



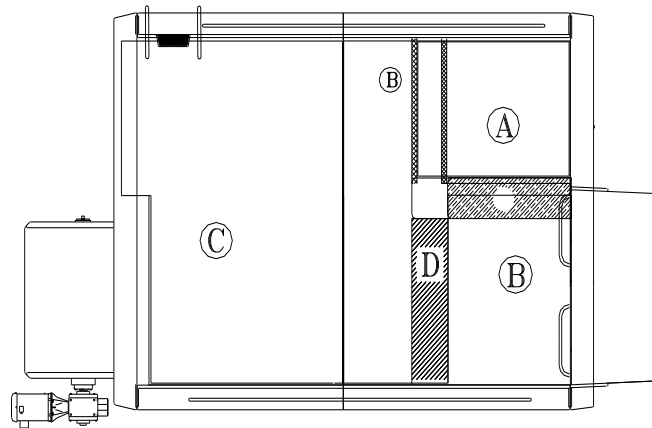
# ARCHITECT INSTALLATION GUIDELINES

Model 1000 S



## GENERAL LAYOUT

- Call SwimEx at 800-877-7946 to receive AutoCad Drawings of the SwimEx Model that you will be installing. These drawings can be placed directly into your pool room layout and site drawings.
- 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.*
- 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, remainder of pit or area can be sloped to drain water*
- Below ground installation requires a minimum pit of 18' wide by 25' long and 84" deep. 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. For pools with length extensions pit must be lengthened by same as length of extension ordered.
- 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.*
- Every SwimEx comes standard with an entrance ladder. The ladder can be placed on either side for no charge so long as the order indicates the location.
- Allow access to equipment and pool via access hatch for inground, or access panels for above ground installations.



## Delivery Requirements

- Clear passage for 18-wheel tractor trailer truck to deliver and forklift on site to off load pool from truck. *Please review Shipping Section of Manual.*
- Clear passage from entry to the final location of pool. For the Model 1000 S; door openings must be 94" wide by 94" tall with a clear area on both sides of the door. *Please review Shipping Section of Manual*
- *SwimEx units are available assembled at the factory. The pool will then arrive in one piece and will be craned into position. Planning must be done so that this can occur early in the construction process to have complete access to the area. Typically this is the most cost-effective way for new construction installations.*
- A clear, unobstructed working area in and around the pit must be provided for movement of the parts into the pit and assembly of the pool. 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, please refer to Deck Construction Section of the Manual for instructions



## Electrical Requirements:

- Standard pool requires 220/240 Volt, single phase, 105 Amps and 480V, 3 phase 30 Amp for the heater. Other voltage heaters are available, please contact SwimEx

GFCI Breakers to be provided by electrician

Paddlewheel Controller: 60 Amp 208/240V Single Phase

Heater : 75 Amp 240V Single Phase

Pump: 20 Amp 208/240V Single Phase

Ozonator 15 Amp 120V Single Phase

- Must provide sub panel with appropriate GFCI breakers for equipment  
[Please refer to Electrical Schematic in Electrical Section of the Manual](#)
- Variable speed controller takes 220/240Volt single phase in and converts to 3 phase to drive the gearmotor.
- Electrician, 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 are from the breaker panel to the variable speed controller, controller to gearmotor, breaker panel to heater, and breaker panel to pump. These must be done on site by an electrician provided by owner.

- Conduit needed from Variable speed Controller to poolroom near front of pool for SwimOmeter. Conduit must be able to let a 7/8" diameter connector pass through. The location of the Swim-Ometer must be 5' away from the pool and should be determined by the end user of the pool.

Ozonator, 110V plug in unit. Should be connected through same line as Pump to ensure that it shuts off when pump is turned off.

- Other Equipment Considerations:

Optional SwimEx equipment:

[Please refer to Other Equipment Assemblies Section of the Manual](#)

Underwater Lights, 110Volt plug in unit on right or left side of pool. Provide switch to turn off and on in convenient location.

Jet Option: Separate pump controlled by air switch 220V 15 amp required



- Non SwimEx Equipment provided by owner

Sump Pump: Plumber will locate a sump pump within pit area; connection means must be provided for.

Lights under deck or in pit area: Pit area must have lights for future maintenance.

Ventilation and exhaust requirements.

## 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 (by owner) must make connections between pool and provided pool equipment. All connections are PVC and will vary dependent on location. Typical connections are schedule 80 PVC and range from 1" to 3" in diameter.

- **Water Fill:**

$\frac{3}{4}$ " 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" drain located at the base of the front of the pool with a shutoff valve. A floor drain or sump pump and pit must be provided for annual draining of the pool. Drain from pool is elevated approximately 3  $\frac{1}{2}$ " from floor.

Drain will have approximate flow of 80 GPM when pool is full.

- **Hose Bibs:**

A hose bib is recommended (and required within some jurisdictions) within the SwimEx pool area for annual cleaning of the pool interior.

- **Dehumidification:**

The SwimEX Model 1000 S will have a 140 Sq.ft. of open water area. We recommend that the pool room temperature be kept within +/- 5 degrees of the water temperature. Typical water temperature will be 85-90 degrees. If the air and water temperature are kept this close we estimate the loss to be approximately 6 to 8 lbs/hour.



## Standard Pool Equipment

The following is a list of the standard pool equipment supplied with the SwimEx Model 1000 S



### Pump: Pentair Pool Products

- Model: Whisperflow  
WFE-4/1HP filtration Pump/78GPM @ 60TDH
- Electrical Requirements:  
240V Single Phase/15 Amp GFCI Breaker



### Filter: Pentair Pool Products

- Clean & Clear Plus / CCP 320
- 320 Square Feet of filtration Area  
Design Flow Rate of .375 G/sq.ft. for a flow of up to 120 GPM  
Connections 2" PVC Glue Unions  
Dimensions: 43" T x 21.5" dia  
Removal of cover req. 62" Height/NSF LISTED



### Heater: Coates Heater Company

- Model 34818CE 18 KW Electric Heater  
Dimensions 118 1/4" L x 10 1/8" W x 11 1/2" H
- Electrical Requirements:  
2400V Single Phase  
75 Amp GFIC Breaker feed (Natural gas and propane options available)



### Ozonator

- Purezone Model CD138PA  
120V 15 Amp GFCI breaker  
Dimensions 8" x 12" x 4"