

| ANSI/APSP/ICC 15a ENERGY EFFICIENCY COMPLIANCE INFORMATION FOR RESIDENTIAL SWIMMING POOLS | | | |
|---|-------------------|---------------------------------|--|
| PROJECT NAME: AND ADDRESS | | CONTRACTOR NAME AND ADDRESS: | |
| | | | |
| OWNER: | CONTRACTOR PHONE: | DATE: | |

This information sheet was prepared by the APSP-15 Residential Swimming Pool and Spa Energy Efficiency Standard Writing Committee of the Association of Pool and Spa Professionals (APSP). It is not part of the American National Standard ANSI/APSP/ICC-15a 2011 but is included for information only. Contractors should acquire and comply with the ANSI/APSP/ICC-15a 2011 standard which can be purchased at www.apsp.org.

1. §5.2.1: Calculated pool volume

- a. Gallons: _____ ; or
 b. Calculated Gallons: _____ (surface area) X _____ (average depth) X 7.48 (gal/ft³) = _____

2. §5.2.1: Calculated filtration flow rate

(Pool volume ÷ 360 or 36gpm whichever is larger)

3. §5.5.1: Pipe sizing:

a. Minimum suction pipe diameter

(Enter the smallest pipe size from Table 1 with a 6 fps flow capacity the same or more than item 2.)

b. Minimum suction branch pipe diameter

(Calculate: Item 2. _____ (gpm) ÷ Branch Pipes _____ (quantity) = branch flow rate _____ (gpm).
 Enter the smallest pipe size from Table 1 with a 6 fps flow capacity the same or more than the calculated suction branch flow rate.)

c. Minimum return pipe diameter

(Enter the smallest pipe size from Table 1 with a 8 fps flow capacity the same or more than item 2.)

d. Minimum return branch pipe diameter

(Calculate: Item 2. _____ (gpm) ÷ Branch Pipes _____ (quantity) = branch flow rate _____ (gpm).
 Enter the smallest pipe size from Table 1 with a 8 fps flow capacity the same or more than the calculated return branch flow rate.)

4. §5.4.1: Filter type and size:

a. Filter type: (Cartridge, DE, Sand)

b. Minimum filter area

(Calculate: item 2. _____ (gpm) ÷ filter factor _____ (gpm/ft²)
 Filter factors: Cartridge=0.375, Sand=15, Diatomaceous Earth=2

5. §5.4.2: Backwash valve: ___Yes, ___No?

(When using a backwash valve, enter result of item 3c or 2 inches whichever is larger)

Table 1

| Pipe Size: | 1.5" | 2" | 2.5" | 3" | 3.5" | 4" | 5" | 6" |
|---------------------|------|----|------|-----|------|-----|-----|-----|
| Nominal GPM @ 6 fps | 38 | 63 | 90 | 138 | 185 | 238 | 374 | 540 |
| Nominal GPM @ 8 fps | 51 | 84 | 119 | 184 | 247 | 317 | 499 | 720 |

6. Single-speed pump selection (when used):

§5.1.1, 5.3.1: For single-speed pumps with a total horsepower 0.99 or less, find and enter a compliant pump from the Pool Pump Database.

a. Pump model

b. Total horsepower

7. Multi-speed pump selection (when used):

§5.3.2.1: Pools 17,000 gallons or less, select pump* from the database with a Curve-A gpm flow equal to item 2 or less.

§5.3.2.2: Pools 17,001 gallons or more, select pump* from the database with a Curve-C gpm flow equal to item 2 or less.

*Multi-speed pumps must have one speed listed that satisfies this requirement.

a. Pump model

b. Pump flow

(§5.3.2.1, 5.3.2.2: Applicable Curve A or C gpm flow listed in database)

1. _____ gallons _____

2. _____ gpm _____

3a. _____ inches _____

3b. _____ inches _____

3c. _____ inches _____

3d. _____ inches _____

4a. _____ _____

4b. _____ sq. ft. _____

5. _____ inches _____
 (When used)

6a. _____ _____

6b. _____ _____

or

7a. _____ _____

7b. _____ gpm _____

ANSI/APSP/ICC 15 ENERGY EFFICIENCY COMPLIANCE INFORMATION FOR RESIDENTIAL SWIMMING POOLS

| Component | Section | Requirements | Check |
|--------------|---------|--|-------|
| Heaters | 4.4.1.1 | Heater has no pilot light | |
| | 4.4.1.2 | Readily accessible on-off switch mounted outside of the heater | |
| | 4.3.1.3 | No electric resistance heating unless for inground spa with tight fitting cover with R-6 insulation, or for pool with 60% of documented pool heating from on-site solar or recovered energy. | |
| | 4.3.2 | Heater efficiency: gas/oil fired heater efficiency at least 78%, heat pump COP at least 4.0 | |
| Pool systems | 5.1.1 | Pool filter pump listed in database | |
| | 5.3.1 | Pool filter pump with total horsepower 1.0 or more is multi-speed | |
| | 5.3.3 | Multi-speed pump controller programmed to default to the filtration flow rate when no auxiliary pool loads are operating within 24 hours and programmed with temporary override capability for servicing. | |
| | 5.3.4 | Single-speed pump controller capable of operating pump during off-peak electric demand. | |
| | 5.5.2 | Pipe before pump has at least 4 diameters of straight pipe. | |
| | 5.5.3 | System installed with solar, or setup for the future addition of solar heating equipment by installing 18 inches of horizontal or vertical pipe after the filter and before a heater, or built-in or built-up connections, or dedicated pipe to and from the pool. | |
| | 5.6 | Directional inlets for mixing pool water. | |