



Basics of Airflow Manual Order Form

Thermal Environmental Comfort Association

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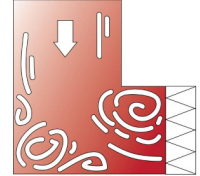


TECA's Quality First™ Basics of Airflow Fluid Dynamics: Air Flow in Duct Systems

The 1st Edition, October 2008 contains the following and more:

After years of offering training for airside heating, cooling and ventilation contractors, it became very clear to the association that the basic properties of air and how to move it effectively and efficiently are not well understood.

High efficiency gas furnaces circulate twice the volume of air as older, 70°-90°F temperature rise equipment. Also, for the same output, high efficiency heat pumps circulate three times more air than these older gas furnaces. Yet the higher circulation demands of this efficient equipment is not necessarily being accommodated with adequate duct system design.



This is problem further compounded by the fact that designing adequate systems runs at odds with the shrinking space of modern mechanical rooms (no drop ceilings permitted) and flush beam framing in dwellings.

With **Basics of Air**, TECA presents knowledge lost by most industry practitioners since the demise of gravity air heating systems. The material in this manual explains how to efficiently and quietly move high volumes of air required by modern HVAC equipment. It explains terms like duct velocity, air flow rate, duct aspect ratio, and pressures. **Basics of Air** also discusses the power requirements (transport energy) of pushing and pulling air through duct systems and presents fan laws and other useful tools for sizing and installing duct fittings and systems. It also teaches how to measure pressures and cfm's. All this information and the associated skills are required to design free flowing duct systems.

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Manual shipped pre-paid only. Enclosed find our payment for:

| We are TECA Voting Members | | We are NOT TECA Voting Members | |
|----------------------------|---|--------------------------------|--|
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| Shipping & Handling | 20.00 | Shipping & Handling | 20.00 |
| 12% HST | 10.32 | 12% HST | 12.30 |
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