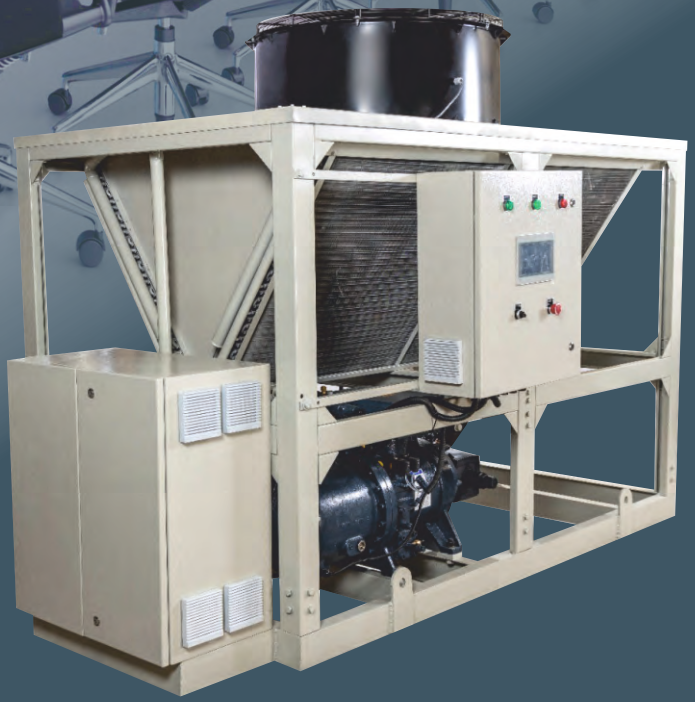
BRADFIELD

Introducing New Generation



DRV-S

Dynamic Refrigerant Volume (DRV)

with Screw Compressor

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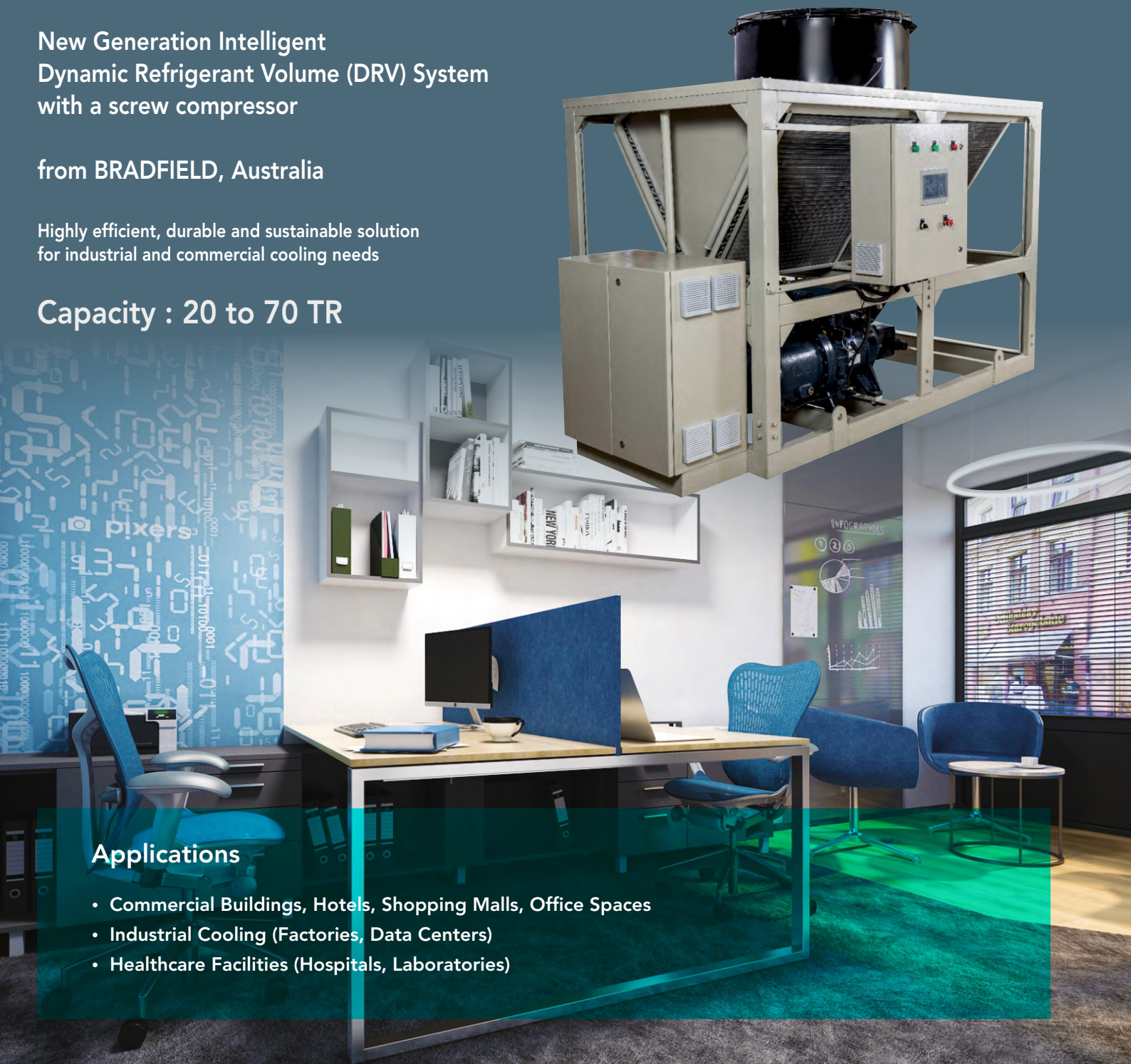
The Dynamic Refrigerant Volume (DRV) system is an advanced HVAC technology designed to optimize cooling and heating efficiency. When integrated with a screw compressor, it enhances performance, ensuring energy efficiency, durability, and sustainability. This System offer a new reliable option in commercial and industrial applications due to their ability to provide precise cooling while minimizing energy consumption.

New Generation Intelligent Dynamic Refrigerant Volume (DRV) System with a screw compressor

from BRADFIELD, Australia

Highly efficient, durable and sustainable solution for industrial and commercial cooling needs

Capacity : 20 to 70 TR



Applications

- Commercial Buildings, Hotels, Shopping Malls, Office Spaces
- Industrial Cooling (Factories, Data Centers)
- Healthcare Facilities (Hospitals, Laboratories)

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Energy Efficiency

- Variable Refrigerant Flow (VRF) Optimization: The DRV system adjusts refrigerant volume dynamically based on cooling and heating demands, reducing energy wastage.
- Screw Compressor Efficiency: Screw compressors offer higher volumetric efficiency compared to traditional reciprocating & scroll compressors, resulting in lower energy consumption.
- Inverter Technology: Many DRV systems use variable-speed drive (VSD) screw compressors, which allow the system to modulate capacity based on demand, reducing operational costs.

Sturdy and Robust Design

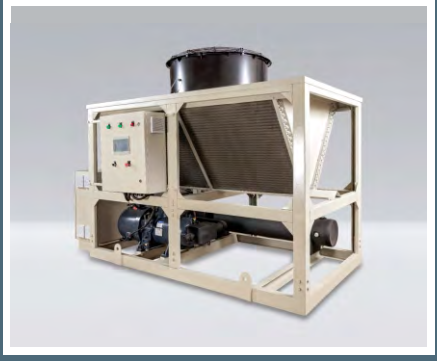
- Heavy-Duty Screw Compressor: Screw compressors are known for their rugged construction and long operational life, making them ideal for industrial and commercial applications.
- Less Vibration and Wear: Unlike reciprocating compressors, screw compressors have fewer moving parts, reducing wear and tear, leading to lower maintenance costs.
- Corrosion-Resistant Components: Condensing Coil with Blygold anti rust coat withstands harsh environments, ensuring durability

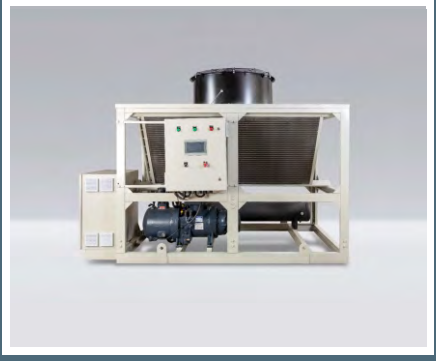
Power Efficiency

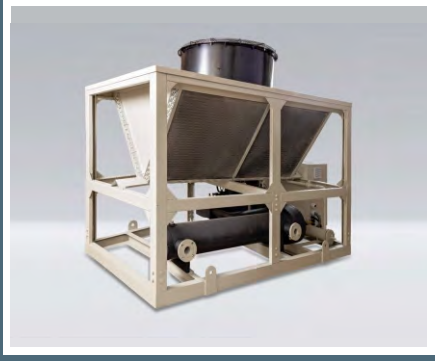
- Precise Load Management: The system adjusts its power consumption based on cooling load variations, optimizing energy use.
- Low Starting Current: With soft-start technology, screw compressors reduce electrical spikes, minimizing stress on electrical infrastructure.
- Heat Recovery Capabilities: Some DRV systems capture waste heat from the cooling cycle for use in water heating or space heating, improving overall efficiency.

Environment Benefits & Sustain-ability

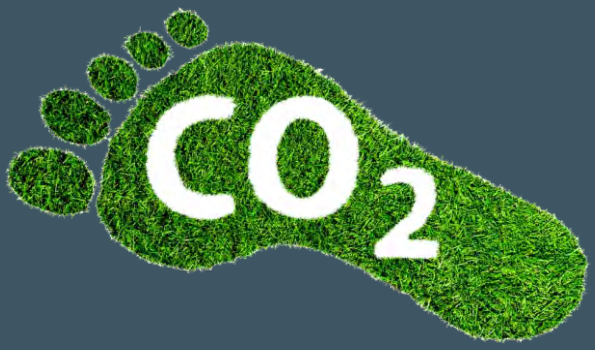
- Use of Eco-Friendly Refrigerants: Many DRV systems use low-global warming potential (GWP) refrigerants, aligning with green building standards.
- Reduced Carbon Footprint: By lowering energy consumption, these systems help industries meet sustainability goals and reduce CO_2 emissions.
- Smart Monitoring and IOT Integration: Advanced DRV systems incorporate IOT-based energy management, allowing real-time tracking and optimization for maximum efficiency.



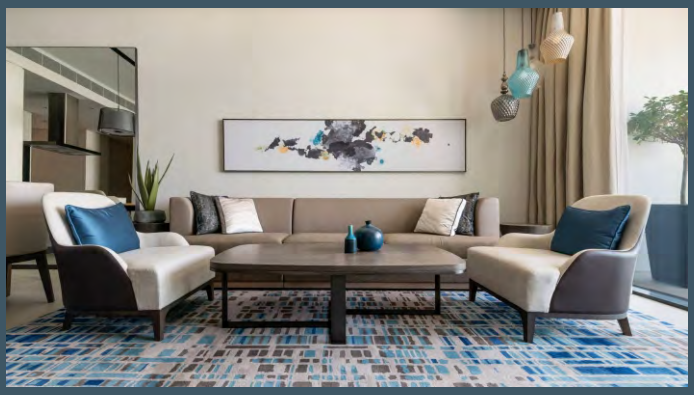




“Reduce Carbon Footprint”



A Dynamic Refrigerant Volume (DRV) system with a screw compressor is a highly efficient, durable, and sustainable solution for industrial and commercial cooling needs. By optimizing refrigerant flow and integrating advanced compressor technology, these systems significantly reduce energy costs, ensure long-term reliability, and contribute to a greener future.



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