

## AIR SEPARATOR WITH STRAINER

Every heating, cooling or dual hydronic system requires effective air management to provide maximum performance efficiency. Proper air control enhances hydronic system energy efficiency by helping reduce pipe corrosion and scaling which adds extra unnecessary friction losses. Less internal corrosion decreases maintenance costs, increasing system life, and with air removed there can be less system noise, reducing occupant complaints and Chilled water buffer tank capability.

Air trapped in the system can produce major problems such as reduced heat transfer, loss of efficiency, pipe corrosion, pump damage, increased energy consumption and irritating noise. The highly efficient **GRAND Air Separator** clears the system free of air and reduces un-dissolved sediments to save money, energy and components wear. The GRAND air separator is a vessel designed with tangential openings to create a low velocity vortex where air is separated and removed from the circulating water.

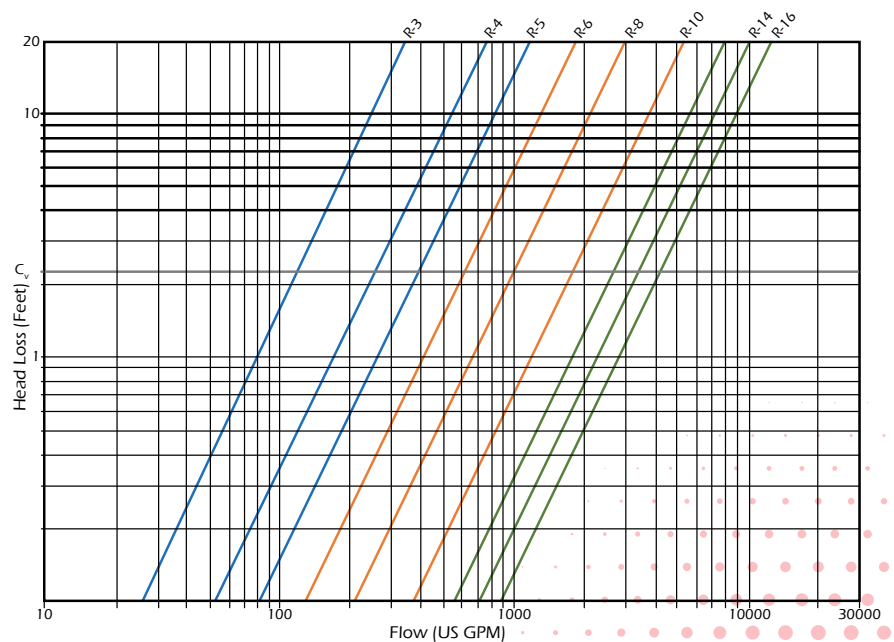


### SPECIFICATIONS

- Design and constructed as per ASME section VIII, division 1
- Grade SS 400 Mild Steel Construction
- Working Pressure 150 P.S.I. (10 Bar) for 12" and under
- Working Pressure 125 P.S.I. (8.6 Bar) for 14" and larger
- Max. Temperature 302°F (150°C)
- MNPT inlet & outlet for 2", 2 1/2" and 3"
- ANSI 150 Lbs. Flanged inlet & outlet for 4" and above
- Unit are applied with anti-corrosion phosphatizing prior to electrostatic green paint RAL-6009
- Grooved end connection available as option use "G" after model #

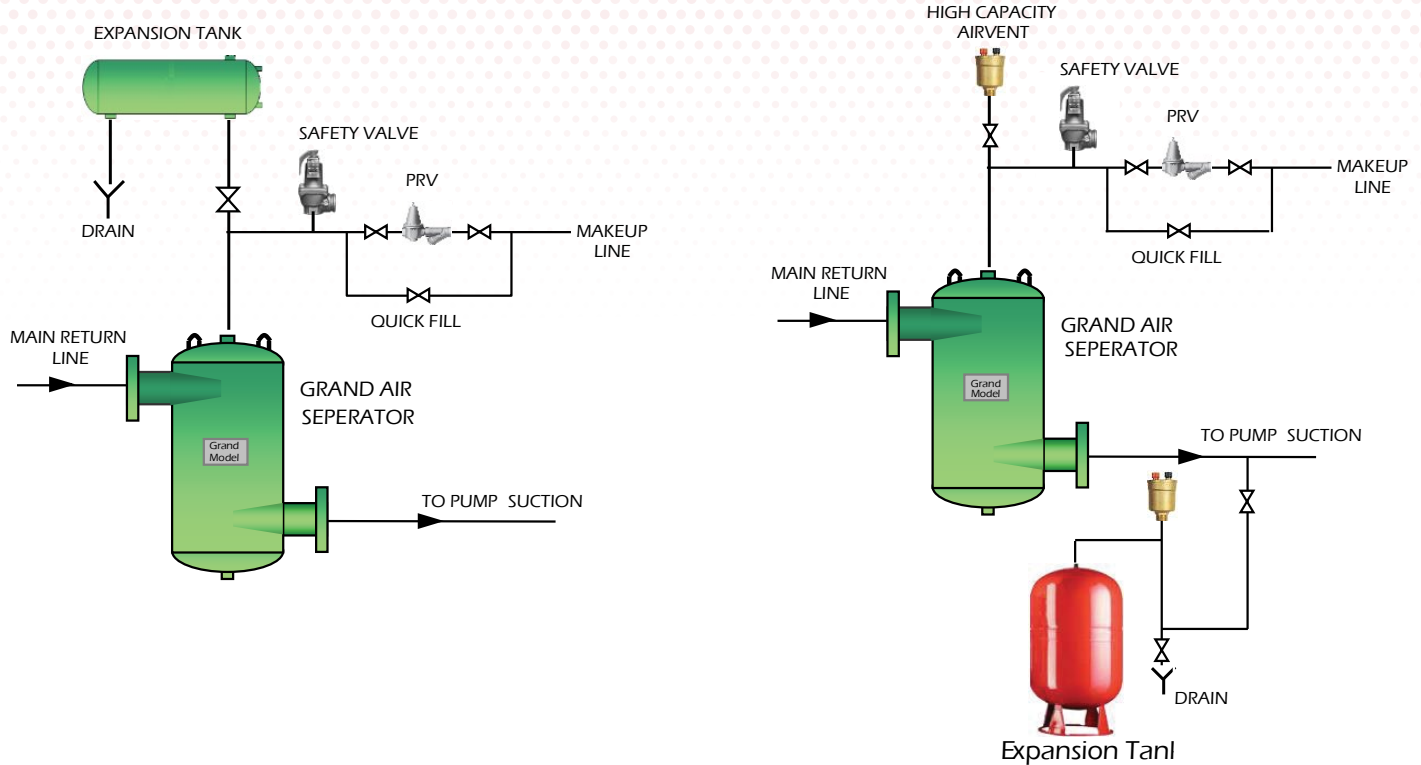
### SIZES & CAPACITY

Model Number	Capacity US Gpm.	Cv
AS-02F	56	85
AS-2.5F	90	108
AS-03F	190	119
AS-04F	300	257
AS-05F	500	398
AS-06F	700	632
AS-08F	1300	1020
AS-10F	2000	1789
AS-12F	2750	2665
AS-14F	3840	3400
AS-16F	5015	4200
AS-18F	5200	2340
AS-20F	6300	2945



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### TYPICAL HYDRONIC HEATING / COOLING APPLICATION



### TYPICAL SPECIFICATION

Furnish and install, as shown on plans, a centrifugal type air separator. The unit shall have \_\_\_\_\_" inlet and outlet flanged connections tangential to the vessel shell. The unit shall be designed to direct accumulated air to an air vent (air elimination system) via an NPT vent connection at top of unit.

A blowdown connection shall be provided to facilitate routine cleaning. Vessel shell diameter to be three times the nominal inlet/outlet pipe diameter, with a minimum vessel volume for sufficient velocity reduction. The air separator must be designed, constructed for 125 psig @ 302°F (862 kPa @ 150°C) in accordance to Section VIII, Division I of the ASME Pressure Vessel Code. The air separator(s) shall be provided with anti-corrosion phosphatizing prior to electrostatic green paint RAL-6009.