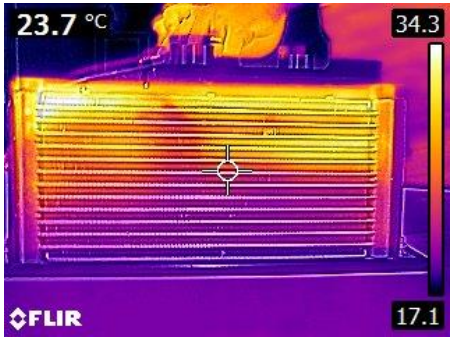
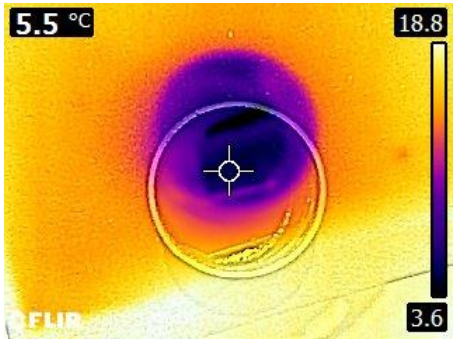
Mini Heat Pump Performance

Specifications

- Up to 450 W cooling capacity
- Up to 150 W power usage
- COP 3.0
- Up to 600 W heating capacity
- 12 VDC

Infrared Thermal Imaging



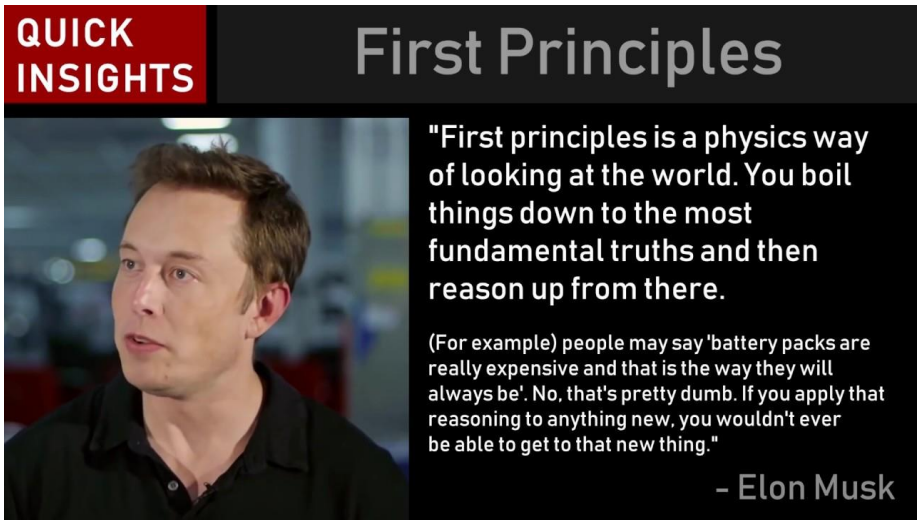


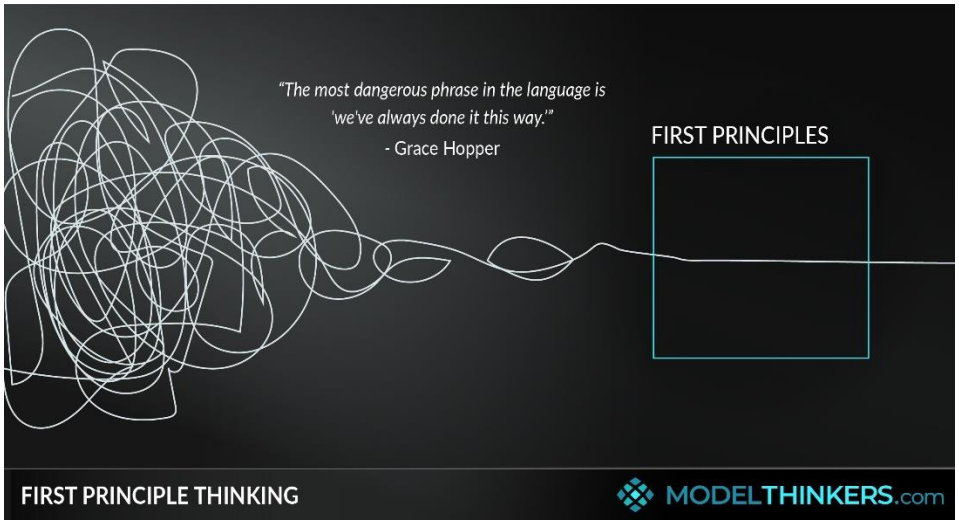
Heating source

Cooling source

*** Heating source up to 36 dC from the upper section of the condenser * Cooling source down to 3 dC from the evaporator**

First Principle Thinking





Our Fundamental Question

WHAT **do we really want to HEAT or COOL ?**

Power  **House or Occupant**  **~120 W Power** ASHRAE

WHY Heat Pump?

Do you know?

- Combined heating & cooling in one unit
- High Coefficient of Performance (COP) to 3.0 above
- Using cleaner electricity and reduce GHG emissions
- Solar-assisted Heat Pump market size up to USD 140 billion