

THE BELL & GOSSETT ROLAIRTROL, SUPREME AIR SEPARATION FOR COMMERCIAL SYSTEMS

DESCRIPTION

The Bell & Gossett Rolairtrol is a patented air separator with significant advantages. The Rolairtrol is capable of removing the air that commonly causes problems in commercial hot and chilled water systems. The Rolairtrol provides air free flow, improving efficiency and performance of the HVAC system.

Every aspect of the Rolairtrol design maximizes air separation and simplifies installation and maintenance. The air separation efficiency of the Rolairtrol is significantly higher than any other commercial air separator on the market.

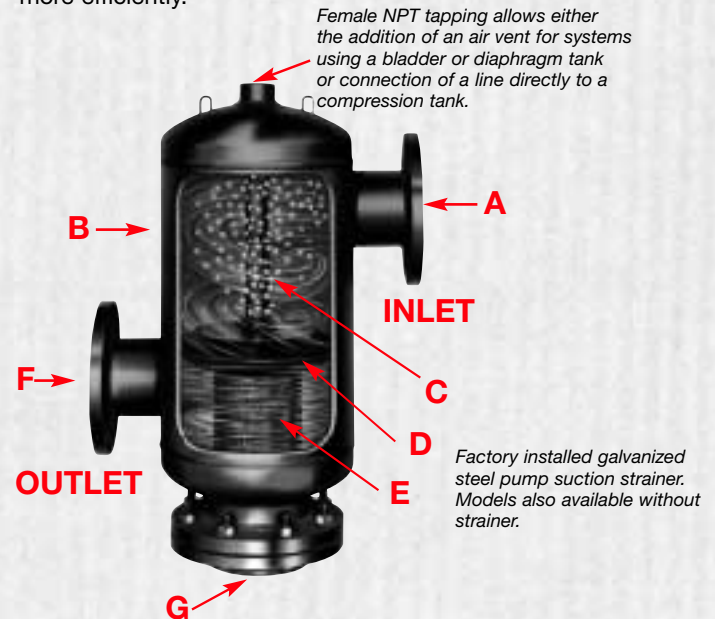
The standard Rolairtrol air separator is constructed to meet ASME code and is stamped for design pressure and temperature ratings of 125 psig (862 kPa) and 350°F (177°C). Higher pressure and temperature models are available.

EPACT 92 IMPACT

As part of the Federal Energy Policy Act of 1992 (known as EPACT 92), effective October 25, 1997, the U.S. Dept. of Energy has established ASHRAE/IESNA Standard 90.1-1989 as the Energy efficiency benchmark for HVAC systems in all new buildings (except low rise residential).

ASHRAE 90.1 has a provision in the form of a clause on building energy transport systems. It states that “energy should be transported by the most efficient means possible and that distribution systems should be selected to complement other system parameters such as control strategies, storage capabilities, conversion, and utilization efficiencies.”

How will a B&G Rolairtrol assist a commercial HVAC system meet EPACT 92 requirements? An air bound system is an inefficient energy transfer system. When the B&G Rolairtrol removes entrained air from a commercial HVAC system, it allows the pumps and valves to operate and transport energy more efficiently.



ROLAIRTROL FEATURES

ROLAIRTROL BENEFITS

A Tangential Flow Through Design

Original B&G Design...Perfected by B&G – The Rolairtrol provides maximum air separation efficiency due to a combination of centrifugal force and velocity reduction. The Rolairtrol’s tangential design creates a whirlpool inside the vessel. This vortex action sends heavier, air-free water to the outer portion of the vessel shell while forcing the separated air into the center where it is drawn to the air collector tube. The tangential design has been proven to have greater air separation efficiency when compared to less effective, straight flow air separators.

B Vessel Shell is 3 Times the Nominal Inlet/Outlet Pipe Diameter

Original B&G Design...Perfected by B&G – The vessel shell is at least 3 times the inlet and outlet pipe diameter. This assures maximum velocity reduction in order to develop the highest possible air separation efficiency.

C Stainless Steel Air Collector Tube

Exclusive B&G Design – An air collector tube is provided to efficiently gather and centralize the separated air. The separated air is easily directed upwards through the tube and vented in air elimination systems or returned to the compression tank in air control systems.

D Baffle

Exclusive B&G Design – The baffle is a barrier between the air-free water and the separated air. It assures that only air-free water is transferred to the outlet connection while separated air is directed to the collector tube.

E Vertical Strainer with Bottom Access

Exclusive B&G Design – Unlike the upper, horizontal strainer location in competitive air separators, the Rolairtrol’s lower, vertical strainer does not interfere with the vortex action necessary for proper air removal...maximizing efficiency. In addition, the Rolairtrol’s strainer is accessible from the bottom of the unit, reducing floor space while simplifying maintenance and clean out of accumulated system debris.

F NPT, Grooved and Flanged Connections

Exclusive B&G Product Offering – 3 connection options offer installation flexibility. 2"-3" models are NPT, 3"-12" models are grooved or flanged, and 14"-36" models are flanged.

F Up to 36" Pipe Size Connections

Exclusive B&G Product Offering – Models up to 36" in pipe diameter will meet the air separation requirements in the largest HVAC systems.

G Optional B&G Manual Blowdown Valve

Exclusive B&G Product Offering – A 1" NPTF manual blowdown valve is available to simplify installation, general maintenance, and remove start-up debris.