

Damuth Trane



We Have The Answer To Lower Energy Costs and Higher Efficiency

Damuth Trane was the first building in Hampton-Roads to be awarded the ENERGY STAR Label by the United States Environmental Protection Agency in 2001. The ENERGY STAR label signifies that the 40,000 square-foot building, along with a 12,000 square-foot warehouse, has demonstrated excellent energy performance, earning it a place in the top 25 percent of efficient U.S. office buildings. In qualifying for ENERGY STAR status, the building also demonstrated high performance in indoor air quality, thermal comfort and lighting performance. Damuth Trane has continued to earn this award from 2002-2005.

Damuth Trane is a multi-faceted company that provides all comfort system components: commercial air-conditioning equipment, service, building automation controls, parts and supplies. And, it's the area's commercial franchise for The Trane Company; the world's largest manufacturer of commercial & industrial air conditioning systems.

Don Damuth, Chairman of the Board, said, "Not only do we have a comfortable and efficient building for our associates to work in, it is also less expensive to operate. According to recently



published statistics, average building utility cost in Norfolk area is \$1.52 per square foot. Our new building costs \$1.07 per square foot, per year, to operate-at museum conditions. That's a 30 percent reduction."

In planning for the new facility, design goals included such priorities as energy efficiency, indoor air quality, occupant comfort and ease of maintenance. To help achieve efficiency, a Trane dual-compressor chiller and a Modular Climate Changer air handler were chosen for air conditioning. Chilled water is delivered to the air handling system via a variable flow pumping system that includes a plate/frame waterside heat exchanger for free cooling during winter months. Further savings are provided by variable frequency drives on both a cooling tower fan and air handler. Occupants benefit from



"We have a comfortable and efficient building that's less expensive to operate. For building owners, that means getting and retaining tenants." -Don Damuth, Chairman of the Board

the quiet Trane vertical Q fan and sound-attenuating discharge plenum.

Both parallel and series VAV boxes are included in the variable air volume system, which features an innovative duct design using plenum return air while in the cooling mode and ducted return air while in the heating mode. The Coanda effect allows Trane linear slot diffusers to distribute conditioned air to office spaces most effectively. Desiccant makeup air unit and gas/electric humidifiers provide humidity control.

A Tracer Summit building management system controls the HVAC system and building lighting. It also continuously monitors CO2 levels to ensure

a healthy and comfortable work environment.

Damuth reports, "We will use our new building and the ENERGY STAR Label for Buildings to demonstrate to our customers the advantages of using these building design concepts. In using our building as a benchmark, customers can see the advantages of using Trane systems following well-thought design concepts."

Damuth Trane can assist customers in implementing all stages of the building upgrade process from lighting to controls, equipment tune-up and replacement, to managing the entire project. Following upgrades, select building types may qualify for the ENERGY STAR Label for Buildings.



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