



STEAM SEPARATOR

APPLICATION DATA

- Steam, compressed air, and gas systems
- Steam mains
- Before steam turbines
- Hot air batteries
- Heat exchangers
- Duplicators
- Boilers
- Kilns
- Radiators
- Sterilizers
- Drip stations before temperature control or pressure reducing valves
- Steam inlets to process equipment which require dry saturated steam
- Before filters and on the compressed air supply to sensitive instruments
- Laundry Processes

ORDERING CODE

MODEL # (Must be 2 Digits)	CONNECTIONS	RATING (Must be 4 Digits)	—	SIZE
example: <u>E</u> <u>S</u>	<u>I</u>	<u>0150</u>	—	<u>C</u>
ES - Eliminator	T - NPT	0150 - 150#		C - 1/2
	W - Socketweld	0300 - 300#		D - 3/4
	F - Flanged	0600 - 600#		E - 1
				F - 1 1/4
				G - 1 1/2
				H - 2
				J - 2 1/2
				K - 3
				M - 4
				P - 6

Installation Tip: Always install a Steam Trap (i.e.: NFT, FTN, Max-Flo, Dura-Flo) after the Steam Separator
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ELIMINATOR SERIES STEAM & AIR SEPARATOR

Pressures to 990 PSIG (68.2 barg)
Temperatures to 650°F (344°C)

Removal of Entrained Contaminants - Extracts nearly all moisture and solids above 10 microns

Long Service Life - No moving parts mean less wear and corrosion

High Capacities - Up to 35,000 lbs./hr steam

Steel bodies and internals - Withstand unfavorable conditions and water hammer

Drain Outlet Below Condensate Level - Prevents steam leakage

Optimal Gravity Discharge - Drain located directly below the line

Maintenance Free - Regular maintenance is not required

Steam or Air Service

OPTIONS

- Optional Insulation Jacket

MAXIMUM OPERATING CONDITIONS

1/2" - 2" NPT & SW
Class 400 - 990 psig (68.2 barg) @ 100°F (34°C)

2 1/2" - 6" ANSI 150 Flanged
Class 150 - 285 psig (19.6 barg) @ 100°F (34°C)

2 1/2" - 6" ANSI 300 Flanged
Class 300 - 740 psig (51.0 barg) @ 100°F (34°C)

2 1/2" - 6" ANSI 600 Flanged
Class 400 - 990 psig (68.2 barg) @ 100°F (34°C)

MODELS

- ES-150 - 150 psig ANSI Flanged
- ES-300 - 300 psig ANSI Flanged
- ES-600 - 600 psig NPT, Socketweld, ANSI Flanged

NOTE: This is a fabricated product. Custom designs are available. Please call factory for details.

Installation Tip: Always install a Y Strainer between the Steam Separator and Trap.

OPERATION

When the vapor enters the steam separator, a series of baffles change its flow direction several times. During this process, the baffles in the housing collect impinged water droplets that are carried in the system. Gravity allows the accumulated water droplets and

other foreign particles to fall to the drain and exit the system through a steam trap. The remaining steam in the system is clean and dry, allowing improved and maintained performance.