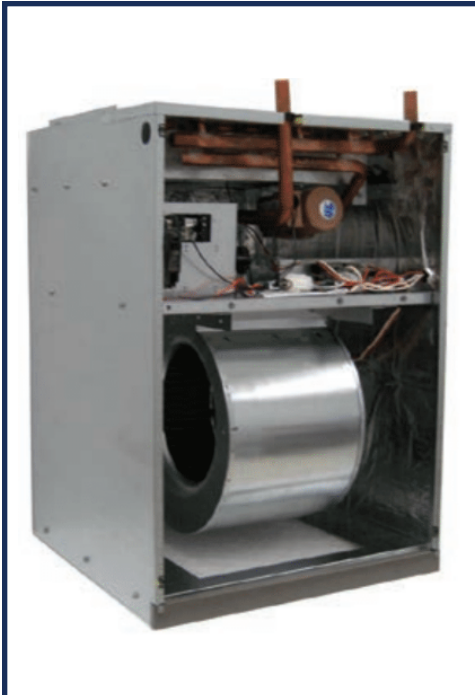


## AFL SERIES HYDRONIC HEAT FURNACE

## MULTI-POSITION



Unit shown with service panels removed.  
Representative image only. Some models  
may vary in appearance.

**APPLICATION VERSATILITY**

Upflow, downflow, horizontal left or horizontal right as shipped.

- A2L refrigerants require a Refrigerant Detection System (RDS) for compliance. In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.
- ETL listed for R22 and R410A. ETL listed for R454B and R32 with Refrigerant Detection System (RDS).

**MOTOR**

X-13 has 5 speed taps, Variable speed available with special wiring. Motors are pre-programmed at the factory.

**MODULAR HYDRONIC HEAT KITS**

Standard Heats kits available with either circuit breakers or terminal blocks and are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option.

**BLOWER**

Direct drive multi-speed blowers circulate air quietly and efficiently and allow for precise air volume selection. Five motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

**CABINET**

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" micro mat non-hygroscopic insulation to prevent sweating, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

**WARRANTY** Five-year limited parts warranty with registration.

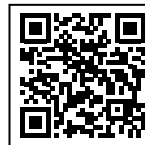
**OPTIONS** See options menu.

AFL-SS-AH-013-A

## HELPFUL LINKS

**VIEW PRODUCT ONLINE**

For full warranty terms and conditions, please refer to the Warranty Information section on Aspen's official website.

**AHRI QUICK MATCH TOOL**

Identify the correct AHRI-certified match for any Aspen coil, air handler, or Aspen PRO air handler. Available on the Resources page.



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| HEATING/COOLING PERFORMANCE & ELECTRICAL DATA |                               |              |              |               |                       |  |       |        |                 |                             |                              |
|---|-------------------------------|--------------|--------------|---------------|-----------------------|--|-------|--------|-----------------|-----------------------------|------------------------------|
| MODEL   | PERFORMANCE DATA              |              |              |               |                       |  |       |        | ELECTRICAL DATA |                             |                              |
|   | HYDRONIC<br>HEAT KIT<br>MODEL | SPEED<br>TAP | HEATING COIL |               | HYDRONIC<br>COIL Δ P. | HEATING @ 3.5 GPM CAPACITY<br>(BTU/HR @ 3.5 GPM) |       |        |                 | MIN.<br>CIRCUIT<br>AMPACITY | MAX. BREAKER<br>OR FUSE SIZE |
|   |                               |              | ROW          | SLAB SIZE     |                       | 120°   | 140°  | 160°   | 180°            |                             |                              |
| AFLS  | WC2SP                         | 2            | 2            | 18X12         | 2.8                   | 17700  | 24900 | 32300  | 39600           | 6.7                         | 15                           |
|   | WC2SP                         | 1            | 2            |               | 2.8                   | 20200  | 28500 | 36900  | 45400           | 6.7                         | 15                           |
|   | WC3SP                         | 2            | 3            |               | 2.1                   | 21600  | 30500 | 39400  | 48400           | 6.7                         | 15                           |
|   | WC3SP                         | 1            | 3            |               | 2.1                   | 25000  | 35300 | 45800  | 56300           | 6.7                         | 15                           |
|   | WC2SR                         | 2            | 2            |               | 5.6                   | 18700  | 26400 | 34100  | 41900           | 8.3                         | 15                           |
|   | WC2SR                         | 1            | 2            |               | 5.6                   | 21600  | 30500 | 39500  | 48500           | 8.3                         | 15                           |
|   | WC3SR                         | 2            | 3            |               | 4.2                   | 22900  | 32300 | 41700  | 51200           | 8.3                         | 15                           |
|   | WC3SR                         | 1            | 3            |               | 4.2                   | 26900  | 38000 | 49100  | 60300           | 8.3                         | 15                           |
| AFLM  | WC2SP                         | 2            | 2            |               | 2.8                   | 22100  | 31300 | 40500  | 49900           | 9.2                         | 20                           |
|   | WC2SP                         | 1            | 2            |               | 2.8                   | 23700  | 33500 | 43500  | 53600           | 9.2                         |                              |
|   | WC3SP                         | 2            | 3            |               | 2.1                   | 27700  | 39100 | 50700  | 62400           | 9.2                         |                              |
|   | WC3SP                         | 1            | 3            |               | 2.1                   | 29800  | 42100 | 54700  | 67300           | 9.2                         |                              |
|   | WC4SP                         | 2            | 4            |               | 1.1                   | 31000  | 43900 | 57000  | 70100           | 9.2                         |                              |
|   | WC4SP                         | 1            | 4            |               | 1.1                   | 33500  | 47400 | 61500  | 75800           | 9.2                         |                              |
|   | WC2SR                         | 2            | 2            |               | 5.6                   | 23900  | 33800 | 43700  | 53800           | 10.8                        |                              |
|   | WC2SR                         | 1            | 2            |               | 5.6                   | 25800  | 36500 | 47300  | 58200           | 10.8                        |                              |
|   | WC3SR                         | 2            | 3            |               | 4.2                   | 30100  | 42500 | 55100  | 67700           | 10.8                        |                              |
|   | WC3SR                         | 1            | 3            |               | 4.2                   | 32800  | 46300 | 60000  | 73700           | 10.8                        |                              |
|   | WC4SR                         | 2            | 4            |               | 2.2                   | 34000  | 48000 | 62300  | 76600           | 10.8                        |                              |
|   | WC4SR                         | 1            | 4            |               | 2.2                   | 37200  | 52600 | 68100  | 83800           | 10.8                        |                              |
| AFL   | WC2LP                         | 3            | 2            | 22X<br>14-1/2 | 3.6                   | 30200  | 42600 | 55300  | 68000           | 14.3                        | 30                           |
|   | WC2LP                         | 2            | 2            |               | 3.6                   | 31700  | 44800 | 58000  | 71400           | 14.3                        |                              |
|   | WC2LP                         | 1            | 2            |               | 3.6                   | 32900  | 46600 | 60400  | 74400           | 14.3                        |                              |
|   | WC3LP                         | 3            | 3            |               | 1.7                   | 36300  | 51400 | 66700  | 76600           | 14.3                        |                              |
|   | WC3LP                         | 2            | 3            |               | 1.7                   | 38200  | 54000 | 70100  | 80600           | 14.3                        |                              |
|   | WC3LP                         | 1            | 3            |               | 1.7                   | 39700  | 56200 | 73000  | 84000           | 14.3                        |                              |
|   | WC4LP                         | 3            | 4            |               | 1.1                   | 43600  | 61600 | 79900  | 92900           | 14.3                        |                              |
|   | WC4LP                         | 2            | 4            |               | 1.1                   | 45900  | 64900 | 84200  | 98000           | 14.3                        |                              |
|   | WC4LP                         | 1            | 4            |               | 1.1                   | 47800  | 67600 | 87700  | 102200          | 14.3                        |                              |
|   | WC2LR                         | 3            | 2            |               | 7.2                   | 33200  | 46800 | 60600  | 74500           | 15.8                        |                              |
|   | WC2LR                         | 2            | 2            |               | 7.2                   | 35000  | 49400 | 64000  | 78700           | 15.8                        |                              |
|   | WC2LR                         | 1            | 2            |               | 7.2                   | 36600  | 51800 | 67100  | 82500           | 15.8                        |                              |
|   | WC3LR                         | 3            | 3            |               | 3.4                   | 40500  | 57300 | 74200  | 84400           | 15.8                        |                              |
|   | WC3LR                         | 2            | 3            |               | 3.4                   | 42900  | 60700 | 78600  | 89500           | 15.8                        |                              |
|   | WC3LR                         | 1            | 3            |               | 3.4                   | 45000  | 63600 | 82500  | 94000           | 15.8                        |                              |
|   | WC4LR                         | 3            | 4            |               | 2.2                   | 49000  | 69300 | 89700  | 103600          | 15.8                        |                              |
|   | WC4LR                         | 2            | 4            |               | 2.2                   | 52200  | 73800 | 95600  | 110400          | 15.8                        |                              |
|   | WC4LR                         | 1            | 4            |               | 2.2                   | 55000  | 77700 | 100800 | 116300          | 15.8                        |                              |

| AIR HANDLER CHASSIS NOMENCLATURE           |   |                |
|--|---|----------------|
| AFL  | CABINET SIZE & NOM. TON.  | OPTION CODE    |
|  | S   | -001           |
| 120V ECM MOTOR LOW BOY<br>HYDRONIC FURNACE | <b>S (SMALL)</b> 18 & 24<br><b>M (MEDIUM)</b> 30 & 36<br><b>L (LARGE)</b> 42, 48 & 60 | OPTION<br>CODE |

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| X-13 BLOWER DATA                 |          |                                    |      |      |      |      |
|----------------------------------|----------|------------------------------------|------|------|------|------|
| MODEL                            | SPEEDTAP | CFM VS EXTERNAL STATIC* (DRY COIL) |      |      |      |      |
|                                  |          | 0.1                                | 0.2  | 0.3  | 0.4  | 0.5  |
| AFLS+<br>WC2SR<br>WC3SR          | T1       | 900                                | 855  | 800  | 740  | 675  |
|                                  | T2       | 670                                | 650  | 615  | 600  | 550  |
|                                  | T3       | 460                                | 445  | 420  | 400  | 385  |
|                                  | T4       | 900                                | 855  | 800  | 740  | 675  |
|                                  | T5       | 350                                | 335  | 315  | 300  | 280  |
| AFLM+<br>WC2SR<br>WC3SR<br>WC4SR | T1       | 1200                               | 1130 | 1085 | 1030 | 985  |
|                                  | T2       | 1140                               | 1090 | 1030 | 975  | 910  |
|                                  | T3       | 905                                | 870  | 835  | 800  | 740  |
|                                  | T4       | 760                                | 730  | 695  | 650  | 605  |
|                                  | T5       | 475                                | 450  | 425  | 400  | 375  |
| AFL+<br>WC2LR<br>WC3LR<br>WC4LR  | T1       | 1875                               | 1800 | 1730 | 1690 | 1625 |
|                                  | T2       | 1705                               | 1660 | 1600 | 1530 | 1480 |
|                                  | T3       | 1495                               | 1460 | 1430 | 1400 | 1365 |
|                                  | T4       | 1340                               | 1295 | 1255 | 1200 | 1140 |
|                                  | T5       | 910                                | 875  | 840  | 800  | 745  |

\*Dry coil with filter in place.

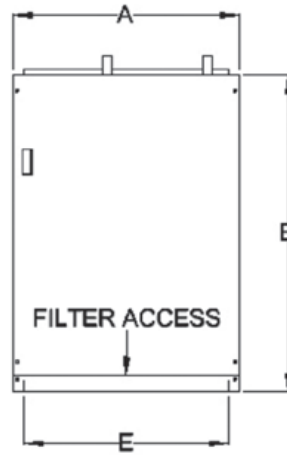
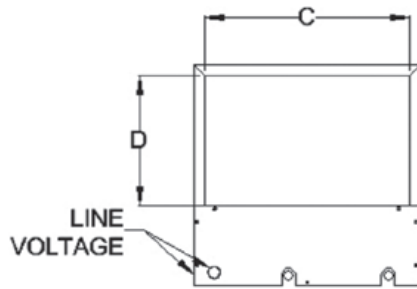
| PHYSICAL DATA             |                      |  |            |            |
|---------------------------|----------------------|--|------------|------------|
| MODEL                     |                      | AFLS   | AFLM       | AFL        |
| TRANSFORMER               |                      | 40 VA, CLASS 2. 120V PRIMARY, 24 V SECONDARY |            |            |
| VOLTAGE                   |                      | 120V - 60Hz                                  |            |            |
| FILTER SIZE               |                      | 16x20x1                                      |            | 20x20x1    |
| BLOWER DATA               | WHEEL (DIA. x WIDTH) | 9 x 6  | 10 x 8     | 12 x 9     |
|                           | MOTOR HP             | 1/3  | 1/2        | 1          |
|                           | MOTOR F.L.A.         | 4.8  | 6.8        | 10.9       |
|                           | FACTORY SPEED TAP    | T1   |            |            |
|                           | NOM. CFM RANGE       | 800 - 300                                    | 1200 - 400 | 1800 - 800 |
| PUMP DATA<br>006 STANDARD | PUMP VOLTAGE         | 115  |            |            |
|                           | PUMP HP              | 1/40   |            |            |
|                           | PUMP AMPS            | .52  |            |            |
| PUMP DATA<br>009 SPECIAL  | PUMP VOLTAGE         | 115  |            |            |
|                           | PUMP HP              | 1/8  |            |            |
|                           | PUMP AMPS            | 1.8  |            |            |

| HYDRONIC HEAT KIT NOMENCLATURE  |   |                         |   |  |
|---------------------------------|---|-------------------------|---|--|
| HEAT KIT SERIES                 | POWER CONNECTION                          | ROWS                    | CABINET SIZE & NOM. TONNAGE                           | PUMP TYPE  |
| W                               | C   | 2                       | S   | P  |
| MULTI-POSITION<br>HYDRONIC HEAT | C = CIRCUIT BREAKER<br>T = TERMINAL BLOCK | 2 = 2<br>3 = 3<br>4 = 4 | S (SMALL)<br>18/24/30/36<br><br>L (LARGE)<br>42/48/60 | L = No Pump<br>P = Standard Taco 006 Pump w/ Check Valve (factory-installed)<br>8 = Taco 008 Pump High Head (factory-installed)<br>R = Taco 009 Pump High Head (to be mounted external to all units except for multi-position units) |

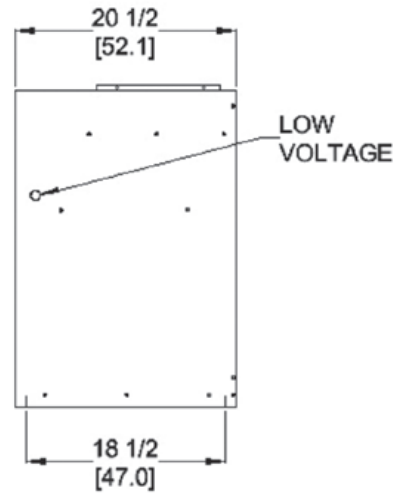
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**FIGURE 1**



| CABINET INSTALLATION CLEARANCES (In.) |           |         |
|---------------------------------------|-----------|---------|
| CLEARANCE AREA                        | OPERATION | SERVICE |
| TOP                                   | 0         | 0       |
| FRONT                                 |           | 30      |
| SIDES                                 |           | 0       |
| REAR                                  |           | 0       |



**DIMENSIONS AND SHIPPING SPECIFICATIONS (In.) - FIGURE 1**

| MODEL | A      | B  | DUCT OPENING |        | BOTTOM OPENING | FILTER | SHIPPING INFO |          |
|-------|--------|----|--------------|--------|----------------|--------|---------------|----------|
|       |        |    | C            | D      | E              |        | WEIGHT        | SKID QTY |
| AFLS  | 21     | 30 | 18-3/4       | 12     | 18-1/2         | 16X20  | 83            | 8        |
| AFLM  | 21     | 30 | 18-3/4       | 12     | 18-1/2         | 16X20  | 85            |          |
| AFLI  | 24-1/2 | 33 | 22-1/4       | 14-1/2 | 22-1/4         | 20X20  | 110           |          |

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