



# ENGINEERING MANUAL

Pressure Steam Humidifier

# Thank you for choosing Condair

Installation date (MM/DD/YYYY):

Commissioning date (MM/DD/YYYY):

Site:

Model:

Serial number:

## Contact

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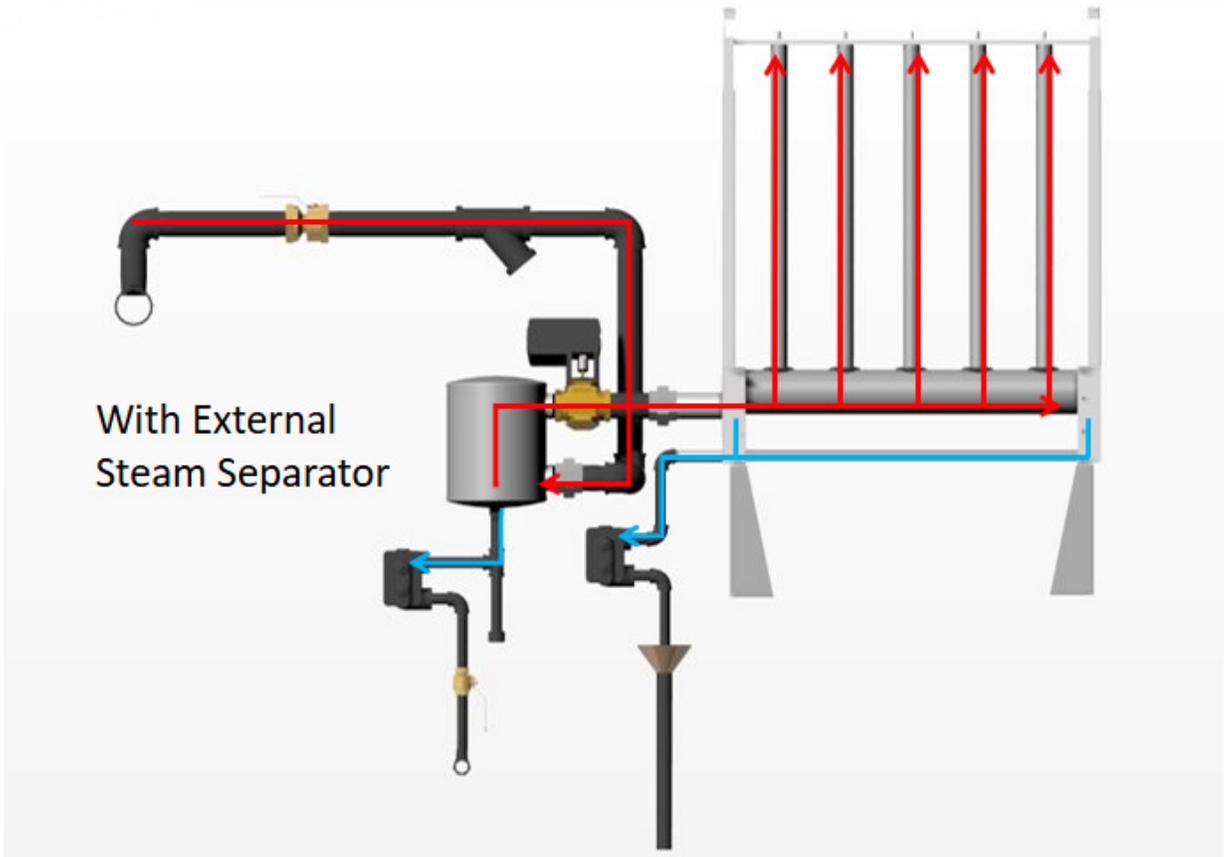
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*Fig. 1: Directional Flow*

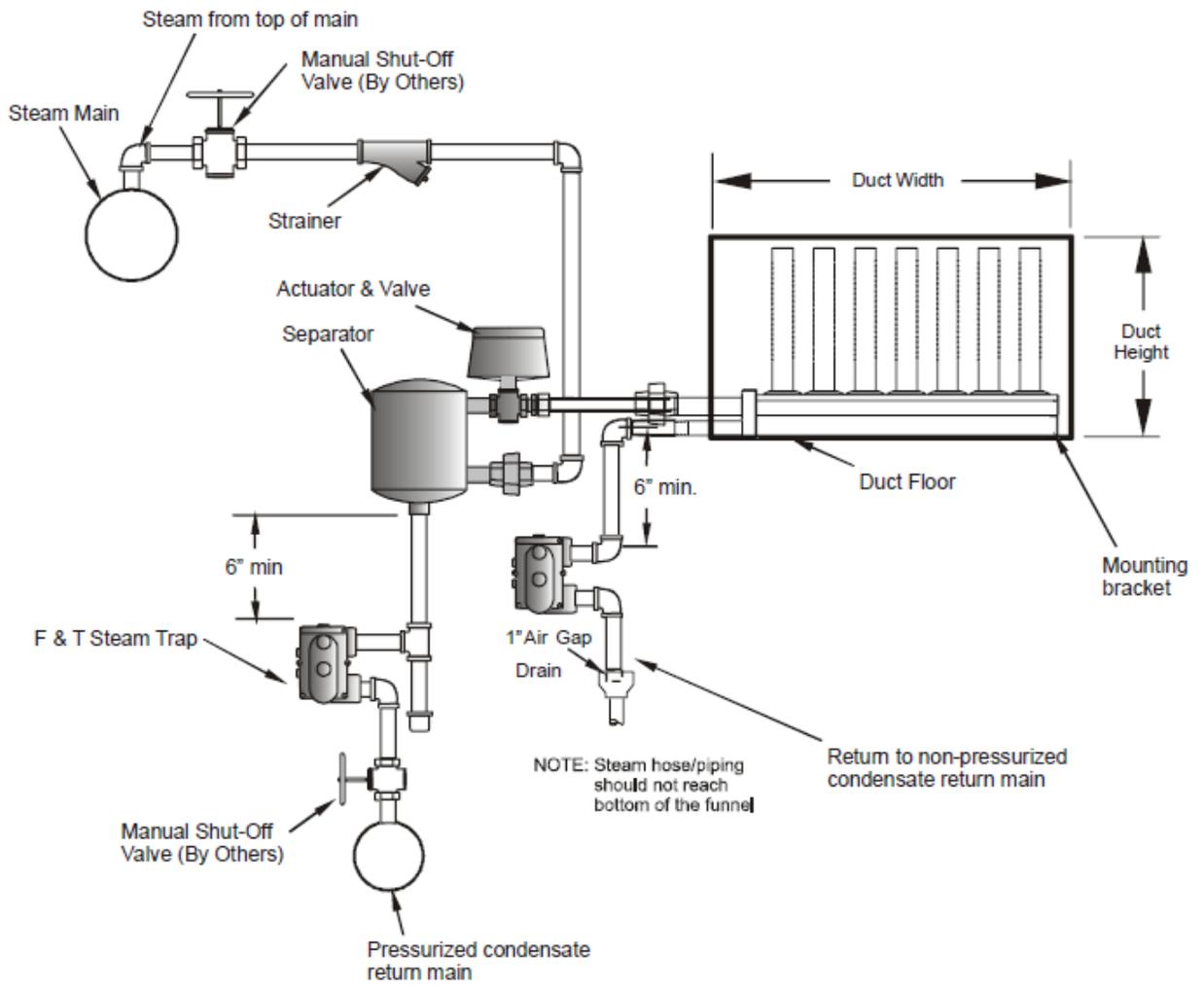


Fig. 2: Mini SAM-e with Pressurized Steam

## SAM-e DISTRIBUTOR HUMIDIFIER SELECTION

Condair LS SERIES SAM-e distributor humidifiers include all the primary components of single distributor units. See [Fig. 2](#). To select a SAM-e distributor humidifier complete the following steps:

1. Calculate humidification load as per CONDAIR manual, Form #124B.  
*For example: Lets assume calculated humidification load is 225 lbs/hr.*
2. Determine steam pressure at the inlet - usually from the project files.  
*e.g.: Lets assume pressure is equal to 15 psig.*
3. To select the correct Condair LiveSteam model refer to [Table 1](#) referencing the steam supply pressure and humidifier output. Read down the pressure column to the nearest larger humidifier output then find required separator and valve Cv in left hand side columns.  
*In our example, we will read 15 psig column to 228 lbs/hr and it will point to Model 300 with valve Cv 5.5.*
4. From the project files determine duct dimensions.  
*e.g.: Assume height of the duct is 36" and width of the duct is 60".*
5. Select wye strainer using [Table 2](#).  
*e.g.: In [Table 2](#) read the row 15 psi to the nearest larger strainer capacity than required capacity of humidifier (228 lbs/hr). Refer to upper row for strainer nominal diameter. Strainer will be 1" nominal diameter.*
6. SAM-e distributor humidifiers usually require two steam traps. Some larger systems could require up to 3 steam traps (refer to the submittal drawings for details). For available steam traps refer to CONDAIR submittals.
7. Select distributor header size using [Table 3](#).  
*e.g.: Header size will be 1 1/4".*
8. If required, absorption distance can be verified using CONDAIR manual, Form #163D.
9. Then select desired actuator and accessories using CONDAIR submittals.

Table 1: Separator and Valve Selection SAM-e Distributor Humidifiers in lbs/hr(kg/hr)

Condaire Model	Valve Cv	Steam Pressure to Humidifier's Supply Connection in psig (kPa)																				
		2 (14)	3 (21)	4 (28)	5 (34)	6 (41)	7 (48)	8 (55)	9 (62)	10 (69)	11 (76)	12 (83)	13 (90)	14 (96)	15 (103)	20 (138)	25 (172)	30 (207)	35 (241)	40 (276)	45 (310)	50 (345)
200	0.10	3 (1)	3 (1)	4 (2)	4 (2)	5 (2)	5 (2)	5 (2)	6 (3)	6 (3)	6 (3)	6 (3)	7 (3)	7 (3)	7 (3)	8 (4)	10 (5)	11 (5)	12 (5)	13 (6)	14 (6)	16 (7)
	0.22	5 (2)	6 (3)	7 (3)	8 (4)	9 (4)	9 (4)	10 (5)	11 (5)	11 (5)	12 (5)	12 (5)	13 (6)	13 (6)	14 (6)	16 (7)	18 (8)	20 (9)	23 (10)	25 (11)	27 (12)	30 (14)
	0.40	7 (3)	9 (4)	10 (5)	11 (5)	12 (5)	13 (6)	14 (6)	15 (7)	16 (7)	16 (7)	17 (8)	18 (8)	18 (8)	19 (9)	22 (10)	25 (11)	29 (13)	32 (15)	35 (16)	38 (17)	41 (19)
	0.75	13 (6)	16 (7)	18 (8)	21 (10)	23 (10)	24 (11)	26 (12)	28 (13)	29 (13)	31 (14)	32 (15)	33 (15)	34 (15)	36 (16)	42 (19)	48 (22)	54 (24)	60 (27)	66 (30)	72 (33)	78 (35)
	1.30	22 (10)	27 (12)	31 (14)	35 (16)	38 (17)	41 (19)	44 (20)	47 (21)	49 (22)	52 (24)	54 (24)	56 (25)	59 (27)	61 (28)	71 (32)	81 (37)	91 (41)	101 (46)	112 (51)	122 (55)	132 (60)
	2.20	35 (16)	43 (20)	50 (23)	56 (25)	61 (28)	66 (30)	71 (32)	75 (34)	79 (36)	84 (38)	87 (39)	91 (41)	94 (43)	97 (44)	114 (52)	130 (59)	146 (66)	163 (74)	179 (81)	195 (88)	212 (96)
	2.80	43 (20)	53 (24)	62 (28)	69 (31)	75 (34)	81 (37)	87 (39)	92 (42)	97 (44)	103 (47)	107 (49)	111 (50)	115 (52)	119 (54)	139 (63)	159 (72)	179 (81)	199 (90)	219 (99)	239 (108)	260 (118)
	4.4	61 (28)	76 (35)	90 (41)	102 (46)	113 (51)	123 (56)	133 (60)	142 (65)	151 (69)	159 (72)	167 (76)	175 (80)	182 (83)	190 (86)	223 (101)	253 (115)	280 (127)	306 (139)	330 (150)	353 (160)	374 (170)
300	5.5	77 (35)	98 (44)	116 (53)	132 (60)	147 (67)	161 (73)	174 (79)	187 (85)	199 (90)	210 (96)	221 (101)	232 (105)	242 (110)	252 (115)	299 (136)	341 (155)	380 (173)	416 (189)	450 (204)	482 (219)	513 (233)
	7.5	86 (39)	111 (51)	133 (61)	153 (70)	172 (78)	189 (86)	206 (94)	222 (101)	237 (108)	252 (114)	266 (121)	280 (127)	293 (133)	306 (139)	367 (167)	422 (192)	473 (215)	522 (237)	567 (258)	611 (278)	653 (297)
450	10	125 (57)	160 (73)	190 (86)	217 (99)	243 (110)	266 (121)	289 (131)	310 (141)	330 (150)	350 (159)	369 (168)	387 (176)	405 (184)	422 (192)	502 (228)	575 (261)	642 (292)	705 (320)	764 (347)	820 (373)	874 (397)
	12	127 (58)	165 (75)	199 (90)	230 (105)	259 (118)	286 (130)	312 (142)	337 (153)	361 (164)	384 (175)	407 (185)	428 (195)	450 (204)	470 (214)	567 (258)	656 (298)	738 (336)	816 (371)	890 (405)	961 (437)	1030 (468)
600	20	238 (108)	300 (136)	354 (161)	402 (183)	446 (203)	487 (222)	526 (239)	563 (256)	598 (272)	632 (287)	664 (302)	695 (316)	725 (330)	754 (343)	889 (404)	1011 (459)	1122 (510)	1226 (557)	1323 (601)	1415 (643)	1504 (683)
	28	266 (121)	335 (152)	394 (179)	448 (204)	497 (226)	543 (247)	585 (266)	626 (285)	665 (302)	702 (319)	738 (335)	772 (351)	805 (366)	838 (381)	987 (449)	1121 (509)	1243 (565)	1358 (617)	1465 (666)	1567 (712)	1664 (756)
800	40.0	538 (244)	659 (299)	761 (345)	850 (386)	932 (423)	1006 (456)	1076 (488)	1141 (518)	1203 (546)	1275 (578)	1324 (601)	1374 (623)	1424 (646)	1473 (668)	1721 (781)	1969 (893)	2217 (1006)	2465 (1118)	2713 (1231)	2961 (1343)	3209 (1456)

## DI WATER APPLICATIONS

In certain applications the use of pure water is required to ensure there is no chemical or mineral carry-over to the process. Clean rooms, electronic manufacturing, and operating rooms are examples where pure water is commonly used. For these applications CONDAIR offers Condair LS SERIES humidifiers for use with deionized (DI) water.

With Condair LiveSteam for DI applications all wetted parts are manufactured from 304 stainless steel. Refer to the previous chapters for selection method. For a single tube application refer to Table #8 to select your Stainless Steel valve and separator. For a multiple tube application refer to Table #9.

## ELIMINATING HEAT EXCESS FROM LiveSteam HUMIDIFIERS

Heat generated by a distributor in the duct during non-humidifying periods may not be desirable in certain applications. If heat gain is a concern consider the following solutions:

1. Manual shut off valve (by others). This is an inexpensive way of disconnecting humidifier from the steam source during non-humidifying periods. Manual shut off valve has to be installed between humidifier's wye strainer and steam main to allow maintenance without shutting down the entire steam system.
2. Automatic shutoff valve (by others). Installed on the humidifier steam supply line in addition to the manual shut off valve (refer to the local building code). Upon activation it will disconnect humidifier from the steam source during non-humidifying periods.
3. Distributor insulation (CONDAIR option). Minimizes heat gain from distributor(s) during humidification and non-humidification seasons. Insulation changes the outside dimension of the distributor causing larger air pressure drop across the distributors. It also increases absorption distance because distributor has to discharge in the direction of the air flow.

Table 2: Wye Strainer Size

Steam Pressure		Strainer Nominal Diameter in Inches											
		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"	
psig	kPa	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr	lbs/hr	kg/hr
2	14	105	48	182	83	255	116	346	157	638	290	912	414
5	34	124	56	215	98	301	137	409	186	753	342	1075	489
10	69	155	70	270	123	378	172	512	233	944	429	1348	613
15	103	186	85	324	147	454	206	616	280	1135	516	1621	737
20	138	218	99	379	172	530	241	720	327	1326	603	1894	861
25	172	249	113	433	197	607	276	824	374	1517	690	2167	985
30	207	281	128	488	222	683	311	927	421	1708	776	2440	1109
35	241	312	142	543	247	760	345	1031	469	1899	863	2713	1233
40	276	343	156	597	271	836	380	1135	516	2090	950	2986	1357
45	310	375	170	652	296	912	415	1238	563	2281	1037	3259	1481
50	345	406	185	706	321	989	450	1342	610	2472	1124	3532	1605

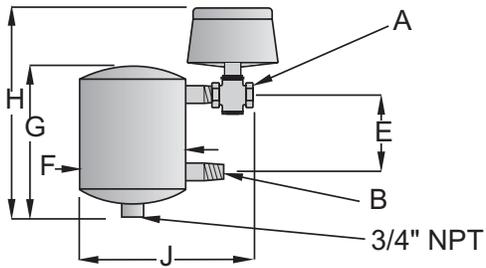
Table 3: Header Sizing

Header capacity		Header nom. diameter inch
lbs/hr	kg/hr	
96	43	3/4"
155	71	1"
244	111	1 1/4"
366	166	1 1/2"
602	274	2"
860	391	2 1/2"
1327	603	3"
1775	807	3 1/2"
2285	1039	4"
3591	1632	5"

Table 4: Stainless Steel Valve SAM-e Distributor

Model	Valve Cv	Steam Pressure to Humidifier's Supply Connection in psig(kPa)																				
		2 (14)	3 (21)	4 (28)	5 (34)	6 (41)	7 (48)	8 (55)	9 (62)	10 (69)	11 (76)	12 (83)	13 (90)	14 (96)	15 (103)	20 (138)	25 (172)	30 (207)	35 (241)	40 (276)	45 (310)	50 (345)
200	0.10	3 (1)	3 (1)	4 (2)	4 (2)	5 (2)	5 (2)	5 (2)	6 (3)	6 (3)	6 (3)	6 (3)	7 (3)	7 (3)	7 (3)	8 (4)	10 (5)	11 (5)	12 (5)	13 (6)	14 (6)	16 (7)
	0.22	5 (2)	6 (3)	7 (3)	8 (4)	9 (4)	9 (4)	10 (5)	11 (5)	11 (5)	12 (5)	12 (5)	13 (6)	13 (6)	14 (6)	16 (7)	18 (8)	20 (9)	23 (10)	25 (11)	27 (12)	30 (14)
	0.40	7 (3)	9 (4)	10 (5)	11 (5)	12 (5)	13 (6)	14 (6)	15 (7)	16 (7)	16 (7)	17 (8)	18 (8)	18 (8)	19 (9)	22 (10)	25 (11)	29 (13)	32 (15)	35 (16)	38 (17)	41 (19)
	0.75	13 (6)	16 (7)	18 (8)	21 (10)	23 (10)	24 (11)	26 (12)	28 (13)	29 (13)	31 (14)	32 (15)	33 (15)	34 (15)	36 (16)	42 (19)	48 (22)	54 (24)	60 (27)	66 (30)	72 (33)	78 (35)
	0.95	16 (7)	20 (9)	23 (10)	26 (12)	29 (13)	31 (14)	33 (15)	35 (16)	37 (17)	39 (18)	41 (19)	42 (19)	44 (20)	45 (20)	53 (24)	60 (27)	68 (31)	76 (34)	83 (38)	91 (41)	98 (44)
	1.30	22 (10)	27 (12)	31 (14)	35 (16)	38 (17)	41 (19)	44 (20)	47 (21)	49 (22)	52 (24)	54 (24)	56 (25)	59 (27)	61 (28)	71 (32)	81 (37)	91 (41)	101 (46)	112 (51)	122 (55)	132 (60)
	1.75	29 (13)	36 (16)	41 (19)	46 (21)	50 (23)	54 (24)	58 (26)	61 (28)	65 (29)	69 (31)	71 (32)	74 (34)	77 (35)	79 (36)	93 (42)	106 (48)	119 (54)	133 (60)	146 (66)	160 (73)	173 (78)
	2.20	35 (16)	43 (20)	50 (23)	56 (25)	61 (28)	66 (30)	71 (32)	75 (34)	79 (36)	84 (38)	87 (39)	91 (41)	94 (43)	97 (44)	114 (52)	130 (59)	146 (66)	163 (74)	179 (81)	195 (88)	212 (96)
	2.80	43 (20)	53 (24)	62 (28)	69 (31)	75 (34)	81 (37)	87 (39)	92 (42)	97 (44)	103 (47)	107 (49)	111 (50)	115 (52)	119 (54)	139 (63)	159 (72)	179 (81)	199 (90)	219 (99)	239 (108)	260 (118)
	3.60	53 (24)	65 (29)	75 (34)	84 (38)	92 (42)	99 (45)	106 (48)	113 (51)	119 (54)	126 (57)	131 (59)	136 (62)	141 (64)	145 (66)	170 (77)	194 (88)	219 (99)	243 (110)	268 (122)	292 (132)	317 (144)
300	4.3	72 (33)	89 (40)	102 (46)	114 (52)	125 (57)	135 (61)	145 (66)	154 (70)	162 (73)	172 (78)	178 (81)	185 (84)	192 (87)	198 (90)	232 (105)	265 (120)	298 (135)	332 (151)	365 (166)	398 (181)	432 (196)
	5.0	83 (38)	101 (46)	117 (53)	131 (59)	143 (65)	155 (70)	165 (75)	175 (79)	185 (84)	196 (89)	203 (92)	211 (96)	219 (99)	226 (103)	264 (120)	303 (137)	341 (155)	379 (172)	417 (189)	455 (206)	493 (224)
	6.2	100 (45)	123 (56)	141 (64)	158 (72)	173 (78)	187 (85)	200 (91)	212 (96)	224 (102)	237 (108)	246 (112)	256 (116)	265 (120)	274 (124)	320 (145)	366 (166)	412 (187)	459 (208)	505 (229)	551 (250)	597 (271)
450	10.0	138 (63)	176 (80)	209 (95)	239 (108)	266 (121)	292 (133)	317 (144)	340 (154)	362 (165)	383 (174)	404 (184)	424 (193)	443 (201)	462 (210)	549 (250)	628 (285)	700 (318)	768 (349)	832 (378)	894 (406)	952 (433)
600	24.0	310 (141)	383 (174)	445 (202)	501 (228)	551 (250)	597 (271)	640 (291)	681 (310)	720 (327)	757 (344)	792 (360)	826 (375)	858 (390)	890 (405)	1035 (470)	1163 (529)	1280 (582)	1387 (631)	1488 (676)	1582 (719)	1672 (760)

Table 5: Separator / Valve Dimensions



	MODEL									
	200		300		450		600		800	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	1/2" NPT		3/4" NPT		1" NPT		1 1/4" / 1-1/2" NPT		2" NPT	
B	1/2" NPT		3/4" NPT		1" NPT		1 1/2" NPT		2" NPT	
E	3.4	86	4.2	107	5.3	135	5.5	140	6.5	166
F	6.0	152	6.0	152	6.0	152	9.0	229	9.0	229
G	7.7	195	8.8	223	10.5	268	11.2	284	12.6	322
H *	11.2	284	12.2	310	13.9	354	23.7	602	25.0	634
J *	9.7	246	10.3	262	11.3	287	16.0	406	16.0	406
Weight in lbs *	24.8		27.5		33.6		49.1		51.3	
Weight in kg *	11.3		12.5		15.3		22.3		23.3	

Notes:

- Model 600 valve Cv = 20 has nominal diameter of 1 1/4" NPT.
- Model 600 valve Cv = 24 or 28 (depends on type of valve; stainless steel or brass) has nominal diameter of 1 1/2" NPT.
- Dimensions are based on SIEBE valve and pneumatic actuator.
- Weight includes valve, pneumatic actuator, separator, and two F&T steam traps.

# SAMPLE SPECIFICATION PART 1 - GENERAL

## 1.1 SECTION INCLUDES:

- Boiler Pressure Steam -  
Condair LS Series

## 1.2 QUALITY ASSURANCE:

- a) Manufacturer: For each product specified, provide components by same manufacturer throughout.
- b) Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authority having jurisdiction, and marked for intended use.
- c) Comply with ARI 640, "Standard for Commercial and Industrial Humidifiers".
- d) Products shall be supported with a warranty that ensures the product will be free from defects in materials and workmanship for a period of two years after shipment.
- e) Commissioning of a system or systems specified in this section is part of the construction process. Documentation and testing of these systems, as well as training of the Owner's operation and maintenance personnel, is required in cooperation with the Commissioning Authority. Project Closeout is dependent on successful completion of all commissioning procedures, documentation, and issue closure. Refer to Project Closeout, Section 01700, for substantial completion details. Refer to Section 01810, Commissioning, for detailed commissioning requirements.
- f) Products specified below are to be manufactured is an ISO 9001-2000 certified facility.

## 1.3 SUBMITTALS:

- a) Submit product data under provisions of Section 15010. Include product description, model, dimensions, component sizes, rough-in requirements, service sizes, and finishes. Include rated capacities, operating weights, furnished specialties, and accessories.
- b) Submit manufacturer's installation instructions.
- c) Submit operation and maintenance data.
- d) Submit coordination drawings. Detail fabrication and installation of humidifiers. Include piping details, plans, elevations, sections, details of components, and dispersion tubes. Detail humidifiers and adjacent equipment. Show support locations, type of support, weight on each support, and required clearances.
- e) Submit wiring diagrams including power, signal, and control wiring. Differentiate between manufacturer-installed and field-installed wiring.
- f) Submit minimum water quality requirements and water pressure requirements.

#### **1.4 EXTRA MATERIALS:**

- a) Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

#### **1.5 REFERENCES:**

- a) ANSI/NFPA70-National Electrical Code.

#### **1.6 COORDINATION:**

- a) Coordinate location and installation of humidifiers in ducts and air-handling units. Revise locations and elevations to suit field conditions and to ensure proper humidifier operation.

XXXXX OR XXXXX

- b) Coordinate location and installation of humidifier in the space it serves with the electrical, mechanical, and plumbing contractors.

## **PART 2 - PRODUCTS**

### **2.1 PRESSURE STEAM HUMIDIFIER**

- a) Pressure steam humidification using a boiler steam generator as a steam source.
- b) Pre-Engineered system, for air handler/duct application, complete with steam control valve, valve actuator, steam distributor(s), and steam separator.
- c) System to be complete with:
  - 1. Operating and safety controls to ensure an automatic and fail-safe system.
  - 2. System to shut down automatically on loss of control signal even when steam pressure is maintained to system.
  - 3. Normally closed steam control valve with equal percent flow characteristics and positive shut off against steam.
  - 4. Stainless steel, light weight steam separator with internal baffle(s) to ensure dry condensate free steam supply to the control valve.
- d) Control valve to be:
  - 1. Compliant with ANSI B 16.15 class 250 pressures and temperature rating B 16.104 class IV control shut off leakage and ANSI/ISA-575.11 flow characteristics standards. Requiring plastic inserts, are not acceptable).
  - 2. Complete with stainless steel seat, stem and plug.
- e) Standard of acceptance: Condair LiveSteam.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- a) Examine ducts, air-handling units, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance.
- b) Examine roughing-in for piping systems to verify actual locations of piping connections before humidifier installation.
- c) Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION:**

- a) Install humidifiers and steam dispersion panels per manufacturers' instructions
- b) Install with required clearance for service and maintenance.

### **3.3 TESTING:**

- a) System verification testing is part of the commissioning process. Verification testing shall be performed by the Contractor and witnessed and documented by the Commissioning Authority. Refer to section 01810, Commissioning, for system verification tests and commissioning requirements.

XXXXX OR XXXXX

- b) Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including piping and electrical connections. Report results in writing.
  - 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
  - 2. Operational Test: After electrical circuitry has been energized, start units to confirm proper unit operation. Remove malfunctioning units, replace with new units, and retest.
  - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

### 3.4 TRAINING

- a) Training of the Owner's operation and maintenance personnel is required in cooperation with the Commissioning Authority. Provide competent, factory authorized personnel to provide instruction to operation and maintenance personnel concerning the location, operation, and troubleshooting of the installed systems. The instruction shall be scheduled in coordination with the Commissioning Authority after submission and approval of formal training plans. Refer to System Demonstrations, section 01670, for contractor training requirements. Refer to section 01810, Commissioning, for further contractor training requirements.

XXXXXORXXXXX

- b) Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain humidifiers.
  - 1. Train Owner's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining equipment and schedules.
  - 2. Review data in maintenance manuals. Refer to Division 1 Section "Contract Closeout".
  - 3. Review data in maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data".
  - 4. Schedule training with Owner, through Architect, with at least seven days advance notice.



# Warranty

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Condair Inc. or Condair Ltd. (depending on the entity that supplied the product, and hereinafter collectively referred to as CONDAIR) warrant for a period of two years after installation or 30 months from the manufacturer's ship date, whichever date is earlier, that CONDAIR's manufactured and assembled products, not otherwise expressly warranted, are free from defects in materials and workmanship. Notwithstanding the foregoing, the products listed below have an alternate warranty period:

- GS/GSTC Series heat exchanger(s) are warranted to be free from defects in materials and workmanship for a period of 3 years from installation or 40 months from the manufacturer's ship date, whichever is earlier.
- SAM-e Short Absorption Manifolds, except for the coupling seals, are warranted to be free from defects in materials and workmanship for a total period of 10 years from the manufacturer's ship date.
- Condair RH Connect and Condair RH Classic humidifiers are warranted to be free from defects in materials and workmanship for a period of 5 years from the manufacturer's ship date.
- Spare Parts used for repairs are warranted for the balance of the term of the warranty on the original humidifier or 90 days, whichever is longer.
- No warranty is made against corrosion, deterioration, or suitability of substituted materials used as a result of compliance with government regulations.

CONDAIR's obligations and liabilities under this warranty are limited to furnishing replacement parts to the customer, F.O.B. CONDAIR's factory. The replacement parts are warranted for the balance of the term of the warranty on the original humidifier or 90 days, whichever is longer. Procedure:

1. Customer Requests Warranty as per instructions on the CONDAIR Warranty Form.
2. CONDAIR reviews the warranty claim and will respond in one of two ways:
  - a. Warranty Accepted – Replacement Part or credit granted.
  - b. Warranty Declined – Response with justification will be provided to the customer.
3. In some cases, CONDAIR may request the part to be returned, freight prepaid by the customer, as part of the warranty acceptance or warranty determination process. Some reasons include:
  - a. Part must be analyzed to determine the root cause of failure.
  - b. Part must be returned to the supplier for claim/investigation.

When parts are requested to be returned, replacement parts will be sent by CONDAIR to the customer against an invoice from CONDAIR paid by the customer. The cost of the replacement parts will be reimbursed to the customer with a credit note after the parts are received and analyzed by CONDAIR, if the warranty is accepted.

The warranties set forth herein are in lieu of all other warranties expressed or implied by law. No liability whatsoever shall be attached to CONDAIR until said products have been paid for in full and then said liability shall be limited to the original purchase price for the product. Any further warranty, with the exception of a purchased extended warranty described below, must be in writing, and signed by an officer of CONDAIR.

CONDAIR makes no warranty and assumes no liability unless the equipment is installed in strict accordance with the installation manual in effect at the date of purchase, and by properly qualified and licensed professionals capable of installing such equipment.

CONDAIR makes no warranty and assumes no liability whatsoever for consequential damage or damage resulting directly from misapplication, incorrect sizing, or lack of proper maintenance of the equipment.

CONDAIR makes no warranty and assumes no liability whatsoever for damage to the products, humidifier, supply lines, drain lines, steam distribution systems, or the building as a whole caused by freezing.

CONDAIR reserves the right to change the design, specifications, and performance criteria of its products without notice or obligation.

## **Extended Warranty**

Extended warranties are available to purchase under the conditions listed above. Extended warranties must be purchased at the time of the original equipment order.



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