



US PRODUCT GUIDE



DUNHAM-BUSH[®]

Products that perform...By people who care

DUNHAM-BUSH PROFILE

Dunham-Bush, one of the world's top commercial air conditioning manufacturers, has long been committed to offering creative solutions for the customers' requirements over its 100+ years history, in the heating, ventilation, air-conditioning and refrigeration (HVAC/R). Dunham-Bush offers a complete range of HVAC/R products of large chillers, heat pumps, thermal energy storage, packaged, airside system and unitary to residences, commercial buildings & industrial facilities.

By utilizing our manufacturing facilities and global network of sales and service offices, Dunham-Bush offers these products and services to all corners of the world.

Dunham-Bush proudly announces the new extended series of Medium Screw Compressor, it incorporates the latest advances in screw compressor technology and development, which includes Variable Frequency Drives (VFD) with extended capacity, enhanced efficiency performance and durability.

Dunham-Bush has also introduced the DCLC centrifugal chillers series which includes the oil free magnetic bearing chiller.

Both Dunham-Bush screw and centrifugal chiller are certified to AHRI standard 550/590 performance rating that provides unmatched performance and efficiencies.

Dunham-Bush's emphasis on environmental sustainability has paved the way for energy efficient, clean energy products, such as, Geothermal Heat Pumps and fully integrated Ice Thermal Storage Systems. Dunham-Bush is striving to be the leader in the commercialization of green technologies.

Dunham-Bush's ability and willingness to adapt our products and services according to customer requirements sets us apart from competitors. We provide total customer satisfaction by fulfilling the needs and exceeding the expectations of our valued customers ensuring the Dunham-Bush reputation of:



DUNHAM-BUSH®

Products that perform...By people who care

PRODUCTS



DCLC-M Series - Prometheus Magnetic Bearing Chiller

Cooling Capacity: 75 - 800 TR (264 - 2814 kW)

Features

- High Efficiency Magnetic Bearing
- Inverter Driven Dual-Stage Compressor
- Oil Free Operation
- Low Noise with Compact Foot Print
- Improved Performance and IPLV
- AHRI Certified
- R134a/ R513A/ R1234ze



R513A

R1234ze



DCLC-D Series - Hercules Centrifugal Chiller

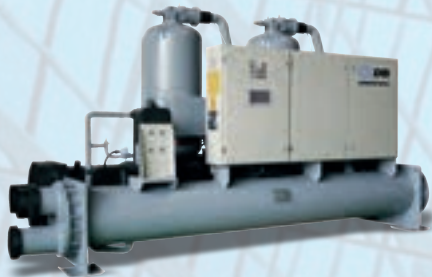
Cooling Capacity: 300 - 3000 TR (1055 - 10550 kW)

Features

- Dual-Stage Compressor
- Advanced Microprocessor Controller
- Touch Screen Control Panel
- VFD (Optional)
- AHRI Certified
- R134a



R513A



WCFX-E/ WCFX-V (VFD) Series - Poseidon Water Cooled Screw Chiller

Cooling Capacity: 60 - 1000 TR (211 - 3517 kW)

Features

- High Efficiency Vertical Screw Compressor
- Inverter Driven (VFD) Compressor (WCFX-V only)
- Flooded Shell and Tube Evaporator / Condenser
- Touch Screen Control Panel
- Improved Performance and IPLV
- AHRI Certified
- R134a



R513A



AVX-A/ AVX-B (VFD) Series - Achelous Air Cooled Screw Chiller

Cooling Capacity: 115 - 470 TR (406 - 1656 kW)

Features

- High Efficiency Vertical Screw Compressor
- Inverter Driven (VFD) Compressor (AVX-B only)
- Flooded Shell and Tube Evaporator
- Advanced Microprocessor Controller
- Unique Low Noise Control Design
- Suitable for High Ambient Application
- AHRI Certified
- R134a



R513A



ACDS Series - Zeus Air Cooled Scroll Chiller

Cooling Capacity: 10 - 183 TR (35 - 643 kW)

Features

- Multiple Scroll Compressors
- High Efficiency Plate Heat Exchanger (PHE)
- High Efficiency and COP
- Available in Modular Design
- AHRI Certified
- R410a



R454B

PRODUCTS



ACHX-D/DVE/EVE Series – Helios

Cooling capacity : 94-514 TR(329-1806 kW)

Features

- High efficiency horizontal screw compressor
- Dual circuit
- Flooded evaporator
- Available with remote condenser or evaporator
- VFD(optional)



R513A



ACM-AE Series - Athena

Cooling capacity : 87-502 TR(306-1765 kW)

Features

- High efficiency Magnetic Bearing
- Oil free operation
- Dual stage compressors
- Suitable for data center application
- Integral free cooling



R513A



ACPSE / ACPSJ / ACPSJOA / ACPSG(VFD) / ACPSGOA

Air Cooled Packaged Rooftop Units

Cooling Capacity: 33 - 1585 MBH (10 - 465 kW)

Heating Capacity: 32 - 1654 MBH (9 - 485 kW)

Features

- High Efficiency Scroll Compressors with R410A
- Rugged Design for Outdoor Applications
- Available with Variable Speed Compressors
- Direct Drive Fans
- 100% Outside Air DOAS and ERU



eCS3 / CS3 / SCS3 Series

Central Station Air Handling Units

Air Volume: 1000 - 56000 CFM (1700 - 95000 m³/h)

Features

- Modular Industrial Design, Rugged Construction
- Extruded Aluminum Profile with Strong Nylon Corners
- Double Skin Panel Construction with Injected Polyurethane
- Foams Insulation



WCPSC Series

Floor Stand Ducted

Cooling Capacity: 100 - 1820 MBH (29 - 464 kW)

Heating Capacity: 125 - 2046 MBH (37 - 599 kW)

Features

- High Efficiency Scroll Compressors
- Rigid and Compact Design
- EC Plenum Fan



DB-Aire II Series

Precision Environmental Control

Cooling Capacity: 2 - 26 TR (7 - 91 kW)

Features

- High Efficiency Scroll Compressors
- Touch Screen Control Panel
- Compact Design and Foot Print
- Chilled Water, Direct Expansion or Dual Coil
- Suitable for High Ambient Application
- R410A / R407C



SPECIALTY PRODUCTS

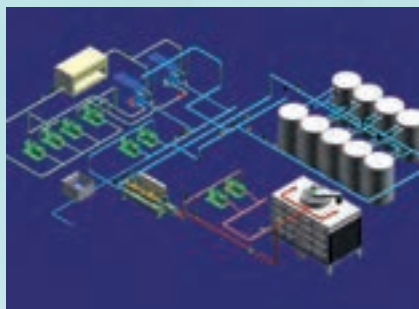


ICE-CEL
INTEGRATED SOLUTIONS BY DB

ICE-CEL Dunham-Bush Patented Ice Thermal Storage Systems

Features

- Modular and High Efficiency Tanks from 422 - 844 kWh
- Only -3.5°C Brine Required in Freezing Mode
- Fiberglass Double Wall Tanks
- High Density Poly Ethylene (HDPE) Heat Exchanger for Durability and Efficiency



CHILLER PLANT MANAGER (CPM)

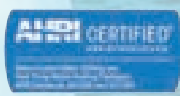
- System Optimization and Automation
- Supervised All Equipments in Chiller Plantroom
- NetVisorPRO for Data and History Logging
- Graphical Animation
- Local or Remote Monitoring is Available via BACnet, ModBus, Internet



INDUSTRIAL LOW TEMP MACHINE ICE RINK CHILLER

- Customized Design Chiller
- Manufactured Based on Requirement/ Specification
- R507

CERTIFICATIONS



OUR PROJECTS



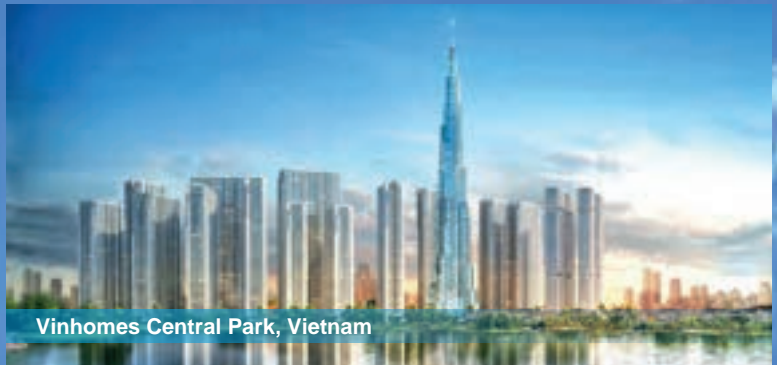
London Eye, United Kingdom



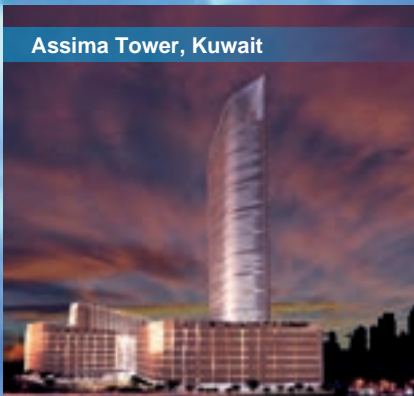
Bird's Nest Stadium, China



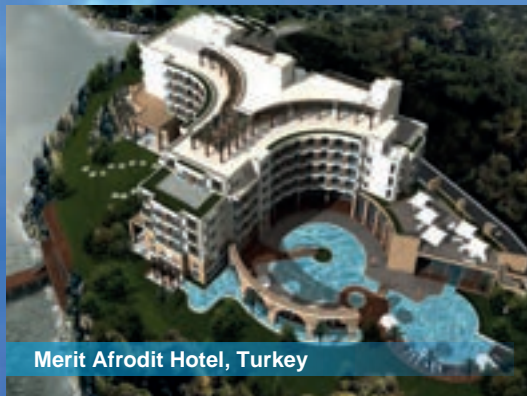
Jizan University Hotel, Saudi Arabia



Vinhomes Central Park, Vietnam



Assima Tower, Kuwait



Merit Afrodit Hotel, Turkey



Gaisano Hypermarket, Philippines



Bangalore International Airports, India



IR Marina Bay Sands, Singapore



Kennedy Space Centre, United States



Shanghai Subway, China



Wisma Geylang Serai, Singapore



Hilton Salalah Resort, Oman



Kuala Lumpur International Airport, Malaysia



London Heathrow Airport, United Kingdom



Al Waab Mall, Qatar



Capalaba Shopping Centre, Australia



Magarpatta Cyber City, Pune, India



SOHO Central Park, Indonesia



IBN Batutta Dubai, United Arab Emirates



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