

FWEH / FWXH SERIES

COMMERCIAL & INDUSTRIAL AIR SOURCE HEAT PUMPS

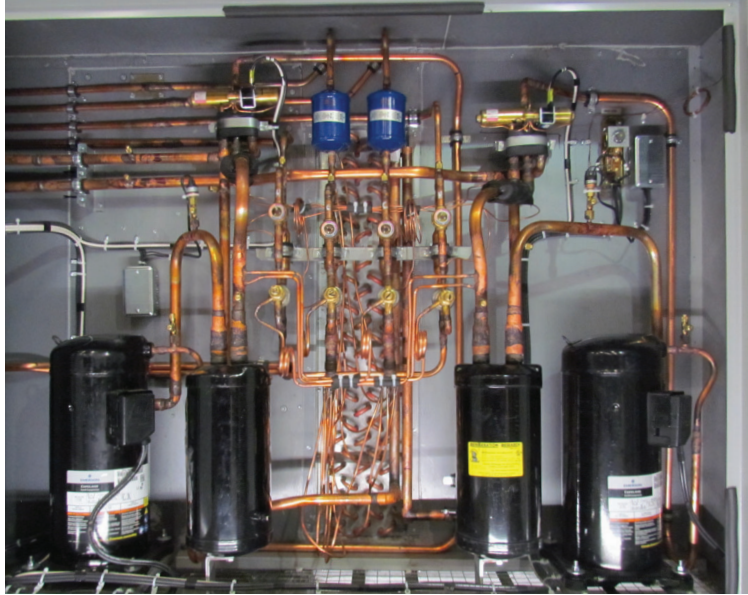


Features

- Multiple independent compressor circuits
- Energy efficiency verified to meet or exceed NRCan/DOE requirements
- Your equipment solution for sustainable buildings
- 5 through 63 tons (18 through 222 kW) capacity
- 1,800 to 16,000 CFM (850 to 7,552 L/s) airflow rates
- Able to operate as low as 0°F (-17.8°C) ambient
- Custom units for non-catalogued capacities
- 100% outside air and mixed air applications
- Dedicated EngA NextGen controllers
- Customizable for retrofit applications
- Unit base fabricated from steel channel
- May be package with:
 - Direct or indirect gas fired heaters (high efficiencies and turndowns)
 - Hydronic, steam and electric heating coils
 - Total or sensible energy recovery components



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Compressor Section



Ambient Coil Distributor

Increased performance can be obtained by incorporating Engineered Air's energy recovery devices such as the energy wheel, thermal storage recovery system (reverse flow), heat pipe and air to air plate exchangers.

During low ambient temperatures, auxiliary heatings systems are required to raise ventilation air temperatures. Engineered Air provides a variety of auxiliary options: high efficient direct and indirect gas fired heaters, electric heat coils, hot water and steam heating coils.

Typical Options

** represents standard features*

CASING

- 18 gauge painted satin coat *
- 14 or 16 gauge
- 1" (25mm) insulation *
- 2" (51mm) insulation
- Solid or perforated liners
- Stainless steel
- Galvanized
- Aluminum

FILTERS / IAQ PRODUCTS

- MERV 8 pleated *
- 1" (25mm), 2" (51mm), 4" (102mm) or 12" (305mm) deep filters
- HEPA
- Chemical filtration
- TRIMED

ACCESS

- Hinged doors *
- Lined doors *
- Camlock handles *
- Leverlock handles
- Lockable handles
- Service vestibule

HEAT PUMP

- Packaged cooling with reversing heat pump *
- R-410A Refrigerant *
- R-454B Refrigerant
- Variable condenser reheat

CONTROLS

- NextGen base *
- NextGen CenCon c/w networking capabilities

FINISHES

- Air dry gray enamel *
- Special colors
- Epoxy

GAS TRAIN

- FM

HEAT RECLAIM

- QDT heat pipe
- Recovery Air heat wheel
- TRP air to air plate
- bkm Reverse Flow
- Glycol run around

FANS

- Forward curved *
- Airfoil
- Backward inclined
- Plenum
- EngArray

MOTORS

- High efficiency ODP *
- High efficiency TEFC
- Variable speed drives
- Two speed



ENGINEERED AIR

MANUFACTURING FACILITIES:

CALGARY AND EDMONTON, ALBERTA | DESOTO, KANSAS | NEWMARKET, ONTARIO

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HEATING | VENTILATING | AIR CONDITIONING | AIR QUALITY | ENERGY RECOVERY