FN Fan-Coil Units
High-Performance, Horizontal
Model FNX Exposed-Cabinet Dimensional Data

Note:
Drawings are not to scale and are not for installation purposes. Contact your Johnson Controls representative for more information.
All data and dimensions are subject to change without notice.

Notes:
1. All dimensions are in inches [mm] and are +/- 1/8\" [3 mm]. Metric values are soft conversions.
2. See FNF submittal for additional FN series product dimensions not shown.
3. Internal-hinged electrical enclosure not shown.
4. Optional 1\" or 2\"-pleated filters available (shown).
5. 1-1/4\" duct collar standard on all ducted units.

INTERNAL CONTROL ENCLOSURE SIZES
10 X 16 X 6  [250 X 406 X 152]
10 X 20 X 6  [250 X 500 X 152]

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FN Series Fan-Coil Units:
Innovative Design Simplifies Installation and Service

Contractors
Johnson Controls FN Series horizontal, high-performance, fan-coil units provide maximum performance while reducing installed cost to the contractor. Concealed models feature field-reversible coil and drain pan, allowing right-hand or left-hand piping connections. The FNP unit is also equipped with a field-reversible rear-ducted or bottom-ducted air return. Standard 1” minimum duct collars on both supply and return help to streamline ductwork installation.

Designers
The FN unit’s array of options and number of available sizes render unparalleled flexibility. Ranging from 600 to 2400 CFM, eight unit sizes allow the FN to accurately match the room-load requirements. Available with chilled-water or DX cooling coils and hot-water, steam or electric heating coils. FN Series fan coils produce the ultimate in comfort and flexibility.

Owners
ARI Standard 440 certification ensures exacting performance. Concerned about maintenance and Indoor Air Quality? Sloped drain pans are standard on FN Series fan coils. Both the drain pan and motor-blower assembly may be easily removed from the unit via rear or bottom panel. The entering side of the coil may be accessed by removing the blower assembly.

FN Series Fan-Coil Unit Features

STANDARD FEATURES:
- Compact size: 17” height (FNF/FNP)
- or 18” height (FNX) for all sizes
- Heavy-gauge, galvanized-steel casing construction
- 1/2”-thick fiberglass insulation
- Side-access electrical enclosure
- Sloped drain pan, externally insulated
  - Field-reversible for left or right connections
- Removable fan assembly
- 2 or 4-pipe configuration, preheat or reheat position
  - Field-reversible for left or right connections (water coils)
  - Manual air vents
  - 3, 4, or 6-row chilled water or DX, heat-pump compatible
  - 1, 2, 3 or 4-row hot water or 1 or 2-row steam
- 1” throwaway filters
- Three-tap PSC motors; 115, 208-230, or 277 volts
- ETL-listed and labeled
- ARI Standard 440-certified

OPTIONAL FEATURES:
- Insulated plenum, rear-ducted or bottom-ducted return (Model FNP)
  - Field-reversible
  - Mixing box with linkage
  - Damper actuator
  - Foil-faced insulation
  - Closed-cell foam insulation
  - Stainless-steel drain pan
  - Stainless-steel coil casings
  - Secondary drain connection
  - Auxiliary drip pan – stainless-steel or galvanized
  - Condensate-overflow switch
  - Auto air vents
  - 1” or 2” pleated filter
  - ECM™ motors
  - SCR fan speed controller (PSC motor)
  - Piping packages
  - Thermostats
  - Double-deflection discharge grille (Model FNX)

Electric Heat
Available in a wide variety of kW and voltage configurations. Options include door-interlock disconnects and low-voltage controls. All control and electric-heat configurations are with single-point power connection and are ETL-listed as an assembly.
Electrical Enclosure
The side-access electrical enclosure provides access to all electric heat and control components. Terminal strips are furnished for simple power-wiring and control-wiring connections. Multiple knockouts allow wiring entries from either side of the compartment.

Mixing Box
The optional, fully insulated, mixing-box section comes completely assembled to the FNP unit, featuring low-leakage, heavy-gauge steel dampers with integral linkage. Damper positioning is field-configurable and bottom filter access is standard. A factory-provided and factory-installed damper actuator is also available.

Drain Pan
Standard drain pans are externally insulated, single-wall, galvanized-steel, with an option for stainless-steel. Drain pans are available with secondary-drain connection. On concealed models, the FN Series drain pan is easily removable for cleaning or reversing connections.

Filters
One-inch throwaway filters are tight-fitting to prevent air bypass. Filters are easily removable from the bottom without the need for tools. The filter rack is convertible from rear to bottom return without the need for additional parts. Optional 1" and 2" pleated filters are available for use with the FNP unit.

Powder Coated Painted Surface
Exposed cabinet Model FNX features powder coat finish that resists scuffing, scratching, fading, and fingerprints.

Coils
All fan-coil units are available in 2 or 4-pipe configurations. The heating coil may be placed in the reheat or preheat position. Heating and cooling coils are field-reversible for right-hand or left-hand connections.
Model FNF Free-Return Dimensional Data

Model FNP Plenum-Return Dimensional Data

### Model FNF Free-Return Dimensional Data

#### Table

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<thead>
<tr>
<th>UNIT SIZE</th>
<th>FAN QTY</th>
<th>A (mm)</th>
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<th>C (mm)</th>
<th>D (mm)</th>
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#### Notes:

1. All dimensions are in inches [mm] and are +/- 1/8" [3 mm]
2. Metric values are soft conversions.
3. 1-row, single-circuit coils are on the same axis, but are 13-3/4" apart in height.
4. Control-enclosure size is determined by electrical components selected.
5. Drain pan is field-reversible 180° and externally insulated.
6. Optional auxiliary drip pan available for piping-package condensate.
7. Coil hand is field-reversible (left-hand unit shown).
8. Plenum box is field-reversible for rear or bottom-return air.
9. Filter rack can accommodate standard 1" throwaway and 1" & 2" pleated filters.

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### Model FNP Plenum-Return Dimensional Data

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**Model FNP With Mixing Box Dimensional Data**

**Notes:**
1. All dimensions are in inches [mm] and are +/- 1/8" [3 mm]. Metric values are soft conversions.
2. See FNP submittal for additional FN series product dimensions not shown.
3. The mixing box is field-reversible from bottom & rear to top & rear return.
4. Mixing-box side panels are removable for access to the linkage/actuator.

**ARI Standard Ratings**

(80°F EAT, 67°F EWT, 10°F temp rise, hi-speed)

<table>
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<tr>
<th>Model/Size</th>
<th>Certified</th>
<th>Airflow</th>
<th>Cooling Capacity</th>
<th>Water</th>
<th>Power Input (Watts)</th>
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**Heating Capacity**

(20°F EAT, 180°F EWT, 40°F temp drop, hi-speed)

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**Note:**
1. All testing done with dry coil, 0.05” ESP, PSC 115/1/60 motor.
2. Airflow CFM on sizes 14 through 20 exceed maximum ratings in ARI Standard 440 and are, therefore, not certified.
3. Model FNX performance data varies from FNF and FNP units. Contact your Johnson Controls representative for more information.

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