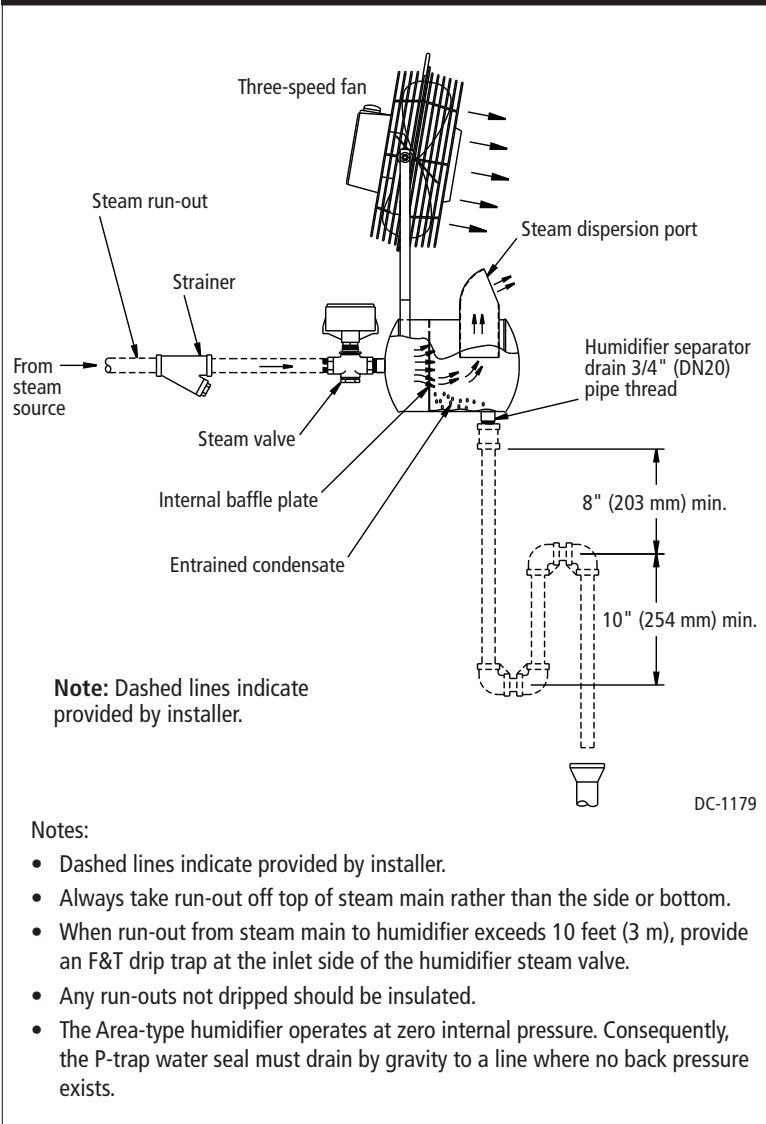


Area-type™ Steam Injection humidifier

**Figure 1-1:
Area-type humidifier**



**Table 1-1:
Area-type humidifier dimensions**

A		B		C		D		E	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
27.0	686	14.0	357	4.8	122	7.2	183	9.5	241

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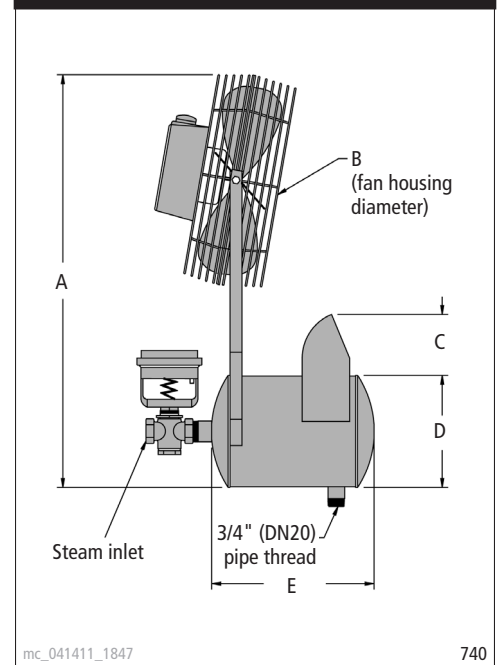
The Area-type humidifier is designed for open spaces, such as warehouses or manufacturing spaces, that may not have a duct system. The steam discharged from the humidifier is dispersed by the fan. The Area-type humidifier quietly distributes steam, without introducing water droplets into the air.

Area-type humidifier maximum capacity
285 lbs/hr (130 kg/h)

How it works

- 1) Steam passes through the automatic steam valve and enters the separator.
- 2) Entrained condensate is removed by the internal baffle plate. The resulting water flows to drain and is removed by the P-trap water seal.
- 3) Dry steam exits the humidifier through the steam dispersion port entering into the airstream in front of the fan.

**Figure 1-2:
Area-type humidifier dimensions**



Area-type Steam Injection humidifier

Rise, spread, and throw

The table below lists the Area-type humidifier's minimum rise, spread and throw non-wetting dimensions. Surfaces cooler than ambient temperature, or objects located within this minimum dimension, may cause condensation and dripping.

Rise: Minimum non-wetting height above the steam chute

Spread: Minimum non-wetting width from the steam chute

Throw: Minimum non-wetting horizontal distance from the steam chute

The greater the space relative humidity, the higher and further the discharged steam will carry and rise in the space until becoming absorbed.

Figure 2-1:
Area-type rise, spread, and throw

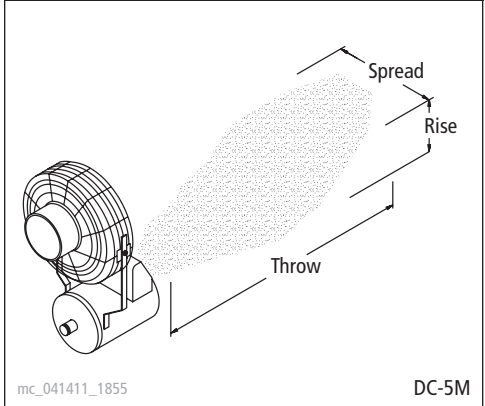


Table 2-1:
Area-type humidifier minimum distances for rise, spread, and throw*

Maximum steam capacity		60 °F (16 °C)																	
		30% RH						40% RH						50% RH					
		Rise		Spread		Throw		Rise		Spread		Throw		Rise		Spread		Throw	
lbs/hr	kg/h	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
50	20	1.0	0.3	2.0	0.6	6.0	1.8	1.0	0.3	2.0	0.6	6.0	1.8	1.0	0.3	2.5	0.8	6.0	1.8
75	34	3.0	0.9	3.0	0.9	8.0	2.4	3.0	0.9	3.0	0.9	8.0	2.4	3.0	0.9	4.0	1.2	8.0	2.4
100	45	4.0	1.2	4.0	1.2	10.0	3.1	4.0	1.2	4.0	1.2	10.0	3.1	4.0	1.2	5.0	1.5	10.0	3.1
150	68	6.0	1.8	5.0	1.5	12.0	3.7	6.0	1.8	5.0	1.5	12.0	3.7	6.0	1.8	5.0	1.5	12.0	3.7
200	90	7.0	2.1	7.0	2.1	13.0	4.0	8.0	2.4	7.0	2.1	14.0	4.3	8.0	2.4	7.0	2.1	14.0	4.3
225	102	7.0	2.1	7.0	2.1	13.0	4.0	8.0	2.4	7.0	2.1	14.0	4.3	8.0	2.4	7.0	2.1	14.0	4.3
250	110	8.0	2.4	8.0	2.4	15.0	4.6	9.0	2.7	9.0	2.7	16.0	4.9	9.0	2.7	9.0	2.7	16.0	4.9
285	130	9.0	2.7	9.0	2.7	17.0	5.2	10.0	3.1	10.0	3.1	18.0	5.5	10.0	3.1	10.0	3.1	18.0	5.5
Maximum steam capacity		70 °F (21 °C)																	
		30% RH						40% RH						50% RH					
		Rise		Spread		Throw		Rise		Spread		Throw		Rise		Spread		Throw	
lbs/hr	kg/h	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
50	20	1.0	0.3	1.5	0.5	4.0	1.2	1.0	0.3	2.0	0.6	4.0	1.2	1.0	0.3	2.0	0.6	4.0	1.2
75	34	2.0	0.6	2.0	0.6	6.0	1.8	2.0	0.6	2.5	0.8	6.0	1.8	2.0	0.6	2.5	0.8	6.0	1.8
100	45	3.0	0.9	3.0	0.9	8.0	2.4	3.0	0.9	3.0	0.9	8.0	2.4	3.0	0.9	3.0	0.9	8.0	2.4
150	68	4.0	1.2	4.0	1.2	10.0	3.1	4.0	1.2	4.0	1.2	11.0	3.4	4.0	1.2	4.0	1.2	11.0	3.4
200	90	5.0	1.5	5.0	1.5	11.0	3.4	5.0	1.5	5.0	1.5	12.0	3.7	5.0	1.5	5.0	1.5	12.0	3.7
225	102	5.0	1.5	5.0	1.5	11.0	3.4	5.0	1.5	5.0	1.5	12.0	3.7	5.0	1.5	5.0	1.5	12.0	3.7
250	110	6.0	1.8	6.0	1.8	12.0	3.7	6.0	1.8	6.0	1.8	13.0	4.0	6.0	1.8	6.0	1.8	14.0	4.3
285	130	7.0	2.1	7.0	2.1	14.0	4.3	7.0	2.1	7.0	2.1	15.0	4.6	7.0	2.1	7.0	2.1	16.0	4.9

* With fan on high speed

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