

SHEET METAL/HVAC Pro Calc

ADVANCED CONSTRUCTION-MATH CALCULATOR FOR SHEET METAL & HVAC PROFESSIONALS



Model 4090

Size: 5.6" x 3.0" x 0.5"

(142mm x 76mm x 13mm)

Weight: Calculator only 3.2 oz. (91 gm)

Power: Two 1.5-volt (LR44) Long-life Batteries

Display: 12 Digits (8 normal, 4 fractions) with Full Annunciators

LCD Dimensions: 2.5"L x 0.75"W
(64mm x 19mm)

Accuracy: 12 Digit Internal Accuracy

Included with Every 4090: Armadillo Gear Protective Hard Case; Long-life Batteries (Two LR-44); Quick Reference Guide and Pocket Reference Guide; Complete, easy-to-follow User's Guide.

Full One-Year Limited Warranty



CALCULATED INDUSTRIES®

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Custom Sheet Metal and HVAC Functions

- Simplify Test and Balance (TAB) with Built-In Fan Law functions:
 1. CFM, RPM, SP and BHP
 2. Velocity and Velocity Pressure (FPM, VP, MPS, KPa)
- Square, Square Root, Cube and Cube Root.
- Functions and Terminology consistent with Sheet Metal/HVAC Trade Terminology:
 1. x, y, r (radius), (theta) and Seg Radius Functions
 2. Allows for conversion between Polar and Rectangular Coordinates
 3. Trigonometric operation and sequence.
- Parenthesis Operators allows users to easily enter complex formulas.
- Law of Cosines for quick calculation of non-90° triangles; perfect for field measurements.
- Offset Functions: calculate the "S-shaped" bend in ductwork — solve layouts for the Wrapper Length, the Centerline Radius and the Angle.
- Memory Storage: conveniently store frequently used constants or interim solutions.
- ArcK (1 unit radius, 1 degree arc) as a constant for convenient quick Arc Length solutions.
- Memory Swap: easily insert stored values into current calculations and simultaneously store calculated values while recalling and displaying memory contents.
- Order of Operations Calculation: retains familiar mathematical (x, ÷, +, -) hierarchy as a default preference.

Construction Math Functions

- Work in and convert between all Building dimensional formats: Feet, Inches, Fractions (1/2, 1/4, 1/8, 1/16, 1/32, 1/64) and Metric.
- Instant Areas and Volumes.
- Trigonometric Functions.
- Easy right angle-solutions for Ductwork (length and angles),
- Square-ups, Slopes, Rafters and more.
- Regular and Irregular Hip/Valley Rafter Lengths.
- Plumb, Level and Cheek Cut Angles.
- Complete Stair Layouts.
- Circle, Column/Cone Surface Area and Volume Solutions.
- D:M:S to Decimal Degree Conversions.
- User Set Preferences.

Additional Features

- Backspace key for last entry editing.
- Works as a regular math calculator with symbols and Square Root.
- Automatic Shut-Off extends battery life.
- Easy-to-follow User's Guide.
- Quick Reference Guide.
- Long-Life Batteries (2) LR-44.
- Full One-Year Limited Warranty.

Includes a rugged, shock, dust and moisture resistant Armadillo Gear case and a protective hard slide cover



SHEET METAL/HVAC Pro CALC

ADVANCED CONSTRUCTION-MATH CALCULATOR FOR SHEET METAL & HVAC PROFESSIONALS

THE SHEET METAL/HVAC Pro CALC is designed to meet strict field-use specifications. Simple-to-use, complete and versatile, it is the world's first calculator developed to the exclusive requirements of sheet metal and HVAC industry professionals. The powerful, advanced functions are easy to learn and solve the most challenging calculations. Boost accuracy, cut costly errors and upgrade every level of training and job performance for greater productivity and profitability.

Fan Law Functions —
Simplify Test and Balance with built-in CFM, RPM, SP, BHP, Velocity and Velocity Pressure

Built-in Sheet Metal Functions — x , y , r (radius), theta and Seg Radius; convert between Polar and Rectangular Coordinates

Square/Cube/Root Functions

Trigonometric Functions — Sine, Cosine, Tangent, Arcsine, Arccosine, Arctangent

ArcK Built-in Constant —
Convenient, fast, Arc Length solutions

Works as a regular calculator with symbols and square root



Parenthesis Operators —
Easily enter complex formulas

Backspace Key —
Easily edit entries

Law of Cosines —
Quickly calculate non-90° triangles

Offset Functions —
Easily calculate "S"-shaped bend in ductwork, solve for Wrapper Length, Centerline Radius and Angle

U.S./Metric Units —
Work in Feet-Inch-Fractions, millimeters, meters

Order of Operations Calculation

MODEL 4090 - Actual Size

SHEET METAL & HVAC PROFESSIONALS