



FWA_X-8AQ Series

**Multi-Position Hydronic Air Handler
For Use With Tankless Water Heaters
Up to 82,700 BTUH**



The all new **FWA_X-8AQ** series multi-position air handlers offer the optimum in hydronic space heating technology. Unlike most other "hydronic" air handlers, the **FWA_X-8AQ** is specifically designed for use with today's high efficiency tankless water heaters.

Among its many features, a larger circulating pump delivers the higher flow rates required by today's tankless water heaters. In addition, the **FWA_X-8AQ** features the latest in air-moving technology, a high efficiency ECM blower motor. The motors are designed and factory programmed to deliver maximum airflow at external static pressures up to 1.0! Cooling coils can be field-added to the unit's discharge opening, making this a complete, high efficiency heating and cooling air handler.

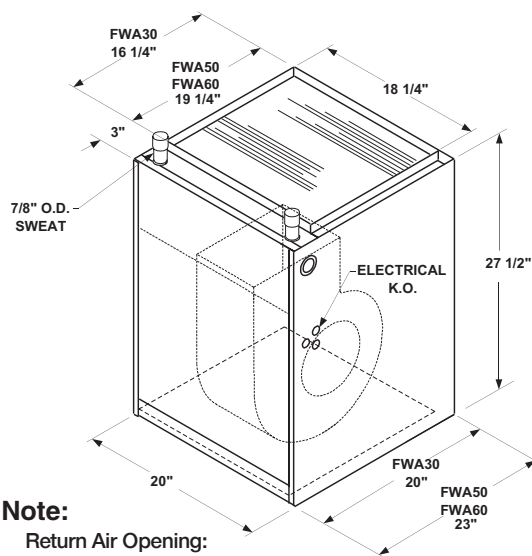
These fan coils are compatible with any source of hot water that doesn't exceed 180° and is NSF/ANSI certified for use with domestic water.

Standard Features:

- **Multi-function micro-processor circuit board with:**
 - **Automatic pump timer** - The pump operates for sixty seconds every six hours in order to purge the water from the hot water coil and piping (if a cooling coil is installed, the pump timer cycle is skipped while the compressor is operating).
 - **Blower-on fan delay** (heating mode) - preheats the HW coil for 45 seconds.
 - **Blower-off fan delay** (heating and cooling modes) - blower continues to operate for 45 seconds after thermostat is satisfied for increased efficiency.
- High efficiency **ECM motor**
- **Freeze protector** on HW coil
- 120V motor, 24V controls
- Blower door shut-off switch
- Special circulating pump with unique, easy access anti-siphon check valve and air purge valve
- Can be installed in the upflow, horizontal, or downflow positions
- Easily accessible 1" filter
- Fully insulated cabinet

FWA_X-8AQ Series

Multi-Position Hydronic Air Handler



Note:

Return Air Opening:

FWA30 17 D X 18 W

FWA50/60 20 D X 18 W

Filter Size

FWA30 20 X 20 X 1

FWA50/60 20 X 22 1/4 X 1



| PERFORMANCE DATA | | | | | | |
|------------------|-----|-----------------|--------------|---|-------|-------|
| UNIT MODEL | GPM | P.D. (FT. WTR.) | NOM. CFM (2) | (1) BTUH (1000) AT ENTERING WATER TEMPERATURE | | |
| | | | | 120°F | 140°F | 160°F |
| FWA30X-8AQ | 3.5 | 5.3 | 1000 | 27.6 | 38.6 | 49.6 |
| | | | 900 | 25.9 | 36.3 | 46.7 |
| | | | 800 | 24.1 | 33.7 | 43.3 |
| | | | 700 | 22.1 | 31.0 | 39.9 |
| | | | 600 | 20.0 | 28.0 | 36.0 |
| FWA50X-8AQ | 3.5 | 5.5 | 1600 | 37.5 | 52.5 | 67.5 |
| | | | 1400 | 35.1 | 49.2 | 63.3 |
| | | | 1100 | 30.7 | 43.0 | 55.3 |
| | | | 1000 | 28.9 | 40.5 | 52.1 |
| | | | 900 | 27.1 | 38.0 | 48.9 |
| FWA60X-8AQ | 3.5 | 4.3 | 1700 | 45.9 | 64.3 | 82.7 |
| | | | 1600 | 44.4 | 62.2 | 80.0 |
| | | | 1400 | 41.2 | 57.7 | 74.2 |
| | | | 1200 | 37.4 | 52.4 | 67.4 |
| | | | 1000 | 33.1 | 46.4 | 59.7 |

Notes:

1. Heat BTU is at 70 degree EAT.
2. ALL models are factory wired on taps 2 & 1. (see below)
3. FWA_X-8AQ models with circulating pumps have higher gpm's

RECOGNIZED COMPONENT



Intertek

NSF/ANSI
169:2016

| ELECTRICAL DATA | | | | | |
|-----------------|-----------------|-------|------|--------------------|------------------|
| UNIT MODEL | MOTOR HP (120V) | AMPS | | MIN. CIR. AMPACITY | MAX HACR BREAKER |
| | | MOTOR | PUMP | | |
| FWA30X-8AQ | 1/2 | 6.8 | 0.84 | 10 | 15 |
| FWA50X-8AQ | 3/4 | 8.4 | 0.84 | 12 | 15 |
| FWA60X-8AQ | 1 | 10.9 | 0.84 | 15 | 15 |

Note:

Motors are 120V multi-speed

In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.

| BLOWER DATA | | | | | | | | | | | |
|-------------|---------------------|---------------------------------|------|------|------|------|------|------|------|------|------|
| UNIT MODEL | MOTOR SPEED TAP (1) | CFM vs EXTERNAL STATIC PRESSURE | | | | | | | | | |
| | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| FWA30X-8AQ | 5 | 1125 | 1090 | 1060 | 1035 | 995 | 925 | 830 | 680 | | |
| | 4 | 1125 | 1090 | 1060 | 1035 | 995 | 925 | 830 | 680 | | |
| | 3 | 980 | 950 | 920 | 890 | 850 | 810 | 780 | 680 | | |
| | 2 | 850 | 815 | 780 | 750 | 710 | 670 | 635 | 600 | | |
| | 1 | 700 | 650 | 600 | 560 | 520 | | | | | |
| FWA50X-8AQ | 5 | 1670 | 1610 | 1540 | 1460 | 1380 | 1310 | 1210 | 1120 | 1020 | 800 |
| | 4 | 1670 | 1610 | 1540 | 1460 | 1380 | 1300 | 1210 | 1120 | 1020 | 800 |
| | 3 | 1440 | 1410 | 1380 | 1345 | 1310 | 1270 | 1200 | 1105 | 980 | |
| | 2 | 1235 | 1200 | 1165 | 1130 | 1100 | 1060 | 1020 | 990 | 860 | |
| | 1 | 1030 | 995 | 960 | 925 | 890 | 850 | 785 | | | |
| FWA60X-8AQ | 5 | 1800 | 1750 | 1700 | 1650 | 1600 | 1530 | 1460 | 1390 | 1280 | 1190 |
| | 4 | 1800 | 1750 | 1700 | 1650 | 1600 | 1530 | 1460 | 1390 | 1280 | 1190 |
| | 3 | 1640 | 1610 | 1580 | 1550 | 1520 | 1480 | 1430 | 1370 | 1260 | 1160 |
| | 2 | 1450 | 1410 | 1380 | 1350 | 1320 | 1280 | 1240 | 1200 | 1150 | 1100 |
| | 1 | 1230 | 1190 | 1160 | 1130 | 1070 | 1030 | 990 | 940 | 890 | 840 |

Note:

1. ALL models are factory wired on taps 2 & 1.
2. Shaded areas exceed unit capacity.