

Pool Data Sheet (for all pools with recirculating water)

Imperial units

NAME OF POOL:		Address of Pool:			
City or Town:		Pool Type: <input type="checkbox"/> Swimming <input type="checkbox"/> Hot Tub <input type="checkbox"/> Wading <input type="checkbox"/> Spray		<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	
Owner's (Legal Corporate) Name and address:			Designer: <input type="checkbox"/> P.Eng. <input type="checkbox"/> Arch.		
			Address of Designer:		
Pool Area: <i>ft²</i>	Deck Area: <i>ft²</i>	Water Depth: Minimum <i>ft</i> Maximum <i>ft</i>			
Maximum Bathing Load (persons):		Shallow (S)		Deep (D)	
		Total:			
Pool Volume: <i>USgal</i>		Pool Basin Colour:		Basin Light Reflectance Value: %	
Turnover Time: <i>h</i> at design flow rate (Q_D) of <i>USgpm</i>					
Re-circulation Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
Hydro-Air Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
Spray Feature Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
Waterslide Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
Other Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
FILTERS: <input type="checkbox"/> Sand <input type="checkbox"/> Diatomaceous Earth		<input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum <input type="checkbox"/> Gravity		NSF Approved: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Filter Make and Model:		Number of filters:		Number of elements:	
Surface area (each filter): <i>ft²</i>		Total area (all filters): <i>ft²</i>			
Surface area (each element): <i>ft²</i>		Total area (all elements): <i>ft²</i>			
Filter Loading Rate: <i>USgpm/ft²</i> ($Q_D \div \text{Total area} \leq 12.5 \text{gpm/ft}^2$)		Total Filter Capacity (Filter Loading Rate \times Total area)		<i>USgpm</i>	
Backwash Pump - Make & Model:		Power <i>hp</i>	Flow <i>USgpm</i> at <i>ft</i> TDH		
Backwash rate per filter <i>USgpm</i>		Rate of Backwash: <i>USgpm/ft²</i>			
GAUGES: (Number of each type) <input type="checkbox"/> Pressure () <input type="checkbox"/> Vacuum () <input type="checkbox"/> Thermometers ()					
Flow Indicators:	Make & Model:	Range to <i>USgpm</i>	Location		
	Make & Model:	Range to <i>USgpm</i>	Location		
DISINFECTION: <input type="checkbox"/> Sodium Hypochlorite <input type="checkbox"/> Calcium Hypo <input type="checkbox"/> Lithium Hypo <input type="checkbox"/> Salt (OSG) <input type="checkbox"/> Stabilized (CYA) <input type="checkbox"/> Chlorine Gas <input type="checkbox"/> Bromine <input type="checkbox"/> Other:					
Pump Make and Model:		Concentration: %	Injection Point: <input type="checkbox"/> Before Filter <input type="checkbox"/> After Filter		
Capacity <i>lb/24h as Cl₂</i>		Maximum dosing rate: <i>ppm</i>		<i>(Capacity \div $Q_D \geq 3$ to 8 ppm)</i>	
Disinfection Control: <input type="checkbox"/> Programmable chemistry controller <input type="checkbox"/> Constant injection <input type="checkbox"/> Flow proportional injection <input type="checkbox"/> Erosion feeder <input type="checkbox"/> Batch disinfection					
SECONDARY DISINFECTION: <input type="checkbox"/> Ozone <input type="checkbox"/> UV <input type="checkbox"/> Other:		Secondary Disinfectant Dose:			
pH CHEMICAL: <input type="checkbox"/> Liquid <input type="checkbox"/> Slurry <input type="checkbox"/> Solid		ALKALINITY CHEMICAL:		<input type="checkbox"/> Liquid <input type="checkbox"/> Slurry <input type="checkbox"/> Solid	
Pump Make and Model:		Pump Make & Model:			
Capacity:		Injection point:		Capacity:	
				Injection point:	
POOL INLETS: Type:		Size:	Total No. at <i>ft</i> spacing	Depth below water level <i>inch</i>	
<i>(inlets must be deeper than 24 inch or nearest pool floor if water depth is \leq 24 inch)</i>			<i>(floor inlets must be used if pool sidewalls are $>$ 44 ft apart)</i>		

Pool Data Sheet (continued)

MAIN DRAIN:	Cover Make and Model:	VBG <input type="checkbox"/>	Free opening (each drain)	<i>in²</i>	No.	(≥ 2)
Total size of free openings	<i>in²</i>	Max. flow rate through grate**	<i>USgpm</i>	Velocity* through grate	<i>fps</i>	(<1.5 <i>fps</i>)
DRAIN FOR HYDRO-AIR PUMPS:	Cover Make and Model:	VBG <input type="checkbox"/>	Free opening (each drain)	<i>in²</i>	No.	
Total size of free openings	<i>in²</i>	Max. flow rate through grate	<i>USgpm</i>	Velocity* through grate	<i>fps</i>	(<1.5 <i>fps</i>)
<i>List all drains if more than one pump draws from drains in spaces that follow; use an additional page if required.</i>			<i>* V (fps) = 0.32 × Q (USgpm) ÷ A (in²) ** include all pumps that can draw through the main drain</i>			
DRAIN:	Cover Make and Model:	VBG <input type="checkbox"/>	Free opening (each drain)	<i>in²</i>	No.	
Total size of free openings	<i>in²</i>	Max. flow rate through grate	<i>USgpm</i>	Velocity* through grate	<i>fps</i>	(<1.5 <i>fps</i>)
DRAIN:	Cover Make and Model:	VBG <input type="checkbox"/>	Free opening (each drain)	<i>in²</i>	No.	
Total size of free openings	<i>in²</i>	Max. flow rate through grate	<i>USgpm</i>	Velocity* through grate	<i>fps</i>	(<1.5 <i>fps</i>)
OVERFLOWS:	<input type="checkbox"/> Gutter <input type="checkbox"/> Rollout <input type="checkbox"/> Deck level <input type="checkbox"/> Other:					
Number of drains	at	<i>ft</i> spacing	Width (each drain)	<i>inch</i>		
Skimmers – Make and Model:				NSF Approved: <input type="checkbox"/> Yes <input type="checkbox"/> No		
No. of skimmers:	at	<i>ft²</i> / skimmer	Max. overflow capacity:	<i>USgpm</i>	Normal flow through overflows: <i>USgpm</i>	
MAKE-UP WATER SOURCE:	<input type="checkbox"/> Public <input type="checkbox"/> Private		Diameter of make-up line	<i>inch</i>	Control: <input type="checkbox"/> Manual <input type="checkbox"/> Automatic	
Air gapped: <input type="checkbox"/> Yes <input type="checkbox"/> No	Backflow preventer: <input type="checkbox"/> RP <input type="checkbox"/> DCV <input type="checkbox"/> Other <input type="checkbox"/> None		Make and Model:			
<i>Filter backwash must be separated from the sewer or drainage system by an air gap $\geq 2 \times$ diameter of the largest discharge pipe.</i>						
WATER PIPING:	<input type="checkbox"/> Copper <input type="checkbox"/> Galvanized <input type="checkbox"/> Plastic <input type="checkbox"/> Other:					
Max. velocity: return piping (from pool)	<i>fps</i>	Supply piping (to pool)	<i>fps</i>			
<i>Expand to include pipes on any additional circulation systems in spaces that follow, use additional page if required.</i>						
PIPING:	<input type="checkbox"/> Copper <input type="checkbox"/> Galvanized <input type="checkbox"/> Plastic <input type="checkbox"/> Other:					
Max. velocity: return piping (from pool)	<i>fps</i>	Supply piping (to pool)	<i>fps</i>			
PIPING:	<input type="checkbox"/> Copper <input type="checkbox"/> Galvanized <input type="checkbox"/> Plastic <input type="checkbox"/> Other:					
Max. velocity: return piping (from pool)	<i>fps</i>	Supply piping (to pool)	<i>fps</i>			

The foregoing data is a true statement of facts pertaining to this pool as it is to be constructed.

Signature and Seal (Design Engineer or Architect):

Date: