

#1 Symbols, Acronyms, Definitions

Symbols, Abbreviations, Acronyms, Definitions Global Warming: Real Causes and Consequences APB Aphodid boiler or burner Q: Heat. kCcal LQ : latent heat; enthalpy of phase change. Cannot be measured with a thermometer. SQ : sensible heat. Can be felt and measured with a thermometer. AH : Ambient enthalpy (see Enthalpy) W: Work kJ; Useful energy in general. Wmec mechanical energy; Wele electric energy. Power energy per unit time. 1 kCal = 4,186 kJ. 1 kJ/sek = 1kW. 1 kWh = 3.6 x 10⁶ J. 1 PJ (PetaJoule) = 10¹⁵ J GSP: Gas Splitter. For instance to extract O₂ from air. Gt: Gigaton. 10⁶ Tons H: Enthalpy (see Terminology). HP: Heat Pump. Heat is pumped out of a refrigerator with a HP HX: Heat eXchanger or heat conductor. A pan is a HX between a fire and the water inside it. HHX Hot HX; releases pumped Q. CHX: Cold HX; absorbs Q to be pumped by a HP HAARP: High (frequency) Active Auroral Research Program IPCC: Intergovernmental Panel on Climate Control. Meteorology department of the UN in Geneva Nm³: m³ of a gas at standard temperature and pressure (20°C, 1 atm) P: Pressure in atm (atmospheres). 1 atm = 1.045 bar = 1.033 kg/cm² = 760 Torr T: Temperature °C Greek ρ: Density or specific weight. kg/m³ F : Atmospheric humidity. Grams G.H₂O per kg of dry air. F is the physical carrier of atmospheric LQ Chemical symbols H₂O water. Liquid: L.H₂O. Gaseous (steam) G.H₂O. A L. prefix implies liquid phase state; G. gas or vapour CO₂ : Carbon dioxide CH₄ : Methane N₂ : Nitrogen O₂ : Oxygen H₂ : Hydrogen He : Helium Terminology Aphodid Boiler or Burner (APB): A container within which gaseous fuels are burnt inside L.H₂O or G.H₂O. An APB normally has well insulated walls made of high tensile strength materials so it can contain high Ts and Ps. Biowaste: Organic materials such as kitchen garden, and slaughterhouse wastes that can be fermented anaerobically to fertilizer and biogas. Biowastes can contain poisons that kill methanogenic bacteria. Waste paper usually biowaste - but print on it may be toxic. Tannery and paper factory wastes can be poisonous Biogas: is a mixture of CO₂ and bioCH₄, BioCH₄, BioH₂, BioCO₂: Gasses obtained from non-fossil sources Enthalpy: H. Internal energy of a mass kJ/kg. According to definition $H = P \times V + U$ Where: P = pressure, V = volume, U = LQ + SQ. Entropy: S. that part of the Q in a mass of working fluid that cannot be converted into W according to the Second Law of Thermodynamics. S gained between two Ts is computed as the sum of the kJ/(kg x K) for all K degrees Fluid: A substance which is used in both its liquid and its gaseous phases. Pyrotrash: Old plastics and rubber, used tires, lubricating oils, plastic solvents and paint thinners. Biowastes containing poisons, parasites and pathogens can be treated as pyrotrash. Planetary Renaissance from the Ocean OPC: Osmotic Pressure Cell. A structural element that is kept stiff by osmotic pressure. Seafon: An underwater pipeline Skyfon: An aerial pipeline Vein Pump: A flexible pump similar to a vein that is activated by focussed waves Wave Lens: A Fresnel type lens used to focus waves onto Vein Pumps Go to Site Menu