



air humidification system
isothermal humidification

CAREL



Patented Fishbone Wick



Patented Inverted Slot Technology

ultimateSteam

direct injection steam humidifier

The ultimateSteam is the world's highest efficiency direct steam humidifier, using high-tech insulation to reduce condensate and minimize duct heat gain.

Due to our patented Inverted Slot technology, the ultimateSteam is the champion of short evaporation distance.

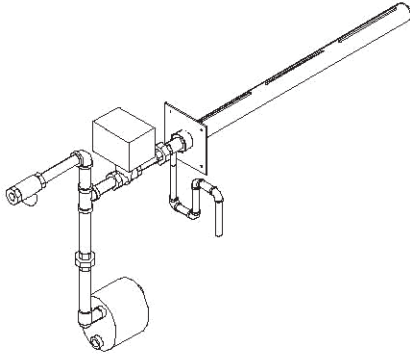
Features

- Patented Inverted Slot Design with 100% Air to Steam Contact
- Patented Internal Fishbone Wick - Absolutely NO Spitting
- 316 Stainless Steel Construction
- Standardized Sizes Nominal 120" x 120"
- High-tech Insulation Coating (120 F Maximum Surface Temperature)
- Minimal Condensate Production
- Simple and Easy Assembly using Slip Fittings
- No O-Rings, Gaskets, or Plastic Parts to replace - Zero Maintenance

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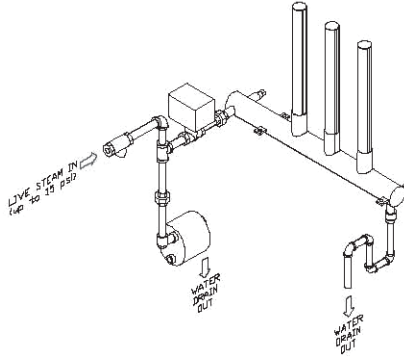
Technical Specifications

DS0 - Single Pipe System
up to 100 lbs/hr



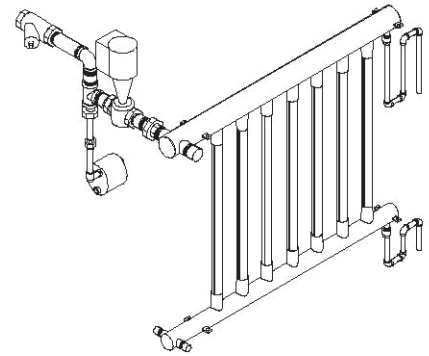
Width from 11 to 71 inches

DSB - Multi-pipe System
up to 500 lbs/hr



Width from 24 to 126 inches
Height from 12 to 112 inches

DST - Multi-pipe System
up to 2200 lbs/hr



Width from 42 to 126 inches
Height from 20 to 116 inches

Model Selections

DS								00000
<i>DS = ultimateSteam</i>	<i>Type</i>	<i>Width = In. (mm)</i>			<i>Height = In. (mm)</i>			<i>Version</i>
		<i>DS0*</i>	<i>DSB*</i>	<i>DST*</i>	<i>DS0*</i>	<i>DSB*</i>	<i>DST*</i>	<i>Internal Use Only</i>
	0=single pipe	A=11(280)			0	A=12 (305)		
	B=bottom fed	B=17 (432)	B=24(610)			B=18 (450)		
	T=top fed	C=23 (585)	C=30 (762)			C=24 (610)	C=20 (508)	
		D=35 (889)	D=42(1067)	D=42(1067)		D=28 (711)	D=32 (813)	
		E=47 (1194)	E=54 (1372)	E=54 (1372)		E=40 (1016)	E=44 (1118)	
		F=59 (1499)	F=66 (1676)	F=66 (1676)		F=52 (1320)	F=56 (1422)	
		G=71 (1803)	G=78 (1981)	G=78 (1981)		G=64 (1626)	G=68 (1727)	
			H=90 (2286)	H=90 (2286)		H=76 (1930)	H=80 (2032)	
			I=102 (2591)	I=102 (2591)		I=88 (2235)	I=92 (2337)	
			L=114 (2896)	L=114 (2896)		L=100 (2540)	L=104 (2642)	
			M=126 (3200)	M=126 (3200)		M=112 (2845)	M=116 (2946)	

Construction: Type 316 Stainless Steel

Insulation: Proprietary high R value pliable coating, plenum safe, non-toxic

Maximum temp: 500°F (260°C)

Max. manifold pressure: 1 psi (0.07 Bar)

Control valves: Electric: Siemens or other, full pressure drop

Pneumatic: Siemens or other, full pressure drop

(CAREL uses Siemens valves as standard with maximum 60 psi (4 Bar) inlet pressure)

Steam traps: Float & thermostatic standard

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