

# *Scale rules for 1/8 and 1/10 Unlimited Hydroplane*

## **6. *ELECTRIC 1/8 SCALE UNLIMITED HYDROPLANE***

### **a) *General Rules***

i) Electric Scale Unlimited Hydroplane rules will follow the Scale Unlimited Hydroplane rules (see Section 21) with the exception of the following:

ii) Electric Scale Unlimited Hydroplane rules are intended as a supplement to the Electric general rules. In the case of a conflict with the Scale Unlimited Hydroplane rules (see Section 21), the Electric rules will prevail.

### **b) *Motor Specifications***

i) Power parameters for this class shall comply with class "T" specifications.

## **7. *ELECTRIC 1/10 SCALE UNLIMITED HYDROPLANE***

### **a) *General Rules***

i) The intent of this class is to replicate the look and competition of real unlimited hydroplane racing. Boats are 1/10-scale replicas (one inch equals 10 inches) of the real boats that have raced on the unlimited circuit. This class shall emphasize scale accuracy.

ii) Electric 1/10 Scale Unlimited Hydroplane rules will follow the Scale Unlimited Hydroplane rules (see Section 21) with the exception of the following.

iii) Electric 1/10 Scale Unlimited Hydroplane rules are intended as a supplement to the Electric General and Sport Hydro rules. In the case of a conflict with the Scale Unlimited Hydroplane rules (see Section 21) the Electric rules will prevail.

### **b) *Hull Specifications:***

i) Belly pans or blisters, if added, must be no larger than 2.5 inches wide by 4 inches long.

ii) Air dams, if installed, must be below the deck line and unobtrusive and not extend beyond the bow.

iii) Anhedraled left sponsons and modern style sponsons are not allowed on boats running in the vintage class.

iv) Boats shall use a single rudder at any mounting location on the transom. The center of the rudder post shall not be located more than 1.25 inches behind the transom.

### **c) *Drive Train***

i) Any shaft may be used provided it maintains a straight line from hull exit through the strut.

ii) No gearbox of any configuration is allowed.

iii) Any single propeller may be used, and a portion of the propeller must be under the transom. The drive dog is defined as not a part of the propeller.

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### **d) *Motor Specifications***

***i) Power in this class shall be limited to a single HIMAX HB3630-1500, BLACKJACK A3630-1500 or AQUACRAFT 36/56 (commonly referred to as SV27).***

ii) No modifications may be made to the motor. Except for normal wear, drive flats or keys, electrical connectors and water cooling, it must be run as shipped from the manufacturer.

iii) Power Limits: 10.1 to 15 Volts nominal, any chemistry. Maximum of 2 packs in parallel. Maximum total capacity shall be 10,000 mAh.

e) Class Specifications

***i) Vintage Class 1/10***

(a) Defined as those boats conforming to NAMBA Master Hull Roster (MHR) numbers 2730 through 7008 inclusive, and MHR numbers: 7102, 7132, 7171, 7206, 7221, 7422, 7499 and 7505.

(b) Skid/turn fin shall be mounted to the inside of the left sponson and shall not extend beyond the back of the sponson. The size is limited to a maximum of 2 inches wide by 1 inch deep measured from the sponson riding surface.

***ii) Modern Class 1/10***

(a) Defined as those boats conforming to NAMBA Master Hull Roster numbers 7025, 7029, 7175, 7177, 7207, 7251, 7325, 7402, 7441, 7455, 7495, and numbers 7571 through 0717 and beyond.

(b) Follows all rules listed above except:

(c) Any shaft may be used.

(d) Sponson design shall be up to the builder as long as it does not change the outline shape of the hull.

(e) Skid/turn fin shall be similar in appearance and location to the full size boat (mounted to the back of the sponson). The size, shape and precise location shall be determined at the discretion of the owner. No hook-shaped skid fins are allowed.

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f) Race Format

i) Shall be as set forth in Section 21 Rule B plus the following:

ii) All boats shall travel **COUNTER-CLOCKWISE** around the course turning **LEFT**.

iii) A one minute countdown procedure using an audio countdown clock shall be used to start each heat. The start of the race is at the initial sound of the horn/gun.

iv) A boat must be in the water and running at the 30-second mark. Once running, a boat must remain in constant forward motion or be assessed a one lap penalty.

v) All boats must fully circle the right and left hand turns (in that order) before being allowed to start.

# ***Section 21 for reference in clarifying electric rulings***

## **A. GENERAL RULES**

1. Scale Unlimited Hydroplane racing rules are intended as a supplement to the general racing rules of NAMBA. In the case of a conflict, the Scale Unlimited Hydroplane racing rules will prevail.
2. The purpose of the class is to duplicate the unlimited class of hydroplanes as closely as possible.
3. The National Scale Unlimited Hydroplane Chairman will coordinate and communicate the business of Scale Unlimited Hydroplane competition with the individual district Scale Unlimited Hydroplane Chairmen.
4. The Scale Unlimited Hydroplane Contest Board will be made up of the National Scale Unlimited Hydroplane Chairman and a representative from each NAMBA district. The Scale Unlimited Hydroplane Contest Board reserves unto itself the power of decision in all matters of duplication or conflict.
5. It is the responsibility of the Contest Director to ensure that the spirit of racing an Unlimited Hydroplane boat is enforced. Some examples that may not be allowed include: adding weights to the top of the hull, removing undamaged parts/features, or entering a boat that has not been painted to conceal prior damage.

## **C. HULL SPECIFICATIONS**

1. All boats will be models of past or present Unlimited Hydroplanes that are listed on the Scale Unlimited Hydroplane Master Hull Roster.
2. Boats are to be built on a scale of 1½ inches equals 1 foot of the actual boat (1/8th Scale).
3. The true scale dimensions of any Scale Unlimited Hydroplane will be derived from the unlimited dimensions listed on the Scale Unlimited Hydroplane Master Hull Roster. Boats will measure within the following tolerances of the true scale size, excluding appendages.
  - a. Overall Length ..... ± 1 inch
  - b. Beam.....± 10%
  - c. Maximum Depth.....± 10%
  - d. Afterplane Length (three point design).....± 10%
  - e. Tunnel Width.....± 10%
4. Boats will be painted, configured, and detailed like the actual unlimited as it ran on the water. The acquisition of documentation validating a paint scheme, cowling configuration, engine configuration, or other scale details will be the responsibility of the boat's owner. Photographs of the boat are an acceptable form of documentation.
5. Boats will enter competition complete with cowlings(s) and driver(s). If any of the removable parts fall off the boat during competition, except as a result of a collision, that boat will be awarded no higher than sixth place points in that round upon completion of the heat. This penalization only affects the points that are awarded and not the finishing placement of the boat which incurred the infraction. The placement of and points awarded to other boats in the heat are not affected by this ruling.

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6. The boat's engine, tuned pipe and muffler must be concealed within the boat as well as possible while not deviating from scale appearance. Scale engine cowls, fake

engines, painted screen, etc. are permitted.

7. The number of props and rudders will coincide with that of the original full sized unlimited hydroplane.

8. Outdrive units and outdrive engine(s) are prohibited unless the full sized boat after which the boat is being modeled had an outdrive or outdrive engine(s), in which case the model must be configured like the full sized boat.

9. The propeller drive dog may extend one drive dog length beyond the transom.

10. The boat bottom/spoonson profile will be the same general appearance as that of the full sized unlimited hull it represents with the following exceptions:

a. Spoonson riding surfaces may be modified.

b. Propeller shafts may be articulated.

c. Rudders and skid fins may be configured and located as desired.

#### D. ENGINE SPECIFICATIONS

1. The engine must conform to NAMBA Class C specifications, see Section 10 – rule A.1.

#### E. MASTER HULL ROSTER

1. The Scale Unlimited Hydroplane Master Hull Roster will contain the name and details that identify each boat that may be built for Scale Unlimited Hydroplane competition. It will contain the principle dimensions of each boat that is listed, if known.

2. The National Scale Unlimited Hydroplane Chairman will be responsible for compiling, interpreting, updating, and distributing the official Scale Unlimited Hydroplane Master Hull Roster. The official Scale Unlimited Hydroplane Master Hull Roster may be purchased for \$5 and must be signed and dated by the National Scale Unlimited Hydroplane Chairman. He will make an updated roster available by January 31st of each year. The updated Master Hull Roster will be posted on the NAMBA web page.

3. Boats must meet the following criteria to be placed on the Scale Unlimited Hydroplane Master Hull Roster:

a. The full sized boat must have been registered with an unlimited hydroplane racing association.

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b. The registered boat must have made at least one verifiable test run in the water.

4. The Scale Unlimited Hydroplane Master Hull Roster will include the name, address, and telephone number of the National Scale Unlimited Hydroplane Chairman, all District Scale Unlimited Hydroplane Chairmen, and all known manufacturers, builders, photographers, plan makers, etc. which are helpful in building Scale Unlimited Hydroplanes.

#### F. SCALE CONCOURS JUDGING

1. All boats are to be judged from six feet off (stand off scale). A picture must be supplied to the contest director for each boat entered in the concours judging.

2. To be eligible for the Concours Award, the boat must be at least start in one heat race with its appearance/configuration as presented at the Concours Judging. No substitution or replacement of cowl, fake engine, wing(s) or other scale items will be allowed.

3. Judging will be based upon a point system as follows:
- a. Documentation
    - i) 0-20 points - Photograph(s)/Presentation
    - ii) General Appearance
    - iii) 0-10 points - Workmanship
    - iv) 0-10 points - Engine, exhaust, and radio gear concealment
  - b. Detail
    - i) 0-10 points - Engine/cowl detail
    - ii) 0-10 points - Driver detail
    - iii) 0-10 points - Cockpit detail
  - c. Paint Job, Markings, Etc.
    - i) 0-10 points - True colors
    - ii) 0-10 points - Scale of markings, decals, lines, numbers
    - iii) 0-10 points - Overall finish