



Armstrong Machine Works

851 Maple Street, Three Rivers, Mich.

Steam Traps . . . Air Traps . . . Humidifiers
High Side Floats . . . Refrigerant Purgers

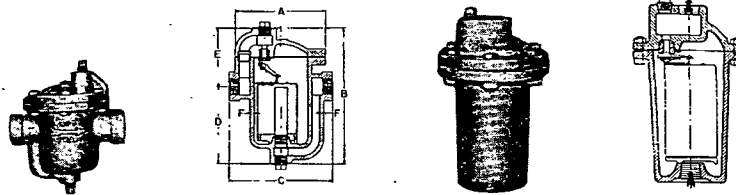
Representatives
in Principal
Centers

ARMSTRONG INVERTED BUCKET STEAM TRAPS

Armstrong offers a complete line of traps for draining low and high pressure steam headers, pipe-coil radiation, unit heaters, air conditioning equipment, process equipment, etc., to gravity or vacuum return systems.

Automatic Air Discharge. Standard

traps automatically discharge normal amounts of air along with condensate. Where large amounts of air must be vented quickly when steam is first turned on, Armstrong BLAST Traps with thermic bucket vents are recommended. Air handling capacity ranges from 500 to 1500 cu ft free air per hour.



No. 800-813

No. 211-216

Side Inlet Traps		No. 800	No. 811	No. 812	No. 813	CAPACITIES, PRICES DIMENSIONS			
		1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	3/4" or 1"	Note that capacities of No. 811, 812 and 813 traps are the same as No. 211, 212 and 213 respectively. On most installations, the engineer therefore has a choice of side inlet-side outlet or bottom inlet-top outlet body styles.			
Pipe Connections		1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	3/4" or 1"				
List Price (Regular)		\$7.00	\$10.00	\$16.00	\$22.00				
List Price (Blast Trap)		\$8.50	\$11.50	\$18.00	\$24.00				
Telegraph Code (Regular)		Aloe	Brown	Cherry	Dawn				
Telegraph Code (Blast Trap)		Aloette	Brownette	Cherette	Dawnette				
Height		5 1/2"	6 1/2"	8 1/2"	11 1/2"				
Diameter		5"	5"	6 1/4"	7 3/4"				
Number of Bolts		6	6	6	6				
Diameter of Bolts		1/4"	1/4"	3/8"	1/2"				
Weight		4 1/4 lbs.	5 1/2 lbs.	13 1/2 lbs.	25 lbs.				
Maximum Pressure, lbs.		125	250	250	250				
Continuous discharge capacity in lb of water per hour at pressure indicated. For more complete information see the Capacity Chart in Armstrong Steam Trap Book.	Lb. Pressure	5	450	830	1600	2900	4800	7600	14500
		10	560	950	1900	3500	5800	9000	17300
		15	640	1060	2100	3900	6500	10000	19200
		20	690	1120	2200	4100	6800	10500	20000
		30	800	1400	2450	4000	6800	9800	18000
		50	950	1600	2900	4100	6300	9000	18200
		70	1100	1850	3200	3500	6000	8200	18300
		100	1300	2200	3600	3900	6200	8400	18500
		125	1500	2500	4000	4300	6400	8600	18700
		150	1700	2800	4500	4800	6600	8800	18900
200	2000	3200	5000	5300	6900	9200	19500		
250	2300	3600	5500	5800	7200	9500	20000		
Bottom Inlet Traps		No. 211	No. 212	No. 213	No. 214	No. 215	No. 216		
Pipe Connections		1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1"	1" or 1 1/4"	1 1/2" or 2"		
List Price (Regular)		\$ 9.25	\$15.00	\$20.75	\$29.00	\$38.00	\$55.00		
List Price (Blast Trap)		\$10.75	\$17.00	\$22.75	\$31.50	\$40.50	\$60.00		
Telegraph Code (Regular)		Aspen	Birch	Walnut	Hemlock	Larch	Tamarack		
Telegraph Code (Blast Trap)		Aspette	Birette	Walette	Hemlette	Larette	Tamarette		
Height		6 1/2"	8"	10 1/4"	12 1/4"	14"	16 1/2"		
Diameter		4 1/2"	5"	6 1/4"	7 1/4"	8 1/4"	10 1/4"		
Diameter of Bolts		3/8"	1/2"	5/8"	3/4"	7/8"	1"		
Number of Bolts		8	8	8	8	8	12		
Weight		5 1/4 lb	10 1/4 lb	19 lb	32 lb	47 lb	80 lb		
Maximum Pressure, lb.		250	250	250	250	250	250		

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High Capacity, Compact Size. The high leverage of the patented free-floating lever makes it possible to open discharge orifices which are very large for over-all trap size.

Positive Action. The discharge valve is either wide open or closed tight. Fast opening and closing prevent wire-drawing.

Self-Cleaning. Swirling action of condensate during discharge carries dirt

through trap. There are no dead spots for dirt to collect.

High Quality. 18-8 stainless interior parts. Valve and seat are chrome steel, hardened, ground and lapped. Low pressure trap parts same material and quality as those used for 1500 psi, 900° F.

Armstrong Steam Trap Book. 36 pages of data on traps, selection, installation and maintenance. A usable handbook for any engineer dealing with traps. Free copy on request.

TRAPS FOR UNIT HEATERS

Armstrong inverted bucket steam traps are particularly suitable for draining low or high pressure unit heaters to vacuum or gravity return systems for the following reasons:

1. Air and CO₂ are vented automatically every time the trap opens—this keeps heaters hot, helps prevent corrosion.
2. Condensate is discharged at steam temperature as rapidly as it accumulates—keeping heaters at maximum temperatures.
3. Leakage of steam through an Armstrong trap in proper working condition is impossible . . . no build-up of back pressure in return lines.
4. The dependability of Armstrong traps is outstanding—they seldom require maintenance.

A New Bulletin containing Btu output figures for 24 makes of unit heaters explains fully how to select traps for this service. A valuable compilation that is available to anyone upon request.



ARMSTRONG STEAM HUMIDIFIERS

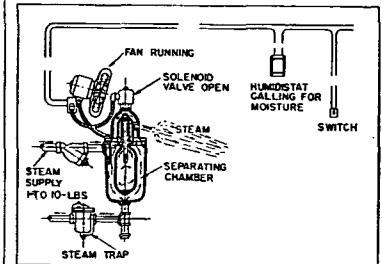
For Stores, Offices, Hospitals, Factories, Laboratories



Operation. These units provide automatic, closely controlled humidification by introduction of steam directly into the atmosphere. Installation is comparable to that of unit heaters. Steam at 15 psi or less is required.

A solenoid discharge valve on the humidifier is controlled by a sensitive humidistat. A fan mounted on the humidifier aids in steam dispersal, or a venturi nozzle can be supplied. Where an electric spark might represent an explosion hazard, compressed air operated models are available. In addition to the unit humidifier illustrated, there is a large model for installation in large air ducts and central heating systems. Capacities range from 31 to 630 lbs of steam per hour.

Advantages. Installation cost of Armstrong Humidifiers is as much as 80 per cent less than some types of equipment. The small C-2 unit lists at \$120.00 com-



plete with fan and motor, humidistat, strainer and steam trap. Operation, using steam at around \$1.00 per ton, is economical. There is no extra load on the heating system. No dripping—any moisture in the steam is re-evaporated in the steam-jacketed separating chamber. Control is accurate within a few per cent R. H.

Bulletin No. 1772 gives complete data on required relative humidities, selection and installation of Humidifiers.

All Armstrong products are sold on a basis of satisfaction or your money back.