

EQUIPMENT

The Montebello synthesis reactor consists of a vertical 10 inch I.D. tube 30 ft. long which contains three 2 inch extra heavy cooling tubes with centers on a 5 inch circle, which extend through the full length of the reactor. These cooling tubes are connected to a steam drum at the top and a blow-down drum at the bottom. The steam drum and the blow-down drum are, also, connected by means of a 6 inch down-commer which completes the thermo-syphon circulating system. The cooling system is designed for operation at a maximum pressure of 1100 psig. The cooling tubes have an external surface area of 56 sq. ft. and an internal surface area of 46 sq. ft. and a mean area of 51 sq. ft.