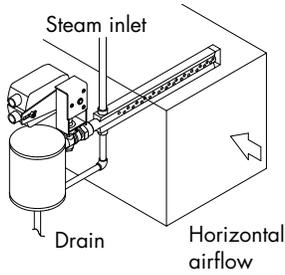


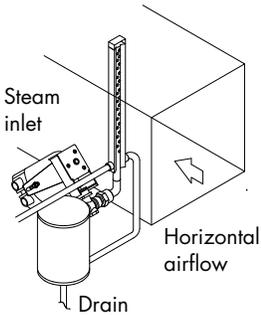
# Single-tube steam injection humidifier

**FIGURE 1-1: SINGLE-TUBE HUMIDIFIER INSTALLATION CONFIGURATIONS**



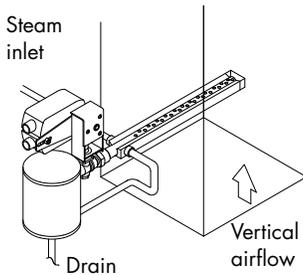
**Horizontal tube/horizontal airflow**

Typical configuration



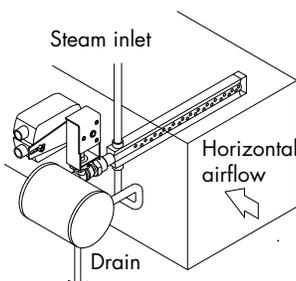
**Vertical tube/horizontal airflow**

For no access to side of duct, or when duct is tall and narrow



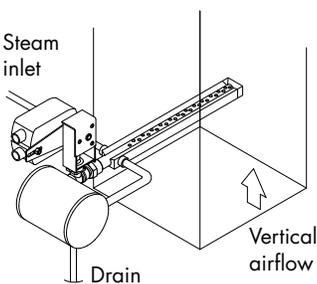
**Horizontal tube/vertical airflow**

To eliminate cold start dripping, tubelets should always point up regardless of whether airflow direction is up or down.



**Horizontal separator/horizontal airflow**

For tight headroom



**Horizontal separator/vertical airflow**

For tight headroom

To eliminate cold start dripping, tubelets should always point up regardless of whether airflow direction is up or down.

Each Single-tube humidifier is furnished with:

1. Centrifugal type steam separator and steam jacketed dispersion tube with calibrated orifices for proper steam distribution:
  - \_\_\_ 304 stainless steel
  - \_\_\_ 316 stainless steel
2. Piping:
  - \_\_\_ Black iron
  - \_\_\_ 304 stainless steel
  - \_\_\_ 316 stainless steel
3. Inlet Y strainer with stainless steel screen:
  - \_\_\_ Cast iron body
  - \_\_\_ 304 stainless steel body
4. Normally closed steam valve with stainless steel plug and seat:
 

Valve body:

  - \_\_\_ Bronze
  - \_\_\_ Stainless steel

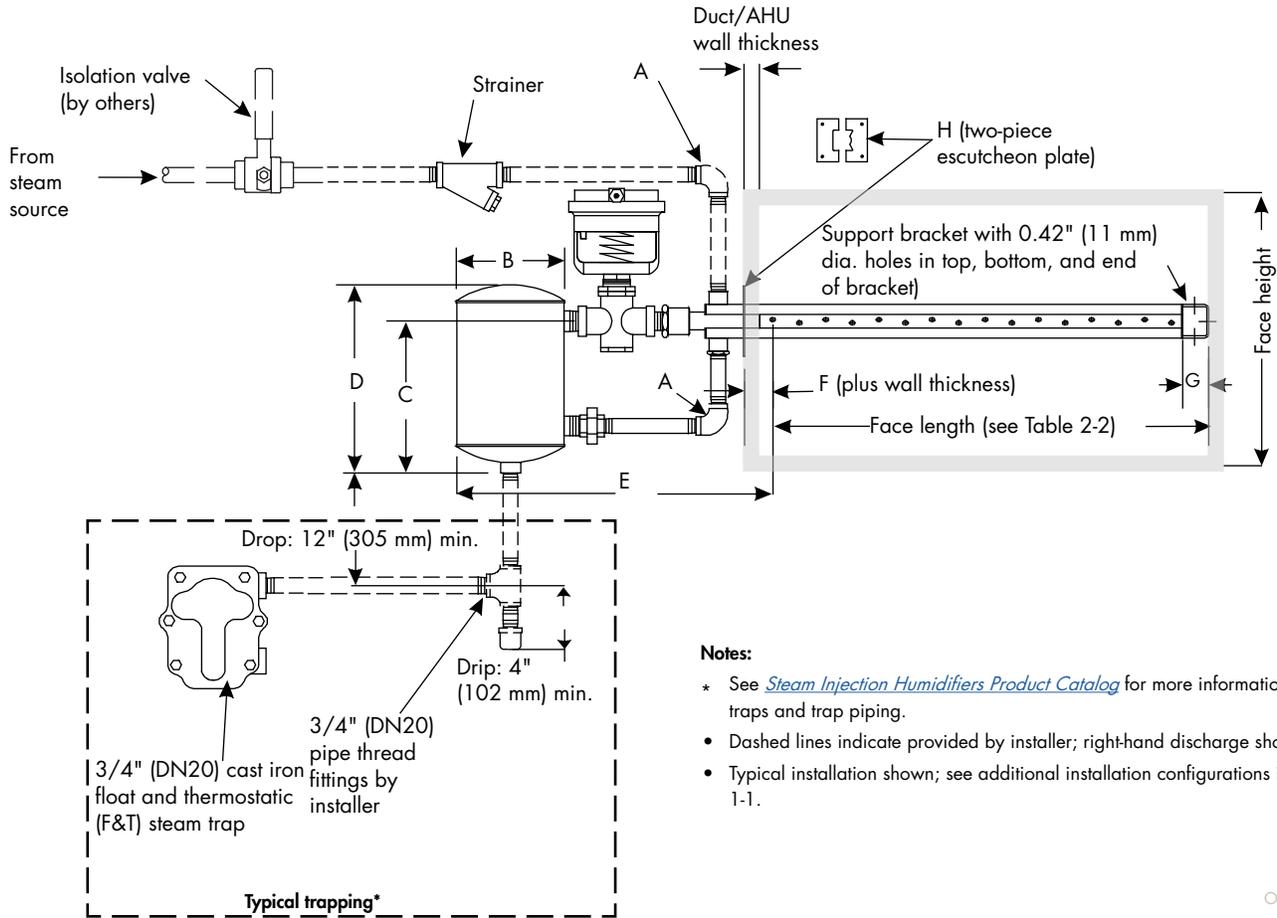
Actuator:

  - \_\_\_ Pneumatic valve
  - \_\_\_ Electric modulating valve
  - \_\_\_ Other: \_\_\_\_\_
5. Two-piece escutcheon plate to seal opening where tube penetrates duct:
  - \_\_\_ Galvanized
  - \_\_\_ 304 stainless steel
6. 3/4" pipe thread (DN20) steam traps:
  - \_\_\_ Cast iron float and thermostatic (F&T)
  - \_\_\_ Stainless steel float and thermostatic (F&T)

OM-380, 381, 382, 383, 7652

# Single-tube steam injection humidifier

**FIGURE 2-1: SINGLE-TUBE HUMIDIFIER DIMENSIONS**



**Notes:**

- \* See [Steam Injection Humidifiers Product Catalog](#) for more information about traps and trap piping.
- Dashed lines indicate provided by installer; right-hand discharge shown.
- Typical installation shown; see additional installation configurations in Figure 1-1.

OM-565X

**Table 2-1: Single-tube humidifier dimensions**

| Model | Valve size |       | A   |     | B   |       | C   |       | D   |      | E   |    | F*  |     | G   |     | H       |    |
|-------|------------|-------|-----|-----|-----|-------|-----|-------|-----|------|-----|----|-----|-----|-----|-----|---------|----|
|       | in.        | in.   | in. | DN  | in. | mm    | in. | mm    | in. | mm   | in. | mm | in. | mm  | in. | mm  | in.     | mm |
| 5-60  | 1/2        | 1/2   | 15  | 5.0 | 127 | 8.00  | 203 | 9.75  | 248 | 13.5 | 343 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 6-60  | 1/2        | 1/2   | 15  | 6.0 | 152 | 8.25  | 210 | 10.50 | 267 | 15.0 | 381 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 6-70  | 1/2        | 3/4   | 20  | 6.0 | 152 | 8.25  | 210 | 10.50 | 267 | 16.5 | 419 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 7-60  | 3/4        | 1/2   | 15  | 7.0 | 178 | 8.50  | 222 | 11.00 | 279 | 16.5 | 419 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 7-60  | 1          | 1/2   | 15  | 7.0 | 178 | 8.50  | 222 | 11.00 | 279 | 17.5 | 445 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 7-70  | 3/4        | 3/4   | 20  | 7.0 | 178 | 8.50  | 222 | 11.00 | 279 | 18.0 | 457 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 7-70  | 1          | 3/4   | 20  | 7.0 | 178 | 8.50  | 222 | 11.00 | 279 | 19.0 | 483 | 2  | 51  | 1.5 | 40  | 4x4 | 100x100 |    |
| 8-80  | 3/4        | 1 1/2 | 40  | 8.0 | 203 | 10.50 | 273 | 13.75 | 349 | 19.5 | 495 | 2  | 51  | 1.5 | 40  | 6x6 | 152x152 |    |
| 8-80  | 1          | 1 1/2 | 40  | 8.0 | 203 | 10.50 | 273 | 13.75 | 349 | 20.5 | 521 | 2  | 51  | 1.5 | 40  | 6x6 | 152x152 |    |
| 8-80  | 1 1/4      | 1 1/2 | 40  | 8.0 | 203 | 10.50 | 273 | 13.75 | 349 | 20.0 | 508 | 2  | 51  | 1.5 | 40  | 6x6 | 152x152 |    |
| 8-80  | 1 1/2      | 1 1/2 | 40  | 8.0 | 203 | 10.50 | 273 | 13.75 | 349 | 21.0 | 533 | 2  | 51  | 1.5 | 40  | 6x6 | 152x152 |    |

\* Variable from 0" to 2" (0 mm to 51 mm) in addition to duct/AHU wall thickness

**Table 2-2: Single-tube humidifier standard dispersion tube face lengths**

| Table model | Face lengths   |
|-------------|--|
| 60          | 6" to 144" in 1/2" increments (150 mm to 3658 mm in 13-mm increments)  |
| 70          | 18" to 192" in 1/2" increments (457 mm to 4877 mm in 13-mm increments) |
| 80          | 24" to 192" in 1/2" increments (610 mm to 4877 mm in 13-mm increments) |

Note: End support brackets are provided only on tube lengths of 12" (305 mm) or longer.