

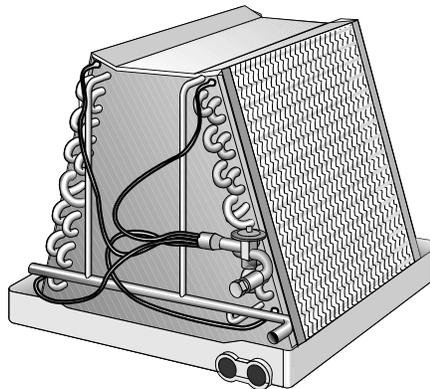
**UNCASED AND FULL CASED UP-FLOW  
EVAPORATOR COILS**

**C26**

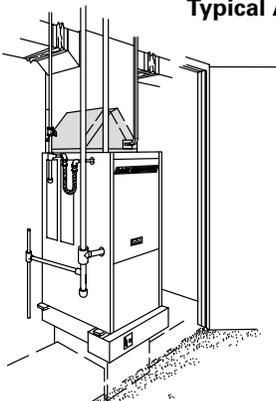
**AIR-CONDITIONING AND HEAT PUMP**

**2 To 5 Ton (7.0 To 17.6 kW) Nominal Size (Coil/Furnace Match-Up Charts)**

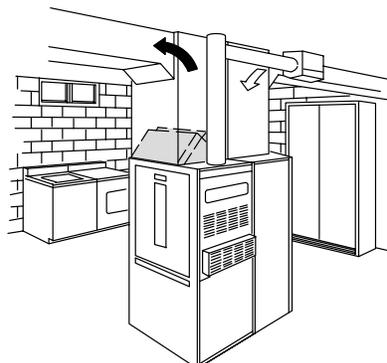
Bulletin #210061  
November 1997  
Supersedes January 1997



**Typical Applications**



Closest Installation  
With Pulse21<sup>®</sup> Furnace  
and Electronic Air Cleaner



Utility Room Installation  
With G20E Whisperheat<sup>™</sup> Furnace  
and Humidifier

**Applications**

- Lennox designed evaporator coils install with most Lennox up-flow furnaces.
- Applicable to expansion valve systems.
- C26-41 and C26-51/65 available in both standard and narrow (N) widths.
- See condensing units bulletins (section Cooling Units – Condensing Units) for evaporator unit applications and cooling capacities.
- See heat pump outdoor units bulletins (section Heat Pump – Matched Remote Systems) for indoor coil applications and cooling and heating capacities.
- See FM21 bulletin in Heat Pumps – Matched Remote Systems for more information about heat pump systems.
- C26-65EAP coil features extended air performance.

**Coil/Furnace Match-Up Charts**

- See bulletin 210163 indexed at the front of this tab section for complete coil to furnace match-up information.

**Coil Construction**

- Durable copper tubing.
- Ripple-edged aluminum fins.
- Lanced fins provide maximum exposure of fin surface to air stream.
- Rifled tubing provides superior refrigerant heat transfer.
- Twin coil construction assembled in a "A" configuration for large surface area.
- Non-corrosive polymer drain pan with dual fpt drain connections.
- Access port allows inspection of coil interior without coil removal.
- Sweat connections on both liquid and suction lines.
- High pressure testing insures leakproof construction.

**Cabinet Construction – Full Cased (FC) Coils**

- Cabinets insulated with thick fiberglass insulation.
- Constructed of heavy gauge steel with deluxe paint finish.
- Flanges provided in outlet opening of cabinet for ease of plenum connection.
- Slots on cabinet bottom provide furnace alignment.
- See dimension drawing.

**Check and Expansion Valve Furnished**

- Factory installed on all models.

**Fully Tested**

- Tested with matching condensing and heat pump units.
- Rated in accordance with ARI Standard 210/240 conditions and DOE test procedures.
- Air resistance tests from Lennox Laboratory air test chamber.

**OPTIONAL ACCESSORIES (Must Be Ordered Extra)**

**Adjustable Coil Adaptor/Seal – (Optional for Uncased Coils)**

- Telescoping adaptor provides quick and easy installation in wide variety of applications.
- See dimension drawings and application drawings.
- Available in single (81J46) or ten pack (11L09) kits.

## SPECIFICATIONS

| Model No.   |   | C26-21<br>C26-21FC              | C26-26<br>C26-26FC | C26-26W<br>C26-26WFC | C26-31<br>C26-31FC | C26-31W<br>C26-31WFC |
|---|---|---------------------------------|--------------------|----------------------|--------------------|----------------------|
| Evaporator<br>Coil                                  | Net face area — sq. ft. (m <sup>2</sup> ) | 3.11 (0.29)                     |                    | 4.0 (0.37)           |                    |                      |
|   | Tube diameter — in. (mm)                  | 3/8 (9.5)                       |                    |                      |                    |                      |
|   | No. of rows                               | 2                               |                    |                      | 3                  |                      |
|   | Fins per inch (m)                         | 15 (590)                        |                    |                      | 12 (472)           |                      |
| Suction (vapor) line connection — in. (mm) sweat    |   | 5/8 (15.9)                      |                    |                      | 3/4 (19)           |                      |
| Liquid line connection — in. (mm) sweat             |   | 3/8 (9.5)                       |                    |                      |                    |                      |
| Condensate drain (fpt) — in. (mm)                   |   | (2) 3/4 (19)                    |                    |                      |                    |                      |
| Refrigerant   |   | HCFC-22                         |                    |                      |                    |                      |
| Coil shipping weight<br>lbs. (kg) 1 package         | Uncased coil                              | 31 (14)                         | 32 (15)            | 36 (16)              | 42 (19)            | 46 (21)              |
|   | Full Cased coil                           | 39 (18)                         | 45 (20)            | 49 (22)              | 52 (24)            | 56 (25)              |
| <b>Optional Accessories – Must Be Ordered Extra</b> |   |                                 |                    |                      |                    |                      |
| Adjustable Coil Adaptor/Seal (for Uncased Coils)    |   | Single (81J46) Ten Pack (11L09) |                    |                      |                    |                      |

| Model No.   |   | C26-41<br>C26-41FC              | C26-41N<br>C26-41NFC | C26-46<br>C26-46FC | C26-51/65N<br>C26-51/65NFC | C26-51/65<br>C26-51/65FC | C26-65EAP<br>C26-65FCEAP |
|---|---|---------------------------------|----------------------|--------------------|----------------------------|--------------------------|--------------------------|
| Evaporator<br>Coil                                  | Net face area — sq. ft. (m <sup>2</sup> ) | 4.44 (0.41)                     |                      | 5.25 (0.49)        | 6.50 (0.60)                | 6.42 (0.60)              | 7.58 (0.70)              |
|   | Tube diameter — in. (mm)                  | 3/8 (9.5)                       |                      |                    |                            |                          |                          |
|   | No. of rows                               | 3                               |                      |                    |                            |                          |                          |
|   | Fins per inch (m)                         | 12 (472)                        |                      |                    |                            |                          |                          |
| Suction (vapor) line connection — in. (mm) sweat    |   | 3/4 (19)                        |                      | 7/8 (22.2)         |                            | 1-1/8 (28.6)             |                          |
| Liquid line connection — in. (mm) sweat             |   | 3/8 (9.5)                       |                      |                    |                            |                          |                          |
| Condensate drain (fpt) — in. (mm)                   |   | (2) 3/4 (19)                    |                      |                    |                            |                          |                          |
| Refrigerant   |   | HCFC-22                         |                      |                    |                            |                          |                          |
| Coil shipping weight<br>lbs. (kg) 1 package         | Uncased coil                              | 43 (20)                         | 41 (19)              | 50 (23)            | 54 (25)                    | 59 (27)                  | 62 (28)                  |
|   | Full Cased coil                           | 65 (29)                         | 58 (26)              | 69 (31)            | 80 (36)                    | 86 (39)                  | 97 (44)                  |
| <b>Optional Accessories – Must Be Ordered Extra</b> |   |                                 |                      |                    |                            |                          |                          |
| Adjustable Coil Adaptor/Seal (for Uncased Coils)    |   | Single (81J46) Ten Pack (11L09) |                      |                    |                            |                          |                          |

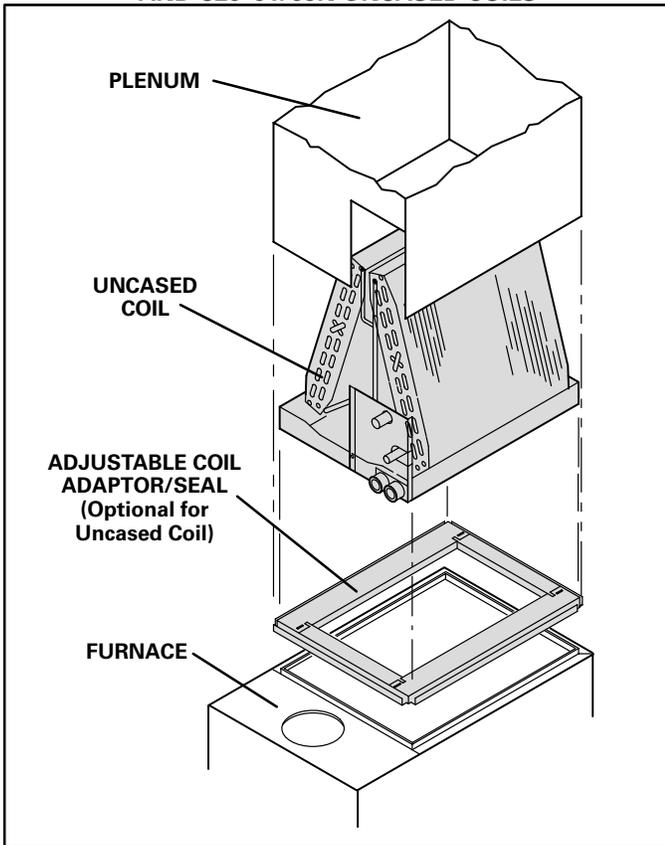
## AIR RESISTANCE

| Model No.                 | Air Volume |     | Total Resistance |     |
|---------------------------|------------|-----|------------------|-----|
|                           | cfm        | L/s | in. w.g.         | Pa  |
| C26-21(FC)                | 300        | 140 | .03              | 7   |
|                           | 400        | 190 | .05              | 12  |
|                           | 600        | 285 | .10              | 25  |
|                           | 700        | 330 | .13              | 32  |
| C26-26(FC)<br>C26-26W(FC) | 400        | 190 | .04              | 10  |
|                           | 600        | 285 | .08              | 20  |
|                           | 800        | 380 | .13              | 32  |
|                           | 1000       | 470 | .20              | 50  |
| C26-31(FC)<br>C26-31W(FC) | 1200       | 570 | .27              | 67  |
|                           | 600        | 285 | .09              | 22  |
|                           | 800        | 380 | .16              | 40  |
|                           | 1000       | 470 | .24              | 60  |
| C26-41(FC)                | 1200       | 570 | .34              | 85  |
|                           | 1400       | 660 | .44              | 109 |
|                           | 800        | 380 | .10              | 25  |
|                           | 1000       | 470 | .15              | 37  |
| C26-41(FC)                | 1200       | 570 | .21              | 52  |
|                           | 1400       | 660 | .28              | 70  |
|                           | 1600       | 760 | .36              | 90  |

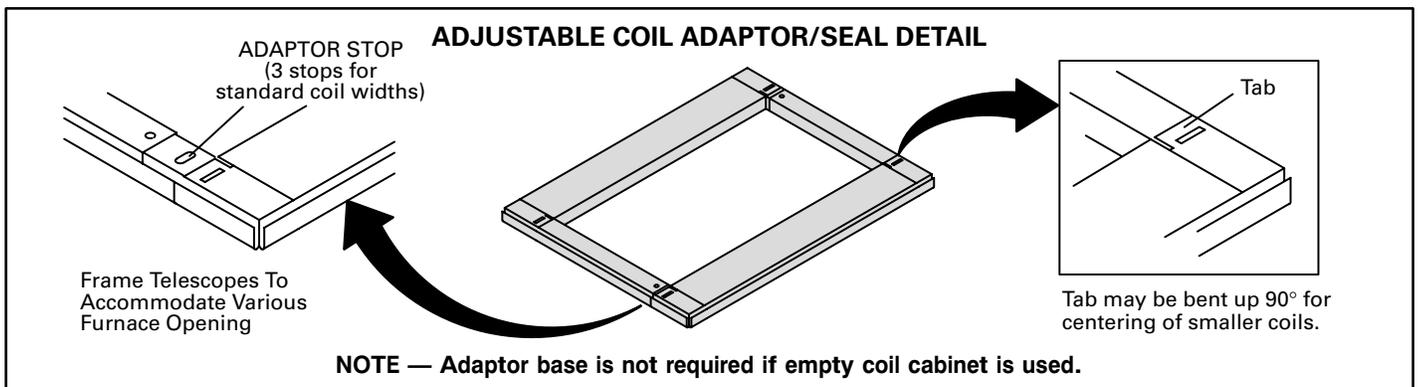
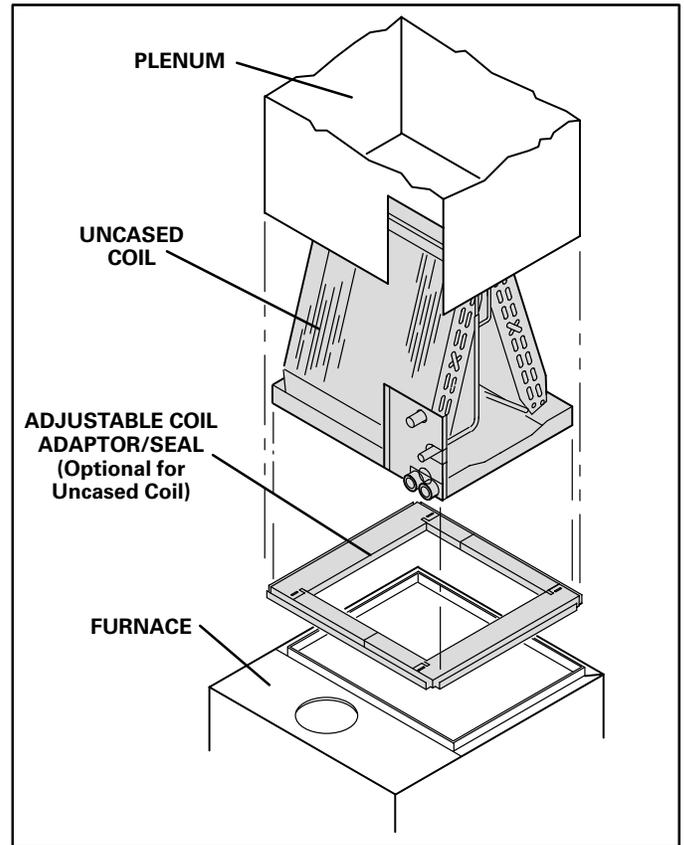
| Model No.      | Air Volume |      | Total Resistance |     |
|----------------|------------|------|------------------|-----|
|                | cfm        | L/s  | in. w.g.         | Pa  |
| C26-41N(FC)    | 800        | 380  | .12              | 30  |
|                | 1000       | 470  | .19              | 47  |
|                | 1200       | 570  | .28              | 70  |
|                | 1400       | 660  | .38              | 95  |
|                | 1600       | 760  | .49              | 122 |
| C26-46(FC)     | 1000       | 470  | .16              | 40  |
|                | 1200       | 570  | .20              | 50  |
|                | 1400       | 660  | .24              | 60  |
|                | 1600       | 760  | .28              | 70  |
| C26-51/65N(FC) | 1800       | 850  | .32              | 80  |
|                | 1200       | 570  | .10              | 25  |
|                | 1400       | 660  | .14              | 35  |
|                | 1600       | 760  | .19              | 47  |
| C26-51/65(FC)  | 1800       | 850  | .24              | 60  |
|                | 2000       | 940  | .29              | 72  |
|                | 1200       | 570  | .14              | 35  |
|                | 1400       | 660  | .18              | 45  |
| C26-65(FC)EAP  | 1600       | 760  | .23              | 57  |
|                | 1800       | 850  | .27              | 67  |
|                | 2000       | 940  | .32              | 80  |
|                | 1600       | 760  | .15              | 37  |
| C26-65(FC)EAP  | 1800       | 850  | .18              | 45  |
|                | 2000       | 940  | .22              | 55  |
|                | 2200       | 1040 | .26              | 65  |
|                | 2400       | 1130 | .31              | 77  |

**ADJUSTABLE COIL ADAPTOR/SEAL TYPICAL APPLICATIONS**

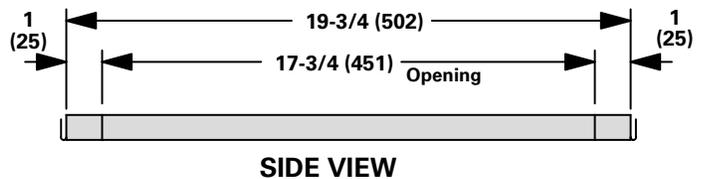
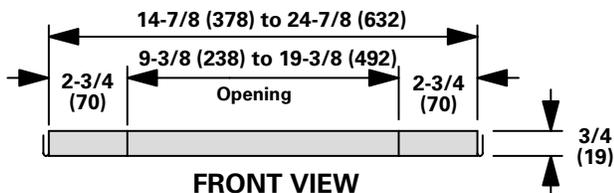
**C26-21, C26-26(W), C26-31(W), C26-41(N)  
AND C26-51/65N UNCASSED COILS**



**C26-46, C26-51/65 AND C26-65EAP UNCASSED COILS**



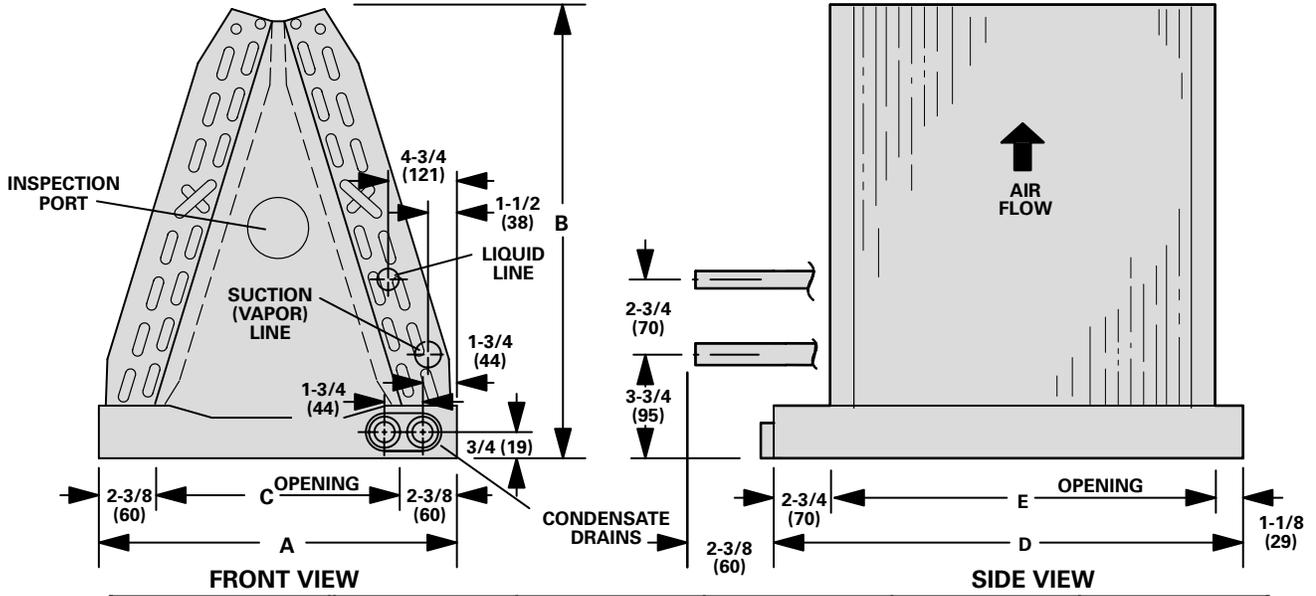
**ADJUSTABLE COIL ADAPTOR/SEAL DIMENSIONS — inches (mm)  
(Optional for C26 Uncased Coil)**



**UNCASED COIL DIMENSIONS – inches (mm)**

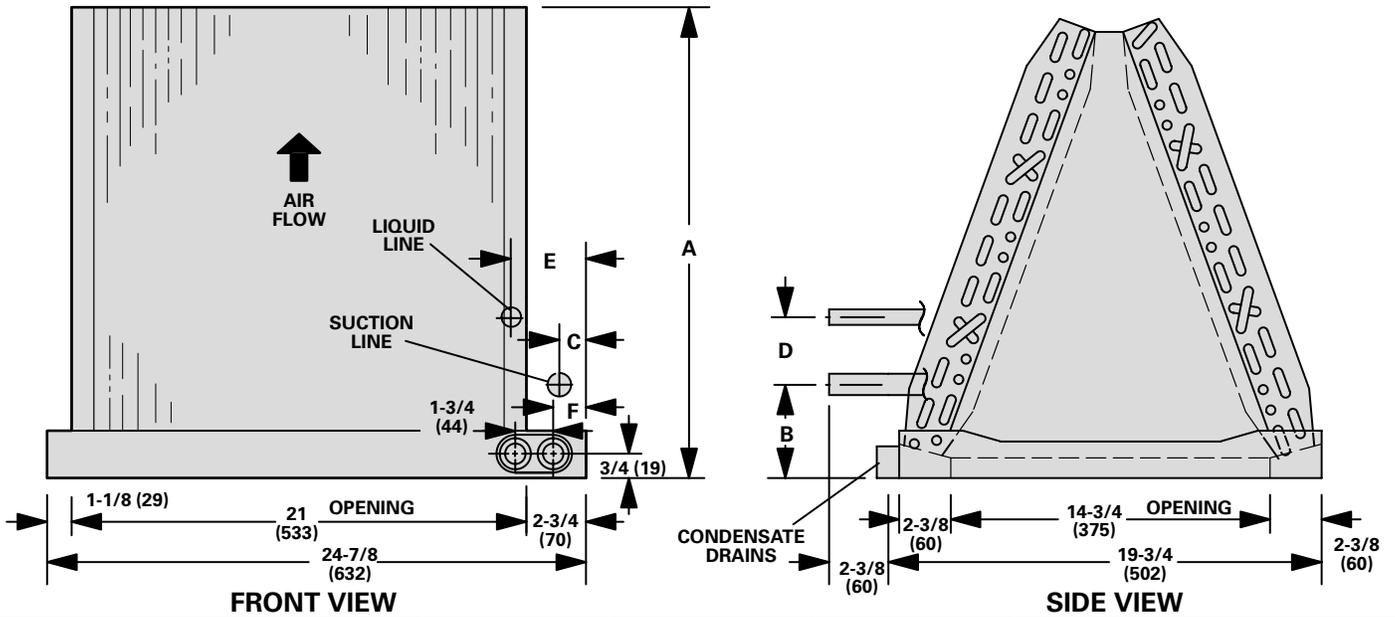
**C26-21, C26-26, C26-26W, C26-31, C26-31W, C26-41, C26-41N AND C26-51/65N**

**NOTE – Piping Patch Plate Furnished (Not Shown)**



| Model No.  | A      |     | B      |     | C    |     | D      |     | E      |     |
|------------|--------|-----|--------|-----|------|-----|--------|-----|--------|-----|
|            | inch   | mm  | inch   | mm  | inch | mm  | inch   | mm  | inch   | mm  |
| C26-21     | 14-3/4 | 375 | 14-3/4 | 375 | 10   | 254 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-26     | 14-3/4 | 375 | 18-3/4 | 476 | 10   | 254 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-26W    | 19-3/4 | 502 | 18-3/4 | 476 | 15   | 381 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-31     | 14-3/4 | 375 | 18-3/4 | 476 | 10   | 254 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-31W    | 19-3/4 | 502 | 18-3/4 | 476 | 15   | 381 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-41     | 19-3/4 | 502 | 20-3/4 | 527 | 15   | 381 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-41N    | 14-3/4 | 375 | 21     | 533 | 10   | 254 | 19-3/4 | 502 | 15-7/8 | 403 |
| C26-51/65N | 19-1/2 | 495 | 26-3/4 | 679 | 15   | 381 | 21-1/2 | 546 | 18     | 457 |

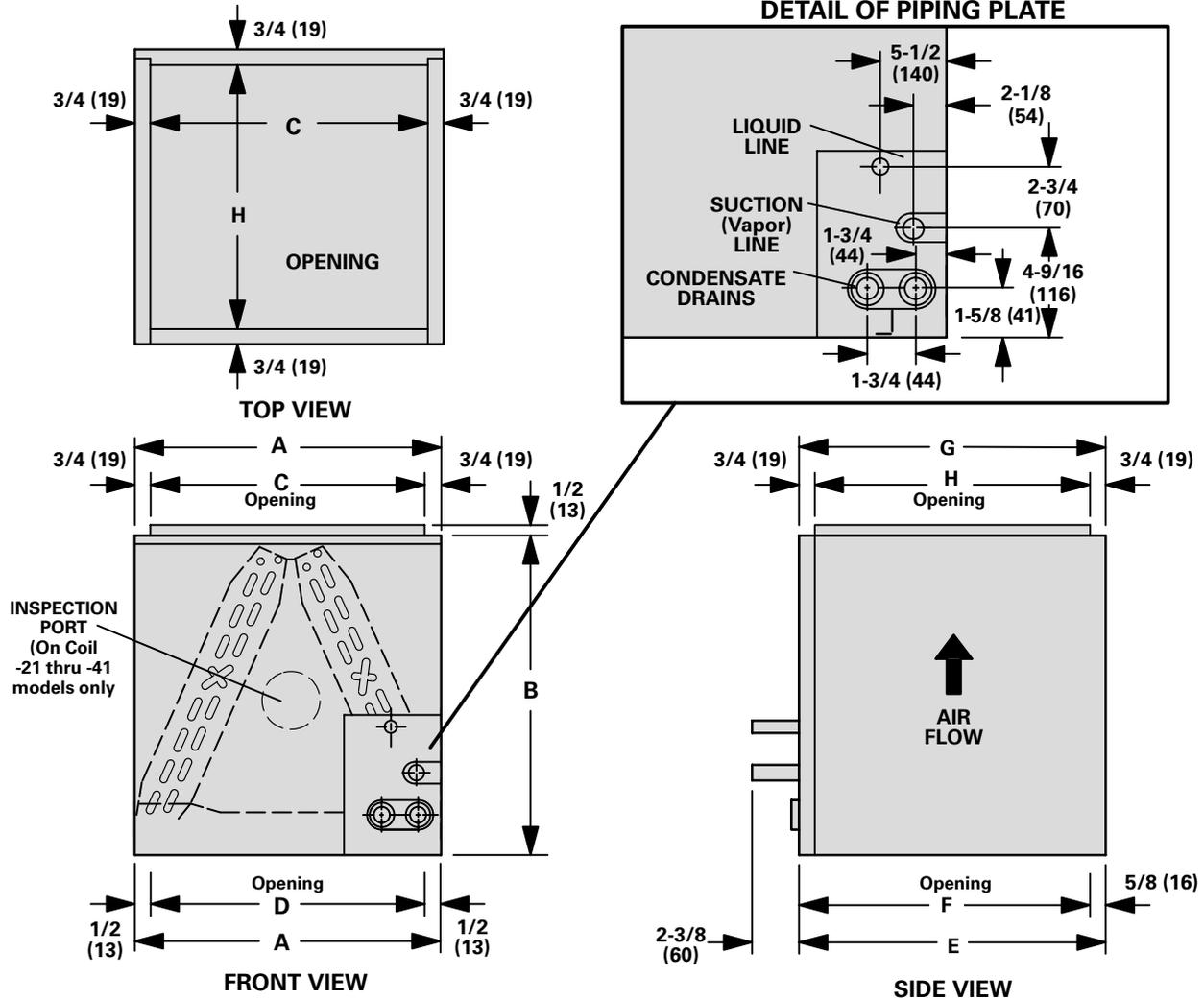
**C26-46, C26-51/65 AND C26-65EAP**  
**NOTE – Piping Patch Plate Furnished (Not Shown)**



| Model No. | A      |     | B     |     | C     |    | D     |    | E     |     | F     |    |
|-----------|--------|-----|-------|-----|-------|----|-------|----|-------|-----|-------|----|
|           | inch   | mm  | inch  | mm  | inch  | mm | inch  | mm | inch  | mm  | inch  | mm |
| C26-46    | 18-3/4 | 476 | 3-3/4 | 95  | 1-1/2 | 38 | 2-3/4 | 70 | 4-3/4 | 121 | 1-3/4 | 44 |
| C26-51/65 | 22-3/4 | 578 | 3-3/4 | 95  | 1-1/2 | 38 | 2-3/4 | 70 | 4-3/4 | 121 | 1-3/4 | 44 |
| C26-65EAP | 26-3/4 | 679 | 4-1/4 | 108 | 1-1/8 | 29 | 3-1/8 | 79 | 3-3/8 | 86  | 1-1/8 | 29 |

**CASED COIL DIMENSIONS – inches (mm)**

**C26-21FC, C26-26FC, C26-31(W)FC, C26-41(N)FC, C26-46FC, C26-51/65(N)FC & C26-65FCEAP**



**NOTE – C26-46FC, -51/65FC & -65FCEAP coils are positioned in cabinet with coil face running left to right, all other coil sizes are positioned like shown in drawing.**

| Model No.    | A      |     | B      |     | C      |     | D      |     | E      |     | F      |     | G      |     | H      |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|              | inch   | mm  |
| C26-21FC     | 16-1/4 | 413 | 16-1/2 | 419 | 14-3/4 | 375 | 15-1/4 | 387 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-26FC     | 16-1/4 | 413 | 20-1/2 | 521 | 14-3/4 | 375 | 15-1/4 | 387 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-26WFC    | 21-1/4 | 540 | 20-1/2 | 521 | 19-3/4 | 502 | 20-1/4 | 514 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-31FC     | 16-1/4 | 413 | 20-1/2 | 521 | 14-3/4 | 375 | 15-1/4 | 387 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-31WFC    | 21-1/4 | 540 | 20-1/2 | 521 | 19-3/4 | 502 | 20-1/4 | 514 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-41FC     | 21-1/4 | 540 | 22-1/2 | 572 | 19-3/4 | 502 | 20-1/4 | 514 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-41NFC    | 16-1/4 | 413 | 22-1/2 | 572 | 14-3/4 | 368 | 15-1/4 | 387 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-46FC     | 26-1/4 | 667 | 20-1/2 | 521 | 24-3/4 | 629 | 25-1/4 | 641 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-51/65NFC | 20-1/2 | 521 | 28-1/2 | 724 | 19     | 483 | 19-1/2 | 495 | 22     | 559 | 21-3/8 | 543 | 22     | 559 | 20-1/2 | 521 |
| C26-51/65FC  | 26-1/4 | 667 | 24-1/2 | 622 | 24-3/4 | 629 | 25-1/4 | 641 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |
| C26-65FCEAP  | 26-1/4 | 667 | 28     | 711 | 24-3/4 | 629 | 25-1/4 | 641 | 20-1/8 | 511 | 19-1/2 | 495 | 20-1/8 | 511 | 18-5/8 | 473 |