

10kWe/50kWt - Village Industrial Power(VIP) / 50kWe - AgWatt

Unique features:

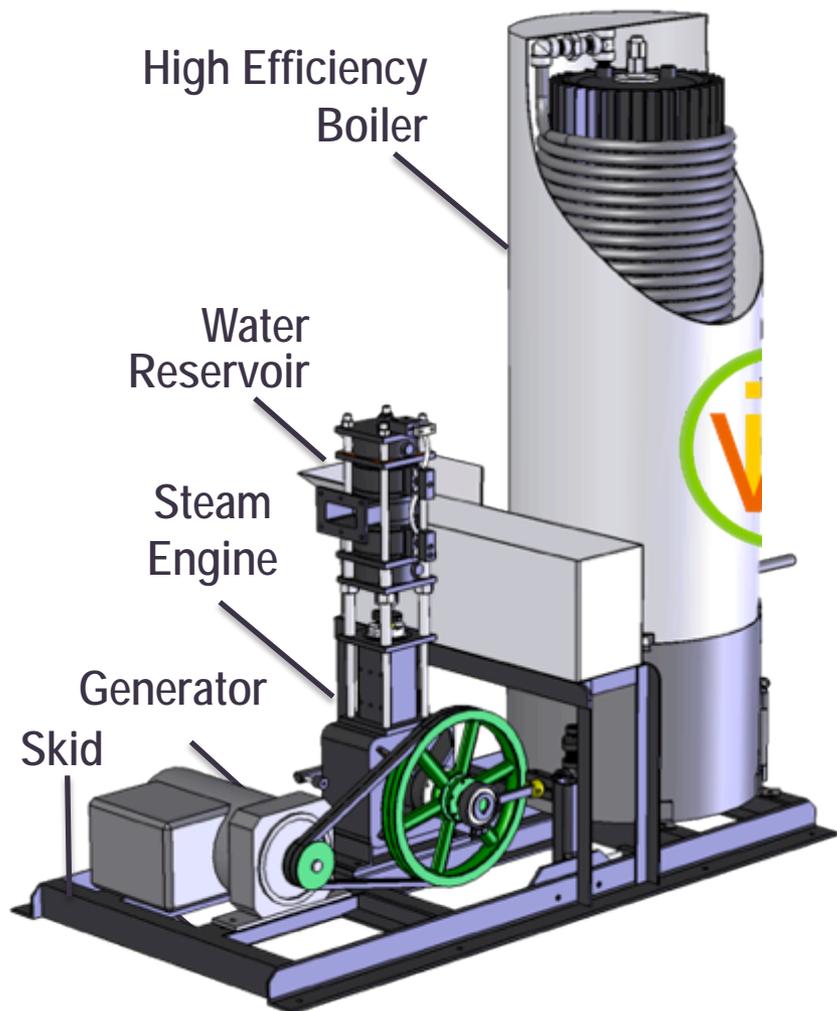
- Fuel Flexibility, Oil-less Steam Cylinder

Capabilities: Co-Generated Heat

(low pressure steam), ease of use cooking

Technical Details – 10 to 50kW range

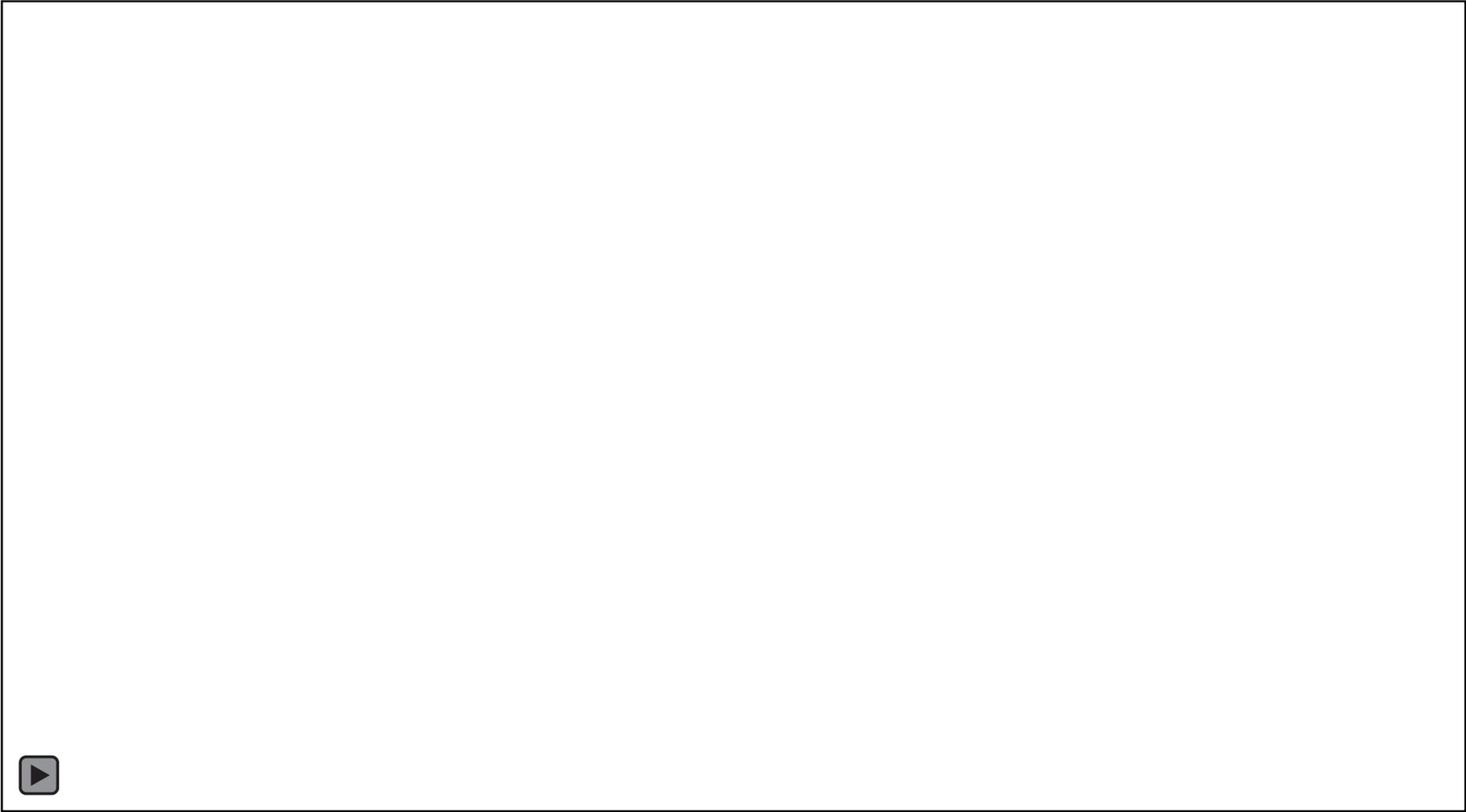
- 10kWe, 50kWt power/ 50kWe,
- Weight: 2,000- 10,000 lbs
- Size: 2m x 1m x 2m, Efficiency; (fuel to e): 10%
- Emission: min visible; CO < 500 ppm
- Boiler Exhaust = 300 C
- Engine exhaust = 120 C (saturated steam)
- Inlet temp; 300 C (superheated steam, 20 bar)
- Durability (10 plus years; run time insufficient for verification)
- Cost; (projected cost, US manufacture: \$20,000; overseas: \$10 –15,000)
- Noise; currently est. 80 db at full output, potentially much lower



Patent Pending



Two 50kW CHP Units at Glenclyff Nursing Home, State of NH



AgWatt/Village Industrial Power (VIP)

Development Needs

- Build and Test Integrated 50 kW plant
- Adapt to AgFuel Energy Crop Burner; test varied fuels
- Endurance testing; Optimization (pressure-displacement data logging, heat transfer analysis, speed increase to 1800 rpm)
- Cost reduction
- Feasibility – tailor the system to 1 to 5 kW range (specific cost)
- Automation
- Code approval for commercial and residential use

