

Stainless Steel Sump Ejector

Armstrong Condensate Management Group offers a stainless steel sump ejector for use in draining unwanted water from steam pits, steam tunnels or enclosed spaces. The stainless steel sump ejector uses a snap-acting Inconel X-750 spring-assisted mechanism, which engages a steam motive valve, turning the pump on or off as the float rises and falls. The all stainless steel design will ensure long life in the rather harsh environment of a steam pit.

The stainless steel sump ejector is designed to eliminate maintenance headaches and safety issues surrounding steam pits, tunnels and enclosed spaces.

Features

- All stainless steel construction and design guard against corrosion
- True steam-on, steam-off operation
- Heavy duty Inconel X-750 springs provide a long, troublefree service life
- The small, compact and unique cast stainless steel design is unlike anything on the market today

For a fully detailed certified drawing, refer to list below.

3/4	CDF #1052	
1-1/2"	CDF #1065	,

Stainless Steel Sump Ejector Materials										
Name of Part	Material									
Mechanism	ASTM A351 CF8M									
Springs	Inconel X-750									
Spring Ends	304 Stainless Steel									
Clevis Pins	304 Stainless Steel									
Body	ASTM A351 CF8M									
Nozzle	308 Stainless Steel									
Seal Retainer	308 Stainless Steel									
Motive Ball	440-C Stainless Steel									
Motive Valve	316 Stainless Steel									
Rod Seal	PTFE									
Seal Spring	Hastelloy C-276									
Rod Wiper	Nitrile									
0-Ring	EPDM									
Bolts	18-8 Stainless Steel									
Strainer Body	Glass Filled Nylon									
Strainer Mesh	Stainless Steel									
Fittings	304 Stainless Steel									
Pipe	304 Stainless Steel									



Stainless Steel Sump Ejector



Steam Inlet

1/2" NPT

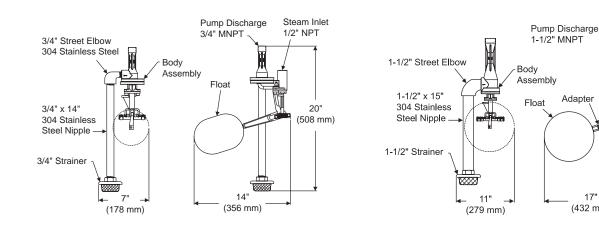
27"

(686 mm)

Adapter

17"

(432 mm)



3/4" Model 1-1/2" Model

3/4" Stainle	4" Stainless Steel Sump Ejector Capacities in gallons per minute (gpm)																
Disabausa	Motive Steam Pressure (neig)							Wate	er Tempo	erature 1	Water Temperature 140°F						
Discharge Head (ft)								Motive	Steam	Pressure	Motive Steam Pressure (psig)						
iicau (ii)	40	60	80	100	120	150	40	60	80	100	120	150	60	80	100	120	150
0	6.0	9.3	11.6	12.2	12.8	12.9	6.0	9.0	9.2	8.6	8.0	8.0	5.5	5.3	5.4	5.5	5.5
5	4.0	7.3	9.9	11.1	11.9	12.4	3.0	7.1	8.2	8.1	7.8	7.8	4.5	4.5	5.3	5.4	5.4
10	2.0	5.2	8.3	10.0	11.0	11.9	_	5.2	7.2	7.7	7.6	7.6	3.5	3.5	5.2	5.2	5.2
15	_	3.2	6.6	8.9	10.0	11.5	_	3.3	6.2	7.2	7.3	7.4	_	_	5.1	5.1	5.1
20	_	_	5.0	7.8	9.2	11.0	_	_	5.2	6.7	7.1	7.3	_	_	5.0	4.9	4.9
25	_	_	_	6.7	8.3	10.5	_	_	_	6.2	6.8	7.1	_	_	4.9	4.8	4.8
30	_	_	_	5.6	7.4	10.0	_	_	_	5.7	6.6	6.9	_	_	4.8	4.6	4.6
35	_	_	_	_	6.5	9.5	_	_	_	_	6.4	6.7	_	_	_	4.5	4.5
40	_	_	_	_	5.6	9.1	_	_	_	_	6.1	6.6	_	_	_	4.3	4.3
45	_	_	_	_	_	8.6	_	_	_	_	_	6.4	_	_	_	_	4.2
50	_	_	_	_	_	8.1	_	_	_	_	_	6.2	_	_	_	_	4.0

Note: Maximum operating pressure is 175 psig (12 bar). No increase in capacity with motive pressure over 150 psig (10 bar).

D'ankana	Water Temperature 60°F Motive Steam Pressure (psig)							Water Temperature 100°F Motive Steam Pressure (psig)							Water Temperature 140°F Motive Steam Pressure (psig)						
Discharge Head (ft)																					
iicau (ii)	60	80	100	120	150	175	60 80 100 120 150 175							80	100	120	150	175			
5	23.0	34.0	42.2	48.4	56.8	55.8	23.2	34.1	42.2	49.9	55.3	56.0	26.3	36.1	46.3	46.2	41.1	41.0			
10	_	28.4	38.0	43.2	51.0	51.2	_	28.9	37.2	44.5	52.1	54.8	_	28.9	38.2	43.5	41.1	40.9			
15	_	_	35.0	37.9	46.5	50.4	_	_	31.3	39.3	48.9	53.1	_	_	30.7	38.1	41.1	40.9			
20	_	_	26.1	33.5	44.4	49.5	_	_	_	35.0	44.7	51.4	_	_	23.6	33.4	41.2	40.8			
25	_	_	_	29.0	39.5	48.0	_	_	_	30.9	40.3	47.2	_	_	_	_	41.4	40.5			
30	_	_	_	_	35.2	43.5	_	_	_	_	36.5	43.9	_	_	_	_	_	_			
35	_	_	_	_	31.1	38.8	_	_	_	_	32.3	39.1	_	_	_	_	_	_			
40	_	_	_	_	I —	34.3	_	l —	_	_	_	35.7	_		_	_	_	_			



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