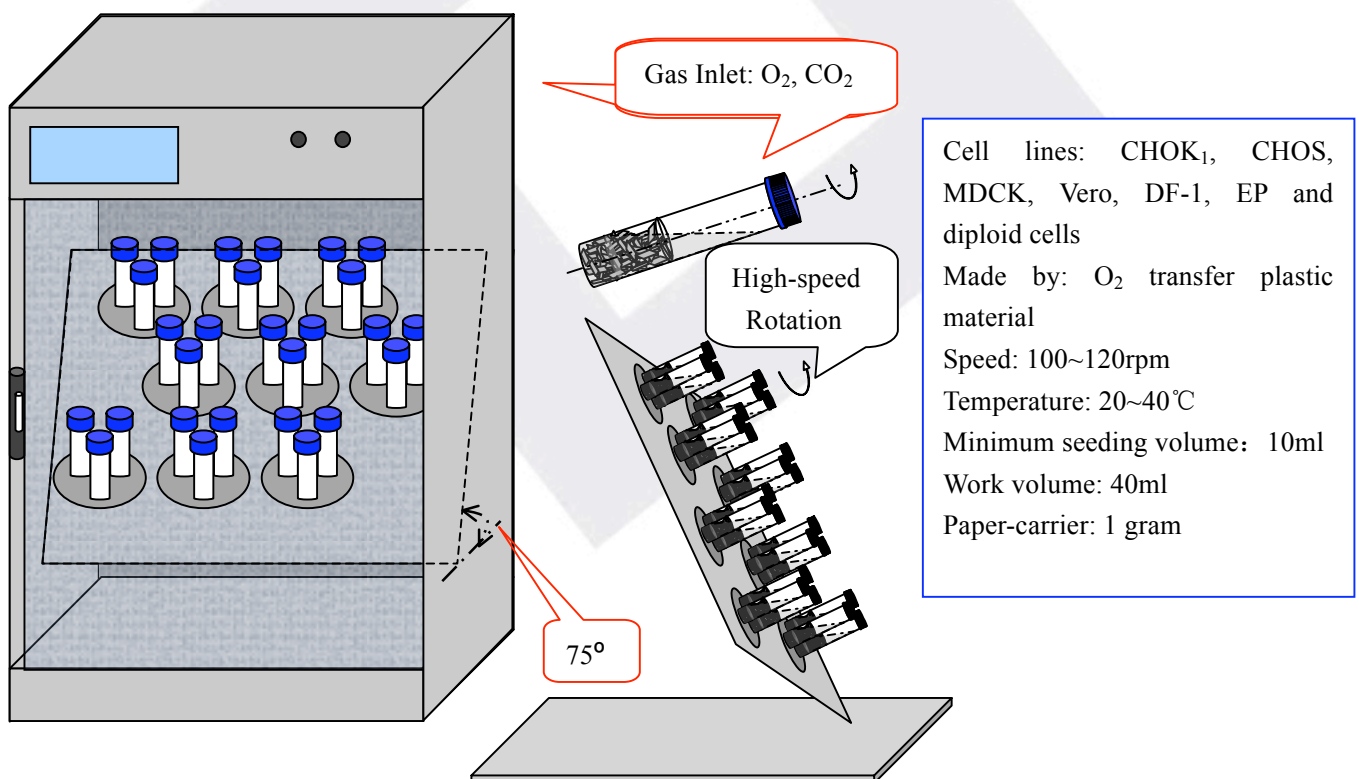


“Current” Mini-Bioreactor Systems – Cell-attached Paper-carrier

Mini-bioreactors are widely used for process development and laboratory studies of production cell line characterization, medium optimization and scale-up optimization. AmProtein’s single-use mini-bioreactor system was constructed by applying AmProtein’s discovery of a non-sparging O₂ transfer method to types of special O₂ transfer materials and cell attachment paper-carriers. Three types of mini-bioreactors are provided: (1). Cell suspension mini-bioreactor; (2). Micro-carrier suspension mini-bioreactor; (3). Cell attached paper-carrier mini-bioreactor.

Cell-attached Paper-carrier Mini-Bioreactor

(3). Cell attached paper-carrier mini-bioreactor (single-use vessels with 1g paper-carrier and a working volume of 20ml): This type of mini-bioreactor is designed for single-use to study attached cell culture scale up and medium optimization. This cell attached paper-carrier mini-bioreactor is specially designed for scale up study of “Current” perfusion bioreactor 5L, 50L, 150L and 300L (as well as NBS perfusion bioreactor system).



High-speed Rotator & Incubator 20ml Vessel with 1 gram of paper-carriers