



YORK[®]

Air-Cooled Chillers

Low-Sound Engineering

Quiet performance in air-cooled chillers is critical in many commercial, industrial and institutional installations. To meet this requirement, YORK[®] offers a wide range of proven sound-attenuation technologies for our air-cooled chiller line.

“Low sound” is the direct result of intelligent engineering. YORK has achieved this advanced technology through intense laboratory examination of equipment acoustics and vibrations.

This extensive knowledge and expertise allows YORK to provide quiet equipment to the United States Navy. When quiet submarine

operation was matter of survival, the only acceptable mechanical designs were selected using YORK’s “low sound” engineered equipment. These same YORK technologies have been used to provide “low sound” commercial chillers, which customers are demanding.

In-depth experience, careful materials selection and innovative design — exemplified by our HCFC-22 and HFC-407C Eco² chillers — are your assurance that YORK systems can provide low-sound and environmentally safe performance. To hear how we can meet sound levels required in your application, call your nearest YORK sales representative for model ratings engineered options.

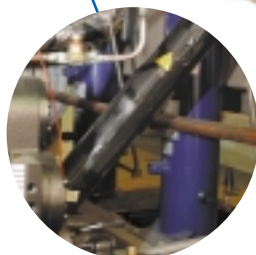
Our Features, Your Benefits



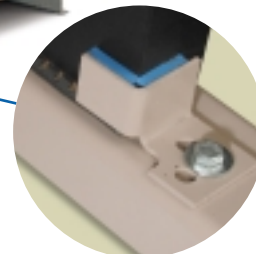
Air management with specially matched fan motor/fan blade sets, positioned within partitioned condenser sections for control over the sound of discharged air



Screw chillers include an acoustically tuned internal muffler matched to the compressor for greater sound attenuation by harnessing discharge gas pulsations

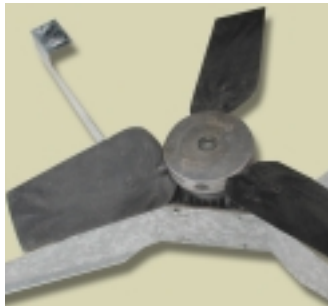


On screw chillers, main discharge gas lines between the compressor and oil separator are fitted with a specially formulated, high-density, inorganic polymeric material that dampens sound transmission



Compressor isolation using resilient elastomers under compressor feet minimizes vibration transmitted into the unit frame enhancing low sound characteristics

Sound Attenuation Options



**FACTORY-MOUNTED
OPTION**

Low-Sound Fans

In place of standard speed fan motors, lower-speed fan motors can be specified to minimize sounds caused by air traveling through the condenser section coils. Regular motors and pitched fan blades can be replaced with steeper pitched blades and matched lower RPM motors to provide the required airflow volume.



**FACTORY- OR FIELD-
MOUNTED OPTION**

Compressor Blanket

Fitted in two pieces around the compressor with Velcro seams for easy serviceability. Polyester material: high tensile strength, both UV and mildew protected, waterproof, rip-resistant and fire-resistant (meeting State of California Fire Marshall flame specifications). Easily cleanable with soap and water.

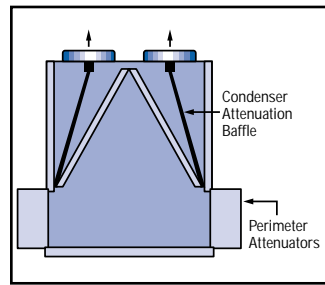


**FACTORY-MOUNTED
OPTION**

Screw Compressor Attenuation

Compressor

Heavy-gauge, galvanized-steel baffles are field installed around the lower half of the chiller and epoxy-painted to match the unit's color. The baffle design facilitates air flow through the compressor section while blocking sound emissions and allowing easy removal for service access.



**FACTORY-MOUNTED
OPTION**

Condenser

The aerodynamic neutral zone of the "W" section of each fan cell is baffled by specially formulated, inorganic-spun fiber that is inert and non-flame propagating. (The same material is used in compressor perimeter baffling.)



Typical Installations

Elementary School, Pennsylvania

Sited in a residential community, this 400-student school uses a 200-ton low-sound unit to maintain indoor comfort and an ideal learning environment. Its quiet operation blends with the neighborhood by preventing noise from being heard by nearby residents.



Library, Michigan

Books require temperature and humidity control; people require comfort and quiet — both are achieved by a 150-ton YORK chiller in this library application.

