

THERMAL ENGINEERING COMPANY

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HVAC/R Accessories

Model 5125 Air Duct Calculator



This ingenious, pocket-size Air Duct Calculator uses only three slides to give all of the information needed when figuring the sizes of air ducts. Convenient tables printed on the back of the calculator supply additional data in a handy, easy-to-use form. The few words of instruction needed to understand and use the different slides are printed on the calculator face, where they cannot be lost or mislaid. Used to determine:

- Size of air ducts by the equal pressure loss method
- Size of round ducts vs. rectangular ducts
- Weight per foot of round ducts by U.S.S. gauge
- Weight per foot of rectangular ducts by U.S.S. gauge
- Recommended duct velocities
- Friction loss of 1-1/2 radius elbows
- Gauge of metal for size of ducts

Mfg Part No

5125

Vacuum Gauges

For proper evacuation and dehydration of refrigeration and air conditioning systems, an electronic vacuum gauge is an indispensable companion to a vacuum pump. Significant dehydration does not occur until a vacuum of 1000 microns or greater has been achieved. Use of electronic vacuum gauges is the only way to determine when dehydration is occurring and when it is complete.

Thermal Engineering Vak-Checks are precision thermistor vacuum gauges designed especially for refrigeration and air conditioning service. They automatically compensate for changes in ambient temperature and permit continuous monitoring during evacuation. These instruments are compact, lightweight, easy to use, and read directly in microns on a large easy-to-read meter.

Model 4501



- Atmosphere to 10 microns
- Ambient temperature compensated
- Accuracy: 200-1000 microns: ± 5%
- Comes complete with Model 4510 Sensor
- Battery powered, No searching for outlets (2 "D" cell batteries not included)

Mfg Part No

4501

Model 4510 Replacement Vacuum Sensors



- Vacuum Sensor for Vak-check, Super Vak-check, and Super Vak-Check II
- Models 4501, 4575 and 14571 with 0 to 50 calibration scale

Mfg Part No

4510

Oil Pumps

Model 1702/1703 Charge-Oil Pump



It charges without pumping the compressor down thus reducing charging time by over 70%. Also avoids the embarrassment of spilling oil on the customer's premises. Provides the professional touch since oil can be accurately measured into the compressor without having to pour it from the can. Fits all popular brands of refrigeration oil.

Complete Adapter Kit supplied to accommodate most containers. The Charge-Oil Pump cap seals the can so pump need not be removed until can is empty. Thermal Charge-Oil Pump is a piston type high pressure pump designed to operate at pressures to 250 PSI. It pumps one quart in 20 full strokes of the piston. Pump is connected to compressor by refrigerant charging line or copper tubing from 1/4 inch male fitting.

Suitable for use with alkybenzene and poe oils

Mfg Part No	Description
1702	Thermal Charge-Oil Pump
1703	Thermal Charge-Oil Pump for 5 gallon can

Vacuum Accessories

Model 1833 Mini-Vac



Mini-Vac is a compact High Vacuum Manifold which provides a 3/8" flare yoke and an electronic vacuum gauge sensor port (sensor not included). Features a 3/8" packless diaphragm valve to isolate the vacuum pump from the system. The Mini-Vac mounts on the pump with a 3/8" quick coupler.

Mfg Part No

1833