TYPE 707: BURIED VERTICALLY CYLINDRICAL STORAGE TANK WRAPPER

General Description

This component can be used in conjunction with most thermal storage tank models to calculate the energy exchange through the bottom, top, and sides of a vertically cylindrical tank that is entirely buried beneath the ground surface. As inputs, the model takes the U values of the tank top, bottom, and each thermal node section as well as the temperature of each tank node. The user is also asked to define a 3 dimensional radial soil node structure. In return, Type707 computes the temperature of each tank node / soil node boundary, passing those temperatures back to the tank model for its own loss calculations.

Nomenclature

Detailed Description

The detailed mathematical description of this component was not completed in time for the initial release of the TESS Libraries. Please contact your distributor to find out whether the full technical documentation is available. Alternatively, you can contact us directly at by emailing:

tessinc@tess-inc.com.