

File
WRIGHT-AUSTIN



ENTRAINMENT SEPARATION AND EFFLUENT TRAPPING EQUIPMENT

Since 1894 Wright-Austin has led the industry with carefully engineered and quality built products incorporating advanced ideas and "better way" designs. Our continuing development program is constantly alert for changing requirements and we strive to offer the best product available for your needs. All Wright-Austin products are designed and manufactured to meet ASME and other product codes.

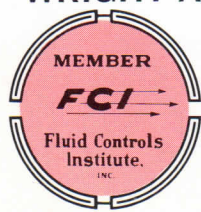
This brochure briefly covers our complete line of products for your quick reference and convenience. You will find a technical bulletin number listed at each item. This bulletin will supply every detail necessary for your proper selection and application of that item.

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WRIGHT-AUSTIN COMPANY

DETROIT, MICHIGAN 48207



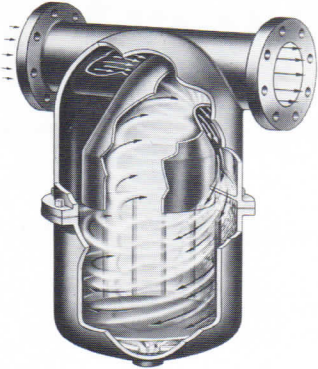
MANUFACTURERS OF
ENTRAINMENT SEPARATORS
EXHAUST HEADS
TRAPS, STRAINERS & AIR VENTS

REPRESENTATIVE

BORDER AGENTS, INC.
1711 MONTANA AVE.
(915) 544-3121
EL PASO, TEXAS 79902

TYPE "T" ENTRAINMENT SEPARATORS

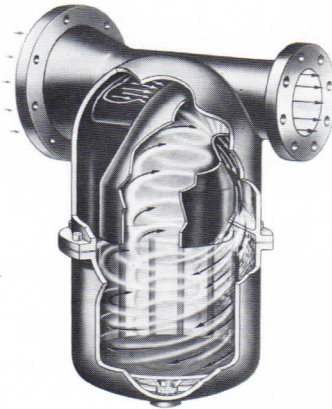
These high efficiency separators have Wright-Austin's exclusive B.L.C. (boundary layer control) and centrifugal action which assures maximum separation of entrainment and minimum possibility of reentrainment, without complicated baffles, deflectors etc., which would obstruct the flow-stream. All "T" type models are constructed to ASME requirements.



**TYPE "T" CAST IRON
(160 PSI/450°F)**

This separator is code constructed of cast iron and is suitable for a wide range of applications, such as steam lines and compressed air lines. It is available with threaded ends in 1/4 to 3 inch pipe sizes and flanged ends in 2 to 5 inch sizes (125 lb. ANSI). Also available in cast bronze (300PSI/500°F) in pipe sizes up to 2-1/2 inches.

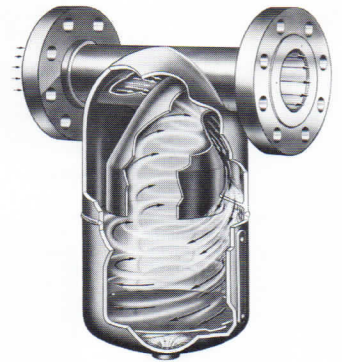
Ask for Detailed Bulletin 810



**TYPE "TW" CAST IRON
(150 PSI/450°F)
for Aftercoolers**

This model is specially designed for use at the outlet of air aftercoolers. The inlet is enlarged to match the outlet of a standard aftercooler as produced by principal manufacturers. Available with 1-1/2 to 8 inch flanged inlet and NPT threaded or 125 lb. flanged outlet 1 to 5 inch pipe sizes.

Ask for Detailed Bulletin 810



**TYPE "T" CARBON STEEL
(1000 PSI/650°F)**

Code constructed of cast carbon steel or stainless steel for steam, air and gas lines. 1/4 to 16 inch pipe sizes. Ideal for installation in steam lines ahead of turbines or pressure reducing valves when high purity steam is desired.

1/4 to 2 inch sizes have NPT threaded or socket welded ends. 1 to 16 inch sizes have flanged ends.

Ask for Detailed Bulletins 810 & TB535

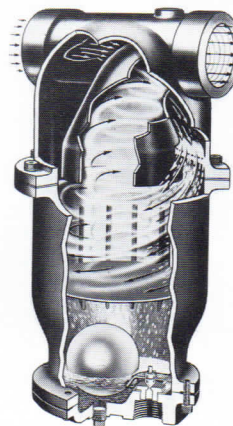
TYPE "ST" & "STH" COMBINATION SEPARATOR/TRAP CAST IRON (160 PSI/450°F)

A compact, easily installed combination unit which can be supported by the line. Has our exclusive "boundary layer control". Design and construction follows ASME code for unfired vessels. Internal parts are stainless steel with non-magnetic valve and seat. Efficiently removes entrainment and automatically ejects condensate at predetermined level without loss of line pressure.

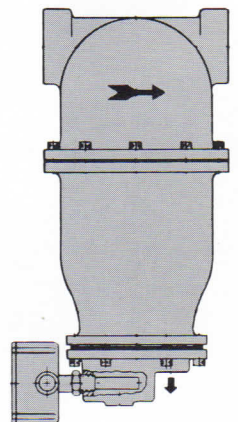
MODEL "STH" is identical to "ST" but also has a 50 watt, 110 volt brass-copper, self limiting heating element to prevent freezing. Does not add to temperature of air in lines.

Both models are available in 3/4 to 3 inch, NPT threaded, and 2 to 3 inch flanged end pipe sizes.

Ask for Technical Bulletin 534



MODEL ST



MODEL STH

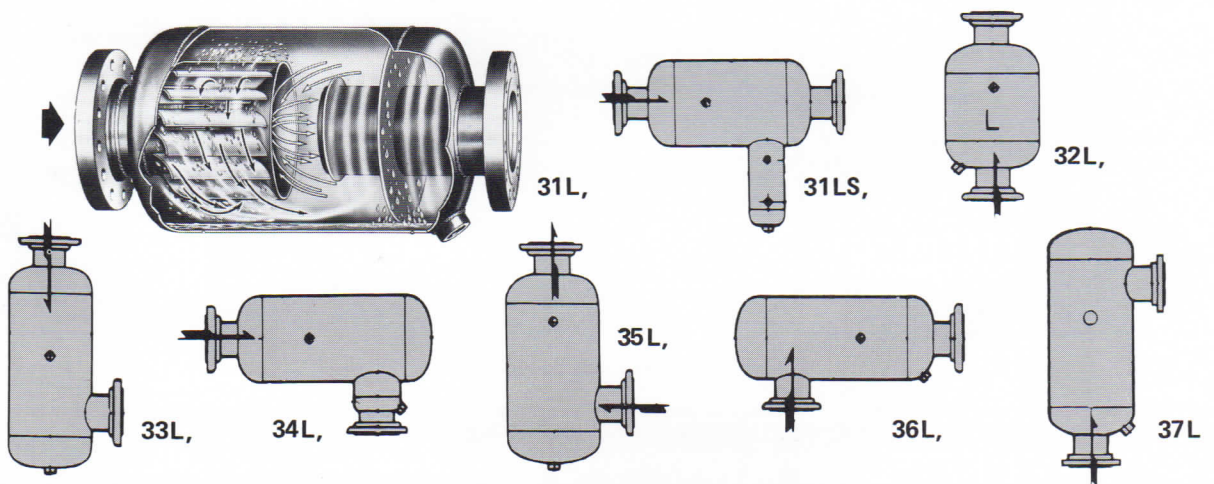
30-L SERIES CENTRIFUGAL TYPE IN-LINE ENTRAINMENT SEPARATORS

for high, medium or low pressure
air, gas or steam

These separators are very compact, requiring little more space than the line. Pressure drop is minimal. Our exclusive "boundary layer control" and centrifugal action assure maximum efficiency. They are self-cleaning, have no moving parts and are ideally suited to a wide range of applications.

These separators are available in eleven models, eight of which are shown below. Pipe sizes from 1-1/2 to 42 inches. Flange and vessel ratings 50 PSIG/400°F. to 750 PSIG/650°F. All models constructed to ASME requirements. Available in carbon or stainless steel.

For Detailed Information Ask for Bulletin 809



EXHAUST HEADS

"40EC" CAST IRON EXHAUST HEADS

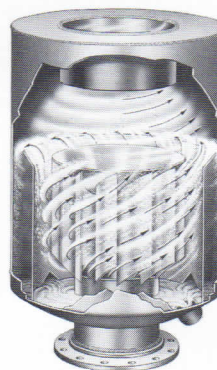


A simple efficient unit for separating objectionable entrainment from exhaust steam gases and vapors. Features our high efficiency BLC principle which affords positive shear action at liquid-vapor interface. Practically no back pressure. No maintenance. Also available in cast aluminum.

Pipe sizes 1 to 4 inches have threaded inlet connection. Sizes 5 to 10 inches have flanged inlet connection.

Ask for Technical Bulletin 538

"40EF" FABRICATED STEEL OR STAINLESS EXHAUST HEADS



These centrifugal exhaust heads are fabricated for heavy duty from electrically welded steel plate. The separating element is stainless steel. These units embody our famous B.L.C. principle and will maintain their efficiency handling high temperature steam discharged at high velocity. There is practically no back pressure. Available in pipe sizes 3 to 30 inches.

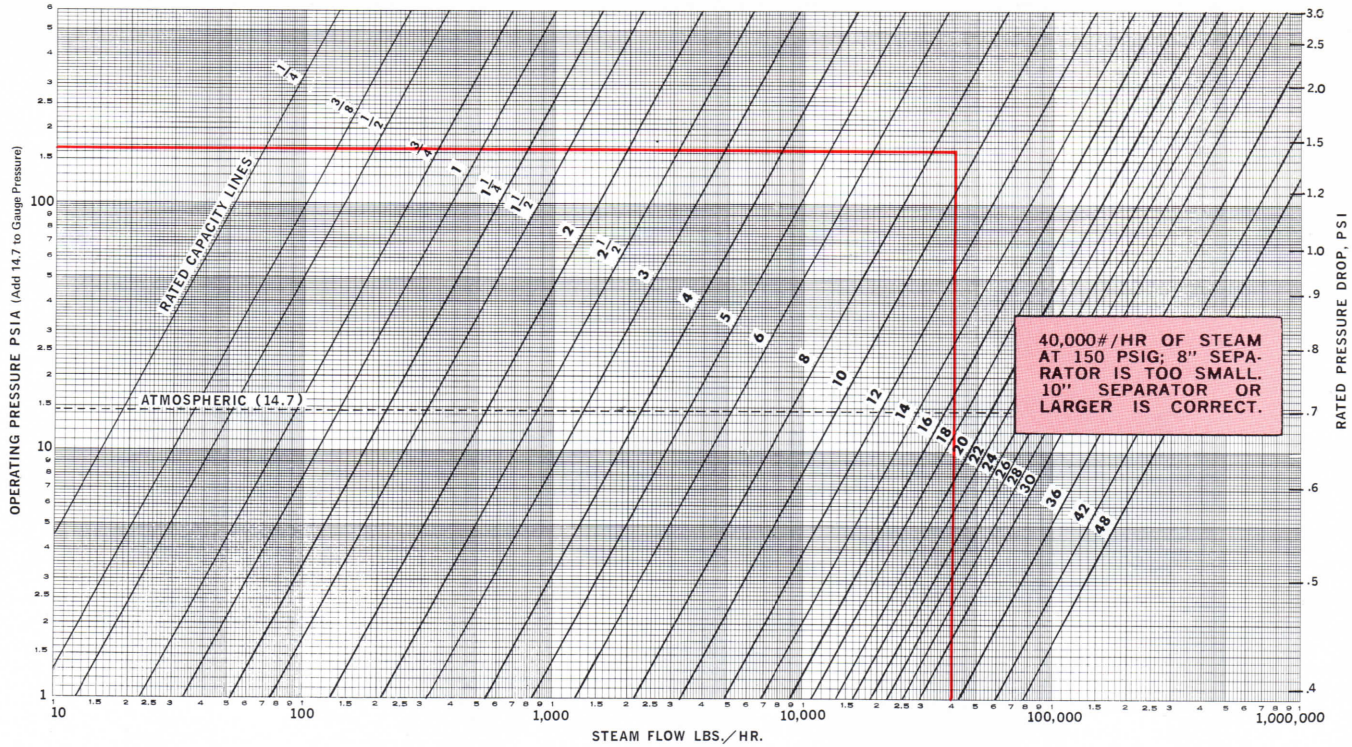
Ask for Technical Bulletin 538

STEAM SELECTION AND CAPACITY CHART

for steam entrainment separators

The values below represent maximum recommended STEAM FLOW (SATURATED) IN LBS. PER HOUR through standard Wright-Austin separators.

Ask for Technical Bulletin 545

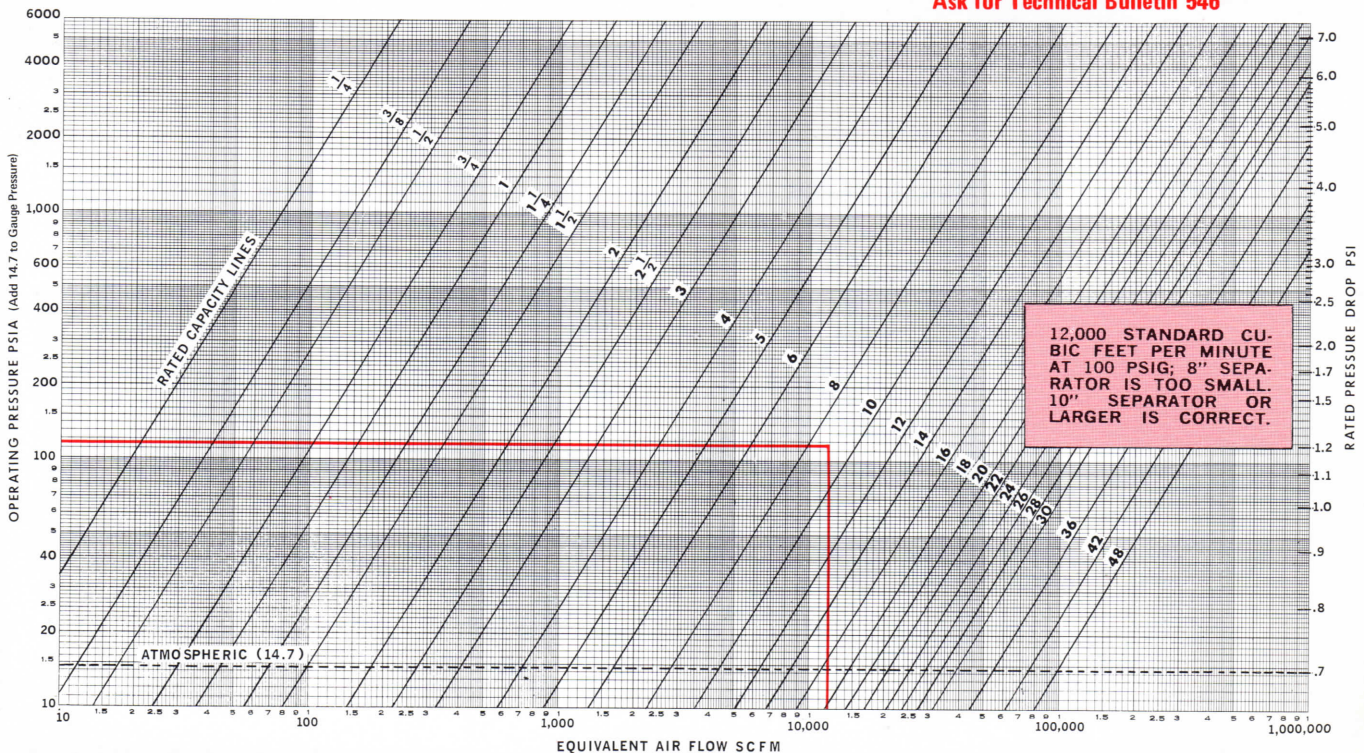


AIR SELECTION AND CAPACITY CHART

for air entrainment separators

The values below represent maximum recommended AIR FLOW IN STANDARD CUBIC FEET PER MINUTE through standard Wright-Austin separators.

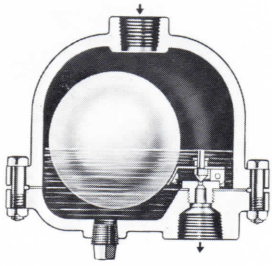
Ask for Technical Bulletin 546



The Wright-Austin air flow chart is based on SCFM (cubic feet per minute of air measured at standard conditions of 14.7 psia and 60°F). If any of the operating conditions are varied from the above, request TB546 showing correction factors, conversions and pressure drop.

FLOAT TYPE TRAPS

for compressed air
or gas service

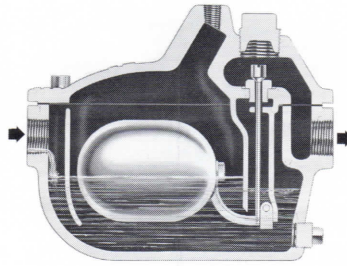


MODEL "90-AC" (0 to 150 PSI)

Body and cover are cast iron or bronze. Internal parts, including valve and seat, are corrosion resistant, non-magnetic, stainless steel. Positive water seal prevents loss of air or gas.

Also available MODEL 95AC in carbon or stainless steel (0 to 250 PSI) Pipe sizes 3/4 and 1 inch.

Ask for Detailed Bulletin 814



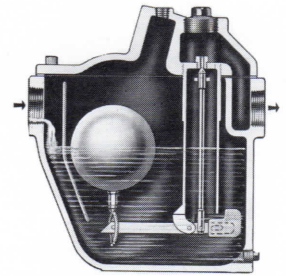
MODEL 230AC (0 to 125 PSI)

Designed for use with gummy emulsions of cylinder lubricants. Ample float power and large outward opening discharge valve prevent loss of air or gas pressure.

Body and cover are cast iron or bronze. Working parts are attached to cover for easy removal. No priming required.

Also available, MODEL 230 ACH with thermostatic heating element. Pipe sizes 3/4 and 1 inch.

Ask for Detailed Bulletin 814



300AC SERIES (0 to 200 PSI)

Three valves open or close progressively as amount of condensate varies. Ideal for wide variations in condensate flow or for excessive flow of cold, gummy water and cylinder lubricant emulsions. No priming required.

Body and cover are cast iron or bronze. Valves, valve seats and float are stainless steel. Working parts are attached to cover for easy removal. Pipe sizes 3/4 to 2-1/2 inches.

Ask for Detailed Bulletin 814

(Also see 400AC Series Page 7.)

BUCKET TYPE TRAPS

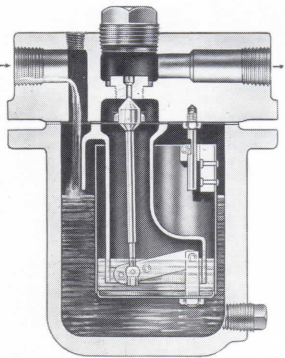
for compressed air
or gas service

For discharging condensate which has been separated from air and gas lines of pressures ranging from 3 to 700 PSI.

Operating buckets are of stainless steel and have snap action to provide a secure valve seal after emptying. The main orifice is accessible by removing the plug at the top. The valve seat is

ground stainless steel, slotted and easily removed for replacement. Internal mechanism is attached to and removed with the cover for service or inspection.

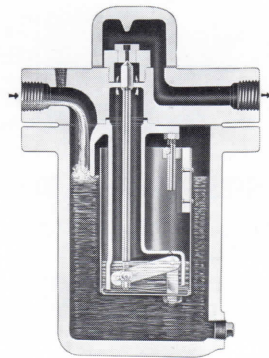
Inlet and outlet connections are in-line for easy installation.



SERIES 70AC (2 Models in Carbon or Stainless Steel)

Available in 1/2 to 1 inch NPT or SW threaded connections.

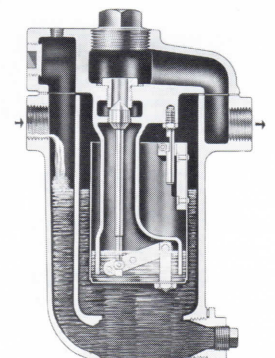
Ask for Detailed Bulletin 814



SERIES 100AC (2 Models in Carbon or Stainless Steel)

Available in 1/2 to 1-1/4 inch NPT, or SW connections.

Ask for Detailed Bulletin 814



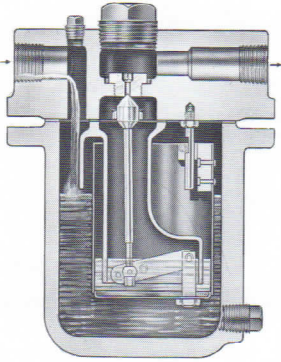
SERIES 500AC (5 Models in Cast Iron or Brass)

Available in 1/2 inch to 2 inch pipe sizes — 3 to 250 PSI.

Ask for Detailed Bulletin 814

BUCKET TYPE TRAPS

for steam applications

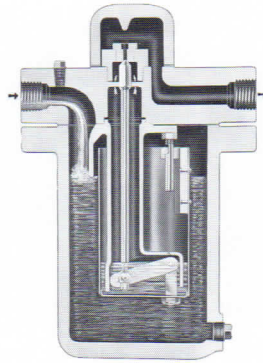


SERIES 70 "AIRXPEL"
(0 to 350 PSI)

Carbon Steel or Stainless Steel

Used extensively by U.S. Navy because of reliability, efficiency and high safety factor. Maintains deep water seal. Easily inspected or serviced without removal from line. Available in 1/2 to 2 inch pipe sizes. Straight-line NPT or SW connections save time and installation cost.

Ask for Technical Bulletin 565

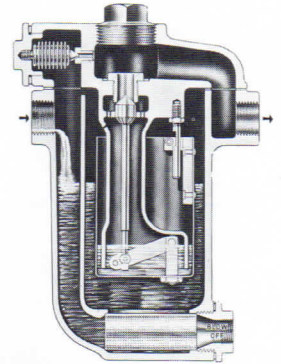


SERIES 100 "AIRXPEL"
(0 to 700 PSI)

Carbon or Stainless Steel

Offers same long service life, reliability, efficiency and unusual advantages as the 70 SERIES but at substantially higher pressure limits. Valves, valve seats and float are stainless steel, other internal parts are brass. Available in 1/2 to 2 inch pipe sizes. NPT or SW connections.

Ask for Technical Bulletin 566



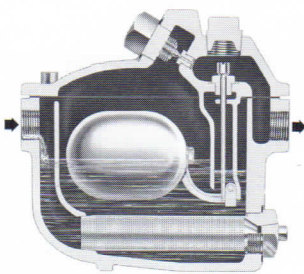
SERIES 500-C (0.5 to 200 PSI)
1/2 to 2 inch pipe sizes

Available with body and cover of cast iron or bronze, ground stainless steel threaded inserts for thermostat and main orifices. Removable monel strainer and thermostat. Give you faster warm-ups, more efficient discharge of air and condensate. Compact, space saving design. Complete accessibility of all parts without removal from line.

Ask for Detailed Bulletin 808

FLOAT TYPE TRAPS

for steam applications

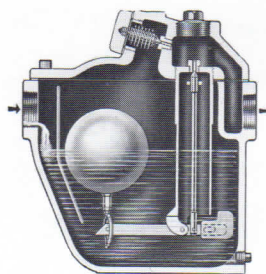


SERIES 230C (0 to 125 PSI)

Available in 3/4 and 1 inch pipe sizes, cast iron or brass. Designed for low and medium pressure service on steam heat systems, process equipment and draining effluent from oil separators.

Internal parts are stainless steel, non-magnetic valve and seat. By-pass thermostat and strainer are standard.

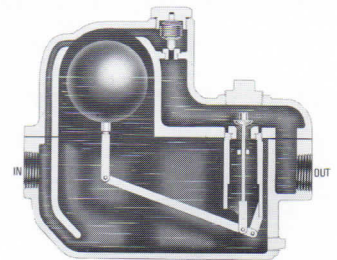
Ask for Detailed Bulletin 808



SERIES 300C (0 to 200 PSI)

Available in 3/4 to 2-1/2 inch sizes. Thermostatic by-pass for faster warm-up. Three valves open or close progressively as condensate volume varies. High capacity permits smaller size. Automatically adapts to pressure up to 200 PSI. Unaffected by superheat, no throttling effect. All parts are attached to cover for easy service.

Ask for Detailed Bulletin 808

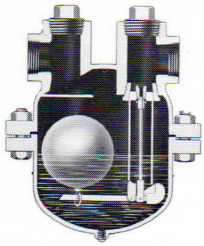


SERIES 400C "VICTOR"
LOW PRESSURE TYPE
For Heavy Duty,
0 to 20 PSI Service

Available in 3/4 to 2 inch pipe sizes with thermostatic by-pass for faster warm-up. Extremely large valve orifice affords greater discharge capacity for thick gummy residues. Automatically adapts to pressure and flow changes. Straight line pipe connections cut installation time and cost.

Ask for Technical Bulletin 564

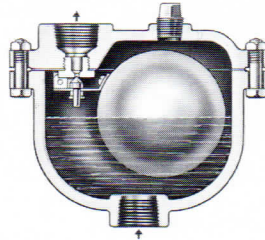
OTHER RELIABLE, USE-TESTED WRIGHT-AUSTIN PRODUCTS FOR EVERY REQUIREMENT



SERIES 30 THREE VALVE FLOAT TYPE CONTINUOUS DRAINERS (200 PSI 650°F)

Available in 3/4 to 2-1/2 inch sizes. Threaded connections on 200 PSI models, flanged connections on 150 PSI or 300 PSI models. Available in carbon steel or stainless steel. All material conforms to USCG and ABS requirements.

Ask for Technical Bulletin 543

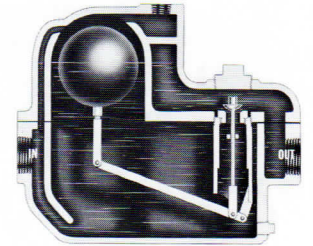


MODELS 90 & 95 AIR VENT TRAPS (0 to 200 PSIG)

For removal of air from hot or cold water, or gasoline lines. Prevents damage due to vacuum during flow stoppage.

Available in cast iron, bronze, carbon or stainless steel. Internal parts stainless steel. Non-magnetic stainless valve and seat. Pipe sizes 1/2, 3/4 or 1 inch.

Ask for Technical Bulletin 561

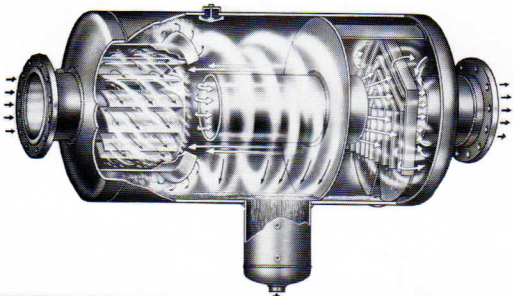


SERIES 400AC "VICTOR" HEAVY DUTY AIR TRAPS (0 to 20 PSI)

Available in five models 3/4 to 2 inch pipe sizes. Has extra large valve orifice to handle extremely large volumes of water or gummy oil residues. Automatically adapts to pressure or flow changes.

Straight line pipe connections cut installation time and cost.

Ask for Detailed Bulletin 814



20P SERIES EXHAUST STEAM PURIFIERS (50 PSI at 400°F)

A unique, multiple stage separator capable of removing an extremely high percentage of impurities, oil and other stubborn solubles from steam. Welded steel construction. ASME code. Minimum pressure drop. Self cleaning, no moving parts. 5 to 24 inch pipe sizes.

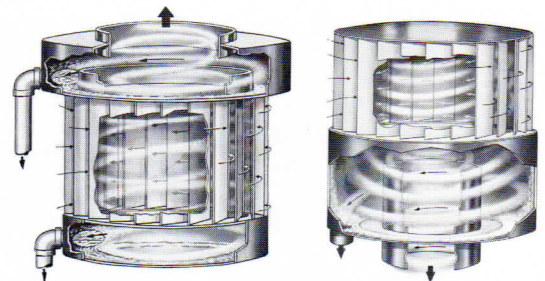
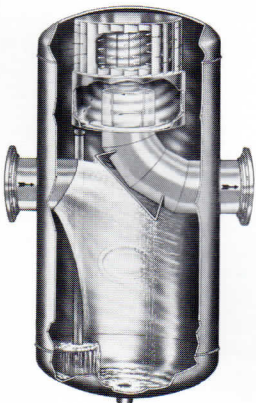
Ask for Technical Bulletin 551

"10-R" SERIES RECEIVER TYPE ENTRAINMENT SEPARATORS

A high efficiency, two stage, large volume separator for many applications. Suitable for any vapor or gas. Can handle large slugs of liquid. Minimal pressure drop. No moving parts, no maintenance, self cleaning.

Ideal for chemical process applications or ahead of reciprocating steam engines to dampen pulsations. 3 to 16 inch pipe sizes. Vacuum to 500 PSI/650°F. Available in carbon or stainless steel.

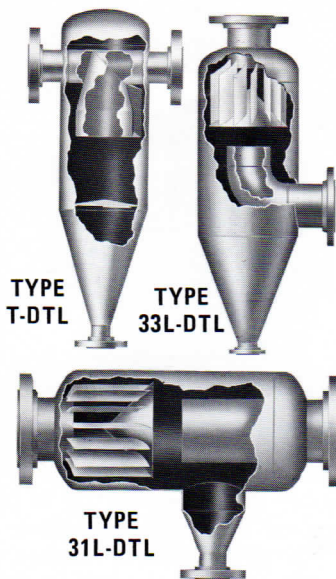
Ask for Technical Bulletin 548



INTERNAL ENTRAINMENT SEPARATORS (Type "60-1" Upflow, Type "70-1" Downflow)

Electrically welded, carbon steel units, stainless steel directional vanes. Used for removing entrainment from evaporators and large vessels. Compact for installation through man ways in existing installations. Available in 3 to 24 inch pipe sizes.

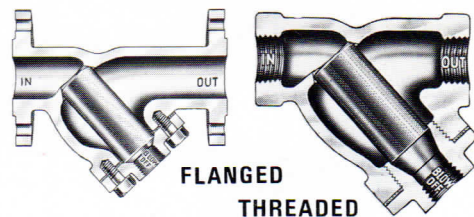
Ask for Technical Bulletin 544



**"DTL" DRY TYPE
ENTRAINMENT SEPARATORS**
Vacuum to 500 PSI/650°F

Three models to meet your exact requirements. Available in fabricated steel or stainless steel, designed and built to meet ASME code for unfired vessels. Usable for gas or air at elevated pressures. Non-clogging, self-cleaning, no moving parts. Minimum pressure drop. Sizes 2 to 16 inches.

Ask for Technical Bulletin 537



FLANGED
THREADED

**"Y" TYPE STRAINERS FOR STEAM,
AIR, GAS, OIL & WATER**

Available in cast iron, bronze, carbon or stainless steel. Convenient, straight-through design, easy installation. Large corrosion resistant screen area for minimal pressure drop. Collected material easily removed. Sizes 1/4 to 4 inches. Threaded or flanged connections.

Ask for Technical Bulletin 562

LIQUID LEVEL GAGES

**NO. 105 & 108
SELF CLEANING
TYPE (0 to 200 PSIG)**



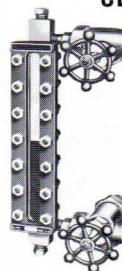
Body polished brass, plastic insulated handles. Glass and guard rods furnished. Maximum rating 150 PSIG for steam, 200 PSIG for air and gas. 1/2 inch NPT thread connections.



**NO. 31-A & 203
BALL CHECK TYPE
(0 to 675 PSIG)**

Built to ASME code. Valves have corrosion resistant ball checks to prevent loss of vessel contents in case of glass breakage. 1/2 inch NPT thread connections.

**X-500CH SERIES SIDE CONNECTION,
CLOSE HOOK-UP, REFLEX TYPE**



Exceptionally rugged, high pressure gages (0 to 1950 PSI at 100°F), (0 to 1300 PSI at 650°F). Made of non-warp steel. Meets A.I.S.I., ASTM & ASME requirements. Valves have stainless steel ball checks. NPT threaded connections.

For details on All Liquid Level Gages Ask for Technical Bulletin 567

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