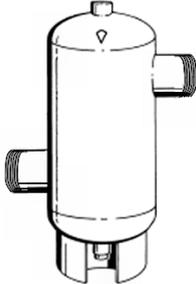
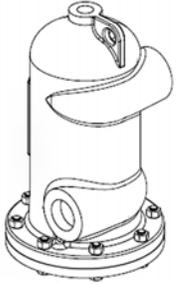


JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



ROLAIRTROL[®]

Air Separator

NPT With Strainer
Air Control and Elimination

DESCRIPTION

The Rolairtrol Air Separator is an ASME vessel designed with tangential openings to create a low velocity vortex where air is separated and removed from the circulating water.

MAXIMUM WORKING PRESSURE

125 PSIG (862 kPa)

OPERATING TEMPERATURE RANGE

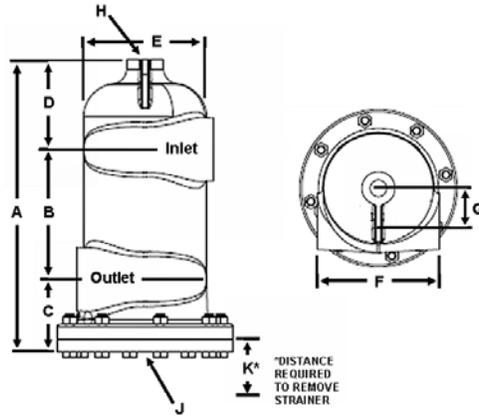
-20°F (-29°C) to +350°F (177°C)

SCHEDULE

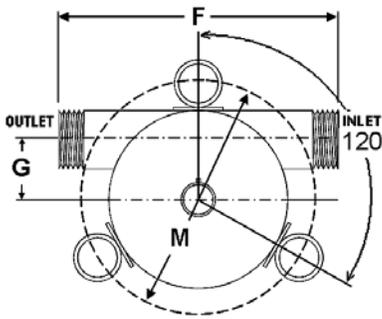
PART NUMBER	MODEL NUMBER	Capacity GPM (m ³ /hr)	NPT Tangential Opening in. (mm)	TAGGING INFORMATION	QUANTITY
5360-02N-12-002	R-2N	140 (31.8)	2 (50.8)		
5360-25N-12-002	R-2-1/2N	170 (38.6)	2-1/2 (63.5)		
5360-03N-12-003	R-3N	190 (43.2)	3 (76.2)		
5360-03N-12-004	R-3NB	190 (43.2)	3 (76.2)		

CONSTRUCTION MATERIALS

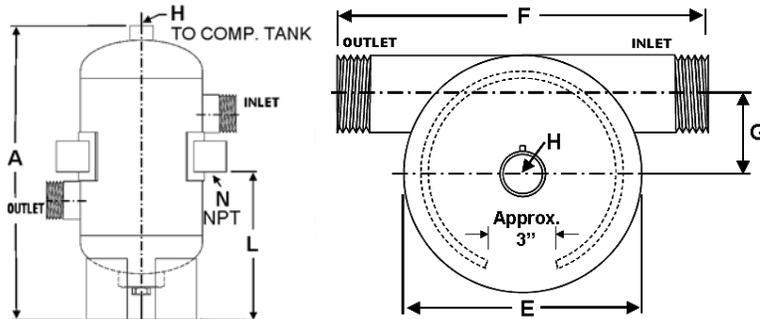
- Designed and constructed per ASME Section VIII, Division 1
- Body – Models R-2 & R-2-½: Cast Iron
- Shell – Models R-3: Carbon Steel
- System Strainer: 304 Stainless Steel with 3/16" (4.8mm) diameter perforations and 51% open area
- Baffle: Carbon Steel
- Bottom Reducing Flange Gasket: Armide fiber (R-2 & R-2-½ Models Only)



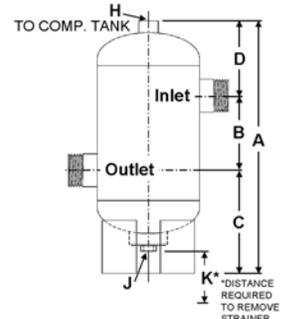
2" & 2-1/2" MODELS WITH STRAINER



3" MODELS WITH STRAINER AND OPTIONAL BRACKET SUPPORTS



3" MODELS WITH STRAINER



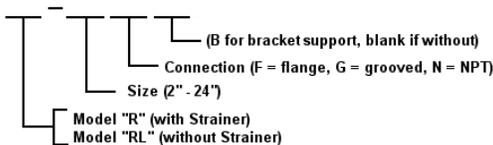
DIMENSIONS in Inches (mm) AND WEIGHTS in Lbs (kg.)

MODEL NUMBER	A	B	C	D	E	F	G	H	J	K	Cv	Strainer Free Area in in ² (mm ²)	Approx. Volume in Gallons (Ltr.)	Approx. Shpg. Wt. in Lbs. (Kg)	Flood Wt. Less Bracket in Lbs. (Kg)
R-2N	15-7/8 (403)	7 (179)	4 (102)	4-7/8 (124)	6-5/8 (168)	7-3/8 (187)	2 (51)	1 (25)	1 (25)	8-1/2 (216)	85	32 (20,645)	2 (7.6)	51 (23)	66 (30)
R-2-1/2N	17-3/8 (441)	7-1/2 (191)	4-1/2 (114)	5-3/8 (137)	8-3/8 (213)	9-3/4 (248)	2-5/8 (67)	1 (25)	1 (25)	8-1/2 (216)	108	45 (29,032)	3 (11.4)	86 (39)	111 (50)
R-3N (B)	26-7/8 (683)	8 (203)	10-13/16 (275)	8-1/16 (205)	10-3/4 (273)	16-3/4 (426)	3-5/8 (92)	1-1/4 (32)	3 (76)	12 (305)	119	66 (42,581)	7 (26.5)	95 (43)	155 (70)

Important Note: Dimensions not to be used for construction.

MODEL NUMBER	L	M	N	Weights of Brackets
RL-3NB	13-3/8 (340)	14 (356)	2 (51)	9 (4)

MODEL NUMBERING

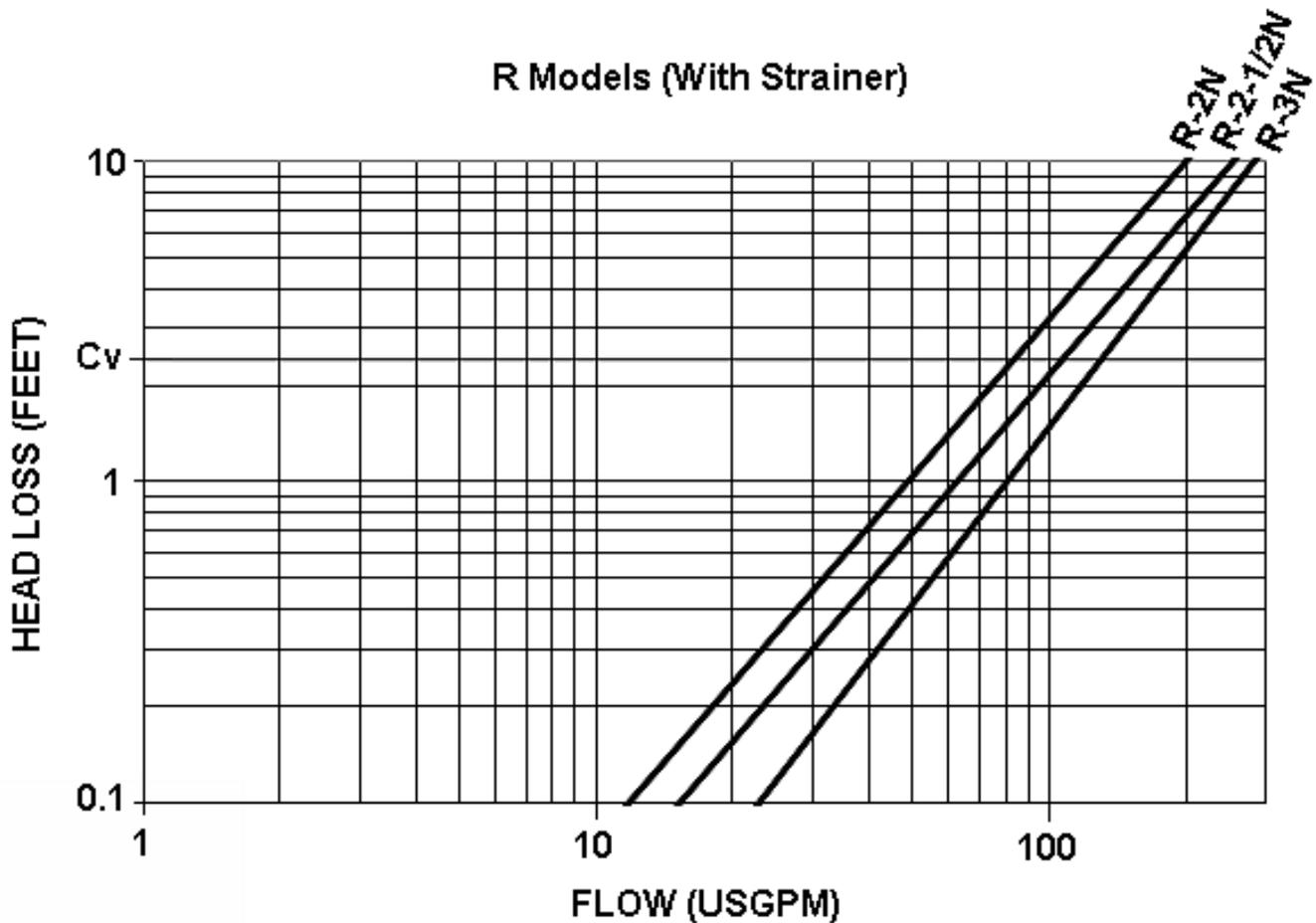


SUPPORT NOTES:

1. Model "R" Rolairtrol Air Separators have strainers which must be removed and cleaned after 24 hours operation, 30 days operation and as required to maintain proper system air separation. Before installing the model "R" Rolairtrol, refer to (K) in the dimensions and weights table, which notes minimum distances to be maintained between the blowdown connection and the floor or other equipment for strainer removal.
2. Lifting lugs are for the transportation and installation of the empty vessel, and are not to be used for complete or partial support of the flood vessel.
3. The RL skirt can support flooded vessel weight, but an R model bottom flange (strainer housing) cannot support the flooded weight of the vessel.
4. Welding to the pressure vessel boundary will void the ASME stamp.
5. Standard Rolairtrol design up to 12" can be hung from the nozzles using hangers. Optional, factory welded, support brackets are available for an additional cost.

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 Morton Grove, IL 60053
 Phone: (847)966-3700
 Fax: (847)965-8379
 www.xyleminc.com/brands/bellgossett





Note: Pressure drops for a range of flow are indicated on this chart. Users should select Rolairtrol using B&G published capacity guidance, and ASHRAE pipe sizing recommendations for optimal performance.

TYPICAL ROLAIRTROL SPECIFICATIONS

Furnish and install, as shown on plans, a centrifugal type air separator. The unit shall have ____ " inlet and outlet NPT connections tangential to the vessel shell.

The unit shall have a removable 304 stainless steel system strainer with 3/16" (4.8mm) diameter perforations and a free area of not less than five times the cross-sectional area of the connecting pipe. The strainer shall be located at the bottom of the vessel to reduce floor space required for strainer removal.

A blowdown connection shall be provided to facilitate routine cleaning of the strainer and the separator. Specify B&G Model MBV- 1 Rolairtrol accessory for manual blowdown.

Refer to submittal A-329 for information on the MBV-1 manual blowdown valve.

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 and stamped for 125 psig @ 350°F (862 kPa @ 177°C) in accordance with Section VIII, Division I of the ASME Boiler and Pressure Vessel Code, and registered with the National Board of Boiler and Pressure Vessel Inspectors. The air separator(s) shall be painted with one shop coat of light gray air dry enamel.

A manufacturer's Data Report for Pressure Vessels, Form U-1 as required by the provisions of the ASME Boiler and Pressure Vessel Code, shall be furnished for each air separator upon request.

Each air separator shall be Xylem Bell & Gossett Model No. ____ Rolairtrol Air Separator for ____ GPM (____ m³), Shell Dia. ____ " (____ mm) and Min. Vessel Volume ____ Gal (____ liters).

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