RH2NT-Series

Humidificadores Residenciales

Humidificadores de Vapor | Generación de Vapor | 4 - 5 Kg/h

Datos del Producto

The importance of having an RH Series humidifier in your home

- Pure, clean, sterile steam humidification
- Easy maintenance using disposable cylinder
- QDV model is the quietest residential steam humidifier in the market
- Auto-adaptive technology adapts to changing water conditions
- Automatic fill and drain cycles

Comfort and health

Studies show correct interior humidity levels minimize the spread of bacteria and viruses avoiding the problems associated with dry throats and nasal passages during the winter months while also keeping your skin supple.

RH Series electrode steam humidifiers remove calcium and minerals from the water used so only clean, pure steam is added to indoor air, making the air in your home healthier to breathe.

Protect valuable furnishings, instruments and art

Wood and upholstered furniture, drapes, carpets and other fabrics around your home will all deteriorate more rapidly if they get too dry or too wet. They need correct humidity to maintain their shape and strength. The same goes for fine art, antiques and expensive musical instruments, especially pianos, violins and related strings and woodwinds.

Reduce static electricity

Prevent those annoying static electricity shocks in the winter time by keeping your house humidified using the RH Series.

SPECIFICATIONS	RH DUCT	RH SPACE
Wiring Connection	Hardwired	Hardwired
Rated Current	15.9 A	12.7 A
Maximum Ext. Protection	20 A	20 A
Voltage/Phase	110-240/1	110-240/1
Capacity: lbs/hr (kg/hr)	5.0-10.0 (2.3-4.6)	4.0-8.0 (1.8-3.6)
Consumption: gal/day (l/day)	14.5-29.0 (55.1-110.2)	11.6-23.2 (44.1-88.2)
Dimensions: in (cm)	21.4 (54.4) H x 11.4 (29.0) W x 6.9 (17.4) D	
Weight: lbs (kg)	21 (9.5)	22 (10)
Controls	On/off or modulating	
Steam Distribution	Duct mounted distributor or remote blower	Built-in blower

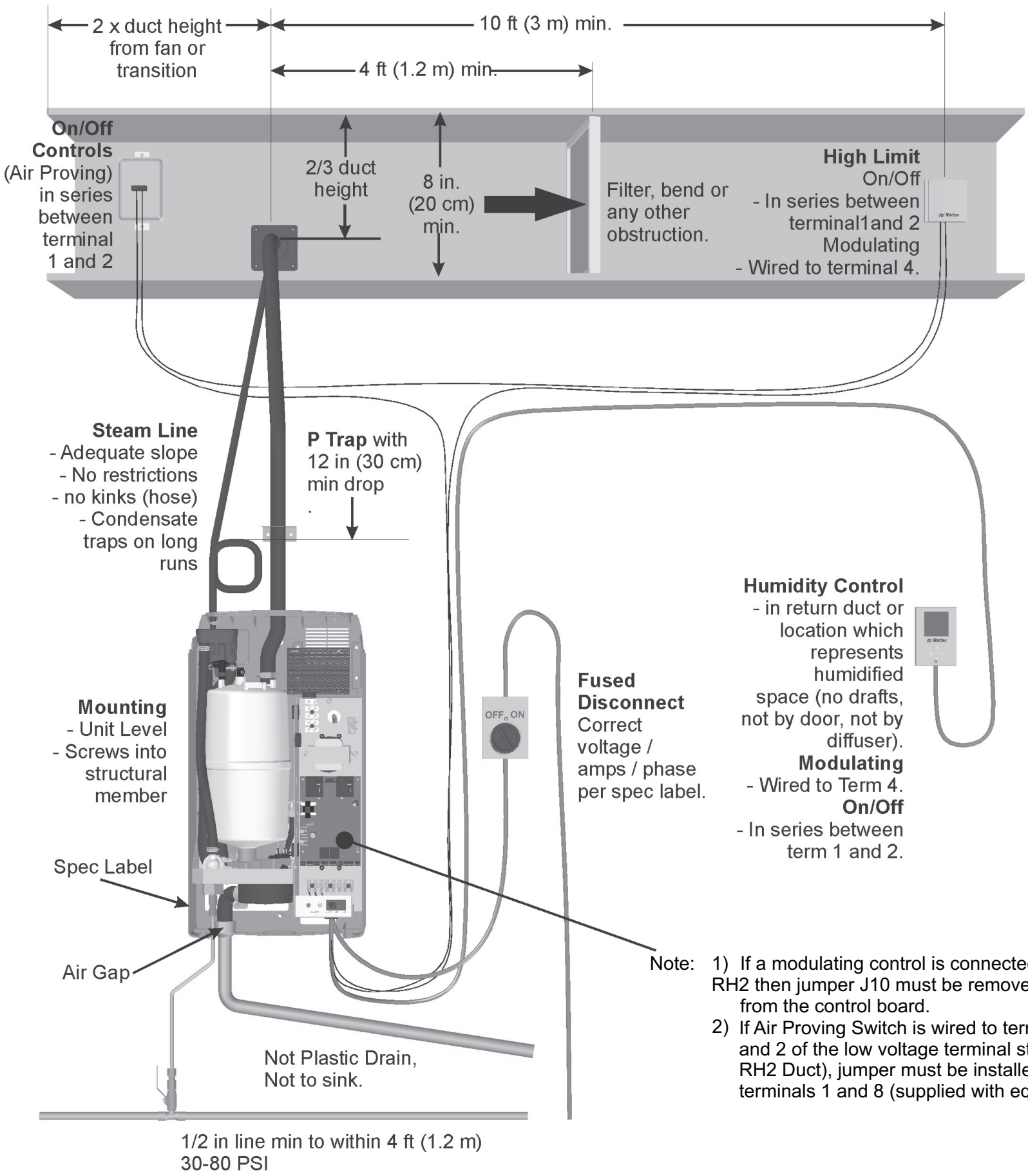
Certified System ISO 9001 QMI-SAI Global

E65185

All scale and mineral sediment is deposited into the cylinders which are easily changed and discarded. Cylinder replacement requires no special tools and can be done in a few minutes. A light on the unit indicates when the cylinder needs replacement.

Installation requires only a potable water supply, water drainage and 110-240V power. Units are wall mounted for direct room or duct steam distribution.

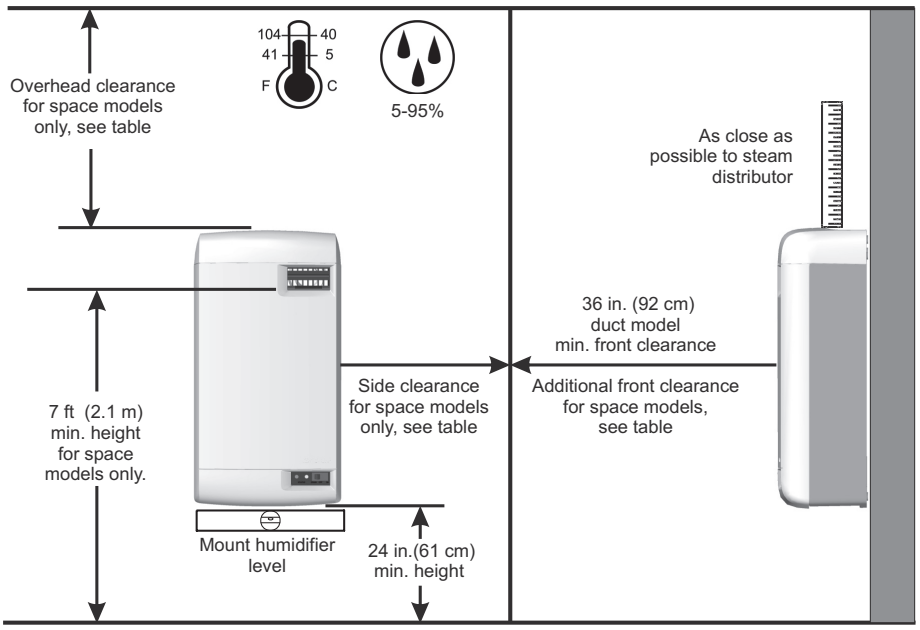
RH2 Installation Check



Note: 1) If a modulating control is connected to the RH2 then jumper J10 must be removed from the control board.

2) If Air Proving Switch is wired to terminals 1 and 2 of the low voltage terminal strip (for RH2 Duct), jumper must be installed between terminals 1 and 8 (supplied with equipment).

Mounting



Mounting Procedure

1. The Nortec RH2 humidifier is wall mounted using a keyhole located on the back of the humidifier.
2. Use #8 x 2 in. (5 cm) screws mounted into 2x4 studs or better if there is drywall or other spacers. 2 screws are needed, one for hanging the unit and one for securing it so it will not lift off the keyhole.
3. Install the top screw so that 1/4 in. (6 mm) is exposed. Raise the unit and place the screw head through the keyhole.
4. Make sure the unit is level and then insert and tighten the second screw through the bottom hole. Tighten the top screw.

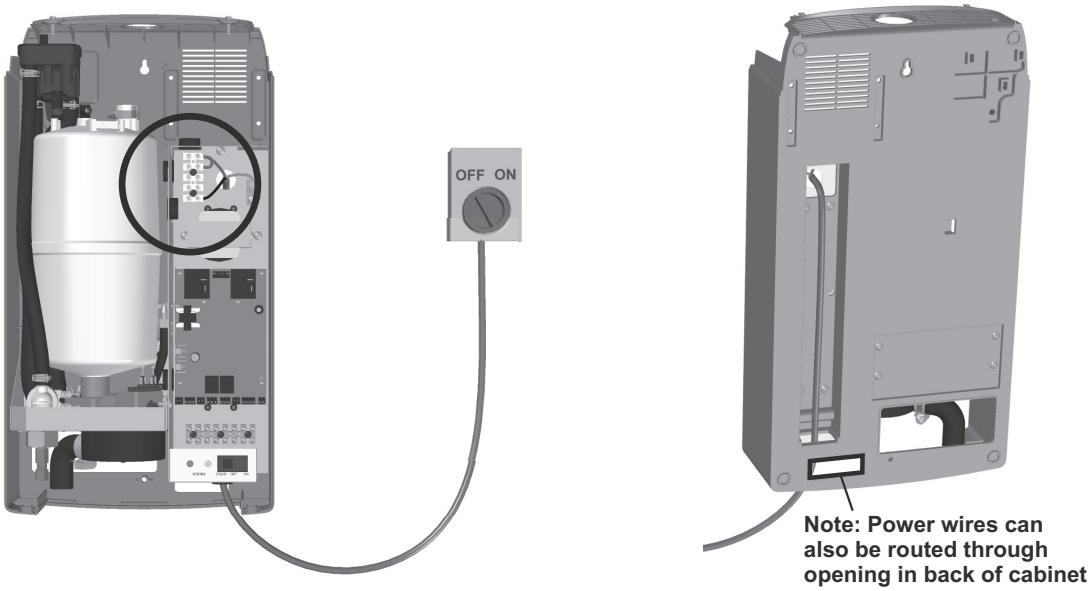
Mounting Requirements

Condair does not accept responsibility for installation code violations.

1. Install as close as possible to the steam distributor.
2. Minimize the use of turn or bends in the steam line as much as feasibly possible.
3. Mount on a suitable wall or vertical surface. Do not sit the on the floor, where freezing can occur, or on vibrating surfaces.
4. Allow clearances for plumbing and electrical connections. Consult local and national codes prior to final location and installation.
5. Install only in areas with ambient temperature 41-104°F (5 – 40°C), and relative humidity 5 - 95% (non-condensing).
6. When possible, mount the Nortec RH2 humidifier at a height convenient for servicing.

Humidifier Output lb (kg)	Additional Clearance for Space Models Only		
	Side in. (cm)	Overhead in. (cm)	Front in. (cm)
<4 (1.8)	12 (30)	12 (30)	36 (92)
6 (2.7)	16 (40)	18 (46)	42 (107)
8 (3.6)	18 (46)	18 (46)	48 (120)

Electrical



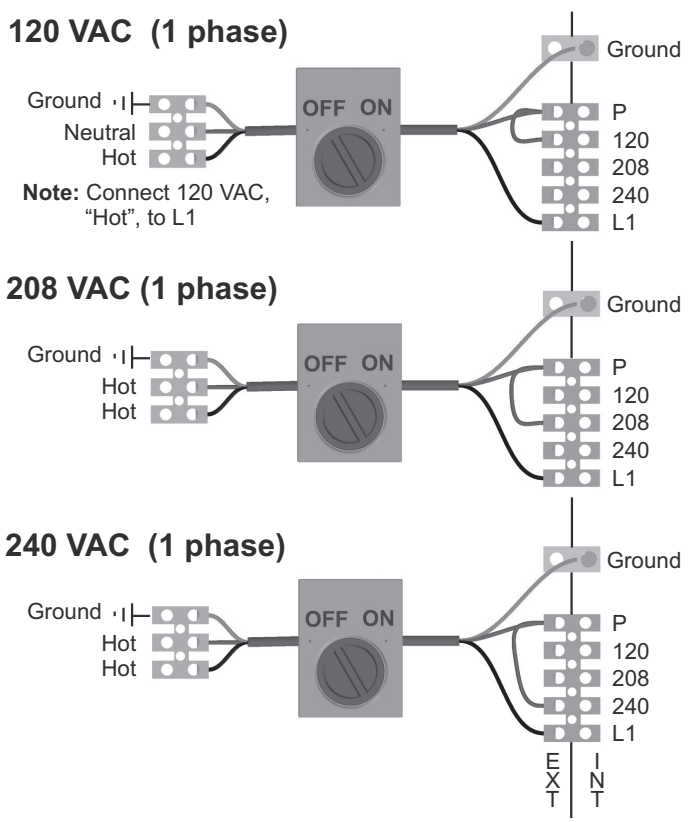
Install Requirements

Condair does not accept responsibility for installation code violations.

1. All electrical connections to the humidifier are to be done while the unit is switched off, and the external disconnect is open.
2. Wiring should be done by a licensed electrician.
3. Install a labeled disconnect switch within view of the humidifier.

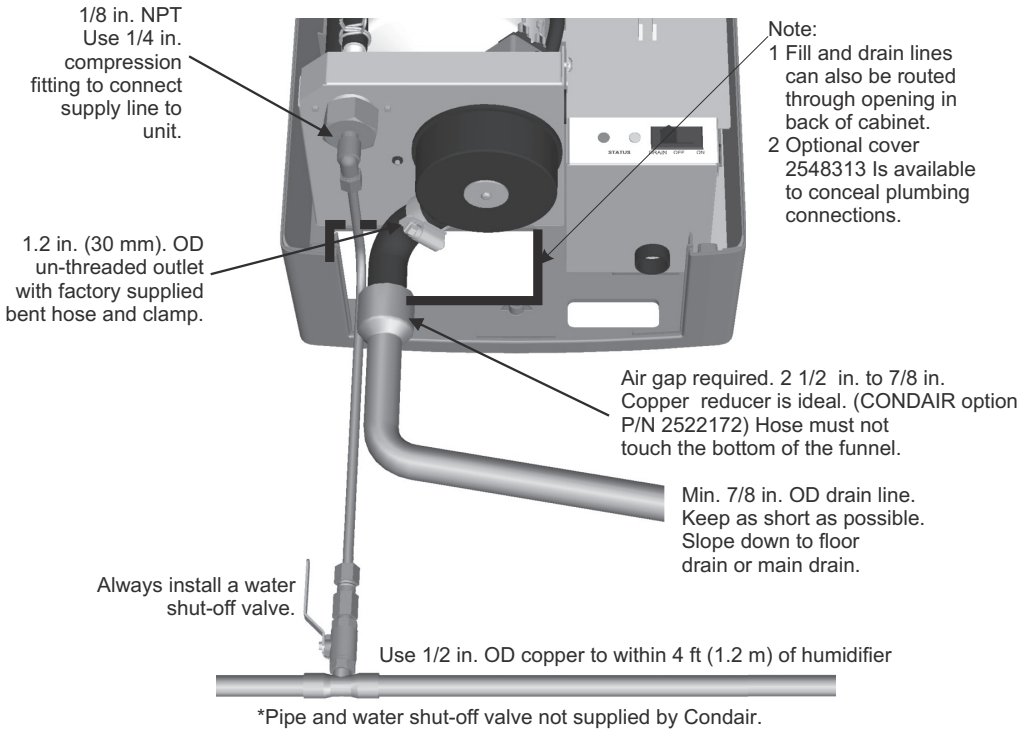
Note:

1. Install jumper between P and terminal that corresponds to supply voltage.
2. Dedicated external fused disconnect must be installed. Fusing must not exceed max circuit protection as indicated on the specification label.
3. Ensure that adequate power is available to carry full humidifier amp draw as indicated on the specification label.
4. Do not use neutral wire as a ground, connect to ground lug.
5. All Wiring to be in accordance with national and local electrical codes.



WARNING	Wiring needs to be preformed by a licensed Electrician.

Plumbing



Water Supply Requirements

Condair does not accept responsibility for installation code violations. All drain and fill line connections should be installed in accordance with local plumbing codes by a licensed plumber.

1. Use ½" OD copper or plastic supply lines within 4 feet of the humidifier.
2. Install water shut off valve and coupler to facilitate servicing.
3. Do not use reverse osmosis or de-ionized water.
4. Flush supply lines with fresh clean water after installing, prior to operating the humidifier.
5. Do not solder/braze copper lines while connected to the humidifier or the fill solenoid can melt or deform.
6. Water conditions must meet the following criteria for optimal operation, consult factory for water conditions outside of this range.
   a. Pressure: 30 to 80 PSIG
   b. Conductivity: 150-1200 Microsiemens
   c. Temperature: 33.8-68°F/1-20°C
   d. Harness 0-10 GPG and Silica 0-4 PPM
   –OR–
   Hardness 0-3 GPG and Silica 0-14 PPM

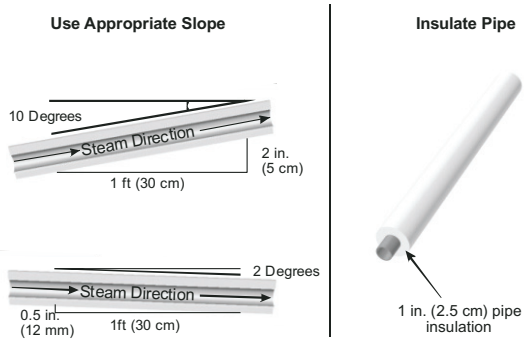
Drain Line Requirements

1. Use 7/8 Copper. Do not use PVC.
2. Install an air gap within three feet of the humidifier. A copper reducer from 2.5"-7/8" is ideal, do not allow the drain hose to bottom out in the funnel cup.
3. The drain line should not end in a sink used frequently by personnel, or where plumbing codes prohibit it. Route to a floor drain or equivalent for safety reasons.
4. Insure drain line is adequately sloped and sized to provide free and easy draining.

Steam Distribution

Install Requirements

1. Steam lines must not have any restrictions which could result in back pressure.
2. Follow recommended materials, size and length, see table.
3. Slope the steam lines a minimum of 2” for every 12” horizontal run against the flow of steam and 0.5” for every 12” horizontal run with the flow of steam.



4. Insulate copper or SS tube with 1.0 in. (2.5 cm) pipe insulation.
5. Trap low points in steam line with full size ‘T’ fittings, and off of the distributor condensate connection. Condensate traps must be a minimum of 3 in. in height or duct static pressure + 2 in. (whichever is greater) and drop a minimum of 12 inches prior to the top of the trap.
6. Do not over tighten hose clamp at cylinder steam outlet. The maximum torque is 12 in-lbs.
7. Support the steam line so the weight does not rest on the cylinder.

Voltage	Steam Output lbs/hr (kg/hr)	Material*			Maximum Steam Line Length ft (m)	Possible Losses lbs/hr (kg/hr)
		Condair Steam Hose	MED-L Copper Tube	Stainless Steel Tube		
110-120V	5 (2.3)	Part Number 1328810 (7/8”)	3/4”	0.875 X 0.049W	7 (2)	0.5 (0.2)
208V	8.7 (3.3)				10 (3)	1 (0.5)
220-240V	10 (4.6)				12 (3.5)	1.5 (0.7)
Oversized Steam Line (used for longer steam runs)**						
110-120V	Not recommended	Not Recommended	1”	1.125 X 0.049W	Not Recommended	
208V	8.7 (3.3)				12 (3.5)	2 (0.9)
220-240V	10 (4.6)				24 (7)	3 (1.4)

* The use of steam line other than copper, stainless steel tube or Condair supplied steam line will void the warranty and may adversely affect the operation of the humidifier.

** These diameters require a reducer at humidifier and steam distributor connection. Use Condair part number 1115444 at humidifier to prevent backpressure caused by condensation collecting at the reduction.