

DIMENSIONS & DATA CERTIFIED FOR:

Representative:

Order:

Customer:

Order:

Project:

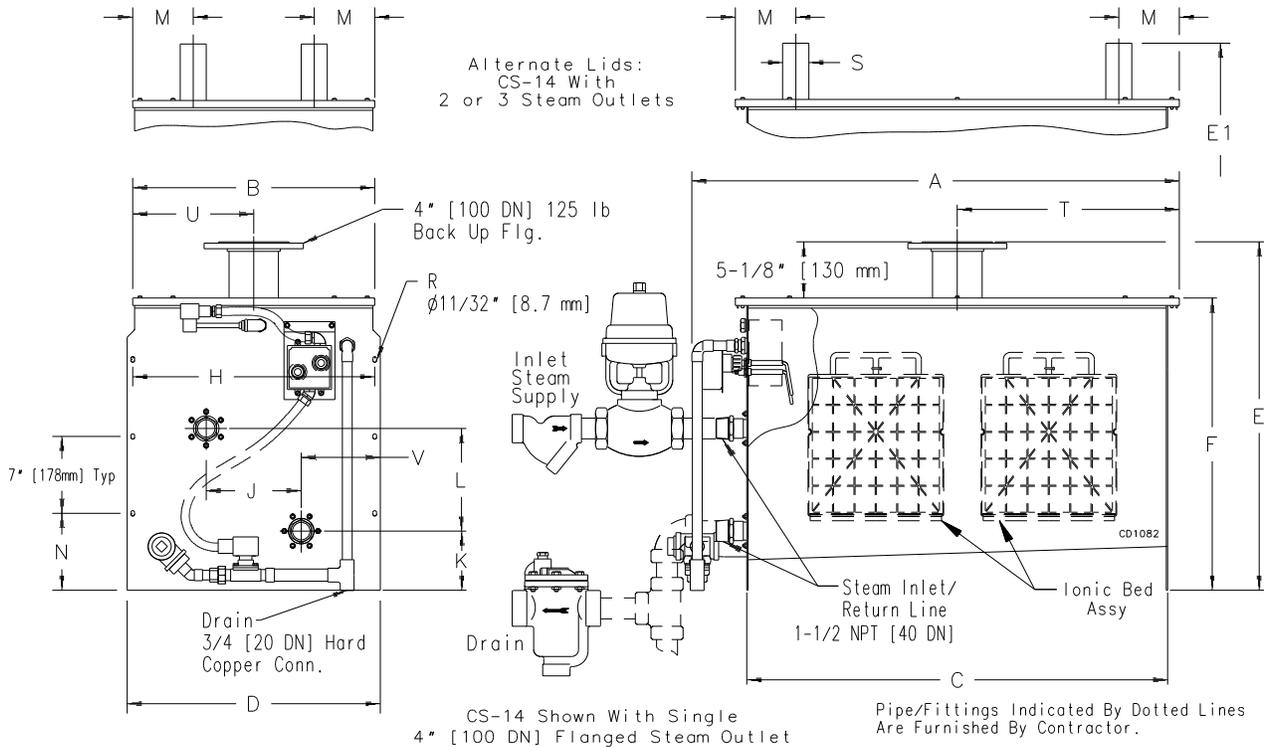
Requirements:

Capacity Required- lb/hr [kg/hr]

Steam Supply Pressure- psi

By:

Date:



DESCRIPTION	MODEL CS-14
A Length, Overall	45-1/2 [1156]
B Width, Tank Lid	22 [559]
C Length, Bottom Of Tank	38-1/4 [972]
D Width, Tank	23 [584]
E Tank Bottom To Steam Outlet	31-3/8 [797]
E1 Tank Bottom To Steam Outlet(2 Or 4 Outlets)	31-11/16 [805]
F Tank Bottom To Top Of Lid	26-9/16 [675]
H Width, \odot Tank Flange Holes	22 [559]
J Width, \odot Steam Line, Inlet & Return	8-5/8 [219]
K \odot Return Line To Tank Bottom	5-3/8 [137]
L \odot Return Line To \odot Steam Inlet	9-11/32 [237]
M \odot Steam Outlet To Edge Of Lid	5-1/2 [140]
N Tank Bottom To 1st Flange Hole	7 [178]
R # Of Tank Flange Holes(Both Ends)	12
S Dia. Of Steam Outlet (2 & 4 Outlets)	2-3/8 [60]
T \odot Steam Outlet To End Of Lid	20-1/8 [511]
U \odot Steam Outlet To Edge Of Lid	11 [279]
V \odot Return Line To Tank Edge	7-3/16 [183]
Weight, lbs[kg] Max. Operating	920 [417]
(Less Trap, Strainer & Control Valve) Shipping	400 [180]

Dimensions in inches [mm] unless otherwise shown.

MATERIAL LIST	
Part Name	Material
Tank & Lid	304 Stainless Steel
Heat Exchanger(CS-14S/D1)	304 Stainless Steel
Heat Exchanger(CS-14C)	Electroless Nickel Plated Copper
Cap Screws & Nuts, Tank	18-8 Stainless Steel
Dispersion Tube	304 Stainless Steel
Level Control Electrodes	18-8 SS & Teflon(Not Used CS-14D1)
Hose Cuffs(2 or 4)	EPDM(Multiple Steam Outlets)
Gasket, Inlet/Outlet	NBR (Buna-N)
Gasket, Tank	SI (Silicone)
Ionic Bed Assy	Proprietary w/PCB(CS-14CB/ CS-14SB Only)
Control Panel	Enclosure
Control Valve(Type)	To Be Specified
Steam Trap (1B)	ASTM A48 CL. 30 W/18-8 SS Internals
Strainer, 'Y'	ASTM A48 CL. 30 W/304 SS Screen



Armstrong International, Inc.
Three Rivers Division
Three Rivers, MI 49093
Armstrong (269) 273-1415 Fax(269) 273-9500
Posted on Armstrong's homepage www.armstrong-intl.com

Product	CD No.	Date
HUMIDIFIER, STEAM TO STEAM CS-14	1082 Sht. 1	12/8/04
		Rev. F

CS-14 Steam Capacity Ratings

Steam Pressure psig [bar]	Model Output lbs/hr [kg/hr]	
	CS-14C (Copper Coil)	CS-14S/DI (SS Coil)
5 [.34]	100 [45]	75 [34]
10 [.69]	280 [127]	135 [61]
15 [1] Maximum	400 [181]	260 [118]

Capacities based on supply pressure before the control valve.

OPTION LIST

Humidistat	Control (Room or Duct)	<input type="checkbox"/>
	High Limit	<input type="checkbox"/>
Switch, Air Flow	Pressure Sail	<input type="checkbox"/>
Steam Header, 4" Flg w/ (4)2" Outlet Ports		<input type="checkbox"/>
Dispersion Tubes		<input type="checkbox"/>
	w/ 4" Flg Conn. > 180 lb/hr [82 kg/hr]	<input type="checkbox"/>
Lid	w/(4) 2" Conn. > 180 lb/hr [82 kg/hr]	<input type="checkbox"/>
	w/(2) 2" Conn. ≤ 180 lb/hr [82 kg/hr]	<input type="checkbox"/>
Support Legs		<input type="checkbox"/>
Insulation, Tank		<input type="checkbox"/>

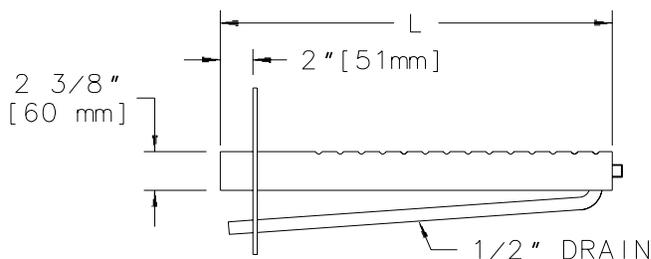
STANDARD OPERATORS

Type	Model & Manufacturer	Control Signal
Pneumatic	HAM Honeywell MP953D	Operating Range, 4-11 psi Standard 8-13 psi 3-7 psi
	HAM Honeywell MP953F	Adjustable Start Point Standard Range, 5 psi Optional Range, 10 or 3 psi (Has Pilot Positioner)
Electric	HEM Honeywell M9182A	0-135 ohm Standard; 4-20 mA w/A9847 & 2-10 VDC w/ Optional Module A10024
	BLEM Belimo AF24SR	0-10 VDC, 4-20 mA

SELECTING PROPER DISPERSION TUBE

Model CS-14	Length "L" in [mm]	Duct Width		Weight lb/hr [kg/hr]
		Min.	Max.	
DL-1	12 [305]	11 [279]	16 [406]	2.7 [1.2]
DL-1.5	18 [457]	17 [432]	22 [559]	3.4 [1.5]
DL-2	24 [610]	23 [584]	34 [864]	4 [1.8]
DL-3	36 [914]	35 [889]	46 [1168]	6 [2.7]
DL-4	48 [1219]	47 [1194]	58 [1473]	8 [3.6]
DL-5	60 [1524]	59 [1499]	70 [1778]	10 [4.5]
DL-6	72 [1829]	71 [1803]	82 [2083]	12 [5.4]
DL-7	84 [2134]	83 [2108]	94 [2388]	14 [6.4]
DL-8	96 [2438]	95 [2413]	106 [2692]	16 [7.3]
DL-9	108 [2743]	107 [2718]	118 [2997]	18 [8.2]
DL-10	120 [3048]	119 [3023]	130 [3302]	20 [9.1]

DISPERSION TUBE



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HUMIDIFIER, STEAM TO STEAM CS-14	1082 Sht. 2	02/11/02 Rev. E