



SWIMEX

ARCHITECT GUIDELINES

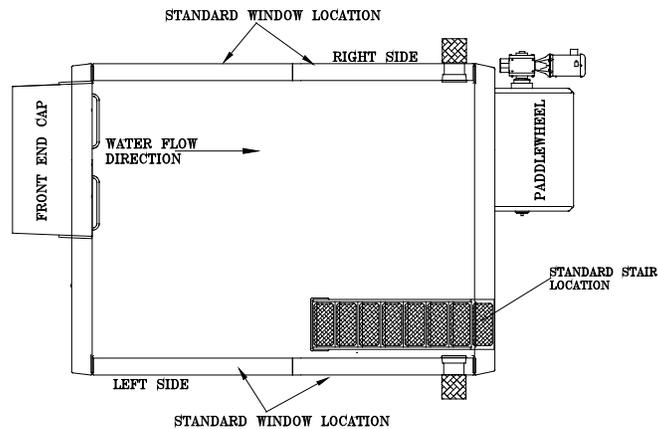
1000 T

Architect Guidelines for SwimEx Installation

Model 1000T

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. 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.*
- ❑ Check local jurisdiction for any pool room requirements. Jurisdictions often require signage, lavatory facilities, shower rooms, drainage, hose bibs, and many other items to be indicated on site plans. State Pool Codes are available from the NSPI (703-838-0083)
- ❑ Provide a flat level surface for pool to sit on with a load bearing capacity of 525 lbs./sq.ft. (2563 kg/sq.m) ***Footprint of pool must be level, but the remainder of pit or area can be sloped to drain water.*
- ❑ Below ground installation requires a minimum pit of 18' (5.48m) wide by 25' (7.62m) long and 84" (2.13m) 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.
- ❑ Above ground installation requires a minimum ceiling height of 14' (4.26m) 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 walk in stairs and 4 observation windows. The stairs are typically located in the back left corner of the pool. Please familiarize yourself with the stair location to position the pool properly in the space.



- Allow access to equipment and pool via access hatch for inground, or access panels for above ground installations.
- Patient lifts must be considered for the proper installation. Lifts differ for above and in ground applications. Please specify pool installation method for proper lift specifying.

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 1000T; door openings must be 94" (2.38m) wide by 94" (2.38m) tall with a clear area on both sides of the opening.
**** Please review Site Preparation Section of Manual.**
- SwimEx units are available assembled at the factory. If that option is ordered, the pool will 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, 90 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: 70 Amp 208/240V Single Phase (54 FLA)
- Heater : 30 Amp 480V Three Phase (OTHER VOLTAGES AVAILABLE)
- Pumps: 20 Amp 208/240V Single Phase
- Must provide sub panel with appropriate GFCI breakers for equipment.
***Please refer to Electrical Schematic in Electrical section of 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 pumps. 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 EDGE Touch Screen Monitor. Conduit must be able to let a 7/8" (2.22cm) diameter connector pass through. The location of the EDGE Touch Screen Monitor must be 5' (1.52m) away from the pool and should be determined by the end user of the pool.

- 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.
 - Ozonator, 110V plug in unit. Should be connected through same line as Pump to ensure that it shuts off when pump is turned off.
 - Jet Option :
 - Jet Pump: 220Volt controlled with ES Combo air switch controller (provided with option). Electrician must wire to controller and from controller to air blower.
 - MOTORIZED TREADMILL OPTION: 220V single phase input, to SwimEx Control panel. With this option it is required to have 80 Amps to SwimEx Control panel, 10 additional Amps.
 - 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" (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 1 ½" (3.81cm) 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" (8.89cm) from floor.
- Drain will have approximate flow of 80 GPM (302.8 LPM) when pool is full.

Hose Bibs:

- A hose bib is recommended (and required within some jurisdictions) within the SwimEx pool area for semi annual cleaning of the pool interior.
- If an aqua-powered lift is being used, appropriation for water supply and drain must be made. Typical pool lifts need a ¾" (1.9cm) line with 55 psi (3.86 kg/sq.cm)

Dehumidification:

- The SwimEx Model 1000T will have a 140 Sq.ft. (13 sq.m) 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 F (29-32C). If the air and water temperature are kept this close we estimate the loss to be approximately 6 to 8 lbs (2.72 to 3.63kg)/ hour.

Standard Equipment

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

Pumps: 2 provided

Pentair Pool Products

Model: Intelliflo VSF Variable speed Pump

3 HP filtration Pump

Up to 135GPM (511 LPM) @ 60TDH

Electrical Requirements:

240V single phase

20 Amp GFCI breaker
Standard SwimEx 1000T
7700 Gallons (29147 L) turnover 28.5 minutes.
NSF LISTED

Filters: 2 Provided

Pentair Pool Products

Model: Clean & Clear Plus
CCP420

420 Square Feet (39 sq.m) of filtration Area
Design Flow Rate of .375 G/sq.ft. (1.41L/.09 sq.m) for a flow of up to 157 GPM (594 LPM)

Connections 2" (5.08cm) PVC Glue Unions
Dimensions: 43" (109cm) T x 21.5" (54.6cm) dia
Removal of cover req. 68" (172.72cm) Height
NSF LISTED

Heater:

Coates Heater Company

Model 34818CE 18 KW Electric Heater
Dimensions 18 ¼" (46.35cm) L x 10 1/8" (25.71cm) W x 11 ½" (29.21cm) H
Electrical Requirements:
480V Three Phase
30 Amp GFIC Breaker feed