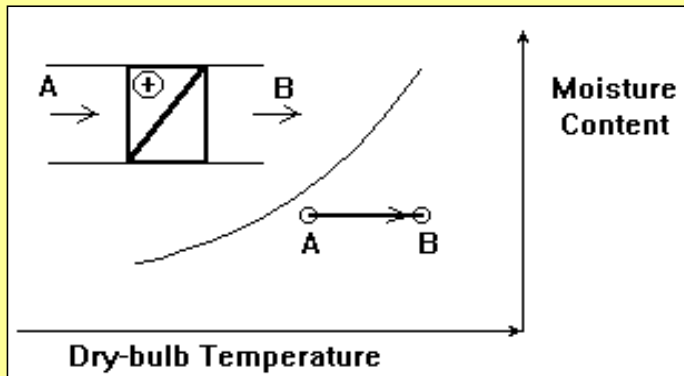


This document shows how Thermo Utilities, MS Excel Add-ins can be used for calculation of sensible heating process. In an air conditioning plant, air flow rate of 2 kg/s passes through a heater battery. The dry-bulb temperature rises from 10 C to 24 C. The moisture content of the air is 0.005. Determine the load on the heater battery.



Inputs		Units
Inlet air, DBT	10.00	C
Inlet air, moisture content	0.005	
Inlet air, mass flow rate	2.00	kg/s
Outlet air, DBT	24.00	C
Outlet air, moisture content	0.005	
Outlet air, mass flow rate	2.00	kg/s
Outputs		
Specific enthalpy of the inlet air	22.6280	kJ/kg
Specific enthalpy of the outlet air	36.7503	kJ/kg
Load on the heater battery	28.2446	kW

Taftan Data  
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If you want to know more about "Taftan Data" or other software developed by this company please visit our website:

<http://www.taftan.com>