

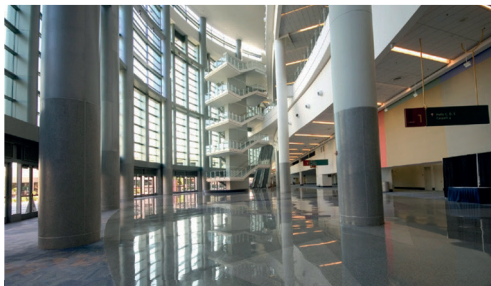


ZEUS

Air Cooled Scroll Chillers

ACDS 60Hz

Cooling Capacity: 10~180TR (35~632kW)



Office Buildings



Sports Facilities



Airport Facilities



ACDS
35 ~632 kW (10~180TR)



Dunham-Bush

Dunham-Bush ACDS Air Cooled Scroll Chillers uses environmentally sound HFO R-454B refrigerant having no ozone-depletion potential and a low global-warming potential. The entire product line features energy efficiency, installation ease, control flexibility, high reliability, compact footprint and advanced controls.

Features and Benefits

ACDS Air Cooled Scroll compressors chillers are designed for Commercial/Industrial applications and provide the same high quality and efficiency as reciprocating or Screw Compressor.

Compressors

The compressors are single or tandem Scroll. Tandem scroll compressors use a suction and discharge manifold, with oil and gas equalization provided. All compressors are direct drive with an integral two-pole hermetic motor. The compressor is fitted with a crankcase heater or sump heater, and oil sight glass.



Brazed plate heat exchanger

Plate Heat Exchanger is designed to deliver premium performance. Specially constructed heat transfer plates feature a corrugated channeling system that maximizes heat transfer. Hot and cold fluids flow along counter-current paths on either side of the plates resulting in low temperature approaches and the highest heat recovery of any heat exchanger design. Optional Shell & Tube vessels are ideal for Replacement Projects with water quality concerns.



Evaporator

- Compact and high efficiency brazed plate heat exchanger.
- Constructed with stainless steel plates.
- Design pressure of 450 psig on refrigerant circuit.
- Design pressure of 400 psig on fluid circuit.
- Environment friendly with reduced refrigerant charge by its compact design.
- Lower pressure drop on water site.
- Vitaulic groove fluid connection.
- 1' thick closed cell insulation.



ACDS

DB Director

DB Director Controller is equipped with RS485 and Ethernet communication ports as standard. This user-friendly design allows Building Management Systems (BMS) to interface directly with the chiller via either of Modbus RTU, Modbus IP, or BACnet IP communication protocol. LONworks or BACnet MSTP communication protocol can be established with installation of an optional adapter.



Unit Casing

Casing is constructed from heavy gauge galvanized steel and have a powder coated baked finishing, offers excellent corrosion resistance for outdoor applications, withstanding up to 1000 hours salt spray test in accordance to ASTM B117

Condenser and fans

- Constructed with seamless inner grooved copper tubes expanded into die formed aluminum fans in staggered configuration.
- IP 54 motor construction for outdoor applications
- Leak and pressure test at 650 psig
- Low noise direct driven propeller fans.



Standard & Optional Features

Item	Standard	Optional
Water Connection	Victaulic groove	Flanged; Marine Waterbox
Low ambient version	—	30 °F, 0 °F, -20 °F
Evaporator Insulation Thickness	1" [25mm]	2"[50mm]
Compressor Isolation Valve	Discharge	Suction & Discharge
Vibration Isolator	—	Rubber in shear; Spring Isolator
Protective grill condenser	—	Wire fit top guard, Hail Guard
Main Incoming Options	Main power supply monitoring module (OUVR)	Ground Fault Protection (GFI); Digital Power Meter (DPM); Main INCOMING Isolator
Communication Protocol	Modbus RS485	BACnet MSTP; LONworks; ModBus TCP/IP; BACnet TCP/IP
Vessel Code Compliance	—	ASME
Compressor Extended Warranty	1 Year	2 Years; 5 Years

DUNHAM-BUSH®

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Products that perform...By people who care

