

# NET LOAD RECOMMENDATIONS and E.D.R.

## Net Load Recommendations:

Is the recommended amount of installed radiation to be served by the boiler, based on the normal allowance for piping and pickup losses.

For water system boilers this is computed by dividing the steady state results (output) by a factor of 1.15.

For steam system boilers this is computed by dividing the steady state results (output) by a varying factor (See below) to provide for the varying piping and losses in larger steam systems.

- For steam up to 1254 MBH the factor is 1.333.
- For steam between 1256 MBH to 1936 MBH decreasing factors down to 1.288.
- For steam above 1936 MBH the factor is 1.288

## E.D.R.

Stands for, square feet of *Equivalent Direct Radiation*.

This term was used in indicating the surface ratings of the old tubular radiators.

The E.D.R. was fixed on the bases of the emission of:

- 240 BTU per Hr per Sq Ft for Steam Systems.
- 150 BTU per Hr per Sq Ft for Water Systems.

To compute the E.D.R. from the Net Load Recommendation just divide the computed value for the Net Load Recommendation by the appropriate emission rate for your given system (240 for steam or 150 for water).