



Press Release: True North Consulting Announces Release of *TP-Steam* – August 9, 2011

True North Consulting (TNC), a leading provider of engineering services is pleased to announce the release of ***TP-Steam***, a comprehensive steam table program designed specifically for thermal performance engineers by thermal performance engineers. ***TP-Steam*** operates in both as an MS Excel add-in and as a standalone calculation program for quick and convenient desktop use with the following features.

Steam Tables

The ***TP-Steam*** software provides thermodynamic property tables of water and steam representing the IAPWS-IF97 formulations (International Association for the Properties of Water and Steam) and the ASME 1967 IFC formulations.

Psychrometric Table

Complementing these steam tables is a detailed interactive psychrometric table program for convenient cooling tower calculations.

Engineering Functions

A selection of engineering functions commonly used by thermal performance engineers such as feedwater heater terminal temperature difference, pump head and others are also included in ***TP-Steam!***

Engineering Unit Conversions

Engineering unit conversions can be chosen with convenient pull down pick lists. ***TP-Steam*** contains over 150 engineering unit conversions! A unique feature of this software is the on-the-fly unit conversion combinations with both inputs and outputs!

Saturated Liquid		Saturated Vapor	
Pressure	823.4 psia	Pressure	823.4 psia
Temperature	521.6 °F	Temperature	521.6 °F
Enthalpy	513.89 BTU/lbm	Enthalpy	1198.6 BTU/lbm
Entropy	0.71523 BTU/lbm-R	Entropy	1.413 BTU/lbm-R
Specific Volume	0.020964 ft³/lbm	Specific Volume	0.55182 ft³/lbm
Internal Energy	510.69 BTU/lbm	Internal Energy	1114.5 BTU/lbm
Isobaric Specific Heat	1.23 BTU/lbm-R	Isobaric Specific Heat	1.1301 BTU/lbm-R
Sonic Velocity	3450.6 ft/s	Sonic Velocity	1625.5 ft/s
Dynamic Viscosity	66.819 lbm/ft-hr	Dynamic Viscosity	0.054847 lbm/ft-hr
Thermal Conductivity	0.34057 BTU/hr-ft-R	Thermal Conductivity	0.033841 BTU/hr-ft-R

Pricing for *TP-Steam* is very reasonable! Please contact us for more information at (208) 529-2356 or visit our web site at www.tnorthconsulting.com.