories

I treasured every chance to get inspired and tried to make as many of my design as possible.

Advice

Day by day, what you choose, what you think and what you do is who you become.



Works by South Australian Industrial Design Alumni

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