Bindus Manufacturing, LLC

# AQUECOIL

## DUCT MOUNTED HOT WATER COILS

**MODEL HWC**

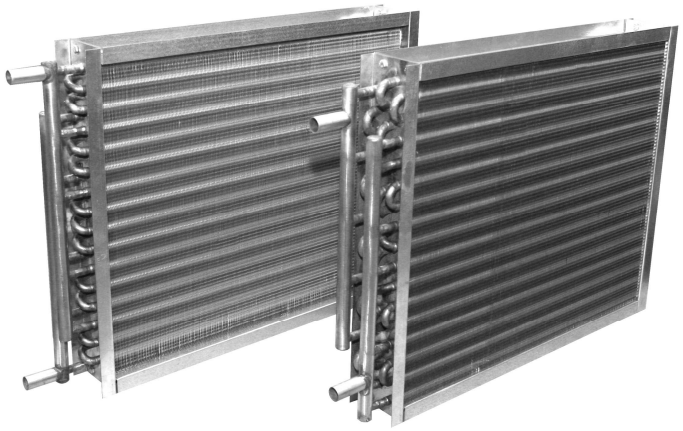
**A Series**

## SPECIFICATION SHEET

### WARM AIR SPACE HEATING USING HOT WATER

### DESCRIPTION

The AQUECOIL is ideal for providing heated air in applications such as residential or commercial warm air heating, or reheat for humidity control. The AQUECOIL Hot Water Coil A-Series has been engineered to improve upon duct mounted hot water coils that have been used in the industry for years. Higher efficiency coils provide greater heat output, lower static pressure on the air stream, and lower pressure drops in the water line. The galvanized steel frame and unit dimensions are consistent with products already in use to allow for easy replacement of existing coils. That also means that there is no learning curve on new installs.



### FEATURED HIGHLIGHTS

- High-Performance 2-row and 3-row coils
- Low static pressure
- High BTUH output
- High efficiency .0045” aluminum fins
- 1/2” OD, .017” wall copper waterways for improved heat transfer and durability
- Mechanical tube expansion for permanent bond to fins
- Sweat connections for quick attachment to water lines
- Up to 500 PSI operating pressure and 2500 PSI maximum pressure
- 1" flange on galvanized steel frame
- 3-Year parts warranty

### APPLICATION

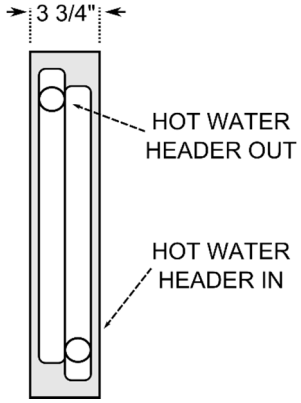
The AQUECOIL Hot Water Coil A-Series works in conjunction with any source of hot water (which can supply enough BTU's to meet your heating load), such as a Conventional Water Heater, a Tankless Water Heater, or Boiler, and an air distribution system. AQUECOIL Hot Water Coils may be mounted in either the supply or the return side of the duct system, in either vertical or horizontal orientation. The addition of an external air vent is recommended to assure complete air purging.

The use of field installed swing check and isolation valves is strongly recommended. Heat output can be adjusted to system requirements by modifying the water flow, air flow and water temperature. If the hot water source does not have its own system circulator, the AQUECOIL Hot Water Coil can be connected to an AQUECOIL Pump Module, Models PM-1 or PM-2, to provide the necessary control functions and specified water flow rates though the coil.

# SPECIFICATIONS AND PERFORMANCE INFORMATION

Due to continuous product improvement, these specifications may change without notice.

Model HWC
A Series

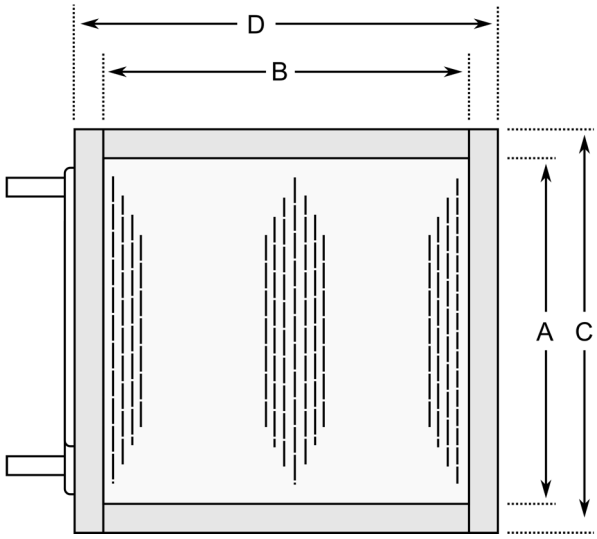



## DIMENSIONS

| Model | A | B | C | D | Frame Width | Header (O.D.) |
|---|---|---|---|---|---|---|
| HWC-1215-A-2 | 12 1/2" | 15” | 14 1/2" | 17” | 3 3/4" | 5/8” |
| HWC-1215-A-3 | | | | | | 7/8” |
| HWC-1520-A-2 | 15” | 20” | 17” | 22” | 3 3/4" | 7/8” |
| HWC-1520-A-3 | | | | | | |
| HWC-2020-A-2 | 20” | 20” | 22” | 22” | 3 3/4" | 7/8” |
| HWC-2020-A-3 | | | | | | |
| HWC-2025-A-2 | 20” | 25” | 22” | 27” | 3 3/4" | 7/8” |
| HWC-2025-A-3 | | | | | | 1 1/8” |
| HWC-2030-A-2 | 20” | 30” | 22” | 32” | 3 3/4" | 1 1/8” |
| HWC-2030-A-3 | | | | | | |

## PERFORMANCE

| Model | GPM | CFM | BTUH | APD | WPD |
|---|---|---|---|---|---|
| HWC-1215-A-2 | 7 | 700 | 46,589 | .162 | 5.5 |
| | 7 | 800 | 50,565 | .205 | |
| | 9 | 900 | 55,610 | .253 | 8.7 |
| HWC-1215-A-3 | 7 | 500 | 46,136 | .132 | 2.7 |
| | 7 | 600 | 50,453 | .182 | |
| | 10 | 700 | 60,146 | .239 | 5.1 |
| HWC-1520-A-2 | 7 | 1200 | 73,779 | .183 | 2.6 |
| | 7 | 1400 | 80,458 | .241 | |
| | 10 | 1500 | 87,950 | .272 | 4.9 |
| HWC-1520-A-3 | 7 | 800 | 71,316 | .132 | 1.8 |
| | 7 | 1100 | 87,999 | .231 | |
| | 12 | 1200 | 99,190 | .270 | 4.6 |
| HWC-2020-A-2 | 7 | 1600 | 93,851 | .183 | 1.6 |
| | 7 | 1800 | 99,935 | .226 | |
| | 15 | 2000 | 118,906 | .272 | 6.0 |
| HWC-2020-A-3 | 7 | 1200 | 100,645 | .162 | 2.4 |
| | 7 | 1400 | 110,877 | .213 | |
| | 15 | 1600 | 132,953 | .270 | 9.2 |
| HWC-2025-A-2 | 10 | 1900 | 116,650 | .167 | 1.9 |
| | 10 | 2200 | 126,548 | .217 | |
| | 20 | 2500 | 149,680 | .272 | 6.3 |
| HWC-2025-A-3 | 10 | 1600 | 132,391 | .182 | 1.7 |
| | 10 | 1800 | 142,567 | .224 | |
| | 20 | 2000 | 166,032 | .270 | 5.8 |
| HWC-2030-A-2 | 10 | 2400 | 139,494 | .183 | 1.3 |
| | 10 | 2800 | 151,220 | .241 | |
| | 25 | 3000 | 180,381 | .272 | 6.5 |
| HWC-2030-A-3 | 10 | 1800 | 149,875 | .162 | 2.0 |
| | 10 | 2200 | 169,592 | .231 | |
| | 25 | 2400 | 201,268 | .270 | 9.9 |




Galvanized steel frame with 1" flange using 18 gauge brackets and 20 gauge sides. Copper waterways using 1/2" O.D. seamless tubes with .017" walls. 500 PSI maximum operating pressure, 2500 PSI ultimate pressure. Aluminum fins are .0045" thick and tubes are expanded into fins for permanent surface bond and maximum heat transfer.

**Performance calculations at different operating parameters are available upon request.**

NOTES:

1) All BTUH calculations use 60°F entering air temperature and 180°F water temperature.
2) Water circulation is handled either by the existing boiler system or by installing one of the optional pump modules, depending on application.
3) The last digit of the model number indicates the number of rows of copper in the coil.

## OPTIONAL ACCESSORIES

| | |
|---|---|
| AK-PM-115 | Pump Module, 115 Volt, 3-Speed,3/4” Sweat |
| AK-PM-230 | Pump Module, 230 Volt, 3-Speed,3/4” Sweat |
| AK-VK-1 | Standard Hydronic Valve Kit |

**WARRANTY:** All Aquecoil Duct Coils offer a limited 3-year parts warranty.

REV 10/2013

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