agrilab TECHNOLOGIES
Compost Powered Heat

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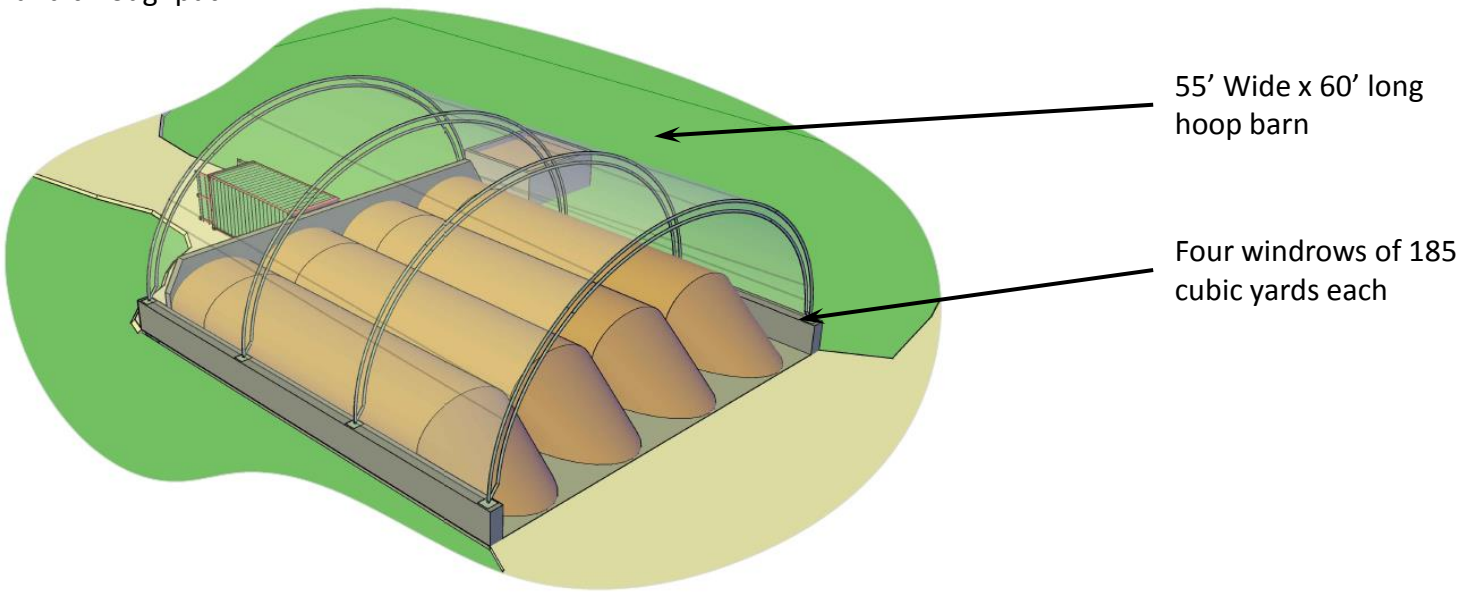
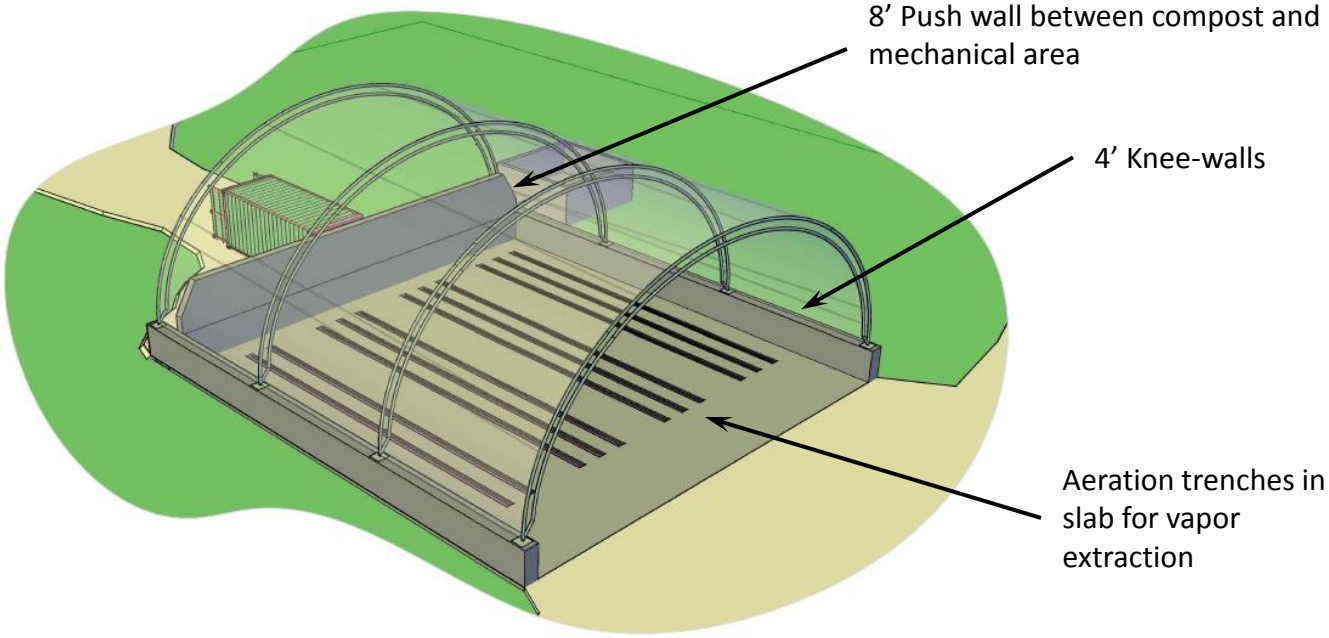
# Compost Hot Box 250R™ with Hoop Barn

A 55’ wide by 60’ long hoop barn is well sized to hold compost for the Compost Hot Box 250™. Four 185 yd³ windrows in a negative aerated static pile (ASP) system provide plenty of vapor (typically ~350 CFM continuous) for heat recovery, and the Hot Skid’s aeration and recirculation system optimizes compost temperatures, heat recovery and throughput.




**Benefits of Aerated Composting with Heat Recovery:**

- **Aeration saves diesel fuel, labor and equipment use compared with turned windrow composting**
- **Composting reduces pathogens and composted manure can be used as bedding**
- **Captured heat can be used to heat process/wash water, radiant slabs, greenhouses or shops, etc.**

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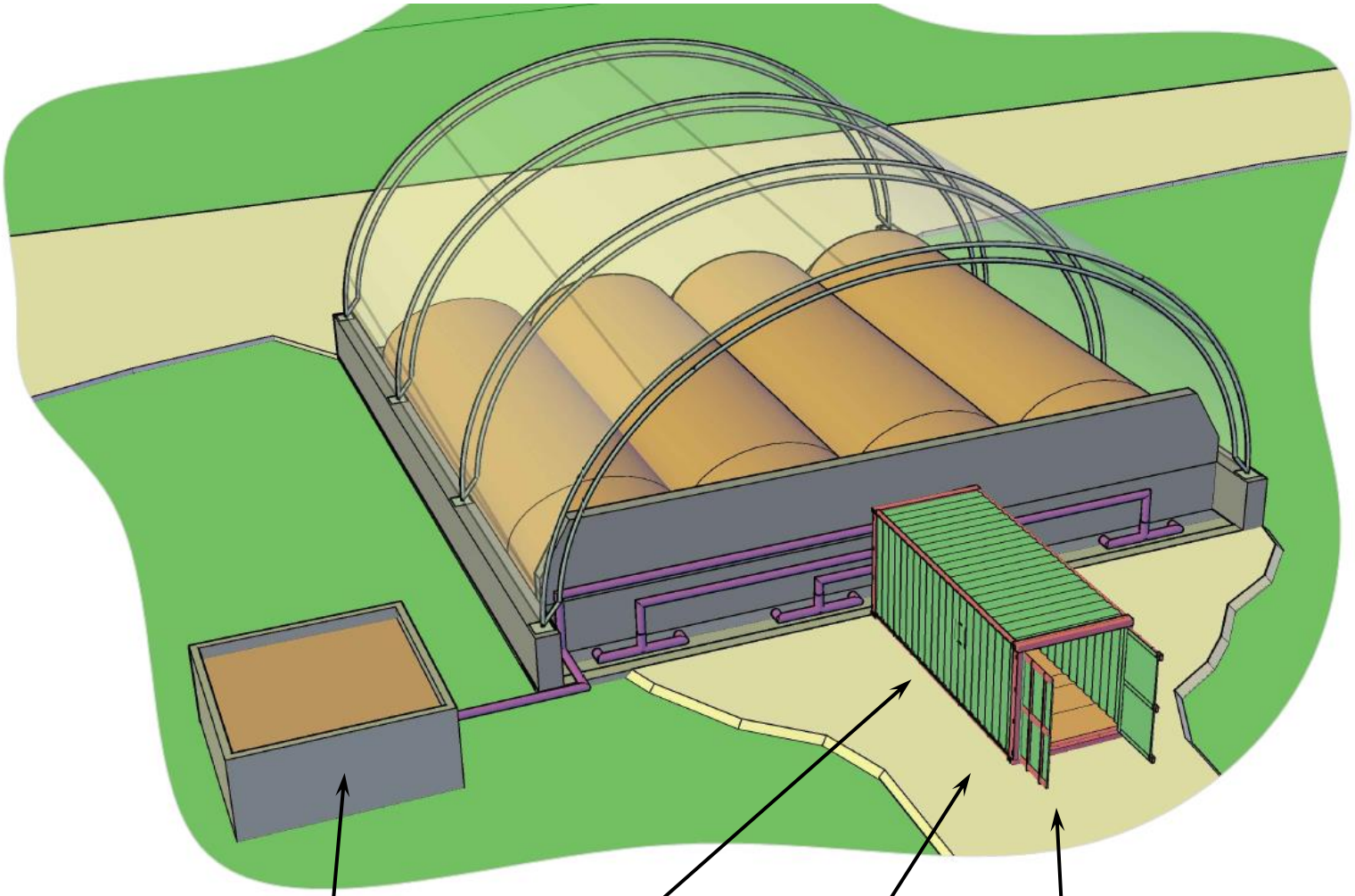
# Compost Hot Box 250R™ Installation

The Hot Box is weatherproof and can be placed anywhere in the vicinity of the ASP system. The layout below maximizes compost space in the building while still protecting ducts in the building end. Approximately ½ of the 20' long hot box can be used for storage; the 20' or 40' hot box container can even be used as a hallway to another building for the most efficient housing of hot water and electrical lines.



20' container shown;
40' also available.

Biofilter (optional) for odor control

Hot Box can be easily moved to location with equipment

Far end of container can be used as storage, workspace or connection to another structure

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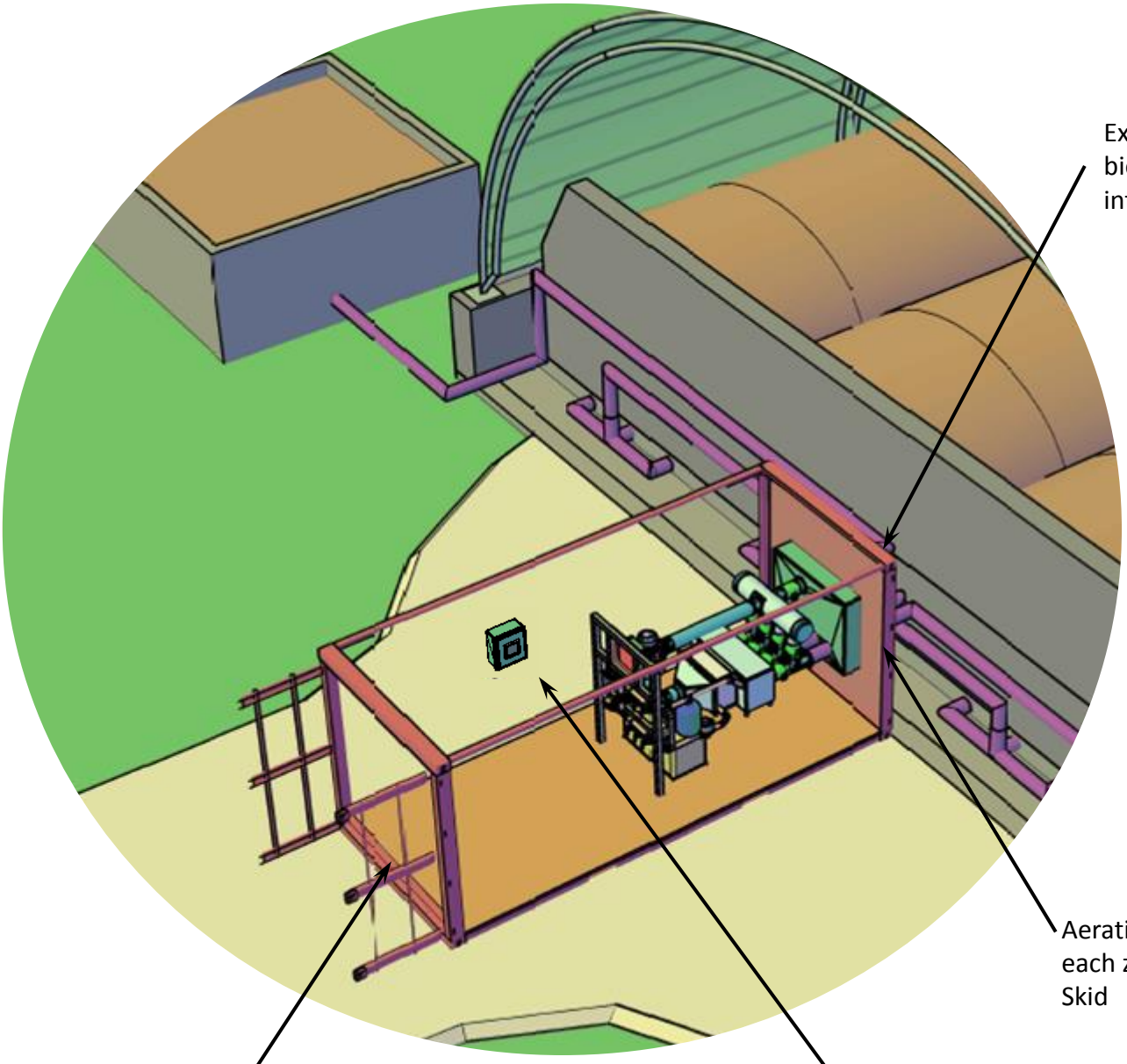
# Compost Hot Box 250R™ Installation

The Hot Box 250R™ is easily moved into place with forks and installed behind a push wall or in an adjacent shed. Hot water can be run through insulated pipes to nearby loads. Modest power (220V, 10 A service) and ethernet line are the only utilities needed to run this compost and power production center. Condensate drainage can be by gravity or pumped with the included pump tank.



Exhaust plumbed to biofilter or released into compost area

Aeration ducts connect each zone to the Hot Skid

Hot water lines (insulated), electricity (220v) and ethernet can be sent through container walls, end or floor

On-board controls and monitoring with 6” touch screen can be accessed remotely (if internet connected)