

NEW PRODUCT



L/M-STAT SERIES FAN COILS

AHSS
AHSD

Product Presentation

The L/M-STAT Series Ceiling Concealed Ducted Fan Coils have been specifically designed to match the most demanding market expectations.

- **The AHSS model** is single skin for ceiling concealed applications with 25mm filter and duct connection flange.
- **The AHSD model** is double skin for ceiling concealed applications with 20mm thickness casing, 25mm filter and duct flange.

Product Range

The L/M-STAT Series Ceiling Concealed Ducted Fan Coils Series offers a range of 230V/50Hz, with the following capacities:

- **13 sizes of 2 pipe 3 row models from 2.82kW to 26.9kW (9600 BTU/H to 91800 BTU/H) cooling capacity and 2.43kW to 26.65kW (8300 BTU/H to 90900 BTU/H) heating capacity.**
- **2 pipe models 4 row also available.**
- **4 pipe models available by adding an auxiliary heating coil (3+1).**
- **Variable External Static Pressures (ESP) up to 150 Pa (0.6 in.wg).**

Product Features

- **Framework.** The L/M-STAT Series Ceiling Concealed Ducted Fan Coils have a frameless integrated folded steel structure. The units have been carefully designed to avoid any air leakage between casing and joint covers.
- **Casing.**
 - **AHSS**-unit case is using 1mm thickness galvanized steel with 10mm insulation inside of the unit. The unit is designed for ceiling concealed applications with 25mm filter and duct connection flange.
 - **AHSD**-double skin unit case is using double skin (Sandwich panel), consisting of two walls with inner insulation. Inner wall is made of plane galvanized steel of 0.8mm thickness. Outer wall is made of pre-coated steel 1.0mm thickness. The insulation consists of high pressure PU foam sandwiched in between, thus producing a rigid and robust panel. The final casing thickness shall be 20 mm. The unit is designed for ceiling concealed applications.
- **Filter.** 25mm Standard Nylon filter is easily removable and washable and is made from self-extinguishing acrylic with an efficiency of class Merv 2-4.
- **Coil and Drain Pan.** Standard coil Cu/Al 3/8"OD, with steel manifolds and threaded connections, provided with manual Air-Vent.

Pre-coated aluminum fins for protection by hydrophilic blue fin process and tested to 2.5MPa pressure. Coils are tested under water at 25bar for operation at 16bar maximum. Coil include manual air vent and water purge.

Single wall painted steel drain pan and outer wall lined with 5mm NBR insulation.
- **Fans and Motors.** Centrifugal double inlet, double width, type, direct drive impeller built from galvanized steel, dynamically and statically balanced.

All units have 3-speed fan motor, 220V-240V, single phase, 50Hz, permanent split-capacitor with ball bearing and build-in automatic reset thermal overload protection. Standard motor insulation is class B and IP20. Class F and IP44 is optional.

Standard Configuration

The L/M-STAT Series Ceiling Concealed Ducted Fan Coils offer as standard 25mm filter Nylon net filter[s] and drain pan with a 3/4" Male Pipe Thread (MPT) galvanized drain connection.

Control Options

The L/M-STAT Series Ceiling Concealed Ducted Fan Coils offer the following control possibilities to satisfy specific applications.

- **Total Control Board (S type)** – Field Programmable using easy to set dipswitches and controlled via Infra-red handset and/or wired wall pad. It offers the following control options: continuous with modulation or On/Off fan, 2 or 4 Pipe configuration, with or without valves, with or without electrical heater, preheat configuration, complete diagnostics.
- It also allows control of up to 32 Secondary units via a single Main Unit with IR Handset or Wall Pad controller, and up to 2048 units via BMS (Building Management System) with Modbus platform.
- **Terminal Strip Only (T type)** – Terminal Strip provided for wired remote thermostat applications. Suitable for AC motor wired thermostats with L/M/H/*Auto speed on/off signals and with integrated fan relays 1-to-many zone control.



AHS AC L/M-STAT SERIES FAN COILS

Technical Specifications (Eurovent Standards)

AHS(3R)-V Hydronic Ductable Unit 3-row coil, 2 pipe 3 speed with AC motor

| UNIT CONFIGURATION | | | | AHS (3R)-[Size]-V | | 200 | 300 | 400 | 500 | 600 | 800 | | |
|-------------------------------|-------------------------------|---------------------------------------|------|--------------------------------|--------------|--|------------------------|--------------|--------------|--------------|------|-------|--|
| | | | | Configuration | | 2-pipe | | | | | | | |
| | | | | Number of Fan Blowers | | Single | | Twin | | | | Three | |
| | | | | Power Supply | IV/Ph/Hz | 230 / 1 / 50 | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only. | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 463 | 574 | 784 | 913 | 1085 | 1363 | | | |
| | | | M | | 429 | 553 | 746 | 892 | 1051 | 1310 | | | |
| | | | L | | 401 | 524 | 656 | 749 | 953 | 1146 | | | |
| | | Available Pressure | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | | | |
| | | | L | | 35 | 35 | 30 | 32 | 39 | 31 | | | |
| | Cooling | Cooling Capacity | H | kW | 2.82 | 3.39 | 4.34 | 5.13 | 5.84 | 8.39 | | | |
| | | | M | | 2.66 | 3.29 | 4.19 | 5.02 | 5.7 | 8.13 | | | |
| | | | L | | 2.52 | 3.17 | 3.79 | 4.43 | 5.3 | 7.35 | | | |
| | | Sensible Cooling Capacity | H | | 2.03 | 2.42 | 3.15 | 3.69 | 4.16 | 5.98 | | | |
| | | | M | | 1.91 | 2.34 | 3.03 | 3.6 | 4.05 | 5.78 | | | |
| | | | L | | 1.8 | 2.25 | 2.72 | 3.14 | 3.74 | 5.18 | | | |
| | | Latent Cooling Capacity | H | | 0.79 | 0.97 | 1.19 | 1.44 | 1.68 | 2.41 | | | |
| | | | M | | 0.75 | 0.95 | 1.16 | 1.42 | 1.65 | 2.35 | | | |
| | | | L | | 0.72 | 0.92 | 1.07 | 1.29 | 1.56 | 2.17 | | | |
| | FCEER | Rating | | | 42.4 | 40.8 | 33.5 | 39.1 | 33.2 | 38.7 | | | |
| | | Class | | | C | C | D | D | D | D | | | |
| | Heating | Heating Capacity | H | kW | 2.43 | 3.04 | 3.98 | 4.67 | 5.52 | 7.13 | | | |
| | | | M | | 2.32 | 2.95 | 3.82 | 4.6 | 5.38 | 6.94 | | | |
| | | | L | | 2.2 | 2.82 | 3.47 | 3.99 | 5.03 | 6.26 | | | |
| | | Max. Elec. Heater Capacity | | | 2 | 3 | 4 | 5 | 6 | | | | |
| | FCCOP | Rating | | | 37.1 | 36.4 | 30.5 | 35.2 | 31.3 | 32.9 | | | |
| | | Class | | | D | D | D | D | D | D | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 48 / 47 / 43 | 50 / 49 / 46 | 52 / 50 / 44 | 52 / 51 / 46 | 54 / 52 / 49 | 53 / 52 / 47 | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 50 / 49 / 45 | 52 / 51 / 48 | 54 / 52 / 46 | 54 / 53 / 48 | 56 / 54 / 51 | 55 / 54 / 49 | | | |
| | | Sound Power Level (outlet) | | | 57 / 56 / 52 | 59 / 58 / 55 | 61 / 59 / 53 | 61 / 60 / 55 | 63 / 61 / 58 | 62 / 61 / 56 | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 59 / 58 / 54 | 61 / 60 / 57 | 63 / 61 / 55 | 63 / 62 / 57 | 65 / 63 / 60 | 64 / 63 / 58 | | | |
| | Electrical | Fan Motor Power (1) | H | W | 67 | 82 | 120 | 123 | 167 | 204 | | | |
| | | | M | | 66 | 80 | 120 | 122 | 166 | 203 | | | |
| | | | L | | 58 | 78 | 116 | 117 | 163 | 194 | | | |
| | | Fan Motor Running Current @H | | A | 0.29 | 0.36 | 0.52 | 0.53 | 0.73 | 0.89 | | | |
| | Fan Motor Starting Current @H | | 0.87 | | 1.07 | 1.57 | 1.60 | 2.18 | 2.66 | | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 483 | 581 | 744 | 880 | 1002 | 1438 | | | |
| | | | 2 | | 456 | 564 | 718 | 861 | 976 | 1394 | | | |
| | | | 1 | | 433 | 543 | 649 | 760 | 908 | 1260 | | | |
| | | Cooling Pressure Drop | 3 | kPa | 23.6 | 36.47 | 20.51 | 30.04 | 41.16 | 46.3 | | | |
| | | | 2 | | 21.42 | 34.68 | 19.29 | 28.9 | 39.41 | 43.94 | | | |
| | | | 1 | | 19.58 | 32.5 | 16.27 | 23.4 | 34.82 | 37 | | | |
| | | Heating Water Flow Rate | 3 | L/h | 417 | 522 | 682 | 801 | 947 | 1223 | | | |
| | | | 2 | | 397 | 505 | 655 | 788 | 922 | 1190 | | | |
| | | | 1 | | 377 | 484 | 596 | 685 | 862 | 1074 | | | |
| | | Heating Pressure Drop | 3 | kPa | 15.4 | 25.5 | 14.8 | 21.6 | 31.6 | 29.8 | | | |
| | | | 2 | | 14.2 | 24.1 | 13.8 | 21 | 30.2 | 28.4 | | | |
| | | | 1 | | 12.9 | 22.4 | 11.7 | 16.5 | 27 | 23.8 | | | |
| | | Water Content | | L | 0.72 | 0.87 | 1.02 | 1.17 | 1.32 | 1.92 | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | |
| | | | | | In | in. | 3/4" | | | | | | |
| | | | | | Out | | | | | | | | |
| | | | | Condensate Drainage Connection | | | | | | | | | |
| | | | | Dimensions | L | mm | 738 | 838 | 938 | 1038 | 1138 | 1538 | |
| | | | | | W | | 630 | | | | | | |
| | | | | | H | | 296 | | | | | | |
| Net Weight | | | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | | |

Cooling mode (2 pipe):

Return air temperature: 27C DB/19C WB.
 Inlet/outlet water temperature: 7C/12C.

Heating mode (2 pipe):

Return air temperature: 20C.
 Inlet/outlet water temperature: 45C/40C.

For High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | AHS (3R)-[Size]-V | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|-------------------------------|---------------------------------------|------|--------------------------------|--------------|--|------------------------|--------------|--------------|--------------|--------------|------|--|--|
| | | | | Configuration | | 2-pipe | | | | | | | | |
| | | | | Number of Fan Blowers | | Three | Four | Three | Four | | | | | |
| | | | | Power Supply | V/Ph/Hz | 230 / 1 / 50 | | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only. | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1611 | 1915 | 2477 | 3198 | 4097 | 5171 | 5944 | | | |
| | | | M | | 1554 | 1871 | 2374 | 3019 | 3673 | 4654 | 5356 | | | |
| | | | L | | 1413 | 1767 | 2247 | 2912 | 3346 | 4250 | 4884 | | | |
| | | Available Pressure | H | 52 | 60 | 60 | 57 | 60 | 60 | 60 | | | | |
| | | | M | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | | | L | 35 | 40 | 43 | 39 | 40 | 40 | 40 | | | | |
| | Cooling | Cooling Capacity | H | kW | 8.74 | 10.21 | 13.25 | 15.54 | 20.13 | 23.99 | 26.9 | | | |
| | | | M | | 8.53 | 10.06 | 12.86 | 14.85 | 18.48 | 22.19 | 24.6 | | | |
| | | | L | | 7.95 | 9.67 | 12.27 | 14.4 | 17.24 | 20.82 | 22.97 | | | |
| | | Sensible Cooling Capacity | H | | 6.31 | 7.39 | 9.55 | 11.14 | 14.55 | 17.51 | 19.64 | | | |
| | | | M | | 6.15 | 7.27 | 9.25 | 10.62 | 13.31 | 16.15 | 18 | | | |
| | | | L | | 5.7 | 6.95 | 8.77 | 10.25 | 12.33 | 15.07 | 16.73 | | | |
| | | Latent Cooling Capacity | H | | 2.43 | 2.82 | 3.7 | 4.4 | 5.58 | 6.48 | 7.26 | | | |
| | | | M | | 2.38 | 2.79 | 3.61 | 4.23 | 5.17 | 6.04 | 6.6 | | | |
| | | | L | | 2.25 | 2.72 | 3.5 | 4.15 | 4.91 | 5.75 | 6.24 | | | |
| | FCEER | Rating | | | 37.5 | 31.8 | 35.2 | 32.3 | 29.7 | 32.8 | 24.2 | | | |
| | | Class | | | D | D | D | D | D | D | E | | | |
| | Heating | Heating Capacity | H | | 8.23 | 9.52 | 12.2 | 15.3 | 19.8 | 23.59 | 26.65 | | | |
| | | | M | | 8.02 | 9.36 | 11.9 | 14.6 | 18.17 | 21.82 | 24.2 | | | |
| | | | L | | 7.42 | 8.96 | 11.4 | 14.3 | 16.95 | 20.47 | 22.59 | | | |
| | | Max. Elec. Heater Capacity | | | 6 | | | | | 9 | | | | |
| | FCCOP ^e | Rating | | | 35.0 | 29.5 | 32.7 | 32.3 | 29.2 | 32.3 | 23.9 | | | |
| | | Class | | | D | D | D | D | D | D | E | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 67 / 65 / 61 | 69 / 66 / 63 | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | Electrical | Fan Motor Power (1) | H | W | 222 | 314 | 430 | 554 | 682 | 860 | 1250 | | | |
| | | | M | | 220 | 310 | 365 | 494 | 614 | 690 | 1040 | | | |
| | | | L | | 216 | 307 | 345 | 424 | 584 | 620 | 928 | | | |
| | | Fan Motor Running Current @H | | | 0.97 | 1.37 | 1.87 | 2.41 | 2.97 | 3.74 | 5.43 | | | |
| | Fan Motor Starting Current @H | | 2.90 | 4.10 | 5.61 | 7.23 | 8.90 | 11.22 | 16.30 | | | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 1498 | 1751 | 2272 | 2663 | 3451 | 4112 | 4611 | | | |
| | | | 2 | | 1463 | 1724 | 2205 | 2546 | 3167 | 3804 | 4218 | | | |
| | | | 1 | | 1363 | 1658 | 2104 | 2468 | 2955 | 3569 | 3938 | | | |
| | | Cooling Pressure Drop | 3 | kPa | 17.45 | 24.15 | 44.88 | 63.92 | 35.27 | 47.52 | 57.74 | | | |
| | | | 2 | | 16.75 | 23.52 | 42.65 | 59.2 | 30.49 | 41.62 | 49.61 | | | |
| | | | 1 | | 14.86 | 22 | 39.38 | 56.14 | 27.09 | 37.35 | 44.15 | | | |
| | | Heating Water Flow Rate | 3 | L/h | 1412 | 1632 | 2099 | 2615 | 3394 | 4044 | 4568 | | | |
| | | | 2 | | 1374 | 1605 | 2033 | 2501 | 3115 | 3741 | 4148 | | | |
| 1 | | | 1272 | | 1535 | 1947 | 2444 | 2906 | 3510 | 3873 | | | | |
| Heating Pressure Drop | | 3 | kPa | 13.3 | 18.1 | 33.4 | 52.9 | 78.96 | 39.01 | 48 | | | | |
| | | 2 | | 12.7 | 17.4 | 31.6 | 49.1 | 75.03 | 34.17 | 40.73 | | | | |
| | | 1 | | 11.1 | 16.3 | 29.4 | 47.2 | 72.24 | 30.66 | 36.25 | | | | |
| Water Content | | L | 2.07 | 2.22 | 2.59 | 2.87 | 4.032 | 4.032 | 4.032 | | | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Female Threaded | | | | | | | |
| | | | | | In | in. | 3/4" | | | | 1-1/4" | | | |
| | | | | Out | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | | | | | | | | |
| | | | | Dimensions | L | mm | 1638 | 1738 | 1638 | 1848 | 1848 | | | |
| | | | | | W | | 630 | 720 | | 780 | | | | |
| H | 296 | 350 | | | 400 | | | | | | | | | |
| Net Weight | | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | | | |



AHS AC L/M-STAT SERIES FAN COILS

Technical Specifications (at High ΔT Condition)

AHS(4R)-V Hydronic Ductable Unit 4-row coil, 2 pipe 3 speed with AC motor

| UNIT CONFIGURATION | | | | AHS (4R)-[Size]-V | | 200 | 300 | 400 | 500 | 600 | 800 | | |
|-------------------------------|------------|---------------------------------------|----|--------------------------------|--------------|--|--------------|------------------------|--------------|--------------|-------|-------|--|
| | | | | Configuration | | 2-pipe | | | | | | | |
| | | | | Number of Fan Blowers | | Single | | Twin | | | | Three | |
| | | | | Power Supply | [V/Ph/Hz] | 230 / 1 / 50 | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only. | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | | H | m3/h | 442 | 553 | 742 | 868 | 1040 | 1294 | | |
| | | | | M | | 411 | 531 | 709 | 849 | 1010 | 1243 | | |
| | | | | L | | 386 | 504 | 629 | 721 | 921 | 1103 | | |
| | | Available Pressure | | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | |
| | | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | | |
| | | | | L | | 35 | 35 | 30 | 32 | 39 | 31 | | |
| | Cooling | Cooling Capacity | | H | kW | 2.09 | 2.53 | 3.35 | 4.2 | 4.77 | 6.66 | | |
| | | | | M | | 1.98 | 2.46 | 3.26 | 4.11 | 4.66 | 6.47 | | |
| | | | | L | | 1.89 | 2.36 | 2.97 | 3.64 | 4.34 | 5.9 | | |
| | | Sensible Cooling Capacity | | H | | 1.46 | 1.75 | 2.32 | 2.92 | 3.31 | 4.61 | | |
| | | | | M | | 1.37 | 1.7 | 2.25 | 2.86 | 3.23 | 4.47 | | |
| | | | | L | | 1.3 | 1.63 | 2.03 | 2.5 | 2.98 | 4.05 | | |
| | | Latent Cooling Capacity | | H | | 0.63 | 0.78 | 1.03 | 1.28 | 1.46 | 2.05 | | |
| | | | | M | | 0.61 | 0.76 | 1.01 | 1.25 | 1.43 | 2 | | |
| | | | | L | | 0.59 | 0.73 | 0.94 | 1.14 | 1.36 | 1.85 | | |
| | Sound | Sound Pressure Level [outlet] | | dB(A) | 48 / 47 / 43 | 50 / 49 / 46 | 52 / 50 / 44 | 52 / 51 / 46 | 54 / 52 / 49 | 53 / 52 / 47 | | | |
| | | Sound Pressure Level [Inlet+Radiated] | | | 50 / 49 / 45 | 52 / 51 / 48 | 54 / 52 / 46 | 54 / 53 / 48 | 56 / 54 / 51 | 55 / 54 / 49 | | | |
| | | Sound Power Level [outlet] | | | 57 / 56 / 52 | 59 / 58 / 55 | 61 / 59 / 53 | 61 / 60 / 55 | 63 / 61 / 58 | 62 / 61 / 56 | | | |
| | | Sound Power Level [Inlet+Radiated] | | | 59 / 58 / 54 | 61 / 60 / 57 | 63 / 61 / 55 | 63 / 62 / 57 | 65 / 63 / 60 | 64 / 63 / 58 | | | |
| | Electrical | Fan Motor Power (I) | | H | W | 67 | 82 | 120 | 123 | 167 | 204 | | |
| | | | | M | | 66 | 80 | 120 | 122 | 166 | 203 | | |
| | | | | L | | 58 | 78 | 116 | 117 | 163 | 194 | | |
| | | Fan Motor Running Current @H | | A | 0.29 | 0.36 | 0.52 | 0.53 | 0.73 | 0.89 | | | |
| | | Fan Motor Starting Current @H | | | 0.87 | 1.07 | 1.57 | 1.60 | 2.18 | 2.66 | | | |
| | Hydronic | Cooling Water Flow Rate | | 3 | L/h | 200 | 241 | 319 | 400 | 454 | 634 | | |
| | | | | 2 | | 188 | 234 | 310 | 391 | 444 | 616 | | |
| | | | | 1 | | 180 | 225 | 283 | 347 | 413 | 562 | | |
| | | Cooling Pressure Drop | | 3 | kPa | 7.2 | 11.19 | 20.18 | 10.82 | 14.69 | 15.71 | | |
| | | | | 2 | | 6.52 | 10.64 | 19.21 | 10.42 | 14.13 | 14.96 | | |
| | | | | 1 | | 6.03 | 9.97 | 16.4 | 8.48 | 12.5 | 12.8 | | |
| | | Water Content | | L | 0.96 | 1.16 | 1.36 | 1.56 | 1.76 | 2.56 | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | | Type | | Socket Threaded Female | | | | | |
| | | | | | | In | in. | 3/4" | | | | | |
| | | | | Out | | | | | | | | | |
| | | | | Condensate Drainage Connection | | mm | 738 | 838 | 938 | 1038 | 1138 | 1538 | |
| | | | | Dimensions | | | L | 630 | | | | | |
| | | | | | | | W | 296 | | | | | |
| | | | | | | | H | | | | | | |
| Net Weight | | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | | | |

Cooling mode (2 pipe):

Return air temperature: 24C DB /18C WB.
 Inlet/outlet water temperature: 5.5C /14.5C.

For other High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | AHS (4R)-[Size]-V | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|------------|---------------------------------------|----|--------------------------------|--------------|--|------------------------|--------------|--------------|--------------|--------------|------|--|--|
| | | | | Configuration | | 2-pipe | | | | | | | | |
| | | | | Number of Fan Blowers | | Three | Four | Three | Four | | | | | |
| | | | | Power Supply | [V/Ph/Hz] | 230 / 1 / 50 | | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only. | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1538 | 1832 | 2440 | 3046 | 3993 | 5044 | 5798 | | | |
| | | | M | | 1485 | 1798 | 2342 | 2878 | 3579 | 4539 | 5223 | | | |
| | | | L | | 1361 | 1706 | 2215 | 2782 | 3262 | 4146 | 4765 | | | |
| | | Available Pressure | H | Pa | 52 | 60 | 60 | 57 | 60 | 60 | 60 | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | |
| | | | L | | 35 | 40 | 43 | 39 | 40 | 40 | 40 | | | |
| | Cooling | Cooling Capacity | H | kW | 7.5 | 8.77 | 11.19 | 12.67 | 16.78 | 20.1 | 22.36 | | | |
| | | | M | | 7.32 | 8.63 | 10.86 | 12.13 | 15.49 | 18.57 | 20.63 | | | |
| | | | L | | 6.82 | 8.36 | 10.37 | 11.86 | 14.44 | 17.37 | 19.22 | | | |
| | | Sensible Cooling Capacity | H | | 5.17 | 6.05 | 7.8 | 8.85 | 11.72 | 14.17 | 15.85 | | | |
| | | | M | | 5.03 | 5.94 | 7.56 | 8.46 | 10.78 | 13.05 | 14.57 | | | |
| | | | L | | 4.66 | 5.73 | 7.18 | 8.26 | 9.96 | 12.15 | 13.53 | | | |
| | | Latent Cooling Capacity | H | | 2.33 | 2.72 | 3.39 | 3.82 | 5.06 | 5.93 | 6.51 | | | |
| | | | M | | 2.29 | 2.69 | 3.3 | 3.67 | 4.71 | 5.52 | 6.06 | | | |
| | | | L | | 2.16 | 2.63 | 3.19 | 3.6 | 4.48 | 5.22 | 5.69 | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 67 / 65 / 61 | 69 / 66 / 63 | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | Electrical | Fan Motor Power (1) | H | W | 222 | 314 | 430 | 554 | 682 | 860 | 1250 | | | |
| | | | M | | 220 | 310 | 365 | 494 | 614 | 690 | 1040 | | | |
| | | | L | | 216 | 307 | 345 | 424 | 584 | 620 | 928 | | | |
| | | Fan Motor Running Current @H | | A | 0.97 | 1.37 | 1.87 | 2.41 | 2.97 | 3.74 | 5.43 | | | |
| | | Fan Motor Starting Current @H | | | 2.90 | 4.10 | 5.61 | 7.23 | 8.90 | 11.22 | 16.30 | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 714 | 835 | 1065 | 1207 | 1598 | 1914 | 2130 | | | |
| | | | 2 | | 697 | 822 | 1034 | 1155 | 1475 | 1769 | 1964 | | | |
| | | | 1 | | 650 | 796 | 987 | 1130 | 1375 | 1654 | 1830 | | | |
| | | Cooling Pressure Drop | 3 | kPa | 20.76 | 28.77 | 17.05 | 22.94 | 13.16 | 17.88 | 21.43 | | | |
| | | | 2 | | 19.93 | 28.01 | 16.2 | 21.31 | 11.48 | 15.63 | 18.68 | | | |
| | | | 1 | | 17.68 | 26.52 | 14.97 | 20.51 | 10.19 | 13.95 | 16.57 | | | |
| | | Water Content | | L | 2.76 | 2.96 | 3.45 | 3.79 | 5.37 | 5.37 | 5.37 | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | |
| | | | | | In | in. | 3/4" | | | | 1-1/4" | | | |
| | | | | Out | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | mm | 1638 | 1738 | 1638 | 1848 | 1848 | | | |
| | | | | Dimensions | L | | 630 | | 720 | | 780 | | | |
| | | | | | W | | 296 | | 350 | | 400 | | | |
| | | | | | H | | | | | | | | | |
| Net Weight | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | | | | |

Cooling mode (2 pipe):

Return air temperature: 24C DB /18C WB.
 Inlet/outlet water temperature: 5.5C /14.5C.

For other High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.



AHS AC L/M-STAT SERIES FAN COILS

Technical Specifications (Eurovent Standards)

AHS(3R+1)-P Hydronic Ductable Unit 3+1 row coil, 4 pipe with 3 speed AC Motor With Auxiliary Heating Coil (1 Row)

| UNIT CONFIGURATION | | | | AHS (3R+1)-[Size]-P | | 200 | 300 | 400 | 500 | 600 | 800 | | | | | |
|-------------------------------|------------|---------------------------------------|------|--------------------------------|--------------|--|------------------------|-------|--------------|-------|--------------|-------|--------------|--|--------------|--|
| | | | | Configuration | | 4-pipe | | | | | | | | | | |
| | | | | Number of Fan Blowers | | Single | | Twin | | | | Three | | | | |
| | | | | Power Supply | V/Ph/Hz | 230 / 1 / 50 | | | | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only. | | | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 442 | 553 | 742 | 868 | 1040 | 1294 | | | | | | |
| | | | M | | 411 | 531 | 709 | 849 | 1010 | 1243 | | | | | | |
| | | | L | | 386 | 504 | 629 | 721 | 921 | 1103 | | | | | | |
| | | Available Pressure | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | |
| | L | | 35 | | 35 | 30 | 32 | 39 | 31 | | | | | | | |
| | Cooling | Cooling Capacity | H | kW | 2.72 | 3.29 | 4.16 | 4.94 | 5.65 | 8.07 | | | | | | |
| | | | M | | 2.56 | 3.19 | 4.03 | 4.87 | 5.55 | 7.82 | | | | | | |
| | | | L | | 2.45 | 3.07 | 3.69 | 4.27 | 5.14 | 7.15 | | | | | | |
| | | Sensible Cooling Capacity | H | | 1.95 | 2.34 | 3.01 | 3.54 | 4.01 | 5.73 | | | | | | |
| | | | M | | 1.83 | 2.27 | 2.92 | 3.48 | 3.93 | 5.53 | | | | | | |
| | | | L | | 1.74 | 2.17 | 2.64 | 3.02 | 3.63 | 5.03 | | | | | | |
| | | Latent Cooling Capacity | H | | 0.77 | 0.95 | 1.15 | 1.4 | 1.64 | 2.34 | | | | | | |
| | | | M | | 0.73 | 0.92 | 1.11 | 1.39 | 1.62 | 2.29 | | | | | | |
| | | | L | | 0.71 | 0.9 | 1.05 | 1.25 | 1.51 | 2.12 | | | | | | |
| | FCEER | Rating | | | 41 | 39.6 | 32.5 | 37.7 | 32.2 | 37.5 | | | | | | |
| | | Class | | | C | C | D | D | D | D | | | | | | |
| | Heating | Heating Capacity | H | kW | 1.93 | 2.39 | 3.12 | 3.63 | 4.2 | 5.51 | | | | | | |
| | | | M | | 1.82 | 2.32 | 3 | 3.57 | 4.09 | 5.32 | | | | | | |
| | | | L | | 1.73 | 2.23 | 2.74 | 3.14 | 3.84 | 4.89 | | | | | | |
| | | Max. Elec. Heater Capacity | | | 2 | 3 | 4 | 5 | | 6 | | | | | | |
| | FCCOP | Rating | | | 29.2 | 28.7 | 24.1 | 27.6 | 23.9 | 25.5 | | | | | | |
| | | Class | | | D | D | D | D | D | D | | | | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 48 / 47 / 43 | | 50 / 49 / 46 | | 52 / 50 / 44 | | 46 / 41 / 23 | | 54 / 52 / 49 | | 53 / 52 / 47 | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 50 / 49 / 45 | | 52 / 51 / 48 | | 54 / 52 / 46 | | 54 / 53 / 48 | | 56 / 54 / 51 | | 55 / 54 / 49 | |
| | | Sound Power Level (outlet) | | | 57 / 56 / 52 | | 59 / 58 / 55 | | 61 / 59 / 53 | | 55 / 50 / 32 | | 63 / 61 / 58 | | 62 / 61 / 56 | |
| | | Sound Power Level (Inlet+Radiated) | | | 59 / 58 / 54 | | 61 / 60 / 57 | | 63 / 61 / 55 | | 63 / 62 / 57 | | 65 / 63 / 60 | | 64 / 63 / 58 | |
| | Electrical | Fan Motor Power (I) | H | W | 67 | 82 | 120 | 123 | 167 | 204 | | | | | | |
| | | | M | | 66 | 80 | 120 | 122 | 166 | 203 | | | | | | |
| | | | L | | 58 | 78 | 116 | 117 | 163 | 194 | | | | | | |
| | | Fan Motor Running Current @H | | A | 0.29 | 0.36 | 0.52 | 0.53 | 0.73 | 0.89 | | | | | | |
| | | Fan Motor Starting Current @H | | | 0.87 | 1.07 | 1.57 | 1.6 | 2.18 | 2.66 | | | | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 466 | 564 | 713 | 847 | 968 | 1384 | | | | | | |
| | | | 2 | | 439 | 547 | 691 | 834 | 951 | 1340 | | | | | | |
| | | | 1 | | 419 | 526 | 633 | 732 | 881 | 1226 | | | | | | |
| | | Cooling Pressure Drop | 3 | kPa | 22.23 | 34.68 | 19.05 | 28.16 | 38.82 | 43.36 | | | | | | |
| | | | 2 | | 20.1 | 32.93 | 18.1 | 27.42 | 37.66 | 41.07 | | | | | | |
| | | | 1 | | 18.56 | 30.79 | 15.58 | 21.97 | 33.08 | 35.31 | | | | | | |
| | | Heating Water Flow Rate | 3 | L/h | 165 | 205 | 267 | 311 | 360 | 473 | | | | | | |
| | | | 2 | | 156 | 199 | 257 | 306 | 351 | 456 | | | | | | |
| | | | 1 | | 149 | 191 | 235 | 269 | 329 | 419 | | | | | | |
| | | Heating Pressure Drop | 3 | kPa | 6.38 | 10.6 | 18.9 | 27.6 | 5.62 | 12.2 | | | | | | |
| | | | 2 | | 5.82 | 10.1 | 17.7 | 26.8 | 5.38 | 11.5 | | | | | | |
| | | | 1 | | 5.33 | 9.39 | 15.1 | 21.6 | 4.83 | 9.96 | | | | | | |
| | | Cooling Water Content | | L | 0.72 | 0.87 | 1.02 | 1.17 | 1.32 | 1.92 | | | | | | |
| Heating Water Content | | 0.24 | 0.29 | | 0.34 | 0.39 | 0.44 | 0.64 | | | | | | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | | | |
| | | | | | In | in. | 3/4" | | | | | | | | | |
| | | | | | Out | | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | mm | 738 | | | | | | | | |
| | | | | Dimensions | L | 838 | | | | | | | | | | |
| | | | | | W | 938 | | | | | | | | | | |
| | | | | | H | 1038 | | | | | | | | | | |
| Net Weight | | | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | | | | | |

Cooling mode (4 pipe):

Return air temperature: 27C DB/19C WB.
 Inlet/outlet water temperature: 7C/12C.

Heating mode (4 pipe):

Return air temperature: 20C.
 Inlet/outlet water temperature: 65C/55C.

For High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | AHS (3R+1)-[Size]-P | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|-------------------------------|---------------------------------------|------------|-----------------------|------------------------|---|--------------|--------------|--------------|--------------|--------------|------|--|--|
| | | | | Configuration | | 4-pipe | | | | | | | | |
| | | | | Number of Fan Blowers | | Three | Four | Three | Four | | | | | |
| | | | | Power Supply | [V/Ph/Hz] | 230 / 1 / 50 | | | | | | | | |
| | | | | Operation Control | | S Type: Total control version. T Type: Terminal Strip Only | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1538 | 1832 | 2440 | 3046 | 3993 | 5044 | 5798 | | | |
| | | | M | | 1485 | 1798 | 2342 | 2878 | 3579 | 4539 | 5223 | | | |
| | | | L | | 1361 | 1706 | 2215 | 2782 | 3262 | 4146 | 4765 | | | |
| | | Available Pressure | H | Pa | 52 | 60 | 60 | 57 | 60 | 60 | 60 | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | |
| | L | | 35 | | 40 | 43 | 39 | 40 | 40 | 40 | | | | |
| | Cooling | Cooling Capacity | H | kW | 8.46 | 9.9 | 13.06 | 14.97 | 19.72 | 23.62 | 26.27 | | | |
| | | | M | | 8.24 | 9.75 | 12.67 | 14.28 | 18.2 | 21.82 | 24.23 | | | |
| | | | L | | 7.73 | 9.43 | 12.18 | 13.94 | 16.96 | 20.4 | 22.58 | | | |
| | | Sensible Cooling Capacity | H | | 6.09 | 7.14 | 9.4 | 10.71 | 14.24 | 17.22 | 19.26 | | | |
| | | | M | | 5.92 | 7.01 | 9.09 | 10.16 | 13.1 | 15.86 | 17.7 | | | |
| | | | L | | 5.53 | 6.76 | 8.7 | 9.89 | 12.11 | 14.76 | 16.44 | | | |
| | | Latent Cooling Capacity | H | | 2.37 | 2.76 | 3.66 | 4.26 | 5.48 | 6.4 | 7.01 | | | |
| | | | M | | 2.32 | 2.74 | 3.58 | 4.12 | 5.1 | 5.96 | 6.53 | | | |
| | | | L | | 2.2 | 2.67 | 3.48 | 4.05 | 4.85 | 5.64 | 6.14 | | | |
| | FCEER | Rating | | | 36.4 | 31 | 34.8 | 31.2 | 29.2 | 32.1 | 23.8 | | | |
| | | Class | | | D | D | D | D | D | D | E | | | |
| | Heating | Heating Capacity | H | kW | 6.36 | 7.38 | 9.34 | 11.3 | 15.24 | 18.25 | 20.36 | | | |
| | | | M | | 6.18 | 7.31 | 9.02 | 10.9 | 14.07 | 16.86 | 18.73 | | | |
| | | L | 5.8 | | 6.96 | 8.69 | 10.6 | 13.11 | 15.77 | 17.45 | | | | |
| | Max. Elec. Heater Capacity | | | | 6 | | | | 9 | | | | | |
| | FCCOP | Rating | | | 27.2 | 22.9 | 24.9 | 24 | 22.6 | 24.9 | 18.4 | | | |
| | | Class | | | D | D | D | D | E | E | E | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 67 / 65 / 61 | 69 / 66 / 63 | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | Electrical | Fan Motor Power (1) | H | W | 222 | 314 | 430 | 554 | 682 | 860 | 1250 | | | |
| | | | M | | 220 | 310 | 365 | 494 | 614 | 690 | 1040 | | | |
| | | | L | | 216 | 307 | 345 | 424 | 584 | 620 | 928 | | | |
| | | Fan Motor Running Current @H | | A | 0.97 | 1.37 | 1.87 | 2.41 | 2.97 | 3.74 | 5.43 | | | |
| | Fan Motor Starting Current @H | | | | 2.9 | 4.1 | 5.61 | 7.23 | 8.9 | 11.22 | 16.3 | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 1451 | 1698 | 2239 | 2566 | 3380 | 4049 | 4504 | | | |
| | | | 2 | | 1413 | 1671 | 2171 | 2448 | 3120 | 3740 | 4154 | | | |
| | | | 1 | | 1326 | 1617 | 2087 | 2389 | 2907 | 3498 | 3871 | | | |
| | | Cooling Pressure Drop | 3 | kPa | 16.52 | 22.91 | 43.76 | 59.98 | 34.05 | 46.28 | 55.47 | | | |
| | | | 2 | | 15.8 | 22.3 | 41.55 | 55.39 | 29.72 | 40.45 | 48.35 | | | |
| | | | 1 | | 14.17 | 21.08 | 38.85 | 53.15 | 26.36 | 36.1 | 42.88 | | | |
| | | Heating Water Flow Rate | 3 | L/h | 545 | 632 | 800 | 968 | 1306 | 1565 | 1745 | | | |
| | | | 2 | | 530 | 627 | 773 | 931 | 1206 | 1445 | 1605 | | | |
| 1 | | | 498 | | 597 | 745 | 909 | 1124 | 1352 | 1496 | | | | |
| Heating Pressure Drop | | 3 | kPa | 17 | 23.4 | 3.24 | 4.9 | 12.22 | 16.61 | 19.99 | | | | |
| | | 2 | | 16.1 | 23.1 | 3.06 | 4.58 | 10.66 | 14.51 | 17.35 | | | | |
| | | 1 | | 14.5 | 21.2 | 2.87 | 4.4 | 9.46 | 12.95 | 15.39 | | | | |
| Cooling Water Content | | L | 2.07 | 2.22 | 2.59 | 2.84 | 4.032 | 4.032 | 4.032 | | | | | |
| Heating Water Content | | | 0.69 | 0.74 | 0.86 | 0.95 | 1.34 | 1.34 | 1.34 | | | | | |
| CONSTRUCTION AND PACKING DATA | | Water Connections | Type | | Socket Female Threaded | | | | | | | | | |
| | | | In | in. | 3/4" | | | | 1-1/4" | | | | | |
| | | Condensate Drainage Connection | Out | | | | | | | | | | | |
| | | | Dimensions | L | mm | 1638 | 1738 | 1638 | 1848 | 1848 | | | | |
| | | W | | 630 | | 720 | | 780 | | | | | | |
| | | H | | 296 | | 350 | | 400 | | | | | | |
| | | Net Weight | | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | |

ECO L/M-STAT
SERIES
FAN COILS

MODEL AHSS-ECM
MODEL AHSD-ECM

NEW PRODUCT



ECO L/M-STAT SERIES FAN COILS

AHSS-ECM
AHSD-ECM

Product Presentation

The ECO L/M-STAT Series Ceiling Concealed Ducted Fan Coils have been specifically designed to match the most demanding market expectations.

- **The AHSS-ECM model** is single skin for ceiling concealed applications with 25mm filter and duct connection flange.
- **The AHSD-ECM model** is double skin for ceiling concealed applications with 20mm thickness casing, 25mm filter and duct flange.

Product Range

The ECO L/M-STAT Series Ceiling Concealed Ducted Fan Coils Series offers a range of 230V/50Hz, with the following capacities:

- **13 sizes of 2 pipe 3 row models from 2.88kW to 26.9kW (9800 BTU/H to 91800 BTU/H) cooling capacity and from 2.49kW to 27.66kW (8500 BTU/H to 94400 BTU/hr) heating capacity.**
- **2 pipe models 4 row also available.**
- **4 pipe models available by adding an auxiliary heating coil (3+1).**
- **Variable External Static Pressures (ESP) up to 150 Pa (0.6 in.wg).**

Product Features

- **Energy Efficiency.** The ECO L/M-STAT Series Ceiling Concealed Ducted Fan Coils incorporate a DC motor with step-less speed modulation using an integrated EC motor driver.
Energy saving or unit power input at set H/M/L speeds is reduced by 30 - 50% when compared to traditional on/off AC motors. Moreover, in Energy Saving Auto – Mode (ESM), as airflow is continuously varied (step-less progression) between 15% and 100% of the maximum high speed airflow, energy saving will be 50 – 70% while precisely meeting the required cooling and heating loads of the space.
This innovation eliminates the need for the motor to turn off and on periodically to maintain the desired temperature of the environment, leading to total energy savings of up to 50% on an installation/project basis. Modulation of airflow to meet heating and cooling requirements of the space will also result in reducing temperature fluctuations within the space, as well as reducing fan noise.
The motor is driven by a 0 – 5 VDC signal originating from an inverter board integrated into the unit onboard controller, which utilizes PID logic in order to modulate motor RPMs in Energy Saving Auto – Mode (ESM).
- **Framework.** The L/M-STAT Series Ceiling Concealed Ducted Fan Coils have a frameless integrated folded steel structure. The units have been carefully designed to avoid any air leakage between casing and joint covers.
- **Filter.** 25mm Standard Nylon filter is easily removable and washable and is made from self-extinguishing crylic with an efficiency of class Merv 2-4.

- **Casing.**
 - **AHSS** Unit case is using 1mm thickness galvanized steel with 10mm insulation inside of the unit. The unit is designed for ceiling concealed applications with 25mm filter and duct connection flange.
 - **AHSD** Double skin unit case is using double skin (Sandwich panel), consisting of two walls with inner insulation. Inner wall is made of plane galvanized steel of 0.8mm thickness. Outer wall is made of pre-coated steel 1.0mm thickness. The insulation consists of high pressure PU foam sandwiched in between, thus producing a rigid and robust panel. The final casing thickness shall be 20 mm. The unit is designed for ceiling concealed applications.
- **Coil and Drain Pan.** Standard coil Cu/Al 3/8"OD, with steel manifolds and threaded connections, provided with manual Air-Vent. Pre-coated aluminum fins for protection by hydrophilic blue fin process and tested to 2.5MPa pressure. Coils are tested under water at 25bar for operation at 16bar maximum. Coil include manual air vent and water purge.
- **Fans and Motors.** Centrifugal double inlet, double width, type, direct drive impeller built from galvanized steel, dynamically and statically balanced.
All units have 3-speed fan motor, 220V-240V, single phase, 50Hz, permanent split-capacitor with ball bearing and build-in automatic reset thermal overload protection. Standard motor insulation is class B and IP20. Class F and IP44 is optional.

Standard Configuration

The ECO L/M-STAT Series Ceiling Concealed Ducted Fan Coils offer as standard 25mm filter Nylon net filter[s] and drain pan with a ¾" Male Pipe Thread (MPT) galvanized drain connection.

Control Options

The ECO L/M-STAT Series Ceiling Concealed Ducted Fan Coils offer the following control possibilities to satisfy specific applications.

- **Total Control Board (S3 type)** – Field Programmable using easy to set dipswitches and controlled via Infra-red handset and/or wired wall pad. It offers the following control options: continuous with modulation or On/Off fan, 2 or 4 Pipe configuration, with or without valves, with or without electrical heater, preheat configuration, complete diagnostics.
It also allows control of up to 32 Secondary units via a single Main Unit with IR Handset or Wall Pad controller, and up to 2048 units via BMS (Building Management System) with Modbus platform.
- **Flexi Control Board (W3 type)** – Flexible function control for External Thermostat applications, with control of Drain Pump, Zone Control product operations, and limited LED diagnostics.





AHS ECM ECO L/M-STAT SERIES FAN COILS

Technical Specifications (Eurovent Standards)

AHS(3R)-V-ECM Hydronic Ducted Unit 3-row coil, 2 pipe with EC motor

| UNIT CONFIGURATION | | | | AHS [3R]-[Size]-V-ECM | | | 200 | 300 | 400 | 500 | 600 | 800 | | |
|-------------------------------|------------|---------------------------------------|----|--------------------------------|--------------|--------------|--|--------------|--------------|--------------|------|------|-------|--|
| | | | | Configuration | | | 2-pipe | | | | | | | |
| | | | | Number of Fan Blowers | | | Single | | Twin | | | | Three | |
| | | | | Power Supply | | V/Ph/Hz | 230 / 1 / 50 | | | | | | | |
| | | | | Operation Control | | | S3 Type: Total control version. W3 Type: Flexible control function. | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 477 | 606 | 825 | 905 | 1074 | 1510 | | | | |
| | | | M | | 419 | 561 | 762 | 891 | 1013 | 1322 | | | | |
| | | | L | | 406 | 521 | 696 | 750 | 948 | 1190 | | | | |
| | | Available Pressure | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | | | L | | 35 | 35 | 30 | 32 | 39 | 31 | | | | |
| | Cooling | Cooling Capacity | H | kW | 2.88 | 3.54 | 4.53 | 5.1 | 5.8 | 9.09 | | | | |
| | | | M | | 2.6 | 3.34 | 4.25 | 5.02 | 5.55 | 8.2 | | | | |
| | | | L | | 2.54 | 3.14 | 3.97 | 4.43 | 5.24 | 7.55 | | | | |
| | | Sensible Cooling Capacity | H | | 2.07 | 2.53 | 3.29 | 3.66 | 4.12 | 6.51 | | | | |
| | | | M | | 1.86 | 2.38 | 3.08 | 3.6 | 3.93 | 5.83 | | | | |
| | | | L | | 1.82 | 2.23 | 2.87 | 3.14 | 3.7 | 5.33 | | | | |
| | | Latent Cooling Capacity | H | | 0.81 | 1.01 | 1.24 | 1.44 | 1.68 | 2.58 | | | | |
| | | | M | | 0.74 | 0.96 | 1.17 | 1.42 | 1.62 | 2.37 | | | | |
| | | | L | | 0.72 | 0.91 | 1.1 | 1.29 | 1.54 | 2.22 | | | | |
| | FCEER | Rating | | | 79.4 | 82.8 | 92.1 | 81.3 | 75.9 | 77.8 | | | | |
| | | Class | | | B | B | A | B | B | B | | | | |
| | Heating | Heating Capacity | H | kW | 2.49 | 3.16 | 4.13 | 4.64 | 5.48 | 7.77 | | | | |
| | | | M | | 2.26 | 2.97 | 3.88 | 4.6 | 5.23 | 7 | | | | |
| | | | L | | 2.22 | 2.82 | 3.64 | 3.99 | 4.98 | 6.47 | | | | |
| | | Max. Elec. Heater Capacity | | | 2 | 3 | 4 | 5 | 6 | | | | | |
| | FCCOP | Rating | | | 71.6 | 76.5 | 87 | 74.7 | 73.2 | 68.2 | | | | |
| | | Class | | | B | B | A | B | B | B | | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 48 / 47 / 43 | 50 / 49 / 46 | 52 / 50 / 44 | 52 / 51 / 46 | 54 / 52 / 49 | 53 / 52 / 47 | | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 50 / 49 / 45 | 52 / 51 / 48 | 54 / 52 / 46 | 54 / 53 / 48 | 56 / 54 / 51 | 55 / 54 / 49 | | | | |
| | | Sound Power Level (outlet) | | | 57 / 56 / 52 | 59 / 58 / 55 | 61 / 59 / 53 | 61 / 60 / 55 | 63 / 61 / 58 | 62 / 61 / 56 | | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 59 / 58 / 54 | 61 / 60 / 57 | 63 / 61 / 55 | 63 / 62 / 57 | 65 / 63 / 60 | 64 / 63 / 58 | | | | |
| | Electrical | Fan Motor Power (1) | H | W | 53 | 63 | 83 | 96 | 102 | 150 | | | | |
| | | | M | | 43 | 52 | 58 | 68 | 84 | 128 | | | | |
| | | | L | | 26 | 31 | 35 | 49 | 62 | 84 | | | | |
| | | Fan Motor Running Current @H | | | A | 0.46 | 0.55 | 0.72 | 0.83 | 0.89 | 1.3 | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 493 | 606 | 776 | 874 | 993 | 1558 | | | | |
| | | | 2 | | 446 | 572 | 728 | 861 | 951 | 1405 | | | | |
| | | | 1 | | 436 | 538 | 681 | 760 | 899 | 1295 | | | | |
| | | Cooling Pressure Drop | 3 | kPa | 24.44 | 39.23 | 22.02 | 29.66 | 40.59 | 53.04 | | | | |
| | | | 2 | | 20.62 | 35.57 | 19.78 | 28.9 | 37.66 | 44.53 | | | | |
| | | | 1 | | 19.84 | 32.07 | 17.64 | 23.4 | 34.24 | 38.74 | | | | |
| | | Heating Water Flow Rate | 3 | L/h | 427 | 542 | 708 | 795 | 939 | 1332 | | | | |
| | | | 2 | | 387 | 509 | 666 | 788 | 897 | 1201 | | | | |
| | | | 1 | | 380 | 484 | 623 | 685 | 853 | 1109 | | | | |
| | | Heating Pressure Drop | 3 | kPa | 16.03 | 27.2 | 15.74 | 21.29 | 31.15 | 34.4 | | | | |
| | | | 2 | | 13.56 | 24.46 | 14.19 | 20.99 | 28.82 | 28.84 | | | | |
| | | | 1 | | 13.15 | 22.42 | 12.68 | 16.52 | 26.48 | 25.17 | | | | |
| | | Water Content | | | L | 0.72 | 0.87 | 1.02 | 1.17 | 1.32 | 1.92 | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | |
| | | | | | In | in. | 3/4" | | | | | | | |
| | | | | | Out | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | | | | | | | | |
| | | | | Dimensions | L | mm | 738 | 838 | 938 | 1038 | 1138 | 1538 | | |
| | | | | | W | | 630 | | | | | | | |
| | | | | | H | | 296 | | | | | | | |
| Net Weight | | | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | | | |

Cooling mode (2 pipe):

Return air temperature: 27C DB/19C WB.
 Inlet/outlet water temperature: 7C/12C.

Heating mode (2 pipe):

Return air temperature: 20C.
 Inlet/outlet water temperature: 45C/40C.

For High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | AHS [3R]-[Size]-V | | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|--------------------|---------------------------------------|-------|--------------------------------|--------------|--------------|--|--------------|--------------|--------------|--------------|------|------|--|--|
| | | | | Configuration | | | 2-pipe | | | | | | | | |
| | | | | Number of Fan Blowers | | | Three | Four | Three | Four | | | | | |
| | | | | Power Supply | | V/Ph/Hz | 230 / 1 / 50 | | | | | | | | |
| | | | | Operation Control | | | S3 Type: Total control version. W3 Type: Flexible control function. | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1824 | 2047 | 2461 | 3173 | 4330 | 5453 | 5964 | | | | |
| | | | M | | 1569 | 1965 | 2379 | 2963 | 3783 | 4764 | 5430 | | | | |
| | | | L | | 1357 | 1736 | 2214 | 2887 | 3283 | 4134 | 4849 | | | | |
| | | Available Pressure | H | Pa | 52 | 55 | 60 | 57 | 60 | 60 | 60 | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | | | L | | 35 | 38 | 43 | 39 | 40 | 40 | 40 | | | | |
| | Cooling | Cooling Capacity | H | kW | 9.64 | 10.76 | 13.16 | 15.42 | 21.08 | 24.97 | 26.9 | | | | |
| | | | M | | 8.6 | 10.45 | 12.86 | 14.62 | 19.03 | 22.58 | 24.85 | | | | |
| | | | L | | 7.66 | 9.51 | 12.18 | 14.4 | 17.1 | 20.27 | 22.84 | | | | |
| | | Sensible Cooling Capacity | H | | 7.02 | 7.81 | 9.47 | 11.06 | 15.27 | 18.29 | 19.64 | | | | |
| | | | M | | 6.2 | 7.57 | 9.25 | 10.44 | 13.72 | 16.44 | 18.19 | | | | |
| | | | L | | 5.47 | 6.83 | 8.7 | 10.25 | 12.22 | 14.66 | 16.63 | | | | |
| | | Latent Cooling Capacity | H | | 2.62 | 2.95 | 3.69 | 4.36 | 5.81 | 6.68 | 7.26 | | | | |
| | | | M | | 2.4 | 2.88 | 3.61 | 4.18 | 5.31 | 6.14 | 6.66 | | | | |
| | | | L | | 2.19 | 2.68 | 3.48 | 4.15 | 4.88 | 5.61 | 6.21 | | | | |
| | FCEER | Rating | | | 57 | 69.6 | 58 | 61.6 | 58 | 55.9 | 53.8 | | | | |
| | | Class | | | C | B | C | B | C | C | C | | | | |
| | Heating | Heating Capacity | H | | 9.01 | 10.06 | 12.15 | 15.15 | 21.46 | 25.53 | 27.66 | | | | |
| | | | M | | 8.02 | 9.75 | 11.86 | 14.37 | 19.12 | 22.72 | 25.05 | | | | |
| | | | L | | 7.19 | 8.87 | 11.25 | 14.14 | 16.82 | 19.93 | 22.46 | | | | |
| | | Max. Elec. Heater Capacity | | | 6 | | | | | 9 | | | | | |
| | FCCOP ^e | Rating | | | 54.3 | 66.9 | 55.3 | 62.6 | 58.9 | 57.6 | 55.5 | | | | |
| | | Class | | | C | B | C | B | C | C | C | | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | | |
| | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 67 / 65 / 61 | 69 / 66 / 63 | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | | |
| | Electrical | Fan Motor Power (1) | H | W | 205 | 224 | 363 | 380 | 520 | 672 | 728 | | | | |
| | | | M | | 174 | 190 | 286 | 310 | 400 | 546 | 630 | | | | |
| | | | L | | 121 | 113 | 170 | 190 | 250 | 280 | 330 | | | | |
| | | Fan Motor Running Current @H | | | 1.78 | 1.95 | 3.16 | 3.3 | 4.5 | 5.84 | 6.33 | | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 1653 | 1844 | 2255 | 2644 | 3613 | 4281 | 4611 | | | | |
| | | | 2 | | 1475 | 1791 | 2205 | 2507 | 3262 | 3871 | 4260 | | | | |
| | | | 1 | | 1313 | 1631 | 2087 | 2468 | 2931 | 3474 | 3916 | | | | |
| | | Cooling Pressure Drop | 3 | kPa | 20.61 | 26.38 | 44.32 | 63.12 | 38.15 | 50.89 | 57.74 | | | | |
| | | | 2 | | 16.98 | 25.09 | 42.65 | 57.67 | 32.05 | 42.88 | 50.46 | | | | |
| | | | 1 | | 13.93 | 21.4 | 38.85 | 56.14 | 26.73 | 35.68 | 43.73 | | | | |
| | | Heating Water Flow Rate | 3 | L/h | 1544 | 1725 | 2082 | 2596 | 3679 | 4377 | 4742 | | | | |
| | | | 2 | | 1374 | 1672 | 2033 | 2463 | 3278 | 3895 | 4294 | | | | |
| | | | 1 | | 1232 | 1521 | 1929 | 2425 | 2883 | 3417 | 3851 | | | | |
| | | Heating Pressure Drop | 3 | kPa | 15.47 | 19.93 | 32.92 | 52.29 | 33.21 | 44.62 | 51.14 | | | | |
| 2 | | | 12.69 | | 18.9 | 31.6 | 47.8 | 27.29 | 36.6 | 43.19 | | | | | |
| 1 | | | 10.54 | | 14.09 | 28.91 | 46.54 | 21.94 | 29.3 | 35.9 | | | | | |
| Water Content | | | L | 2.07 | 2.22 | 2.59 | 2.87 | 4.032 | 4.032 | 4.032 | | | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | | |
| | | | | | In | in. | 3/4" | | | | 1-1/4" | | | | |
| | | | | | Out | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | | | | | | | | | |
| | | | | Dimensions | L | mm | 1638 | 1738 | 1638 | 1848 | 1848 | | | | |
| | | | | | W | | 630 | 720 | 780 | | | | | | |
| H | 296 | 350 | 400 | | | | | | | | | | | | |
| Net Weight | | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | | | | |



AHS ECM ECO L/M-STAT SERIES FAN COILS

Technical Specifications (at High ΔT Condition)

AHS(4R)-V-ECM Hydronic Ducted Unit 4-row coil, 2 pipe with EC motor

| UNIT CONFIGURATION | | | | AHS [4R]-[Size]-V-ECM | | 200 | 300 | 400 | 500 | 600 | 800 | |
|-------------------------------|------------------------------------|------------------------------|---------------------------------------|--------------------------------|-----------|---|------------------------|--------------|--------------|--------------|--------------|------|
| | | | | Configuration | | 2-pipe | | | | | | |
| | | | | Number of Fan Blowers | | Single | | Twin | | | Three | |
| | | | | Power Supply | [V/Ph/Hz] | 230 / 1 / 50 | | | | | | |
| | | | | Operation Control | | S3 Type: Total control version. W3 Type: Flexible control version. | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 511 | 669 | 842 | 912 | 1034 | 1557 | | |
| | | | M | | 449 | 588 | 797 | 847 | 1077 | 1392 | | |
| | | | L | | 415 | 530 | 719 | 726 | 833 | 1289 | | |
| | | Available Pressure | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | | | |
| | | | L | | 35 | 35 | 30 | 32 | 39 | 31 | | |
| | Cooling | Cooling Capacity | H | 3 | 2.33 | 2.92 | 3.71 | 4.36 | 4.73 | 7.64 | | |
| | | | M | | 2.12 | 2.66 | 3.55 | 4.11 | 4.91 | 7.03 | | |
| | | | L | | 1.99 | 2.46 | 3.28 | 3.67 | 4.03 | 6.61 | | |
| | | Sensible Cooling Capacity | H | 3 | 1.63 | 2.04 | 2.58 | 3.04 | 3.28 | 5.33 | | |
| | | | M | | 1.48 | 1.84 | 2.46 | 2.86 | 3.41 | 4.88 | | |
| | | | L | | 1.38 | 1.7 | 2.27 | 2.52 | 2.76 | 4.57 | | |
| | | Latent Cooling Capacity | H | 3 | 0.7 | 0.88 | 1.13 | 1.32 | 1.45 | 2.31 | | |
| | | | M | | 0.64 | 0.82 | 1.09 | 1.25 | 1.5 | 2.15 | | |
| | | | L | | 0.61 | 0.76 | 1.01 | 1.15 | 1.27 | 2.04 | | |
| | | Sound | Sound Pressure Level (outlet) | | dB(A) | 48 / 47 / 43 | 50 / 49 / 46 | 52 / 50 / 44 | 52 / 51 / 46 | 54 / 52 / 49 | 53 / 52 / 47 | |
| | | | Sound Pressure Level (Inlet+Radiated) | | | 50 / 49 / 45 | 52 / 51 / 48 | 54 / 52 / 46 | 54 / 53 / 48 | 56 / 54 / 51 | 55 / 54 / 49 | |
| | | | Sound Power Level (outlet) | | | 57 / 56 / 52 | 59 / 58 / 55 | 61 / 59 / 53 | 61 / 60 / 55 | 63 / 61 / 58 | 62 / 61 / 56 | |
| | Sound Power Level (Inlet+Radiated) | | 59 / 58 / 54 | 61 / 60 / 57 | | 63 / 61 / 55 | 63 / 62 / 57 | 65 / 63 / 60 | 64 / 63 / 58 | | | |
| | Electrical | Fan Motor Power (1) | H | W | 53 | 63 | 83 | 96 | 102 | 150 | | |
| | | | M | | 43 | 52 | 58 | 68 | 84 | 128 | | |
| | | | L | | 26 | 31 | 35 | 49 | 62 | 84 | | |
| | | Fan Motor Running Current @H | | A | 0.46 | 0.55 | 0.72 | 0.83 | 0.89 | 1.30 | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 222 | 278 | 353 | 415 | 451 | 728 | | |
| | | | 2 | | 202 | 253 | 338 | 391 | 468 | 670 | | |
| | | | 1 | | 190 | 234 | 312 | 350 | 384 | 629 | | |
| | | Cooling Pressure Drop | 3 | kPa | 8.65 | 14.29 | 23.97 | 11.51 | 14.5 | 19.87 | | |
| | | | 2 | | 7.37 | 12.17 | 22.2 | 10.42 | 15.45 | 17.26 | | |
| | | | 1 | | 6.61 | 10.64 | 19.45 | 8.61 | 11.06 | 15.52 | | |
| | | Water Content | | L | 0.96 | 1.16 | 1.36 | 1.56 | 1.76 | 2.56 | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | |
| | | | | | In | in. | 3/4" | | | | | |
| | | | | Out | | | | | | | | |
| | | | | Condensate Drainage Connection | | mm | 738 | 838 | 938 | 1038 | 1138 | 1538 |
| | | | | Dimensions | L | | 630 | | | | | |
| | | | | | W | | 296 | | | | | |
| Net Weight | | H | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | |

Cooling mode (2 pipe):

Return air temperature: 24C DB /18C WB.
 Inlet/outlet water temperature: 5.5C /14.5C.

For other High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | | AHS (4R)-[Size]-V-ECM | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|------------------------------------|------------------------------|---------------------------------------|--------------|--------------------------------|--------------|---|------------------------|--------------|--------------|--------------|--------------|------|------|--|
| | | | | | Configuration | | 2-pipe | | | | | | | | |
| | | | | | Number of Fan Blowers | | Three | Four | Three | Four | | | | | |
| | | | | | Power Supply | [V/Ph/Hz] | 230 / 1 / 50 | | | | | | | | |
| | | | | | Operation Control | | S3 Type: Total control version. W3 Type: Flexible control version. | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1734 | 1796 | 2701 | 3027 | 4228 | 5324 | 5880 | | | | |
| | | | M | | 1614 | 1699 | 2571 | 2992 | 3665 | 4616 | 5289 | | | | |
| | | | L | | 1193 | 1466 | 2064 | 2785 | 3142 | 3957 | 4664 | | | | |
| | | Available Pressure | H | Pa | 52 | 55 | 60 | 57 | 60 | 60 | 60 | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | | | L | | 35 | 38 | 43 | 39 | 40 | 40 | 40 | | | | |
| | Cooling | Cooling Capacity | H | 3 | 8.21 | 8.63 | 12.09 | 12.58 | 17.6 | 20.84 | 22.63 | | | | |
| | | | M | | 7.74 | 8.28 | 11.68 | 12.49 | 15.73 | 18.78 | 20.84 | | | | |
| | | | L | | 6.17 | 7.41 | 9.86 | 11.86 | 14.07 | 16.66 | 18.89 | | | | |
| | | Sensible Cooling Capacity | H | 3 | 5.7 | 5.94 | 8.46 | 8.78 | 12.32 | 14.73 | 16.01 | | | | |
| | | | M | | 5.35 | 5.68 | 8.16 | 8.72 | 10.95 | 13.21 | 14.73 | | | | |
| | | | L | | 4.2 | 5.05 | 6.8 | 8.26 | 9.69 | 11.64 | 13.29 | | | | |
| | | Latent Cooling Capacity | H | 3 | 2.51 | 2.69 | 3.63 | 3.8 | 5.28 | 6.11 | 6.62 | | | | |
| | | | M | | 2.39 | 2.6 | 3.52 | 3.77 | 4.78 | 5.57 | 6.11 | | | | |
| | | | L | | 1.97 | 2.36 | 3.06 | 3.6 | 4.38 | 5.02 | 5.6 | | | | |
| | | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | |
| | | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | |
| | Sound Power Level (Inlet+Radiated) | | 67 / 65 / 61 | 69 / 66 / 63 | | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | | | |
| | Electrical | Fan Motor Power (1) | H | W | 205 | 224 | 363 | 380 | 520 | 672 | 728 | | | | |
| | | | M | | 174 | 190 | 286 | 310 | 400 | 546 | 630 | | | | |
| | | | L | | 121 | 113 | 170 | 190 | 250 | 280 | 330 | | | | |
| | | Fan Motor Running Current @H | | A | 1.78 | 1.95 | 3.16 | 3.30 | 4.5 | 5.84 | 6.33 | | | | |
| | Hydronic | Cooling Water Flow Rate | 3 | L/h | 782 | 822 | 1152 | 1198 | 1676 | 1984 | 2155 | | | | |
| | | | 2 | | 737 | 789 | 1112 | 1189 | 1498 | 1789 | 1984 | | | | |
| | | | 1 | | 588 | 706 | 939 | 1130 | 1340 | 1587 | 1799 | | | | |
| | | Cooling Pressure Drop | 3 | kPa | 24.23 | 28.01 | 19.45 | 22.66 | 14.27 | 19.01 | 21.87 | | | | |
| | | | 2 | | 21.89 | 26.13 | 18.34 | 22.39 | 11.78 | 15.93 | 19.01 | | | | |
| | | | 1 | | 14.92 | 21.61 | 13.76 | 20.51 | 9.75 | 13 | 16.08 | | | | |
| | | Water Content | | L | 2.76 | 2.96 | 3.45 | 3.79 | 5.37 | 5.37 | 5.37 | | | | |
| CONSTRUCTION AND PACKING DATA | | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | |
| | | | | | | In | in. | 3/4" | | | | 1-1/4" | | | |
| | | | | | Out | | | | | | | | | | |
| | | | | | Condensate Drainage Connection | | mm | | | | | | | 3/4" | |
| | | | | | Dimensions | L | | 1638 | 1738 | 1638 | 1848 | 1848 | | | |
| | | | | | | W | | 630 | | 720 | | 780 | | | |
| H | 296 | | 350 | | | 400 | | | | | | | | | |
| Net Weight | | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | | | | |

Cooling mode (2 pipe):

Return air temperature: 24C DB /18C WB.
 Inlet/outlet water temperature: 5.5C /14.5C.

For other High ΔT Condition Requirements, please refer to Sonkor Selection Software.

(1): Fan motor power includes PCB power input.



AHS ECM ECO L/M-STAT SERIES FAN COILS

Technical Specifications (Eurovent Standards)

AHS(3R+1)-P-ECM Hydronic Ducted Unit 3+1 row coil, 4 pipe with EC Motor With Auxiliary Heating Coil (1Row)

| UNIT CONFIGURATION | | | | AHS (3R+1)-[Size]-P-ECM | | | 200 | 300 | 400 | 500 | 600 | 800 | | |
|-------------------------------|-------------------------|---------------------------------------|-----|--------------------------------|--------------|--------------|---|--------------|--------------|--------------|------|------|-------|--|
| | | | | Configuration | | | 4-pipe | | | | | | | |
| | | | | Number of Fan Blowers | | | Single | | Twin | | | | Three | |
| | | | | Power Supply | | V/Ph/Hz | 230 / 1 / 50 | | | | | | | |
| | | | | Operation Control | | | S3 Type: Total control version. W3 Type: Flexible control version. | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 511 | 669 | 842 | 912 | 1034 | 1557 | | | | |
| | | | M | | 449 | 588 | 797 | 847 | 1077 | 1392 | | | | |
| | | | L | | 415 | 530 | 719 | 726 | 833 | 1289 | | | | |
| | | Available Pressure | H | Pa | 58 | 54 | 59 | 55 | 62 | 56 | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | Cooling | Cooling Capacity | H | kW | 3.04 | 3.82 | 4.59 | 5.13 | 5.65 | 9.28 | | | | |
| | | | M | | 2.74 | 3.46 | 4.4 | 4.83 | 5.8 | 8.51 | | | | |
| | | | L | | 2.58 | 3.19 | 4.06 | 4.31 | 4.77 | 8.01 | | | | |
| | | Sensible Cooling Capacity | H | | 2.2 | 2.74 | 3.34 | 3.69 | 4.01 | 6.65 | | | | |
| | | | M | | 1.97 | 2.47 | 3.2 | 3.45 | 4.12 | 6.08 | | | | |
| | | | L | | 1.85 | 2.27 | 2.94 | 3.05 | 3.36 | 5.68 | | | | |
| | | Latent Cooling Capacity | H | | 0.84 | 1.08 | 1.25 | 1.44 | 1.64 | 2.63 | | | | |
| | | | M | | 0.77 | 0.99 | 1.2 | 1.38 | 1.68 | 2.43 | | | | |
| | | | L | | 0.73 | 0.92 | 1.12 | 1.26 | 1.41 | 2.33 | | | | |
| | FCEER | Rating | | | 81.7 | 84.9 | 94.5 | 79.0 | 72.6 | 81.8 | | | | |
| | | Class | | | B | B | A | B | B | B | | | | |
| | Heating | Heating Capacity | H | kW | 2.15 | 2.78 | 3.42 | 3.75 | 4.2 | 6.33 | | | | |
| | | | M | | 1.94 | 2.5 | 3.28 | 3.57 | 4.3 | 5.83 | | | | |
| | | | L | | 1.84 | 2.32 | 3.05 | 3.14 | 3.54 | 5.51 | | | | |
| | | Max. Elec. Heater Capacity | | | 2 | 3 | 4 | 5 | 6 | | | | | |
| | FCCOP | Rating | | | 59.5 | 63.6 | 73.0 | 58.7 | 54.3 | 57.6 | | | | |
| | | Class | | | C | B | B | C | C | C | | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 48 / 47 / 43 | 50 / 49 / 46 | 52 / 50 / 44 | 52 / 51 / 46 | 54 / 52 / 49 | 53 / 52 / 47 | | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 50 / 49 / 45 | 52 / 51 / 48 | 54 / 52 / 46 | 54 / 53 / 48 | 56 / 54 / 51 | 55 / 54 / 49 | | | | |
| | | Sound Power Level (outlet) | | | 57 / 56 / 52 | 59 / 58 / 55 | 61 / 59 / 53 | 61 / 60 / 55 | 63 / 61 / 58 | 62 / 61 / 56 | | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 59 / 58 / 54 | 61 / 60 / 57 | 63 / 61 / 55 | 63 / 62 / 57 | 65 / 63 / 60 | 64 / 63 / 58 | | | | |
| | Electrical | Fan Motor Power (I) | H | W | 53 | 63 | 83 | 96 | 102 | 150 | | | | |
| | | | M | | 43 | 52 | 58 | 68 | 84 | 128 | | | | |
| | | | L | | 26 | 31 | 35 | 49 | 62 | 84 | | | | |
| | | Fan Motor Running Current @H | | | A | 0.46 | 0.55 | 0.72 | 0.83 | 0.89 | 1.30 | | | |
| Hydronic | Cooling Water Flow Rate | 3 | L/h | 521 | 656 | 786 | 880 | 968 | 1590 | | | | | |
| | | 2 | | 469 | 593 | 755 | 828 | 993 | 1460 | | | | | |
| | | 1 | | 442 | 547 | 697 | 739 | 818 | 1373 | | | | | |
| | Cooling Pressure Drop | 3 | kPa | 27 | 44.83 | 22.53 | 30.04 | 38.82 | 54.95 | | | | | |
| | | 2 | | 22.5 | 37.84 | 21.01 | 27.06 | 40.59 | 47.5 | | | | | |
| | | 1 | | 20.4 | 32.93 | 18.34 | 22.33 | 29.16 | 42.78 | | | | | |
| | Heating Water Flow Rate | 3 | L/h | 184 | 238 | 293 | 322 | 360 | 542 | | | | | |
| | | 2 | | 166 | 214 | 281 | 306 | 369 | 500 | | | | | |
| | | 1 | | 157 | 199 | 261 | 269 | 304 | 473 | | | | | |
| | Heating Pressure Drop | 3 | kPa | 7.68 | 13.65 | 22.14 | 29.22 | 5.62 | 15.44 | | | | | |
| | | 2 | | 6.47 | 11.44 | 20.62 | 26.78 | 5.86 | 13.43 | | | | | |
| | | 1 | | 5.9 | 10.06 | 18.18 | 21.58 | 4.21 | 12.22 | | | | | |
| | Cooling Water Content | | | L | 0.72 | 0.87 | 1.02 | 1.17 | 1.32 | 1.92 | | | | |
| | Heating Water Content | | | | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 | 0.64 | | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | |
| | | | | | In | in. | 3/4" | | | | | | | |
| | | | | Out | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | | | | | | | | |
| | | | | Dimensions | L | mm | 738 | 838 | 938 | 1038 | 1138 | 1538 | | |
| | | | | | W | | 630 | | | | | | | |
| | | | | | H | | 296 | | | | | | | |
| Net Weight | | | kg | 17 | 24 | 27 | 30 | 33 | 39 | | | | | |

Cooling mode (4 pipe):

Return air temperature: 27C DB/19C WB.
 Inlet/outlet water temperature: 7C/12C.

Heating mode (4 pipe):

Return air temperature: 20C.
 Inlet/outlet water temperature: 65C/55C.

For High ΔT Condition Requirements, please refer to Sonkor Selection Software.

[1]: Fan motor power includes PCB power input.

| UNIT CONFIGURATION | | | | AHS (3R+1)-[Size]-P-ECM | | | 1000 | 1200 | 1400 | 1600 | 2000 | 2400 | 2800 | | |
|-------------------------------|-------------------------|---------------------------------------|--------|--------------------------------|--------------|--------------|--|--------------|--------------|--------------|--------------|------|------|--|--|
| | | | | Configuration | | | 4-pipe | | | | | | | | |
| | | | | Number of Fan Blowers | | | Three | Four | Three | Four | | | | | |
| | | | | Power Supply | | V/Ph/Hz | 230 / 1 / 50 | | | | | | | | |
| | | | | Operation Control | | | S3 Type: Total control version. W3 Type: Flexible control function. | | | | | | | | |
| PERFORMANCE DATA | Air | Air Flow | H | m3/h | 1734 | 1796 | 2701 | 3027 | 4228 | 5324 | 5880 | | | | |
| | | | M | | 1614 | 1699 | 2571 | 2992 | 3665 | 4616 | 5289 | | | | |
| | | | L | | 1193 | 1466 | 2064 | 2785 | 3142 | 3957 | 4664 | | | | |
| | | Available Pressure | H | Pa | 52 | 55 | 60 | 57 | 60 | 60 | 60 | | | | |
| | | | M | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| | Cooling | Cooling Capacity | H | kW | 9.23 | 9.75 | 14.14 | 14.85 | 20.68 | 24.48 | 26.59 | | | | |
| | | | M | | 8.74 | 9.35 | 13.65 | 14.74 | 18.48 | 22.06 | 24.48 | | | | |
| | | | L | | 6.97 | 8.35 | 11.57 | 13.94 | 16.53 | 19.58 | 22.19 | | | | |
| | | Sensible Cooling Capacity | H | | 6.7 | 7.01 | 10.21 | 10.62 | 14.97 | 17.9 | 19.45 | | | | |
| | | | M | | 6.31 | 6.7 | 9.84 | 10.53 | 13.31 | 16.05 | 17.9 | | | | |
| | | | L | | 4.97 | 5.95 | 8.23 | 9.89 | 11.78 | 14.14 | 16.15 | | | | |
| | | Latent Cooling Capacity | H | | 2.53 | 2.74 | 3.93 | 4.23 | 5.71 | 6.58 | 7.14 | | | | |
| | | | M | | 2.43 | 2.65 | 3.81 | 4.21 | 5.17 | 6.01 | 6.58 | | | | |
| | | | L | | 2 | 2.4 | 3.34 | 4.05 | 4.75 | 5.44 | 6.04 | | | | |
| | FCEER | Rating | | | 54.0 | 61.6 | 57.5 | 60.4 | 56.2 | 54.2 | 52.5 | | | | |
| | | Class | | | C | B | C | B | C | C | C | | | | |
| | Heating | Heating Capacity | H | kW | 6.96 | 7.31 | 10.1 | 11.29 | 15.98 | 18.92 | 20.65 | | | | |
| | | | M | | 6.6 | 6.96 | 9.72 | 11.21 | 14.28 | 17.05 | 18.92 | | | | |
| | | | L | | 5.22 | 6.24 | 8.19 | 10.6 | 12.78 | 15.13 | 17.15 | | | | |
| | | Max. Elec. Heater Capacity | | | 6 | | | | 9 | | | | | | |
| | | FCCOP | Rating | | | 40.9 | 47.3 | 41.8 | 47.4 | 44.5 | 43.6 | 42.2 | | | |
| | Class | | | C | C | C | C | C | C | C | | | | | |
| | Sound | Sound Pressure Level (outlet) | | dB(A) | 56 / 54 / 50 | 58 / 55 / 52 | 58 / 54 / 50 | 59 / 57 / 55 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | | |
| | | Sound Pressure Level (Inlet+Radiated) | | | 58 / 56 / 52 | 60 / 57 / 54 | 60 / 56 / 52 | 61 / 59 / 57 | 63 / 61 / 59 | 65 / 63 / 60 | 67 / 64 / 62 | | | | |
| | | Sound Power Level (outlet) | | | 65 / 63 / 59 | 67 / 64 / 61 | 67 / 63 / 59 | 68 / 66 / 64 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | | |
| | | Sound Power Level (Inlet+Radiated) | | | 67 / 65 / 61 | 69 / 66 / 63 | 69 / 65 / 61 | 70 / 68 / 66 | 72 / 70 / 68 | 74 / 72 / 69 | 76 / 73 / 71 | | | | |
| | Electrical | Fan Motor Power (1) | H | W | 205 | 224 | 363 | 380 | 520 | 672 | 728 | | | | |
| | | | M | | 174 | 190 | 286 | 310 | 400 | 546 | 630 | | | | |
| | | | L | | 121 | 113 | 170 | 190 | 250 | 280 | 330 | | | | |
| | | Fan Motor Running Current @H | | | A | 1.78 | 1.95 | 3.16 | 3.30 | 4.5 | 5.84 | 6.33 | | | |
| Hydronic | Cooling Water Flow Rate | 3 | L/h | 1581 | 1671 | 2424 | 2546 | 3545 | 4196 | 4558 | | | | | |
| | | 2 | | 1498 | 1603 | 2339 | 2526 | 3167 | 3783 | 4196 | | | | | |
| | | 1 | | 1194 | 1431 | 1983 | 2389 | 2834 | 3356 | 3804 | | | | | |
| | Cooling Pressure Drop | 3 | kPa | 19.12 | 22.3 | 50.08 | 59.2 | 36.93 | 49.19 | 56.6 | | | | | |
| | | 2 | | 17.45 | 20.77 | 47.16 | 58.43 | 30.49 | 41.23 | 49.19 | | | | | |
| | | 1 | | 11.87 | 17.14 | 35.6 | 53.15 | 25.24 | 33.65 | 41.62 | | | | | |
| | Heating Water Flow Rate | 3 | L/h | 596 | 627 | 866 | 968 | 1370 | 1622 | 1770 | | | | | |
| | | 2 | | 566 | 597 | 833 | 961 | 1224 | 1462 | 1622 | | | | | |
| | | 1 | | 448 | 535 | 702 | 909 | 1095 | 1297 | 1470 | | | | | |
| | Heating Pressure Drop | 3 | kPa | 19.71 | 23.05 | 3.71 | 4.9 | 13.25 | 17.65 | 20.48 | | | | | |
| | | 2 | | 18.04 | 21.21 | 3.47 | 4.83 | 10.94 | 14.79 | 17.65 | | | | | |
| | | 1 | | 12.11 | 17.61 | 2.6 | 4.4 | 9.06 | 12.07 | 14.94 | | | | | |
| Cooling Water Content | | L | 2.07 | 2.22 | 2.59 | 2.84 | 4.032 | 4.032 | 4.032 | | | | | | |
| Heating Water Content | | | 0.69 | 0.74 | 0.86 | 0.95 | 1.34 | 1.34 | 1.34 | | | | | | |
| CONSTRUCTION AND PACKING DATA | | | | Water Connections | Type | | Socket Threaded Female | | | | | | | | |
| | | | | | In | in. | 3/4" | | | | 1-1/4" | | | | |
| | | | | | Out | | | | | | | | | | |
| | | | | Condensate Drainage Connection | | | 3/4" | | | | | | | | |
| | | | | Dimensions | L | mm | 1638 | 1738 | 1638 | 1848 | 1848 | | | | |
| | | | | | W | | 630 | | 720 | | 780 | | | | |
| | | | | | H | | 296 | | 350 | | 400 | | | | |
| Net Weight | | | kg | 46 | 48 | 56 | 61 | 75 | 76 | 78 | | | | | |

L/M-STAT
SERIES
FAN COILS

MODEL AHSS
MODEL AHSD
MODEL AHSS-ECM
MODEL AHSD-ECM

Product Accessories

CONTROL ACCESSORIES



INFRA-RED HANDSET CONTROLLER + WALL HOLDER

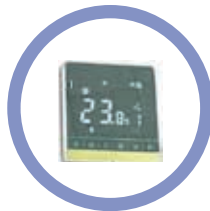
(AVAILABLE ONLY FOR TOTAL CONTROL BOARD)

With Global Control functionality for Main and Secondary Unit groups.



ABS EXTERNAL LED RECEIVER

IR receiver in ABS housing with 70 inches length prewiring, which can be connected with S Type controls only. LED lights show working mode or error code.



UNLIMITED WIRED WALL PAD CONTROLLER

(AVAILABLE ONLY FOR TOTAL CONTROL BOARD)

Features: 7 day ON/OFF timer program. Addressable Main and Secondary units allowing control of up to 32 Secondary units via a single Main Unit with set or check of each unit parameters individually. Error display with addressable error diagnostic (Main unit Wall Pad displays Secondary unit address and error type). One Touch Global Control (Global Control Main Unit Wall Pad controls all units in the group). Onboard Room Air Temperature Sensor.



DIP SWITCH CONFIGURATION SERVICE

Preset Dip switch configuration for addressing Main Unit to Secondary Units. Dip Switch configuration labelled with carton tag.



UNIVERSAL EC THERMOSTAT

(FOR FLEXI CONTROL BOARD)

Main functions: 2-pipe, 4-pipe, 2-pipe +floor heating mode, floor heating, cooling. AC/EC motor 3-speed control. Motorized valve control. 0~10 VDC Modulating valve. EC motor RPM control. Low temperature protection. Remote ON/OFF function. Cooling and heating contact. Modbus protocol. Power supply: 24 Vac or VDC. Working environment: 0~50°C, 5~95%RH (no condensate). Self-power consumption: <2W. Protection class: IP30.



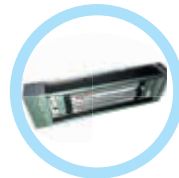
STCD SERIES THERMOSTATS

(FOR FLEXI CONTROL BOARD)

Please visit www.sonkor.com for further information on our STCD thermostat range.

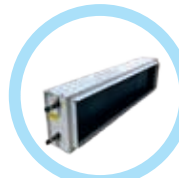


MORE ACCESSORIES



ELECTRICAL HEATERS

The electric heater module is supplied for winter heating as an alternative to the auxiliary hot water coil. We offer a complete range of PTC (Positive Thermal Coefficient) electric heaters kits, easy to connect to control box, with mounting fixture. The electric heater configuration is selectable by DIP switch on the internal control board.



AUXILIARY HEATING COILS

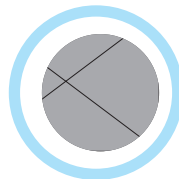
Factory installed heating coil for 4 pipe applications.



VALVES + VALVE KITS

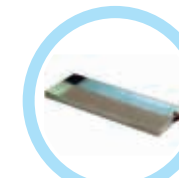
2-way On/Off or 3-way bypass ball valves, 3/4" and 1" size, with motorized or modulating 24VAC actuators.

Stainless Steel Hose and Copper Piping Connection Kits for 2-way and 3-way valve options. Distance between inlet and outlet pipe connections standardized at 40mm (1.6in) for hot water circuit, and 50mm (2in) for cold water circuit.



INSULATION FOR SOUND ATTENUATION

5mm (0.20 inches), 10mm (0.40 inches) or 15mm (0.60 inches) NBR material insulation for sound attenuation.

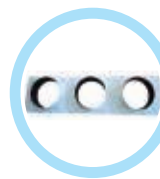


OPTIONAL STAINLESS STEEL DRAIN PAN

PLENUMS

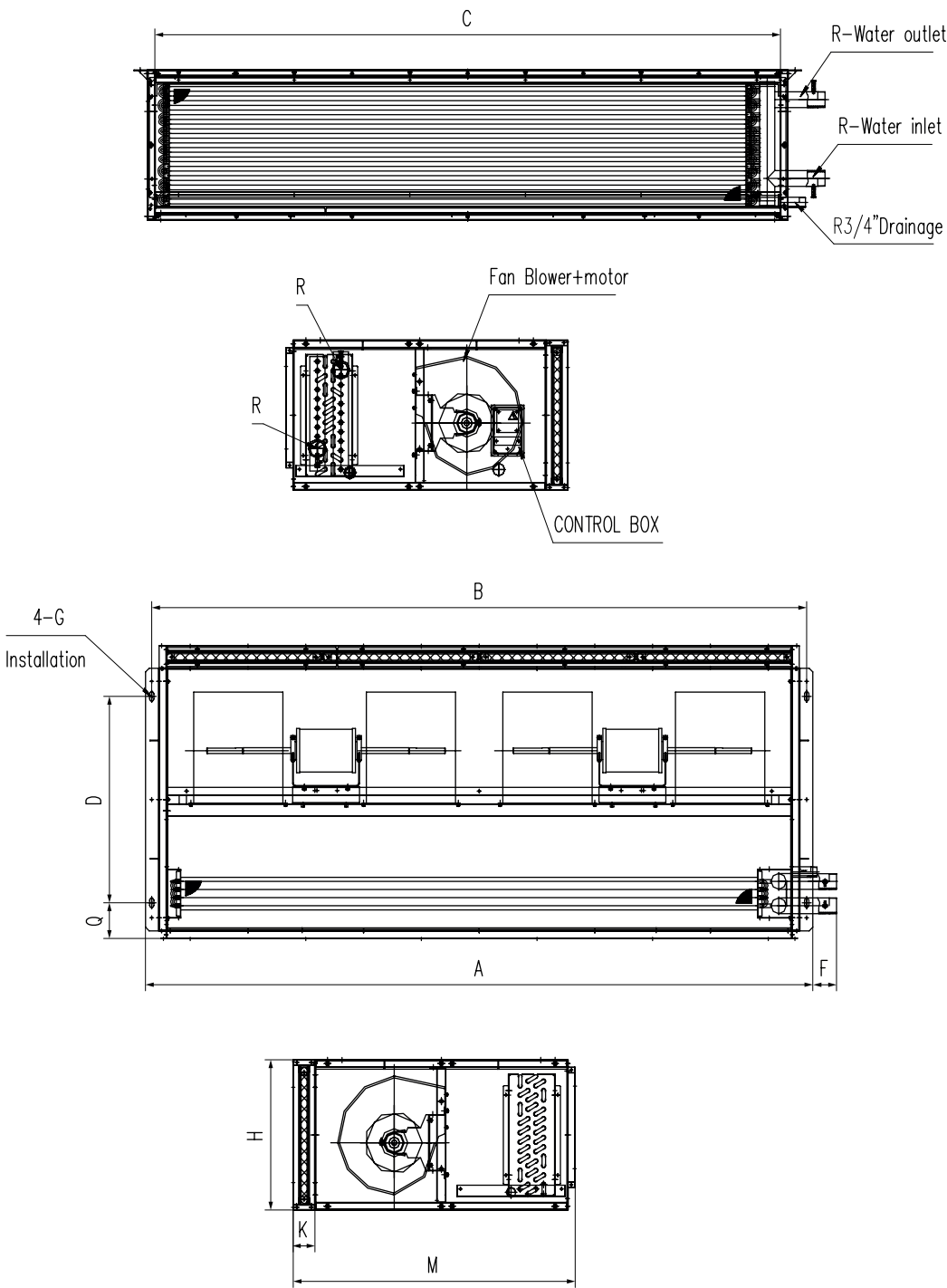


RETURN AIR AND DISCHARGE



DISCHARGE PLENUM WITH CIRCULAR FITTINGS

Dimensional Drawings (mm) AHS (3R) 2 Pipe / AHS (3R+1) 4 Pipe, AC & ECM Models



| Model | Unit Dimensions (mm) | | | | | | | | | |
|----------|----------------------|------|------|-----|----|-----|----|-----|----|--------|
| | A | B | C | D | F | H | K | M | Q | R |
| AHS-200 | 738 | 704 | 623 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-300 | 838 | 804 | 723 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-400 | 938 | 904 | 823 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-500 | 1038 | 1004 | 923 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-600 | 1138 | 1104 | 1023 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-800 | 1538 | 1504 | 1423 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-1000 | 1638 | 1604 | 1523 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-1200 | 1738 | 1704 | 1623 | 400 | 65 | 296 | 60 | 630 | 95 | 3/4" |
| AHS-1400 | 1638 | 1604 | 1523 | 490 | 65 | 350 | 60 | 720 | 95 | 3/4" |
| AHS-1600 | 1848 | 1814 | 1733 | 490 | 65 | 350 | 60 | 720 | 95 | 3/4" |
| AHS-2000 | 1848 | 1814 | 1733 | 550 | 65 | 400 | 60 | 780 | 95 | 1 1/4" |
| AHS-2400 | 1848 | 1814 | 1733 | 550 | 65 | 400 | 60 | 780 | 95 | 1 1/4" |
| AHS-2800 | 1848 | 1814 | 1733 | 550 | 65 | 400 | 60 | 780 | 95 | 1 1/4" |