



## Gas Heat Pump System Site Evaluation Checklist for Contractors

These guidelines are provided to ensure a comprehensive quote and successful installation of the Anesi 80K gas heat pump (GHP) with the Anesi air handler unit (AHU), and the optional indirect storage tank (IST). These guidelines are provided with the assumption that the professional installation contractor has read and understands the installation and operation manuals and guidelines for all Anesi products.

### GHP Placement

- Minimum clearance distance from windows, regulator vents, air intakes
- Avoid placement below roof overhang and drip edge
- Optimize distance from unit to exterior wall for hydronic and gas piping connections
- Optimize placement for shortest piping and wiring to indoor components
- Optimize placement to facilitate condensate management and disposal requirements
- Confirm pad or surface stability and grading to avoid shifting or settling
- Check local regulations for sound level restrictions (full fire GHP is 55 – 58 dBa)
- Verify clearances for unit if a heat pump stand will be used (high snow-load areas)

### GHP Mobilization and Transport

- Evaluate transport path clearances on all sides to accommodate necessary transport method
- Calculate load requirements for any equipment required in vertical lift placement scenarios
- Calculate load maximums for surfaces along the transport path and identify temporary reinforcement materials
- Determine clear transport path from street to equipment location

### GHP Condensate Disposal

- Understand all local codes regarding condensate disposal to sewer
- Outdoor routing:** Drywell excavated below frost line is optimal, neutralization is not required
- Indoor routing:** Locate suitable gravity drain or utilize condensate pump
- Consider unit placement when evaluating condensate pipe routing

### GHP Hydronic Lines

- Observe local building code requirements for building penetrations
- Building penetrations may be made either above or below grade
- Calculate total developed round trip piping distance from GHP to AHU\*
- Count total of all direction changes and required fittings for round trip piping from GHP to AHU\*

\* Refer to the installation and operation manual for hydronic line guidelines

### GHP Electric Service

- Confirm origin of required 115VAC circuit and location of disconnect
- Understand local building code requirements for external equipment electric service
- Confirm electric service routing from inside or outside of the building and panel capacity

### GHP Fuel Service

- Confirm capacity of required natural gas or LP gas line to GHP burner connection
- Understand all local code requirements for gas service related to piping materials, methods, size, and distance
- Confirm gas line origination from inside or outside of the building

### AHU Placement

- Retrofit:** Confirm service clearances are maintained when connecting to existing ductwork\*
- New Construction:** Coordinate location with GHP to minimize hydronic line distances
- Understand additional circulator capacity requirements when hydronic line recommendations are exceeded\*
- Confirm location of required 115V, 20A circuit
- Note physical dimensions of AHU for vertical and horizontal installation requirements and air filtration

\* Refer to the installation and operation manual for hydronic line guidelines

### IST Placement

- Verify IST installation location and physical dimensions for adequate installation and service clearances \*
- Confirm requirements to seal flue vent and cap gas line from original appliances
- Coordinate location with AHU to minimize hydronic line distances
- Understand local code requirements for double wall heat exchangers\*\*
- Verify 24V control wiring path from IST to AHU

\* Refer to the installation and operation manual for clearance guidelines

\*\* If double wall heat exchangers are required an external plate heat exchanger with circulator may be placed between the AHU/IST connections