

TEChill

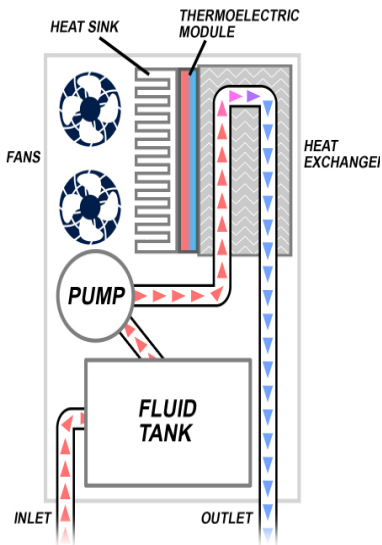
TEC Fluid Cooling & Heating!

The TEChill chiller and heater systems is based on Thermoelectric devices (Peltier, TEC) that provide precision heating and cooling of the fluid medium. TECs are semiconductor refrigerators and heaters that have no moving parts. This eliminates the kinds of failures associated with vapor compression for refrigeration. **TEChill is capable of 1.4kW-2kW of cooling and heating**



Features & Benefits

- Precise temperature control for heating and cooling
- Environmentally friendly
- Localized heating and cooling once attached to a cold plate
- Fast temperature response for both heating and cooling
- Low noise and vibration
- Leak free, stainless steel fittings
- Compact and portable – system rides on lockable casters



Applications

- Medical chillers & heaters
- Water chillers & heaters
- Food & beverage
- Laser cooling
- X-Ray systems
- Laboratory testing of cell-biology
- Medical equipment
- Analytical equipment
- Defense & aerospace
- Semiconductor & equipment

Wetted Materials

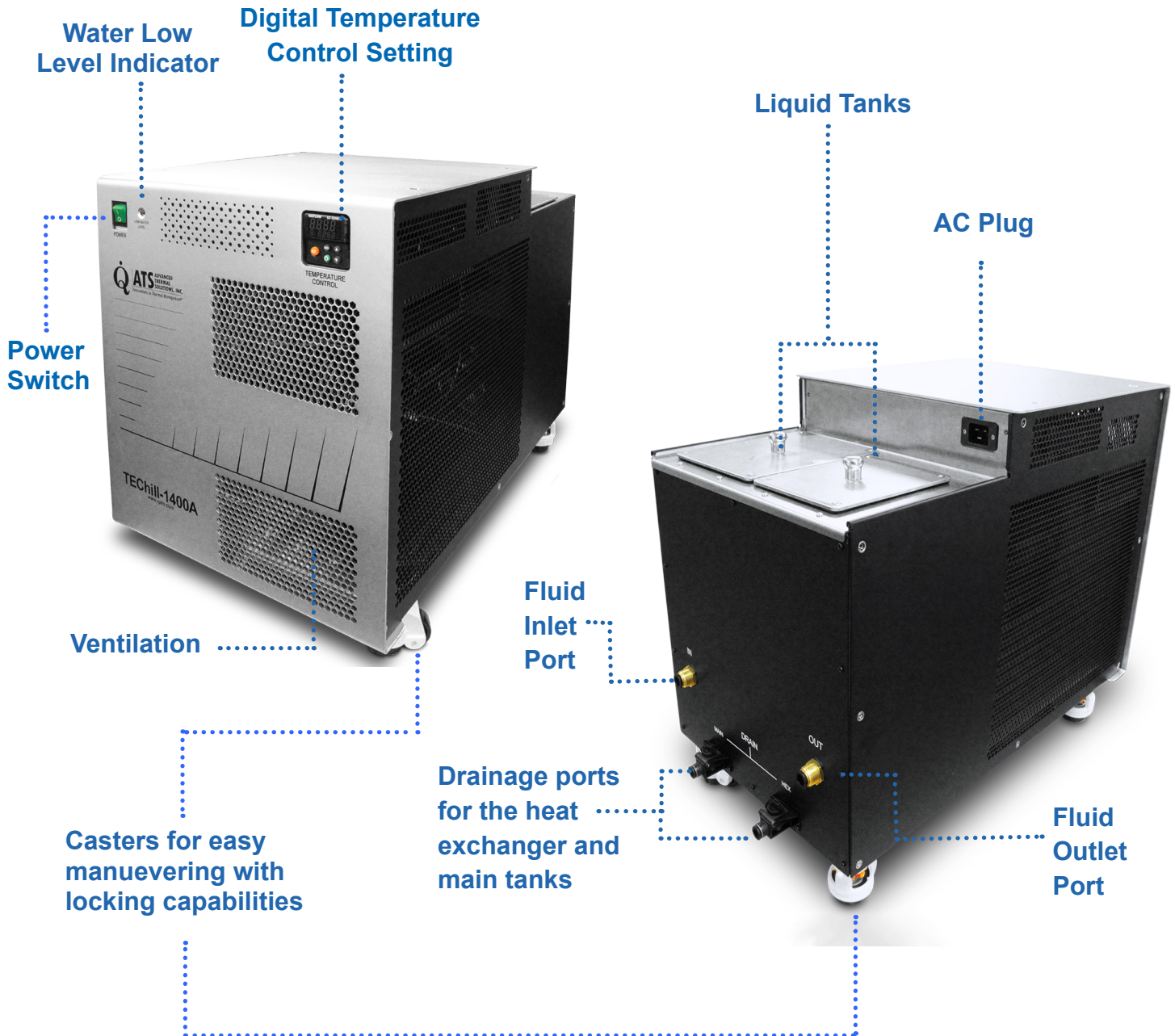
- Aluminum
- EPDM
- Stainless Steel
- Polycarbonate
- Polypropylene
- Polyurethane
- Nylon 11
- Santoprene

SPECIFICATIONS

- » **COOLING CAPACITY**
TEChill-1400A 1.4kW
TEChill-2100A 2,1kW
- » **COOLING MODE RANGE**
TEChill-1400A 5°C to 60°C / (41°F to 140°F)
TEChill-2100A 5°C to 75°C / (41°F to 167°F)
- » **HEATING MODE LIMIT**
TEChill-1400A Up to 70°C / (158°F)
TEChill-2100A Up to 75°C / (167°F)
- » **PUMP PRESSURE HEAD (MAX.)**
3.3 m (11 ft) / 32.8 Kpa (4.7 psi)
- » **PUMP FLOW RATE (MAX.)**
3.79 L/Min / (1 GPM)
- » **WATER TANK CAPACITY**
2 L / (1/2 gal.)
- » **FLUID LOOP ATTACH**
1/2 Inch NPT, stainless steel
- » **INPUT POWER**
TEChill-1400A 180-264 VAC
TEChill-2100A 220-240 VAC
- » **POWER INPUT CURRENT**
16-20 A
- » **FREQUENCY RANGE**
47 to 63 HZ
- » **OPERATING TEMP. RANGE**
TEChill-1400A -40 °C to +85 °C / (-40 °F to +185 °F)
TEChill-2100A 5°C to 50°C / (41°F to 122°F)
- » **OPERATING HUMIDITY RANGE**
20 to 90% RH
- » **TEMPERATURE STABILITY**
+ / - 1° C
- » **STORAGE TEMPERATURE**
TEChill-1400A -40 °C to +85 °C / (-40 °F to +185 °F)
TEChill-2100A -10°C to 85°C / (14°F to 185°F)
- » **STORAGE HUMIDITY**
10 to 95%
- » **DIMENSIONS**
TEChill-1400A
(W) 40.1 x (D) 72.1 x (H) 52.4 CM
(W) 15.7 x (D) 28.4 x (H) 26.6 IN
TEChill-2100A
(W) 40.1 x (D) 73.7 x (H) 57.0 CM
(W) 15.7 x (D) 29.0 x (H) 22.4 IN
- » **WEIGHT**
TEChill-1400A:
40 KG / (88.2 LBS)
TEChill-2100A
41 KG / (90.3 LBS)



Main Features of the TEChill-1400A Thermoelectric Chiller and Heater

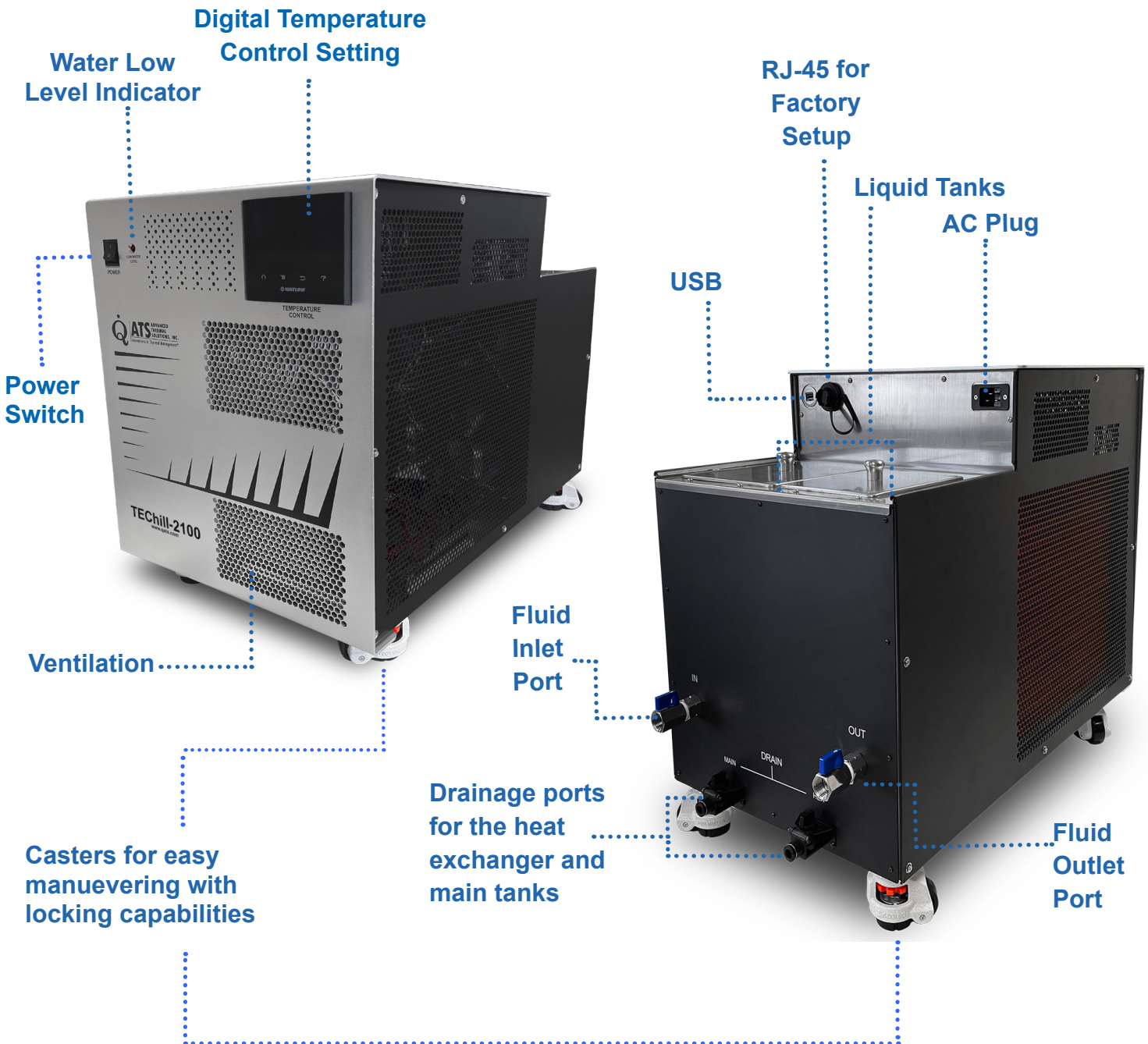


Customization

ATS specializes in custom thermoelectric systems for your specific application. Contact us for your design requirements @ ats-hq@qats.com



Main Features of the TEChill-2100A Thermoelectric Chiller and Heater



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