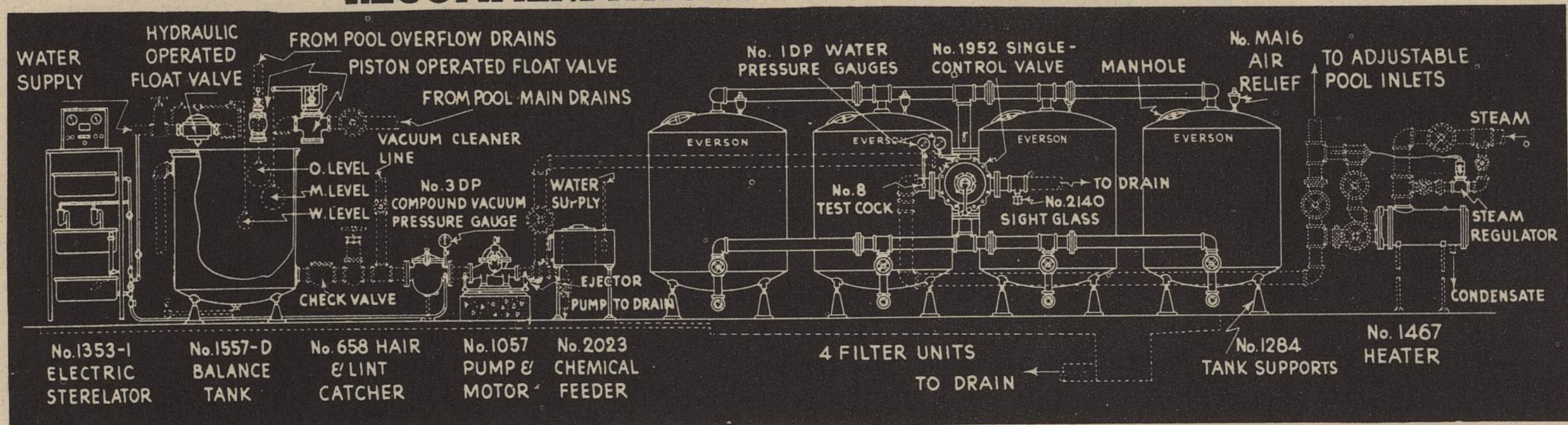


EVERSON FILTER SERVICE COMPANY

"The Swimming Pool People"

214 West Huron Street, CHICAGO, ILL., U. S. A.

RECOMMENDATIONS FOR POOL DESIGN



Typical Layout of Everson Filtering and Sterilizing System for Indoor Pool

PRODUCTS—Complete Swimming Pool Equipment.

Sterilizing, Filtering and Re-Circulating.

Everson apparatus for these services (whether complete systems, units, or parts) are designed to meet every Federal, State or Municipal Health regulation requirement.

Functional Units—Everson design is a standard for inlet and outlet fittings, built-in or portable cleaning apparatus, underwater lighting, and observation windows.

Accessories—A full line of appointments: Foot Baths, Ladders, Diving Boards, Stands and Fixtures.

EXPERIENCE—Over 30 years of specialization in manufacturing and developing Swimming Pool Equipment. Standard Pool Installation practice today represents many exclusive features innovated by Everson. Hundreds of complete Everson installations attest to architectural and engineering acceptance.

SERVICE—The EVERSON FILTER SERVICE COMPANY will furnish architects and engineers, with detail drawings, bulletins and technical aid upon request.

ESSENTIAL FACTORS IN POOL DESIGN

A table of requirements contingent with modern architectural and engineering practice conforming to various regulated health standards

SHAPES	Rectangular shapes are best for indoor pools. For outdoor pools, rectangular, circular, U, or T shapes, or other variations depend on local conditions. There is a tendency in public pools to have one pool for wading, another for depths not to exceed 4 to 5 ft., and still another entirely of deep water for swimming and diving. Combination pools, where one end is deep and the other end shallow, are very acceptable.	PIPING SYSTEM	Provide for the following: Filling of pool; re-circulation of pool water; washing of individual filters; filter re-wash to waste; operation of suction cleaners with water discharge to sewer; draining of the pool, overflow of drainage; regulation of flow through pool inlets. (See Everson Adjustable Flow Inlet Fitting No. 890.)
DIMENSIONS	Swimming Pools built for competition should conform to Olympic requirements. The width should always be in multiples of 5 ft. The length should be a minimum of 60 ft. (General practice requires 15-ft. multiples for length.)	FILTRATION	The filtering equipment should be of sufficient capacity to provide a turnover of the pool capacity once every 4 to 6 hours, based on a filtration rate of 3 g.p.m. per sq. ft. of filter area for pressure filters and 2 g.p.m. for gravity filters. Four or more filter units are recommended as the back wash rate of filters should be equal to 12 to 15 g.p.m. per sq. ft. of filter area. By this arrangement the re-circulating pump can be used to provide water to wash one filter at a time.
WATER SUPPLY	A water supply direct connection to swimming pools is prohibited. Install Everson's balance tank (No. 1515). Install overflow drain (No. 893 or No. 900) around entire pool on 10-ft. centers. Install inlet fittings (No. 890 or No. 891) on 20-ft. centers. Install one or more main drain fittings (No. 894) at lowest point in pool, not over 10 ft. from sidewalls. We recommend a trench covered with a trench grating (No. 904). Send for Typical Pool Installation Drawing No. 792.	STERILIZATION	Chlorine in one form or another is recommended for the most effective results and simplicity in making water tests. For Indoor Pools, the EVERSON SAFETY ELECTRIC STERELATOR eliminates the necessity of separate vaults, fans, or vents as vaults are usually required when pressure chlorine gas STERELATORS are used.
DEPTHS	At shallow end, depth should be a minimum of 3 ft. 6 in. The deep end, measuring 15 ft. from the end wall, must have a 10 to 12-ft. depth to accommodate diving from 3 meter or 10 ft. high board.	RECIRCULATING PUMPS	Re-circulating pump should always be located below the water level in the pool.
BATHING LOAD	Twelve persons are the maximum number permitted in the water area within 10-ft. radius of each diving board. The average space requirement for an adult swimmer is 36 sq. ft.; and, allowing for one-third of swimmers on shore, an average of 27 sq. ft. should be provided for each swimmer who may be present at time of maximum load. In indoor and small outdoor pools, the space requirement for those not swimming should be included with the swimming area and computed as such. At large outdoor pools, the average allowance per bather for those not swimming should be 10 sq. ft.	UNDERWATER LIGHTS	Underwater Lights should be spaced on 10-ft. centers starting in over 7 ft. from either end, using 500-watt lights.
		SUCTION CLEANER	For Indoor Pools, the cleaner should be operated by connection to the re-circulating pump. For outdoor pools, it is recommended that a portable, self-priming pump be furnished for exclusive use of the suction pool cleaner.
WADING POOLS	Wading area shall be separate from swimming pool. Water supply to come from filtration system, but not re-circulated. Wading Pool shall be entirely emptied and cleaned daily.	DIVING BOARDS	Provide regulation one-meter and three-meter stands or diving boards.
		LADDERS	In Indoor Pools, provide 4 ladders. Locate 2 on each sidewall, 5 ft. from the end wall. On Outdoor Pools, install ladders about 60 ft. apart. Removable type ladders are preferable.

SELECTION TABLE FOR RE-CIRCULATING EQUIPMENT

Pool capacity, gal.	Filters	STERELATOR	Hair catcher	Pump capacity, g.p.m.	Space requirements, height
50,000*	4- 48-in. diameter V	E-6	4 in.	150	25 x 15 ft. x 8 ft. 6 in.
75,000*	3- 60-in. diameter V	E-6	4 in.	235	30 x 15 ft. x 8 ft. 6 in.
100,000	4- 72-in. diameter V	1915-1	6 in.	340	35 x 15 ft. x 8 ft. 6 in.
150,000	4- 84-in. diameter V	1915-1	8 in.	460	40 x 15 ft. x 8 ft. 6 in.
200,000	4- 90-in. diameter V	1915-1	8 in.	530	40 x 15 ft. x 8 ft. 6 in.
300,000	4-114-in. diameter V	1915-1	10 in.	810	45 x 17 ft. x 10 ft.
400,000	4-8 x 14 ft. H	1915-1	10 in.	1025	45 x 20 ft. x 10 ft.
500,000	4-8 x 16 ft. H	1915-1	12 in.	1400	50 x 20 ft. x 10 ft.

Note: The above equipment is based on a 6-hr. turnover, thereby meeting the most recent and exacting State Health Department regulations. For other sizes of equipment, which would provide for an 8, 10, or 12-hr. turnover, specifications and detailed information gladly furnished on request.