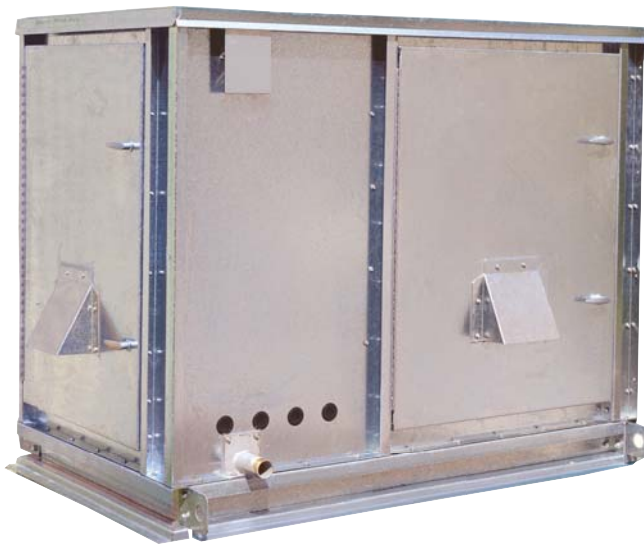


DRISTEEM®

Outdoor Enclosure

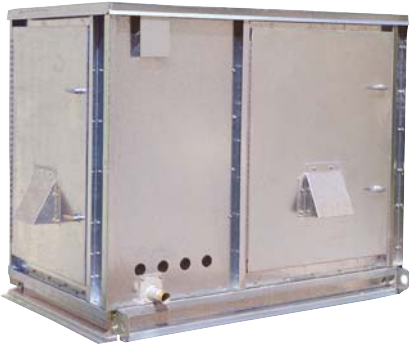
PRODUCT CATALOG



from the Humidification Experts

Operate humidifiers in any climate

Figure 2-1:
Outdoor enclosure



The outdoor enclosure is an available option for Vaporstream, LTS, STS and GTS humidifiers. For STS and GTS outdoor enclosure information, see the STS and GTS product catalogs.

Outdoor enclosure expands application flexibility

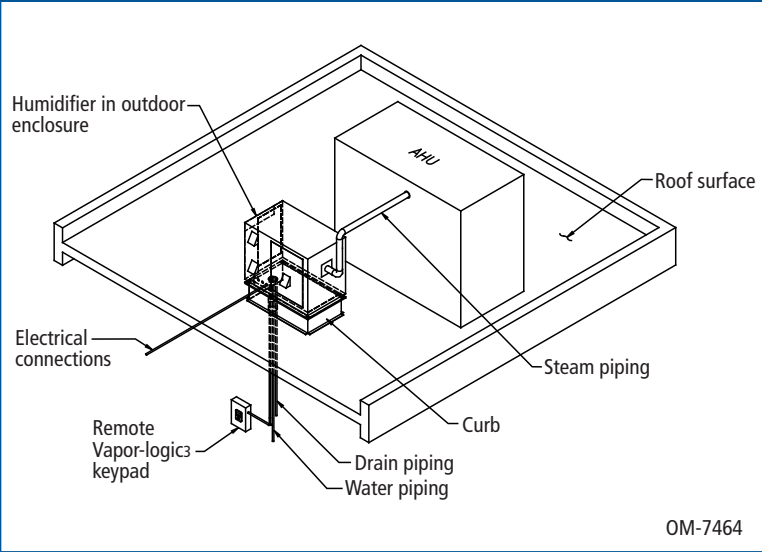
Outdoor humidifier operation in any climate is now possible with the DRI-STEEM® outdoor enclosure. This prepackaged, factory-assembled unit ships complete to the job site, ready for easy-to-connect gas, water, electrical or steam field connections to the preinstalled humidifier inside. With a variety of available mounting options — curb, legs, or flush — installation is a snap. This outdoor enclosure is available for use with DRI-STEEM Vaporstream® and LTS® humidifiers. For STS® and GTS® outdoor enclosure information, see the STS and GTS product catalogs.

Outdoor enclosure features

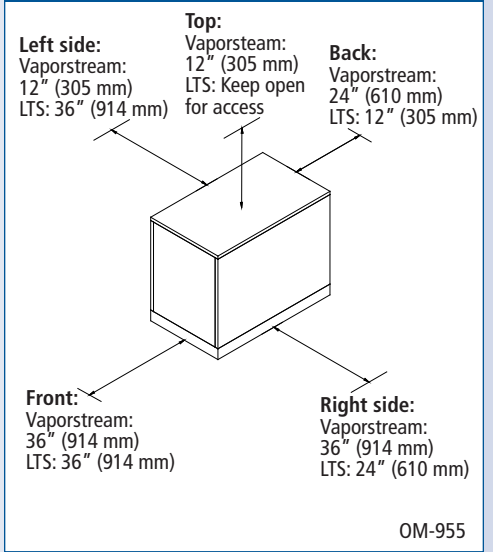
- **Install on the ground or on the roof.** Outdoor enclosures are ideal for facilities that have limited interior space.
- **Factory constructed and assembled.** The outdoor enclosure is shipped complete with your humidifier preinstalled and tested. Humidifiers are prepped within the enclosure with an integral water seal and are ready for quick connection to gas, water, steam and electricity.
- **Certified, tested and proven.** In-house testing and numerous successful installations have proven that the outdoor enclosure provides reliable operation under extreme conditions.
- **Easy access for service.** Steel enclosure doors provide full access to all internal components. The doors feature stainless steel hinges and latches operable from both the exterior and interior of the unit.
- **Protects in cold and hot climates.** To ensure complete safety and operation in all climates, the outdoor enclosure has supplemental heating and ventilating systems that automatically maintain required operation conditions. DRI-STEEM humidifiers housed in outdoor enclosures operate properly when outdoor temperatures range from -40°F to 122°F (-40°C to 50°C).
- **Robust design.** The outdoor enclosure is ruggedly built to completely protect internal components. The enclosure is constructed of heavy-duty galvanized steel and is fully insulated. Gaskets on doors ensure a tight seal.

Outdoor enclosure overview

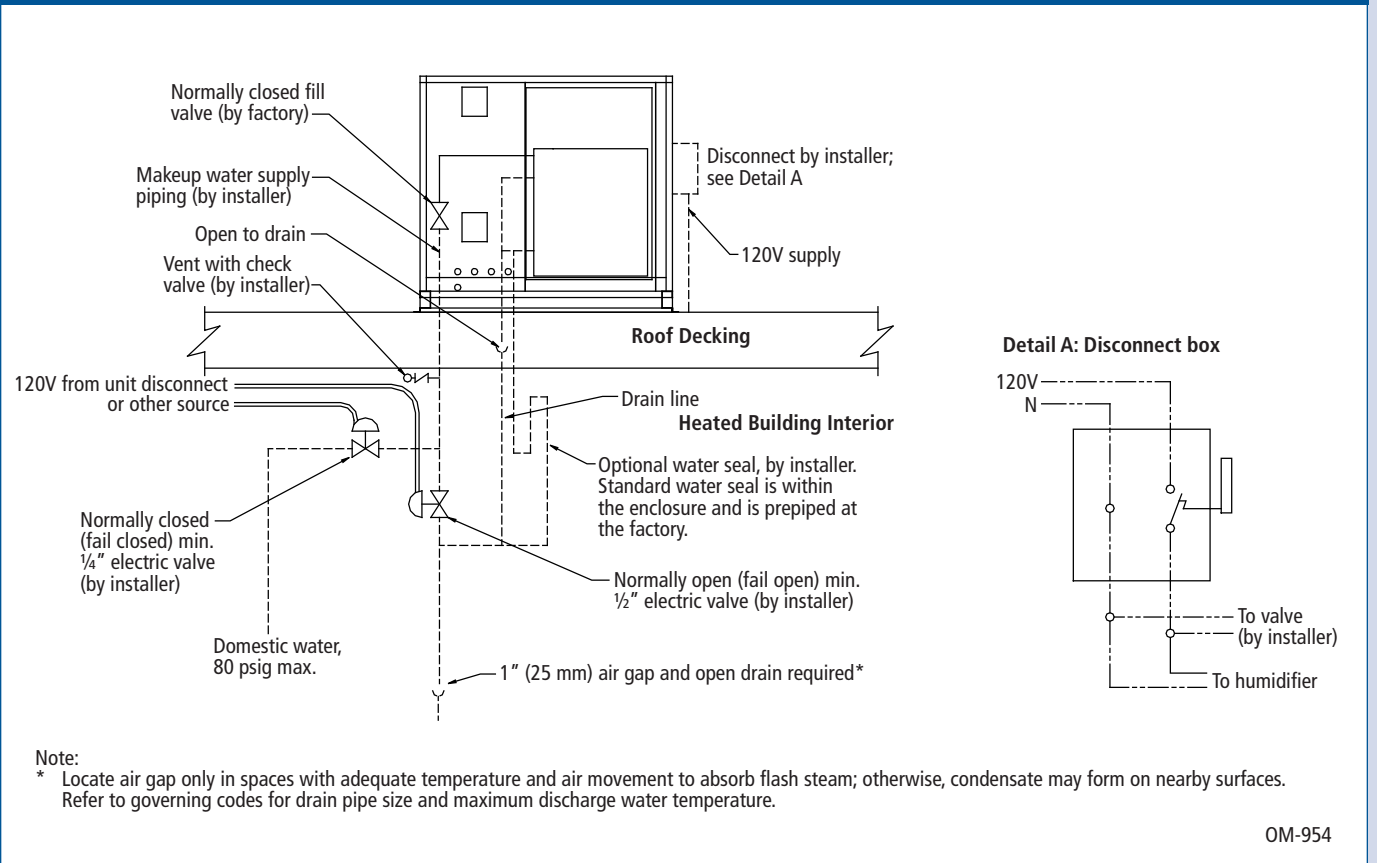
**Figure 3-1:
Typical rooftop installation overview**



**Figure 3-2:
Outdoor enclosure clearances**

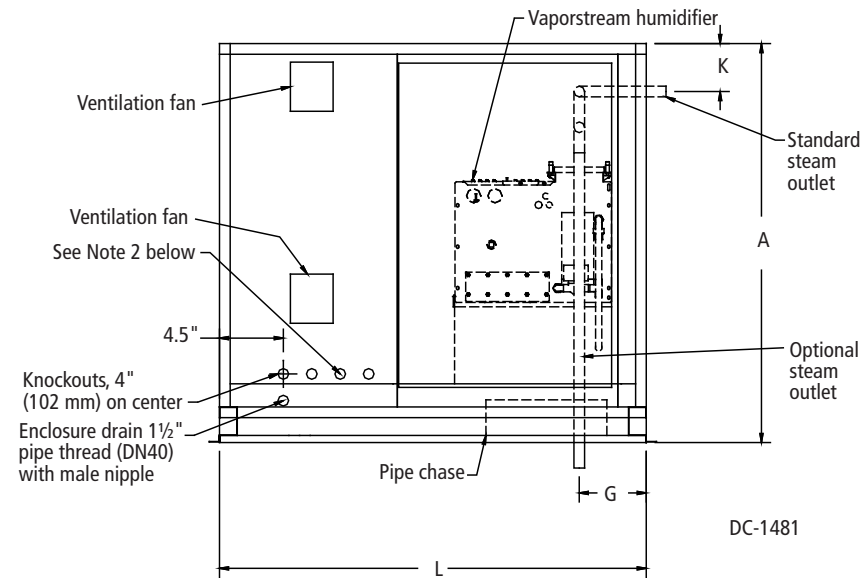


**Figure 3-3:
Optional installation method for water supply piping**



Vaporstream outdoor enclosure

Figure 4-1:
Vaporstream outdoor enclosure with standard or optional steam outlet, elevation view



Notes:

1. The outdoor enclosure has two available steam distribution configurations. The standard configuration has a steam outlet at the back of the outdoor enclosure for connecting to steam dispersion unit piping. The optional internal steam distribution configuration routes steam within the outdoor enclosure and down through the enclosure pipe chase into a building.
2. There are four knockouts located on the right and left side of the enclosure. Knockout sizes are 1½" (hole dia. 50 mm) for Vaporstream models with 1-6 heaters and 2" (hole dia. 63.5 mm) for Vaporstream models with 9-12 heaters. Run the electrical power into the enclosure at these knockouts.
3. All piping from the Vaporstream unit to the steam outlet is stainless steel pipe. Depending on the application, interconnecting piping from the steam outlet to the dispersion assembly can be tubing, pipe or DRI-STEEM vapor hose. See the *Vaporstream Installation, Operation and Maintenance Manual* for more information about connecting to the dispersion assembly.
4. A separate 15 amp, 120 VAC service must be brought to the outdoor enclosure to power the enclosure heaters and fans.

Table 4-1:
Vaporstream outdoor enclosure dimensions*

Item	Description	Vaporstream models			
		with 1-6 heaters		with 9-12 heaters	
		inches	mm	inches	mm
A	Enclosure height	56.00	1422	56.00	1422
B	Enclosure width	40.00	1016	54.00	1372
C	Pipe chase position	2.50	67	2.50	67
D		2.50	64	2.50	64
E	Pipe chase size	8.00	203	8.00	203
F		19.50	495	19.50	495
G	Steam pipe position	13.50	343	13.50	343
H		22.00	559	29.50	899
J		7.00	178	7.00	178
K		8.25	210	9.25	235
L	Length	60.00	1524	64.00	1626

Note:

* See drawings above and on the next page.

Vaporstream outdoor enclosure

Figure 5-1:
Vaporstream outdoor enclosure, top view

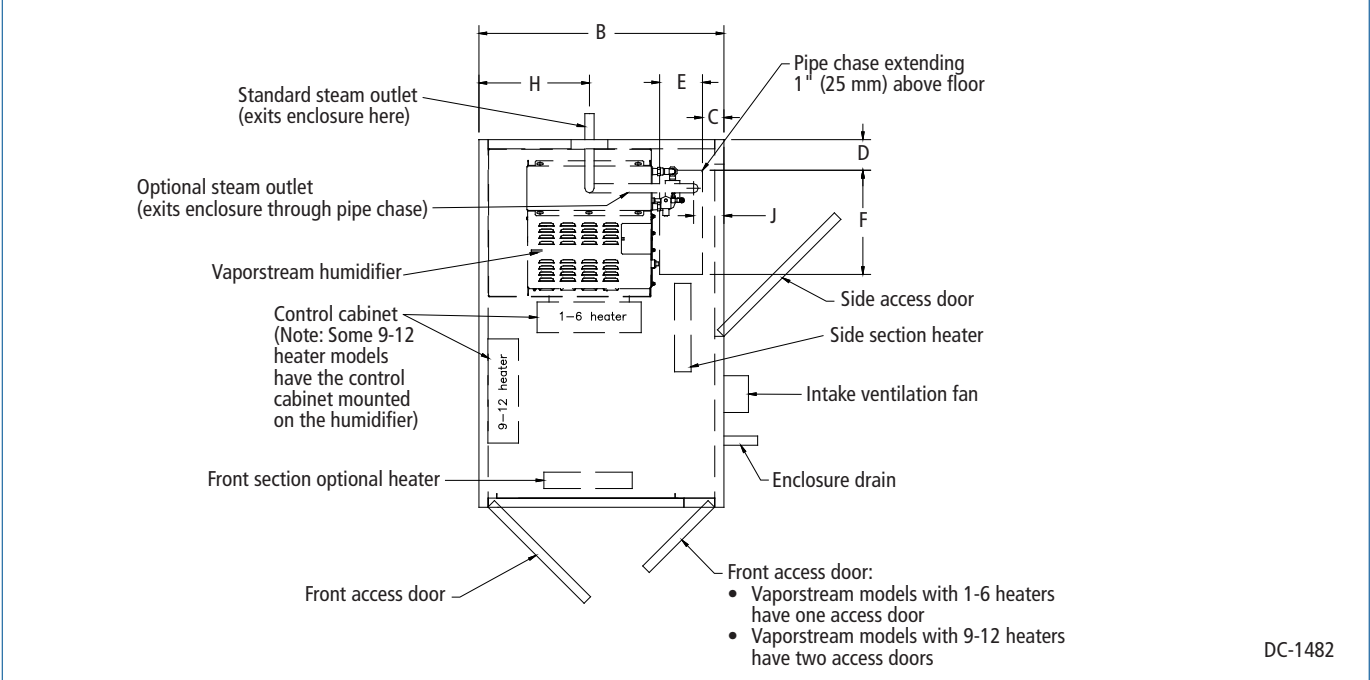


Table 5-1:
Vaporstream outdoor enclosure connection sizes

Description	All Vaporstream models
Water makeup (fill)	1/4" pipe thread (DN8)
Drain	3/4" (DN20)
Condensate return	3/4" pipe thread (DN20)
Steam outlet	See Vaporstream catalog

- Notes:**
- See your humidifier’s catalog or installation, operation and maintenance manual for capacities and input requirements.
 - Add 15 full load amps (120 VAC) when using an outdoor enclosure with a heater package.
 - Add 2 full load amps (120 VAC) when using an outdoor enclosure without a heater package.

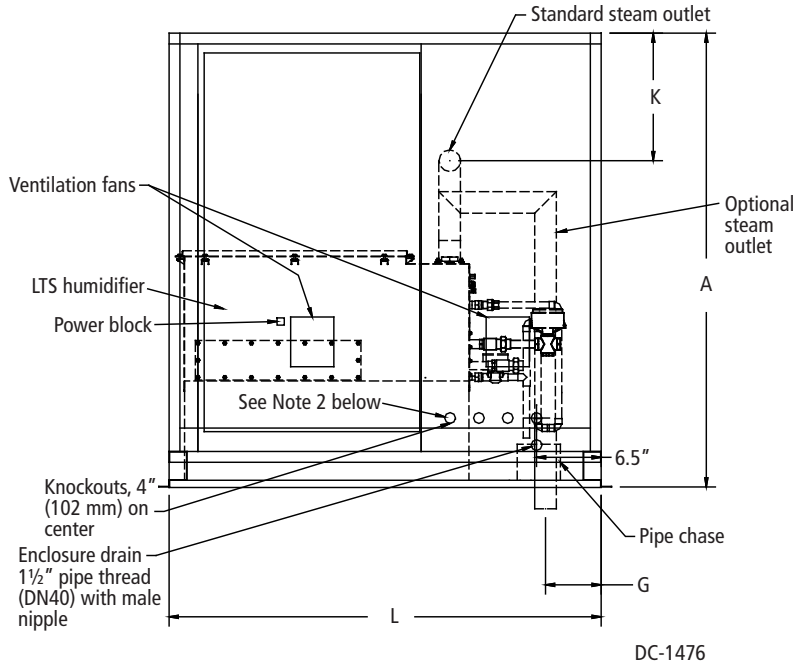
Table 5-2:
Vaporstream outdoor enclosure weights

Vaporstream model	Number of heaters	Outdoor enclosure shipping weight*		Outdoor enclosure operating weight*	
		lbs	kg	lbs	kg
2-1, 3-1, 4-1, 5-1	1	485	220	530	240
6-1, 9-1, 12-1, 16-1, 21-1, 25-1	3	515	234	620	281
12-2, 18-2, 24-2, 32-2, 42-2, 50-2	6	535	243	690	313
18-3, 27-3, 36-3, 48-3, 63-3, 75-3	9	860	390	1090	494
24-4, 36-4, 48-4, 64-4, 84-4, 100-4	12	910	413	1190	540

Note:
* Includes humidifier

LTS outdoor enclosure

Figure 6-1:
LTS outdoor enclosure with standard or optional steam outlet, elevation view



Notes:

1. The outdoor enclosure has two available steam distribution configurations. The standard configuration has a steam outlet on the right side of the outdoor enclosure for connecting to steam dispersion unit piping. The optional internal steam distribution configuration routes steam within the outdoor enclosure and down through the enclosure pipe chase into a building.
2. There are four knockouts located on the right and left side of the enclosure. Knockout sizes are 1½" (hole dia. 50 mm) for LTS models 25-100, and 2" (hole dia. 63.5 mm) for LTS models 200-800. Run the electrical power into the enclosure at these knockouts.
3. All piping from the LTS unit to the steam outlet is stainless steel pipe. Depending on the application, interconnecting piping from the steam outlet to the dispersion assembly can be tubing, pipe or DRI-STEEM vapor hose. See the *LTS Installation, Operation and Maintenance Manual* for more information about connecting to the dispersion assembly.
4. The preferred location for the LTS hot liquid valve is inside the outdoor enclosure. If one of these valves must be located inside the building, it must be located within 6' (1.8 m) of the humidifier to reduce pressure drop.

Table 6-1:
LTS outdoor enclosure dimensions*

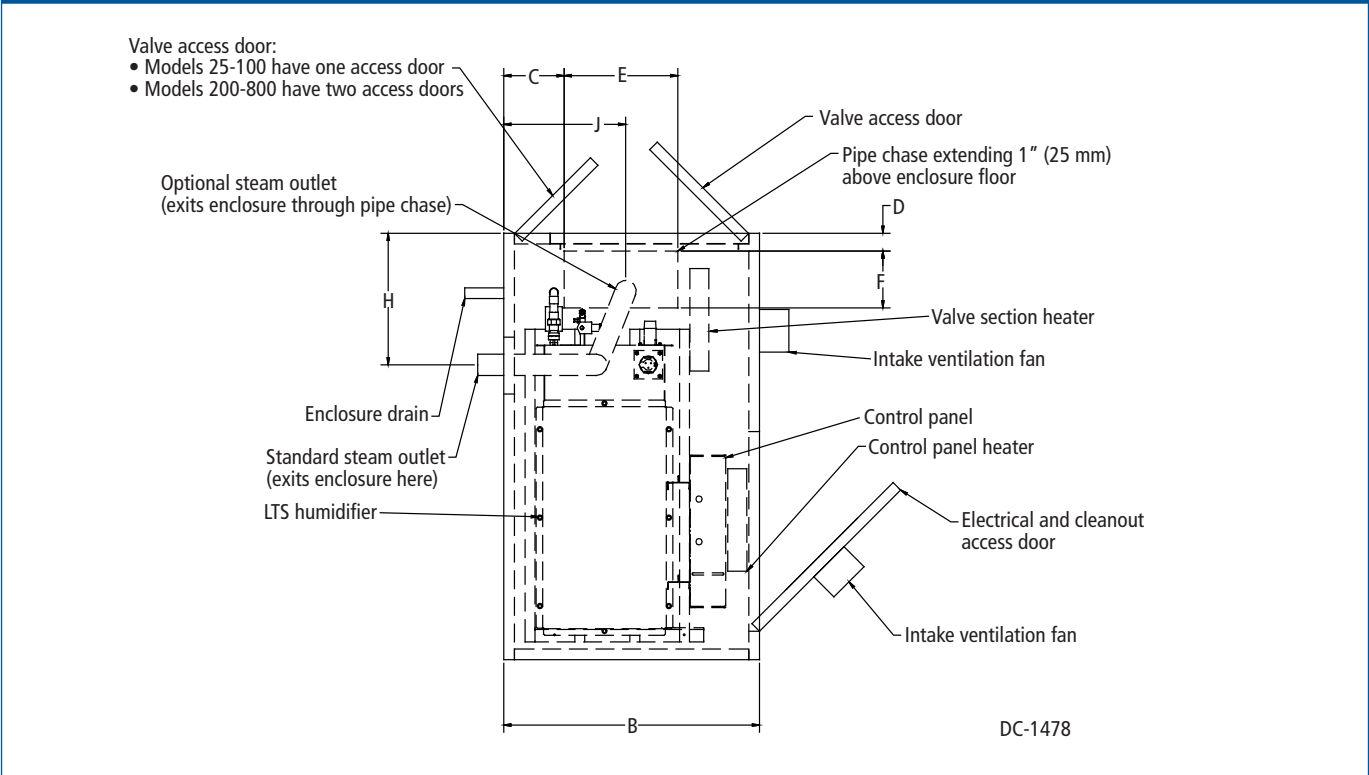
Item	Description	LTS or LTS-DI model number			
		25 and 100		400	
		inches	mm	inches	mm
A	Enclosure height	56.00	1422	66.00	1676
B	Enclosure width	36.00	914	46.00	1168
C	Pipe chase position	4.50	114	4.50	114
D		2.00	57	3.50	89
E	Pipe chase size	20.00	508	32.00	312
F		8.00	203	10.00	254
G	Steam pipe position	6.00	152	8.50	216
H		18.63	473	22.00	559
J		14.50	368	20.50	521
K		12.25	311	11.00	279
L	Enclosure length	60.00	1524	78.00	1981

Note:

* See drawings on this and the next page.

LTS outdoor enclosure

**Figure 7-1:
LTS outdoor enclosure, top view**



**Table 7-1:
LTS outdoor enclosure weights**

LTS or LTS-DI model number	Outdoor enclosure shipping weight*		Outdoor enclosure operating weight*	
	lbs	kg	lbs	kg
LTS-25	600	272	680	308
LTS-100	625	284	850	386
LTS-400	1050	476	1700	771

Note:
 * Includes humidifier

**Table 7-2:
LTS outdoor enclosure connection sizes**

Description	LTS or LTS-DI model number	
	25 and 100	400
Water makeup (fill)	1/4" pipe thread (DN8)	1/4" pipe thread (DN8)
Drain	3/4" (DN20)	1" (DN25)
Condensate return	3/4" pipe thread (DN20)	3/4" pipe thread (DN20)
Steam outlet	See LTS catalog	

Notes:

- See your humidifier's catalog or installation, operation and maintenance manual for capacities and input requirements.
- Add 15 full load amps (120 VAC) when using an outdoor enclosure with a heater package.
- Add 2 full load amps (120 VAC) when using an outdoor enclosure without a heater package.

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