

DIMENSIONS & DATA CERTIFIED FOR:

Representative:

Order:

Customer:

Order:

Project:

Requirements:

By:

Date:

SERIES 90 Steam Capacities Ratings (Output lbs[kg]/hr)

SERIES 90 Steam Capacities Ratings (Output lbs[kg]/hr)																
VSA & DSA 90; FSA, VSA & DSA-91 Humidifier							FSA, VSA & DSA-92 Humidifier						FSA, VSA & DSA-93 Humidifier			
Orifice Size	1/16"	3/32"	1/8"	5/32"	3/16"	7/32"	7/32"	1/4"	5/16"	3/8"	7/16"	1/2"	5/16"	3/8"	7/16"	1/2"
2[.13]	1.3[.59]	3[1.4]	5[2.3]	8[3.6]	12[5.5]	16[7.3]	16[7.3]	22[10]	33[15]	53[24]	74[34]	88[40]	45[20.5]	50[22.7]	77[35]	99[45]
4[.28]	2[.9]	4.6[2.1]	8[3.6]	12[5.5]	18[8.2]	25[11.4]	25[11.4]	33[15]	51[23.2]	84[38]	90[41]	100[45]	65[29.5]	85[38.6]	108[49]	145[66]
6[.41]	2.6[1.2]	5.8[2.6]	10[4.5]	16[7.3]	23[10.5]	32[14.6]	32[14.6]	42[19]	65[29.5]	99[45]	108[49]	112[51]	80[36.4]	105[48]	129[59]	172[78]
8[.55]	3[1.4]	6.8[3.1]	12[5.5]	19[8.7]	27[12.3]	37[16.8]	37[16.8]	49[22.3]	77[35]	115[52]	123[56]	133[60]	88[40]	117[53]	146[66]	198[90]
10[.69]	3.4[1.5]	7.8[3.5]	14[6.4]	21[9.5]	31[14]	42[19]	42[19]	55[25]	87[39.5]	123[56]	136[62]	150[68]	96[43.6]	130[59]	169[76.8]	217[99]
12[.83]	3.8[1.7]	8.6[3.9]	15[6.8]	23[10.5]	34[15.5]	47[21.4]	47[21.4]	62[28.2]	97[44]	138[63]	150[68]	166[75]	105[48]	142[64.5]	189[86]	-
15[1]	4.4[2]	9.6[4.4]	18[8.2]	27[12.3]	40[18.2]	53[24]	53[24]	69[31.4]	108[49]	162[74]	170[77]	-	117[53]	160[73]	213[97]	-
20[1.4]	5.6[2.5]	11.9[5.4]	23[10.5]	31[14]	47[21.4]	62[28.2]	62[28.2]	82[37.3]	127[58]	-	-	-	136[62]	186[84.5]	246[112]	-
25[1.7]	6.5[3]	13.4[6.1]	25[11.4]	36[16.4]	52[23.6]	70[32]	70[32]	91[41.4]	144[65]	-	-	-	155[70]	212[96]	286[130]	-
30[2.1]	7.7[3.5]	14.3[6.5]	28[12.7]	40[18.2]	59[27]	78[35.5]	84[38.2]	102[46.4]	159[72]	-	-	-	174[79]	237[108]	-	-
35[2.4]	8.4[3.8]	17.2[7.8]	30[13.6]	44[20]	65[29.5]	-	90[40.9]	115[52.3]	172[78]	-	-	-	190[86]	262[119]	-	-
40[2.8]	9.2[4.2]	19.2[8.7]	33[15]	48[21.8]	70[31.8]	-	98[44.5]	125[56.8]	-	-	-	-	208[95]	285[130]	-	-
50[3.4]	11[5]	22.8[10.4]	37[16.8]	56[25.5]	83[37.7]	-	113[51.4]	150[68.2]	-	-	-	-	240[109]	-	-	-
60[4.1]	12.3[5.6]	24.4[11.1]	44[20]	65[29.5]	-	-	-	-	-	-	-	-	270[123]	-	-	-

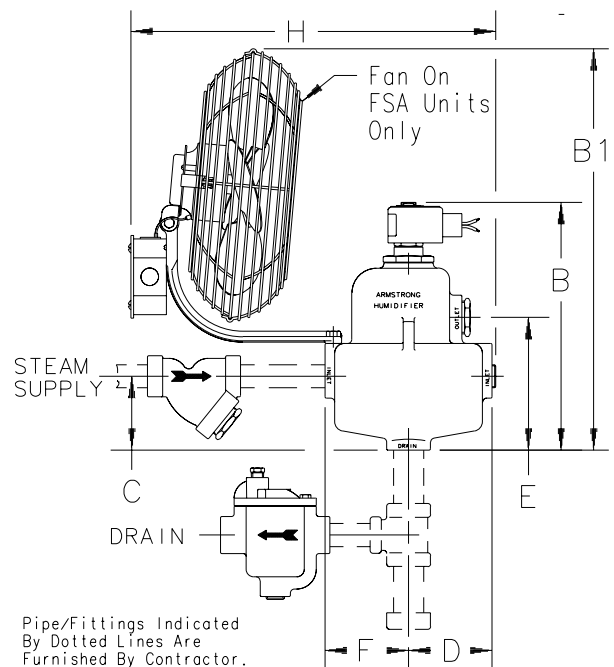
Capacities below darkened line apply only to size 91 humidifier.

DESCRIPTION	MODEL			
	90	91	92	93
B Height	6-15/16[176]	10-7/8[276]	10-7/8[276]	14-1/2[368]
B1 Height	-	18-9/16[471]	18-9/16[471]	21[533]
C Drain To C Of Inlet	1-7/8[48]	3-3/8[86]	3-3/8[86]	4-5/8[118]
D C Of Body To Inlet	2-3/8[60]	3-1/16[78]	3-13/16[97]	4-3/4[121]
E Drain To C Of Outlet	2-7/16[62]	6-1/16[154]	6-1/16[154]	9[229]
F C Of Body To Inlet	2-13/16[71]	3-13/16[97]	3-13/16[97]	4-3/4[121]
H Width, Overall	-	15-3/4[400]	15-3/4[400]	18-1/4[464]
Connection Size [DN]	Inlet	1/2 NPT[15]	3/4 NPT[20]	1-1/4 NPT
	Drain	1" NPT[25]		[32]
IB Trap	1/2 NPT[15]	3/4 NPT[20]		
Trap Model (Drain)	800			811
Weight, Less Sol. & Fan lbs[kg]	13-1/2[6]	24[11]	30[14]	52[24]

Dimensions in inches [mm] unless otherwise shown.

MATERIAL LIST	
Part Name	Material
Steam Chamber	ASTM A48 CL. 30 (Cast Iron)
Dispersion Nozzle	ASTM B16 (Brass)
Bonnet Ass'y	
Valve Seat	18-8 Stainless Steel
Solenoid Ass'y	Copper, 18-8 SS & Epoxy Coated Steel
Strainer	ASTM A48 CL. 30(Cast Iron) W/ SS Screen
IB Steam Trap	ASTM A48 CL. 30(Cast Iron) W/ SS Internals

JOB SPECIFICATION	
Capacity Required-	lb[kg]/hr
Voltage, Fan-	
Voltage, Solenoid-	
Orifice-	
Steam Pressure Supply-	psig



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Product	CD No.	Date
STEAM HUMIDIFIER		3/6/98
FSA, VSA, DSA -	1079	Rev. A
90, 91, 92 & 93		