



The power house at Willmar.

ELLIOTT ENGINES FOR MINNESOTA STATE INSTITUTIONS

STATE institutions of various kinds are usually self-contained communities, supplying most of their needs on the premises. Since they are apt to be located in out-of-the-way places, their self-reliance is almost obligatory. Almost without exception, such institutions have their own power and heating plants, and for the most part the prime movers

have been engines. Needless to say, reliability is especially important in these plants.

During 1932 Elliott engine-generator units went to work in three Minnesota State institutions. Two of these installations are pictured.

At the Willmar State Asylum an Elliott 200-kw. four-valve engine driving an Elliott direct-current generator was installed. This

institution, located one and a half miles north of Willmar, on the shore of a beautiful lake, was originally the Willmar Homestead. In 1921, the first buildings consisting of a main building for offices, wards for patients, and a power plant building, were erected. In the power plant was installed a 35-kw. Elliott-Ridgway single-valve, center-crank engine with direct-connected, three-wire, direct-current, 220-volt generator. In 1917, the State added an insane ward and in 1919, two men's cottages. A 75-kw. engine-generator unit was added to the power plant. Construction of more buildings between the years 1919 and 1924 necessitated the addition of another generating unit, which was an Elliott-Ridgway four-valve side-crank engine driving an Elliott-Ridgway 150-kw., three-wire, 240-volt generator. In 1932, building requirements had reached the point where additional current was necessary and the Elliott 200-kw. unit already mentioned was installed, and the original 35-kw. unit was dismantled and placed in storage at the institution. The institution now consists of a main or administration building, fifteen

Below—The 200-kw. Elliott engine-generator installed last year at Willmar State Asylum. Right—The 150-kw. Elliott unit which has been operating in the plant since 1924.

