



SwIMEx

ARCHITECTURAL GUIDELINES

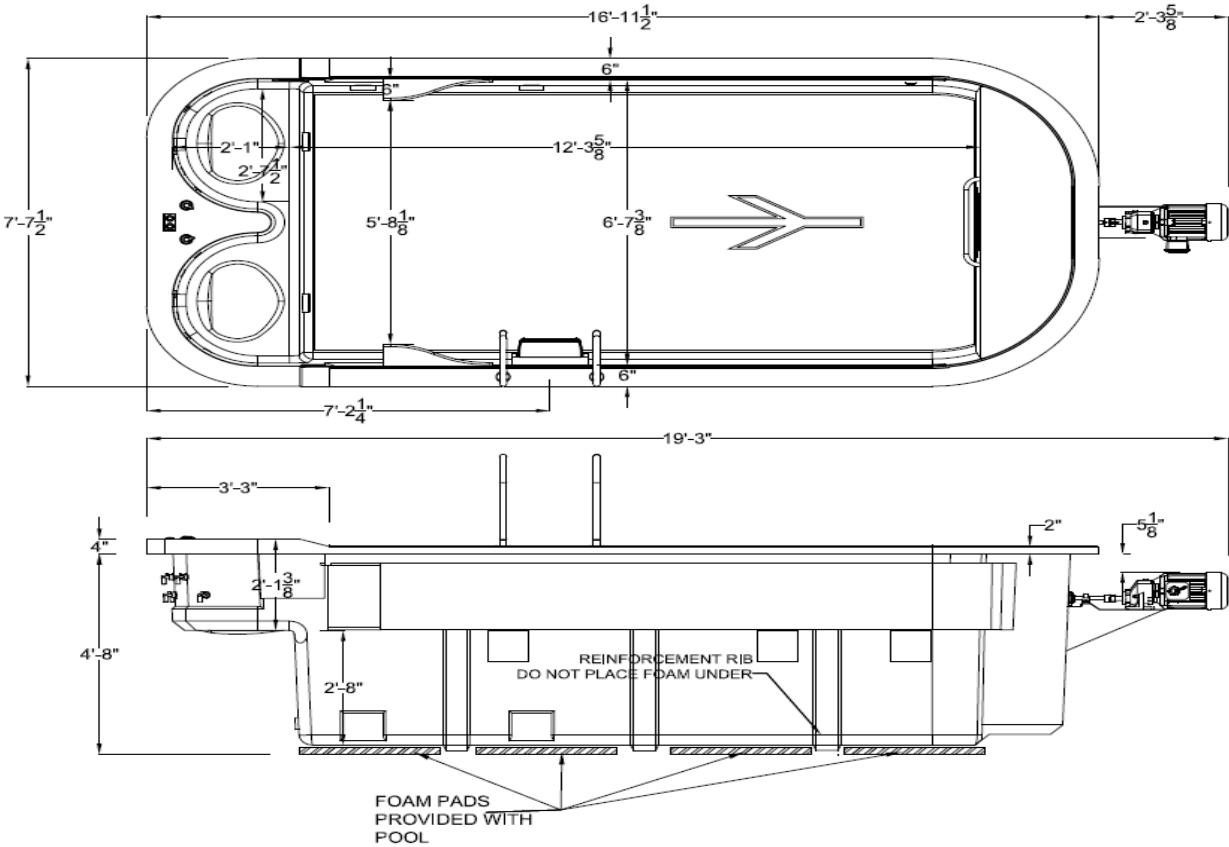
Triton Residential

Architect Installation Guidelines

RESIDENTIAL INSTALLATIONS TRITON MODEL

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 different versions to accommodate new or existing construction situations.
 - ❑ Triton Models come standard in one piece (no seams or additional assembly of pool sections are required). Pools are delivered on a flat-bed carrier.
- ❑ Provide a flat & level concrete surface for pool to sit on with a load-bearing capacity of 425 lbs./sq ft (2077kg/sq m). ***Footprint of pool must be level within ¼", while the remainder of pit or area can be sloped to drain water.* (One Piece Unit holds 2,800 gallons standard)
- ❑ Below ground installation requires an ideal pit of 12'(3.65m) wide (minimum pit of 9'(2.74m)wide) by 20'(6.096m) long and 56"(1.42m) deep for SwimEx Triton model. The pit side walls provide no structure for the pool; they are only retaining walls. (+/- ½" or 13mm for all dimensions).
- ❑ Above ground installation requires a minimum ceiling height of 10' (3.04m) with no obstructions above the pool (Lights, vents, ducts, beams) *Check local building codes for minimum ceiling height and required decking area.*
- ❑ Every SwimEx Triton 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. Please familiarize yourself with the SwimEx Triton orientation, and make sure that the order specifies whether the ladder should be on the right or left side. The ladder can be placed on either side of the unit for no charge, so long as the order indicates the location. (The entrance ladder is 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.* If site is not accessible by tractor trailer, this must be specified for special freight quotes.
- The pool will arrive in one piece and can be put into position via crane, forklift or lull depending on the site. Planning must be done so that this can occur early in the construction process to have complete access to the area. (Off-loading equipment provided by owner or SwimEx installer) NOTE: Upon arrival should any damage be noticed, contact SwimEx immediately. Take photos and note the damage on the Bill of Lading.
- A clear, unobstructed work 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, let the pool sit for 24 -48 hours to allow for the provided foam pads to settle. After this, final deck measurements can be taken and decking can begin being constructed. This is not part of the SwimEx assembly; *please refer to Deck Construction Section of the Manual* for instructions.

Electrical Requirements:

- Standard pool configuration requires 220/240 Volt, single phase, 105 Amps
- GFCI Breakers for Propeller Econodrive controller, Heater, and Pump.
- Propeller Econodrive Controller: 50 Amp, 208-240V Single Phase (38 FLA)
 - 5HP Propeller Gearmotor
- Heater: 30 Amp, 240V Single Phase (50 Amp heater for 208V available upon order)
- Pump: 15 Amp, 115V Single Phase (plug in unit)
 - ** 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.

Other Equipment Considerations:

Optional 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
 - 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.)

Non SwimEx Equipment provided by owner

- Sump Pump: Plumber will locate a sump pump within pit area.
- Lights under deck or in pit area: Pit area must have lights for future maintenance.
- Ventilation and exhaust requirements.
- 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.

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:

- $\frac{3}{4}$ " (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 $3 \frac{1}{2}$ "(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: 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)

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.

Standard Pool Equipment

The following is the standard equipment for the Triton Model

Pump/Filter

Pentair Pool Products

Filtration Pump: Optiflo 1HP Pump

Cartridge Filter: Clean and Clear 75 sq.ft. Cartridge filters

Connections 2", & 1 ½" PVC Glue Unions

Electrical Requirements:

15 Amp, 115V single phase, Plug-In unit. (10.5 FLA) GFCI breaker

Removal of cover req. 39" (990.6mm) Height for 75 sq. ft.

Heater

Electric Heater: Coates Model 12406ST 5.5 kW Electric Spa Heater

30 Amps, 240V. (FLA 23 Amps) GFCI Breaker.

Note: 11 KW heater recommended for some outdoor installs (check with SwimEx)

Dimensions 17 1/2" (444.5mm) x 4" (101.6mm) x 14 ½" (368.3mm)

Option for 208 Volt Electrical: Coates Model 12008ST 8 kW Electric Spa Heater

50 Amps @ 208V. (FLA 39 Amps)

OPTIONAL Upgrade: Natural Gas or Propane Heaters are available