BlueBox
by Swegon

AIR TO WATER HEAT PUMPS & 4-PIPE MULTIFUNCTION HEAT PUMPS

Packaged Units from
30 to 140 Ton Capacities

www.swegon.com/na

SWEGON BLUEBOX AIR TO WATER HEATPUMPS AND CHILLERS

Available in 7 Sizes from 30 to 140 tons Capacity:

- OMICRON 4-pipe Multifunction unit for Simultaneous Heating & Cooling
- Tetris Reversible Heat Pump
- Tetris Chiller with Microchannel Coils

SWEGON BLUEBOX TECHNOLOGY

BlueBox are packaged monoblock units for ease of installation and control.

- All the refrigerant is outside of the building away from occupants
- Hot and chilled water produced by the units can be used with fancoils, chilled beams AHUS or any other hydronic unit.

Single Point Electrical Power Connection

- Factory-mounted disconnect switch
- UL/CSA 60335-2-40 Certified for safe use with A2L Refrigerant
- Next Generation Low GWP refrigerant R-454B (GWP = 466) meets current and upcoming environmental regulations

Energy Efficient EC Fans

- Variable speed for reduced sound and improved operation

Independent Fin-Tube Condenser/Evaporator Coils

- Hydrophilic coating for better heating performance and mitigated defrost effects.

Optimized for Cold Climates

- Oversized Heated Drain Pans
- Drain connections on drain pans with optional extended drain hoses to route condensate to the base of unit

Dual refrigerant circuits with Tandem compressors on each circuit.

- Defrosts only one circuit within a unit at a time.
- Electronic Expansion valves
- Liquid Injection Compressors for high temperature water at very cold ambient temperatures
- Enclosure to protect compressors from the elements and reduce sound emissions

Plate Heat Exchangers for hydronic supply to the building

- Insulated and Heat Traced Heat Exchangers for additional protection
- Field Configurable for Back, Left or Right Field Connections
- Optional Desuperheater in Tetris models for partial heat recovery while working in cooling mode

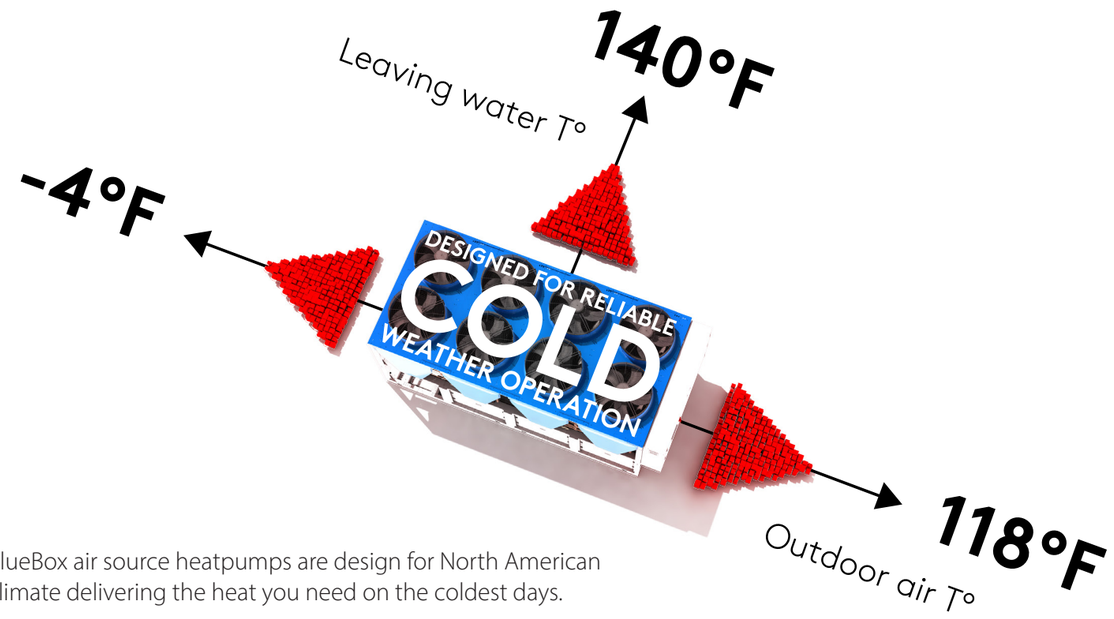
Energy Loop

OMICRON SKY NA

OMICRON SKY

4 pipe multifunctional units save energy and reduce carbon footprint while delivering superior thermal comfort.
The Omicron can move the heat collected in the chilled water loop to the hot water loop **saving energy while providing heating and cooling where you need, when you need it.**

OPERATING LIMITS



BlueBox air source heatpumps are design for North American climate delivering the heat you need on the coldest days.

SYSTEMS AND CONTROLS

HYZER HYDRONIC OPTIMIZER

BLUETHINK solution to manage several units, components and devices to build an optimized System

- **Advanced algorithms** to maximize system total efficiency
- **Less Opex** thanks to lower energy consumption
- **Flexible management** of multi units, variable water flow and external devices (drycoolers, cooling towers, boilers,..)
- **Real time** energy consumption to obtain advanced structured data analysis
- **Modular design** to perfectly suit any project requirements in terms of application, size and complexity

MULTILOGIC

Easy multi-unit management in a master-slave logic, connected together with Blue Think technology. The solution developed by Swegon avoids the installation of external electrical panels.

Connect up to 32 units to operate as a single central plant.

Coordinated Defrost for higher plant temperature stablilty.