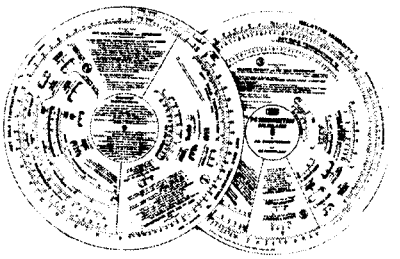
PSYCHROMETRIC CALCULATOR

for Air Conditioning & Meteorology

Model M.24



This calculator determines all the properties of moist air directly from any of the three basic sources of measurement. By a single setting of: Wet Bulb to Dry Bulb Temperature (screen or aspirated) or, Wet Bulb Temperature to Depression (screen or aspirated) or, Dry Bulb Temperature to Relative Humidity it gives:

Dew Point	Vapor Pressure	Specific Humidity
Frost Point	Moisture Content	Mixing Ratio
Latent Heat	Specific Enthalpy	Vapour Density
Sensible Heat	Specific Volume	Altitude Correction

High accuracy eliminates interpelation from tables and charts as temperature scales are calibrated in 0.2 deg. settings to 0.1 deg. or less. The Relative Humidity scale is also very accurate.

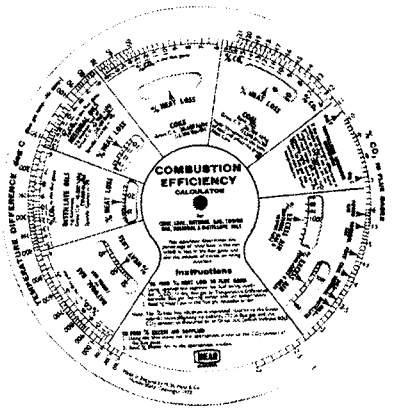
The basic properties are per Kg. of dry air at standard atmospheric pressure of 1013.25 mb. on the Metric Model and per lb. of dry air at standard atmospheric pressure of 14.7 psi on the English Model. The specific humidity and mixing ratio are given for any barometric pressure down to 300 mb. on the Metric Model and 4 psi on the English Model. Additional scales allow for correction of the wet bulb depression for the effects of low barometric pressure on altitude. The properties of mixed air from two or more different streams can also be obtained.

Scale Ranges:	**Metric Model**	**English Model**
Wet Bulb Temp.	0 to 29 deg. C	24 to 80 deg. F
Ice Bulb Temp.	−50 to 0 deg. C	−50 to 32 deg. F
Dew Point	−53 to 29 deg. C	−56 to 110 deg. F
Frost Point	−50 to 0 deg. C	−50 to 32 deg. F
Dry Bulb Temp.	−53 to 44 deg. C	−58 to 110 deg. F
Depression	0 to 22 deg. C	0 to 35 deg. F

7¾" Diameter Metric or English Model

COMBUSTION EFFICIENCY CALCULATOR

Model M.25



The efficiency of a boiler is determined largely by the heat lost to any excess air supplied and the loss in high temperature flue gases.

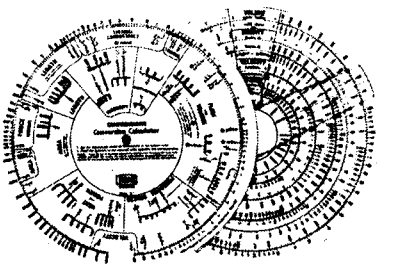
This calculator determines the efficiency from the CO_2 content of the flue gas and the flue gas temperature. At the same time, it also indicates the percentage of excess air being supplied.

Gives answers for coal, coke, manufactured gas, natural gas, and fuel oils (residual and distillate). Calibrated in metric units.

5-3/4" Diameter

COMPREHENSIVE METRIC CONVERSION CALCULATOR

Model M.22



Designed primarily for Engineers and Designers, this calculator will perform the following conversions:

Length and Area: ins.-mm., ft-yds-meters, sq.ins.-sq.mm.-sq.cm., sq.ft.-sq.yds.-sq. meters.

Volume: ins.-mm., ft-yds-meters, sq. ins.-sq. mm.-sq. cm., sq. ft.-sq. yds.-sq. meters.

Flow: U.S. g.p.h.-U.S. g.p.m.-Imperial g.p.h.-Imperial g.p.m.-U.S. barrels per hour-c.f.h.-c.f.m. -c.f.s.-cu.yd/hr.-cu. meter/hr.-litres/sec.cu. meters/min.

Pressure & Stress: lb./sq. in.-ins. w.g.-ft. w.g.-meters w.g.-mm. H.G.-ins.H.G.-bar-millibar-Torr-atmosphere-Kg./sq. cm.-Tons/sq. in.

Thermal Conductance: watts/sq. meter/Deg. C.-Kilo-cal/h/sq. meter/Deg. C.-B.T.U./h/sq. ft./Deg. F.

Heat & Power: H.P.-B.T.U./h.-Kilocal/h-kilojoule/h.-watts-kilowatts

Viscosity: Centistokes-Redwood-Saybolt Universal-Engler Degrees

Density: lbs./cu.in.-lbs.cu.ft.-kg./cu.meters-grams/litre.

Velocity: m.p.h.-meters/sec., ft/min.-meters/sec.

Weight & Force: lbs.-kilograms-decanewtons.

Temperature: Deg. F.-Deg. C.

5-3/4" Diameter

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