

# ARCHITECTURAL GUIDELINES

1000 S (VS)

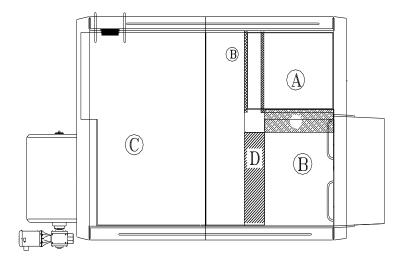


# Architect Installation Guidelines RESIDENTIAL INSTALLATIONS 1000S POOL

# **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 within ¼", while the remainder of pit or area can be sloped to drain water.
- 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. (+/- ½" or 13mm for all dimsensions).
- 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. 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.)
- 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.





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 1000S; door openings must be 94" wide by 94" tall with a clear area on both sides of the door  ** Please review Site Preparation Section of Manual.					
	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; Please refer to Deck Construction Section of the Manual for instructions. (7,700 Galllons)					
Ele	ectrical Requirements:					
	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) 5HP & 7.5HP Paddlewheel Gearmotor Heater: 100 Amp 240V, Single Phase (FLA 75 Amps) Pump: 20 Amp/15 Amp, 115V/208-240V Single Phase (FLA 13.6/8.6-7.1 Amps) ** Pump and Heater can be put on a timer to run 8 hrs. per day (By owner) 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 208-240Volt 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 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.					
	These must be done on site by an electrician contracted by owner.					



		Detional Swimex Equipment:  Please refer to Other Equipment Assemblies Section of the Manual  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 15 Amp, 2 HP Jet pump controlled through ES Combo Switch
_	N.a.	☐ Electrician wires 240 Volt to ES Combo Switch controller and makes 3 wire connection to jet pump. (Pump, ES Combo, and Air Button control provided.)
	No	<ul> <li>SwimEx Equipment provided by owner</li> <li>Sump Pump: Plumber will locate a sump pump within pit area.</li> <li>Lights under deck or in pit area: Pit area must have lights for future maintenance.</li> <li>Ventilation and exhaust requirements.</li> <li>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.</li> </ul>
		IANICAL REQUIREMENTS:
		se read and familiarize yourself with the Plumbing Section of the Manual  umbing:
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		ater 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.
		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 (5.05 l/min) when pool is full. If sump can't handle that flow rate, the shut-off can be throttled back.



☐ 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: The SwimEx Model 1000S has a 140 Sq. Ft. water surface area and will need, at most, a small dehumidification system in addition to the exhaust fan. Typical water loss due to evaporation is in the range of 6-8lbs./ hour for a standard 1000S 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).	
	Но	se Bibs:	
		A hose bib is recommended (and required within some jurisdictions) within the SwimEx pool area for semi annual cleaning of the pool interior.	
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# **STANDARD EQUIPMENT**

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

#### PUMP:

#### **Pentair Pool Products**

Model: Superflo VST Pump

1.5 HP Variable Speed Filtration Pump

85GPM @ 50TDH

**Electrical Requirements:** 

115V/208-240V single phase

20 Amp/15 Amp GFCI breaker (FLA 13.6/8.6-7.1 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 118 ¼" L x 10 1/8" W x 11 ½" H

**Electrical Requirements:** 

100 Amp, 240V Single Phase (FLA 75 Amps) GFCI Breaker

Optional Upgrade: Natural Gas or Propane Heaters are available

