## Mini-bank® Steam Injection humidifier

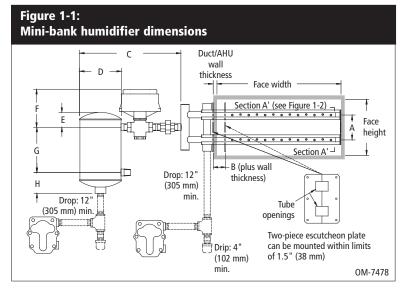
The Mini-bank humidifier is designed for use in small ducts. It is a preengineered and pre-assembled packaged unit, ready for mounting and hookup.

Slimline dispersion tubes with laboratory-tested, optimum tube spacing promote rapid steam absorption without excessive static pressure loss and heat gain.

With precision orifices of varying diameters spaced 1" (25 mm) on center, tubelets ensure proportional steam dispersion along the entire length of the tubes. Smaller diameter tubelets are inserted near the ends of the tubes to compensate for lower velocity airflow along the sides of the duct.

### Mini-bank humidifier maximum capacity

85 lbs/hr (39 kg/h)



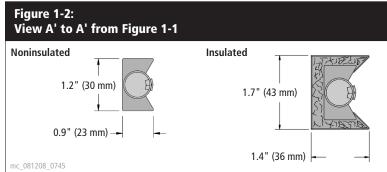


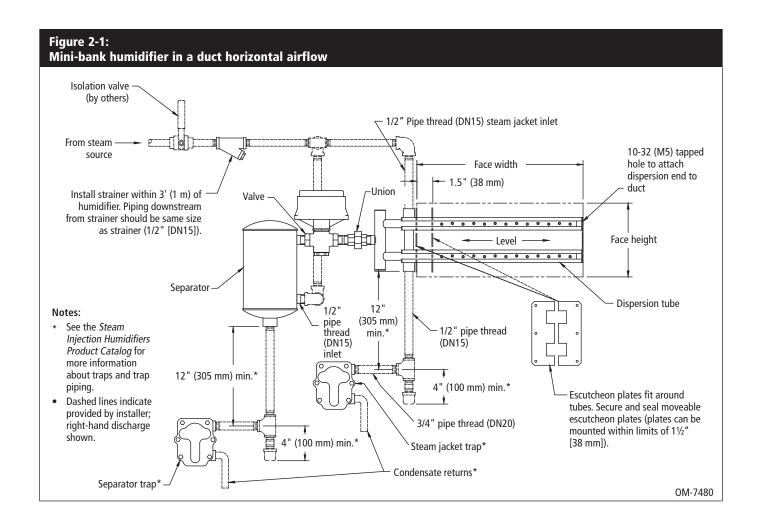
Table 1-1: Mini-bank humidifier dimensions								
	А	В	С	D	Е	F	G	Н
inches	3.00	1.50	12.50	5.00	1.75	6.50	5.50	2.50
mm	76	38	318	127	45	165	140	64

mc\_081208\_0740

#### Each Mini-bank 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 thermostatic					

## Mini-bank Steam Injection humidifier



Face height		Required number of tubes	Face width	Shipping weights			
inches	mm	Required number of tubes	race whati	Simplify Weights			
6-9	150-230	2					
10-12	250-305	3	6" to 48" in 1/2" increments	Tubes:			
13-15	330-380	4	(150 mm to 1220 mm in 13-mm increments)	0.3 lbs per tube foot (0.4 kg per tube meter)			
16-18	405-460	5	For face dimensions larger than 48" × 24" (w x h) (1220 mm x 610 mm), use Multiple-tube humidifier.	Remaining components			
19-21	480-535	6	1 (1220 mm x 610 mm), use Multiple-tube humidifier.	(separator, valve, traps, etc.): 8.5 lbs (3.8 kg			
22-24	560-610	7					

mc 081108 1455

# Mini-bank Steam Injection humidifier

Table 3-1: Mini-bank humidifier air pressure loss and heat gain									
Air velocity Static pressure loss			Heat	at gain					
fpm	m/s	Inches wc		Pa		°F		°C	
ірііі		Insulated	Noninsulated	Insulated	Noninsulated	Insulated	Noninsulated	Insulated	Noninsulated
500	2.5	0.04	0.02	9.95	4.98	1.8	3.5	1.0	1.9
750	3.8	0.07	0.04	17.42	9.95	1.6	3.2	0.9	1.8
1000	5.1	0.13	0.075	32.35	18.66	1.4	2.8	0.8	1.6