



SWIMEx

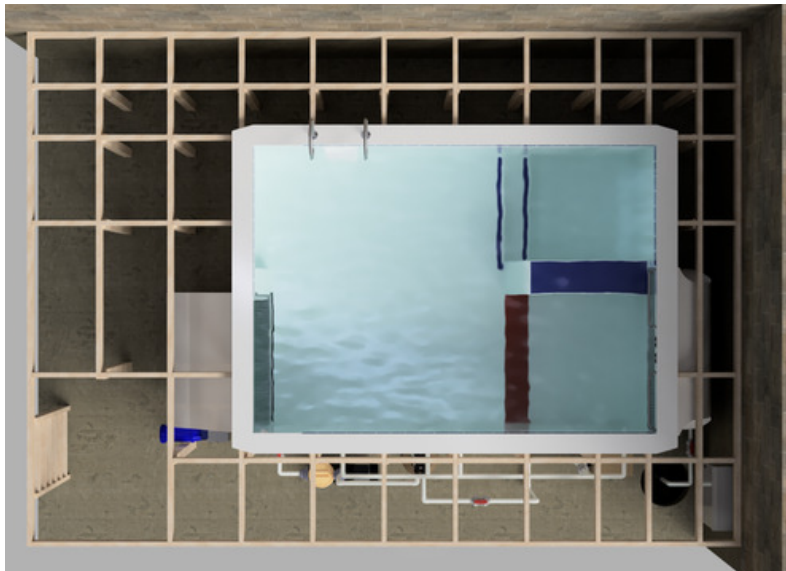
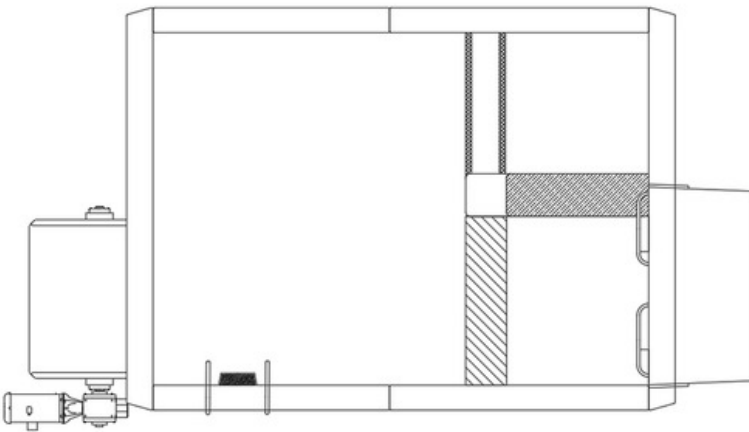
ARCHITECTURAL GUIDELINES

1000 S (VS)

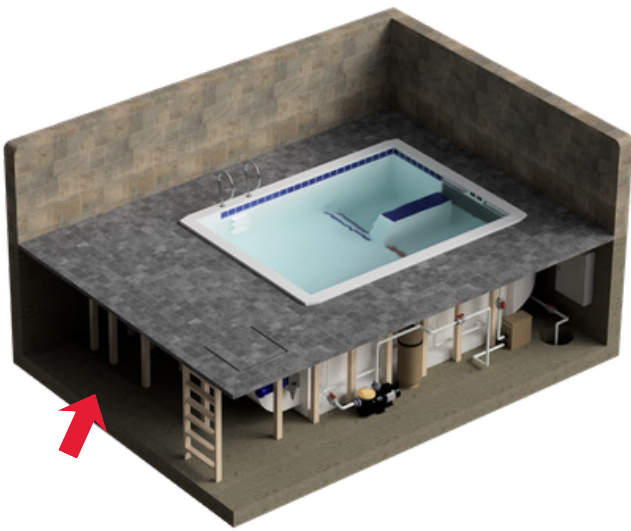
General Layout

Note: Decking is NOT included with any SwimEx pools
Drawings are for conceptual use only
Do not use as construction drawings

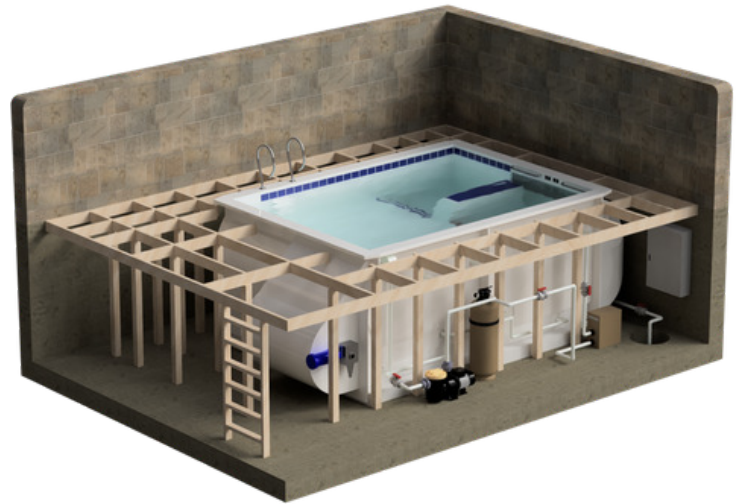
1. Call SwimEx at 800-877-7946 to receive AutoCad® Drawings and or Revit Files of the SwimEx Model that you will be installing. These drawings can be placed directly into your pool room layout and site drawings.
2. SwimEx pools are available in two versions: For existing construction, the pool comes standard in four pieces. For new construction we recommend that the option for the pool assembly at the factory be purchased (SX512). In this case, the pool arrives as one piece and is placed into the facility early in construction. ** See Blueprint Section for sizes of pieces and whole pool.
3. Provide a flat level surface for pool to sit on with a load bearing capacity of 525 lbs./sq.ft. **Footprint of pool must be level within $\frac{1}{4}$ ", while the remainder of pit or area can be sloped to drain water.
4. Below ground installation requires a minimum pit of 18' wide (5.89m) by 25' long (7.62m) and 84" deep (2.133m). The pit side walls provide no structure for the pool they are only retaining walls for keeping back fill from falling in against the side of the pool. (+/- $\frac{1}{2}$ " or 13mm for all dimensions).
5. Above ground installation requires a minimum ceiling height of 12' with no obstructions above the pool (Lights, vents, ducts, beams) ** Check local building codes for minimum ceiling height and required decking area.
6. Every SwimEx comes standard with an entrance ladder. Based on the orientation of the pool within the room, the ladder needs to be placed in the optimum location. The ladder and plumbing connections can be placed on either side of the unit for no charge, so long as the order indicates the location. (These items are formed in the molding process; thus we must know the desired location at the time the order is placed.)



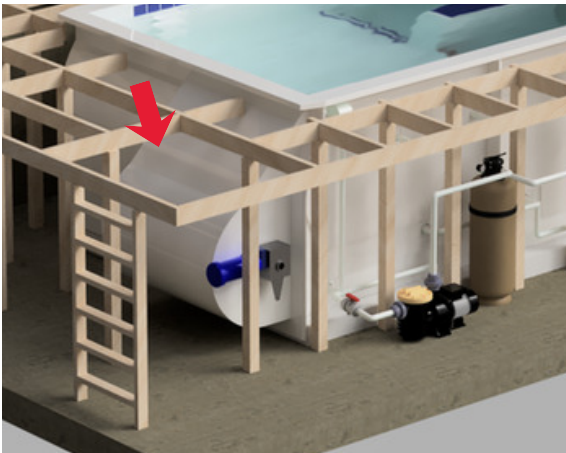
7. Allow access to equipment and pool via access hatch for in-ground, or access panels for above-ground installations. A ladder should be provided to access the pump, filter and heater located within the pit.



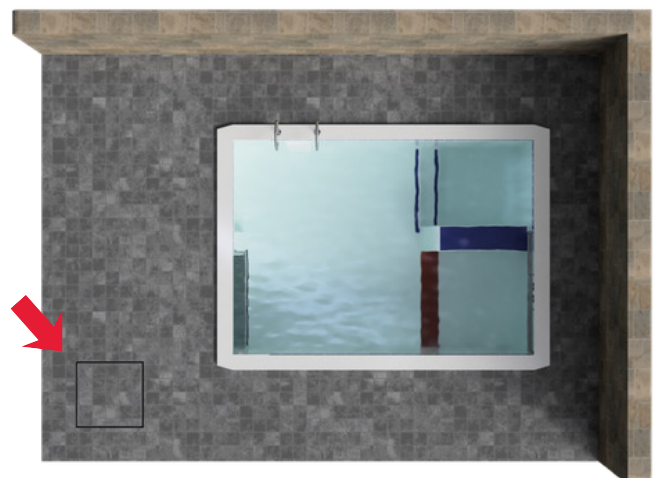
Concrete slab with retaining walls. See #3 above



Room Dim. 25' x 18' x 84" See #4 above



Hatch opening in decking to access pit. See #7 above



Hatch opening in finished decking to access pit.
See #7 above

Electrical Requirements:

Must provide sub-panel with appropriate GFCI breakers for equipment.

Standard pool configuration requires 220/240 Volt, single phase, 180 Amps

GFCI Breakers for Paddlewheel Econodrive controller, Heater, and Pump

Paddlewheel Econodrive Controller: 50 Amp, 208-240V Single Phase (38 FLA) 7.5 HP Gearmotor

Variable speed controller takes 208-240Volt single phase in and converts to 3 phase to drive the gearmotor.

Heater: 100 Amp 240V, Single Phase (FLA 75 Amps)

Pump: 20 Amp, 115V/208-240V Single Phase (FLA 13.9/11.1-10.1 Amps)

** Pump and Heater can be put on a timer to run 8 hrs. per day (By owner)

An onsite electrician, contracted by owner, in accordance with local and national electric codes, must make all connections between equipment and circuit breakers. Connections to be made dealing with the SwimEx Pool are from the breaker panel to the variable speed controller then the controller to the gearmotor, breaker panel to heater, and breaker panel to pump.

Mechanical Requirements:

**Please read and familiarize yourself with the Plumbing Section of the Manual

Plumbing:

- Pool is pre-plumbed with all eyeball and suction fittings.
- On-site plumber (contracted by owner) must make connections between pool and provided pool equipment.
- All connections are PVC and will vary depending on location.
- Typical connections are schedule 40/80 PVC and range from 1" (2.54cm) to 3" (7.62cm) in diameter.

Water fill:

- ¾" (1.9cm) Cold Water fill line for pool (Tempered water can be provided but is not required.) The fill line must be protected by backflow preventers, as required by local codes.
- Valve for water fill should be located within poolroom so that operator can see water level as pool is being filled.

Drain:

- The SwimEx comes with a 2" (50mm) drain from the front of the pool with a shutoff valve. A floor drain or sump pump and pit must be provided for semi-annual draining of the pool. Drain from pool is elevated approximately 3 ½" (88.9mm) from floor. A small sump pump (not supplied) may be used to remove the remaining water in the pool.
- Drain will have approximate flow of 80 GPM (302 l/min) when pool is full. If sump can't handle that flow rate, the shut-off can be throttled back.

- Continued -



HVAC:

- SwimEx recommends the use of a small dehumidifier within the pit area to keep moisture out, this area is generally below ground and occasionally gets wet due to splashing. This can be tied to the sump drain.
- The SwimEx pool room should have a minimum of an exhaust fan. If the room is conditioned, we recommend that there be no air return to the rest of the home. The air should be exhausted directly outside.
- Ventilation and exhaust from pool room: Because the pool has a small water surface area this eliminates the need for large dehumidification systems. Typical water loss due to evaporation is in the range of 4-5lbs/ hour for a standard SwimEx pool.
- It is recommended to maintain the pool room air temperature to within 2 -5 degrees of the pool water temperature (up to a maximum of 86 degrees room temperature).

Hosebib:

It is recommended (and required within some jurisdictions) within the SwimEx pool area for semi annual cleaning of the pool interior.

Pool Equipment:

Standard Pool Equipment:

Pump:

Pentair Pool Products
Model: Whisperflo VST Pump
2 HP Variable Speed Filtration Pump
95GPM @ 50TDH
Electrical Requirements:
115V/208-240V single phase
20 Amp (FLA 13.9/11.1-10.1) Amps)

Filter:

Pentair Pool Products
Model: Clean & Clear Plus
CCP 420 NSF Listed
420 Square Feet of filtration Area
Design Flow Rate of .375 G/sq.ft. for a flow of up to 150 GPM
Connections 2" PVC Glue Unions
Dimensions: 49" T x 21.5" dia. Removal of cover req. 68" Height

Heater:

Coates Heater Company
Model: 12418CE 18 KW Electric Heater
Dimensions 18"L x 10 1/4" W x 11 1/2" H
Electrical Requirements:
100 Amp, 240V Single Phase (FLA 75 Amps) GFCI Breaker
Optional Upgrade: Natural Gas or Propane Heaters are available

-Continued on next page-



Non SwimEx Equipment provided by owner

- **Sump Pump:** Plumber will locate a sump pump within pit area.
- **Ventilation** and exhaust requirements.
- **Lights** under deck or in pit area: Pit area must have lights for future maintenance.
- **Solar heat** and other heat means can be tied into the filtration loop via a bypass placed after the filter and prior to the standard electric heater.
- **GFCI Outlet** in pit for future maintenance.

Optional Equipment Considerations:

EDGE Tablet Drive- (Upgrade from Econodrive Controller)

- 208-240V Single Phase, 50-Amp Feed (GFCI Included in Edge Control Box)
- Conduit needed for an ethernet cable from the Variable Speed Controller to poolroom for location of a WiFi access point for the EDGE Touch Screen Tablet.
- The WiFi access point can be mounted anywhere in the pool room, but you may want it higher up on the wall, so it is a bit more out of sight.

Treadmill Option - will run off the Edge Tablet Drive and require an additional 20-Amp feed (70 total).

Ozonator Option - 240V hardwired unit. Should be connected through same line or shut off as Pump to ensure that it shuts off when pump is turned off.

Underwater Lights - 110 Volt plug in unit on right or left side of pool. Provided with a mounted air button switch to turn on/off and change color selection.

Jet Option: 230V, Single Phase 20 Amp, 2 HP Jet pump controlled through air button.

Delivery Requirements:

- Clear passage for 18-wheel tractor trailer truck to deliver and forklift on site to off load pool from truck. ** If site is not accessible by tractor trailer, this must be specified for special freight quotes.
- Clear passage from entry to the final location of pool. For the Model 1000S; door openings must be 96" wide by 96" tall with a clear area on both sides of the door
- SwimEx units are available assembled at the factory. In these cases, the pool will arrive in one piece and will need to be craned into position. Planning must be done so that this can occur early in the construction process when complete access to the area is available. Typically, this is the most cost-effective way for new construction installations. (Crane provided by owner)
- A clear, unobstructed work area in and around the pit must be provided for movement of the parts into the pit, and for pool assembly. **No decking shall be constructed until the pool has been filled and water tested.
- Once the pool has been filled and water tested, the decking will need to be constructed around the SwimEx. **This is not part of the SwimEx assembly.**

