Hangar 9 Valiant 10cc (Fast Setup)

For a plane of this size, if you want to go as fast as possible, I would recommend going with the BadAss 4530-550 motor with an APC 14x10-E prop. With this motor, at full throttle you will get the following static power numbers.

Volts – 22.2

Amps – 98.3

Watts – 2182

RPM – 10,407

Thrust – 201 ounces (12 pounds 9 ounces)

Pitch Speed – 99 MPH

These numbers are static numbers from our Motor Dyno. In the air, once the motor unloads, you will be turning over 11,000 RPM and from a slight dive, you should be able to get up over 110 MPH. APC also has a wide selection of 14-inch props in their Glow Sport Series, such as the 14x11, 14x12, 14x13, 14x13.5 and 14x14, so if you wanted to experiment a bit and find a prop that matched the drag profile of the aircraft the best, you could fine-tune the power system to get the most speed possible.

The BA-4530-550 motor has a maximum current rating of 125 amps, so you would want to use an ESC of that rating or higher, such as the BadAss Renegade V2 125-amp model. For a battery, a 6-cell pack with a capacity of between 5000 and 6000mah and a 45C discharge rating would work best.

Here are links to the items discussed above.

BadAss BA-4530-550 Motor: https://innov8tivedesigns.com/badass-4530-550kv-brushless-motor.html

BadAss Renegade V2 125-amp ESC: https://innov8tivedesigns.com/badass-renegade-v2-series-brushless-esc-125a.html

BadAss 6-cell 5000mah 45C LiPo Battery: https://innov8tivedesigns.com/badass-45c-5000mah-6s-lipo-battery.html

APC 14x10-E Prop: https://innov8tivedesigns.com/apc-b14x10e-propeller.html

APC 14-inch Sport Props: https://www.apcprop.com/shop/?rng_min_pa_propeller-diameter-in=14&rng_max_pa_propeller-diameter-in=15&rng_orderby_pa_propeller-diameter-in=number&rng_order_pa_propeller-diameter-in=ASC

So that will get you the most power you can put into the Valiant 10CC airplane and get it moving as fast as you reasonably can. If you have any other questions, please let me know.