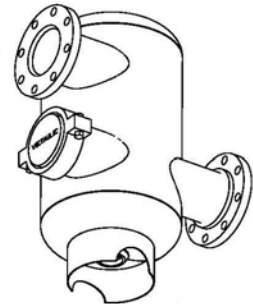


Job Name: _____		
Job No.: _____	JWC Representative: _____	
Tag No.: _____	Submitted By: _____	Date: _____
Engineer: _____	Approved By: _____	Date: _____
Contractor: _____	Order No.: _____	Date: _____

## JASR Series

### ASME Tangential Air Separators With 304 Stainless Steel Strainer Flanged (or NPT) Inlet/Outlet Connections



#### APPLICATION

- JASR Series air separators are designed with tangential openings to enhance the air separation efficiency. The vortex action allows the heavier air-free water to move to the vessel wall area while forcing the separated air into the center where it is vented out of the top of the separator.
- Water exits the vessel through the outlet nozzle connection near the bottom, free of air bubbles, protecting the system from the problems associated with trapped system air.
- A Stainless Steel strainer collects unwanted system debris.

#### DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure:  
 JASR-19-501 to 509: 150 PSI (1035 kPa)  
 JASR-19-510 to 514: 125 PSI (862 kPa)
- 175, 200, 250 & 300 PSI available upon request
- Maximum design temperature: 375° F (191° C)

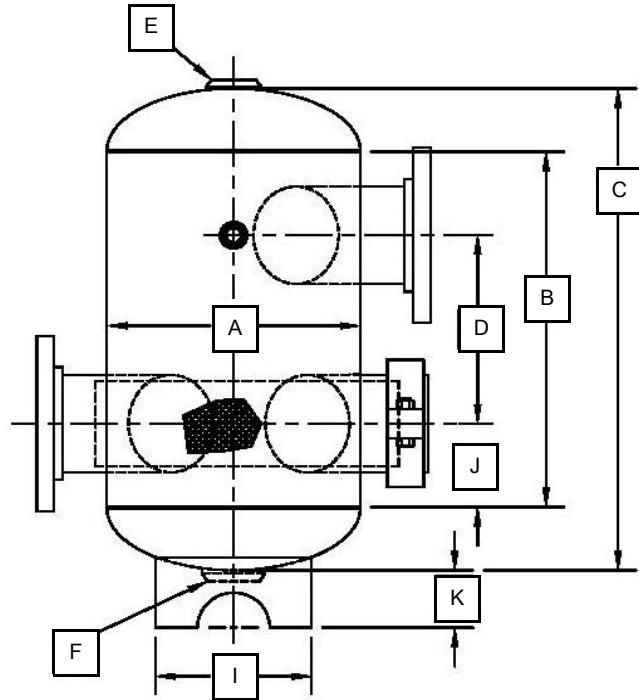
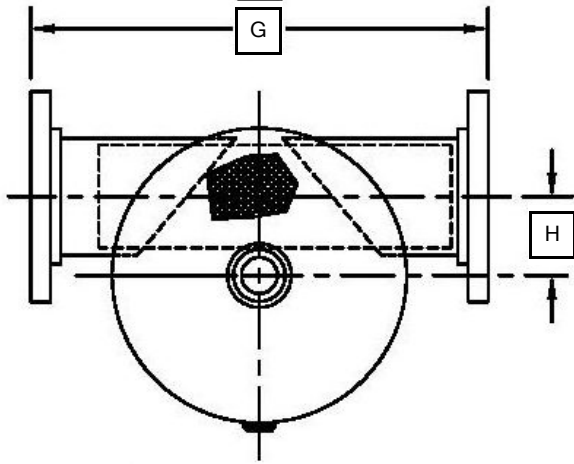
#### TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans a John Wood Model No. JASR-19-\_\_\_\_ ASME stamped tangential air separator with 304 Stainless Steel strainer. The unit shall have \_\_\_\_" flanged/NPT system connections. A blowdown connection is provided to facilitate preventative maintenance and cleaning of the strainer and separator. The unit must be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Division 1 with a stamped MAWP of \_\_\_\_PSI (\_\_\_\_ kPa).

#### SPECIFICATIONS

- Designed and built in accordance with the ASME BPV Code Section VIII, Division 1
- Installation: vertical
- Shell: Carbon Steel with exterior gray primer finish
- Strainer: 304 Stainless Steel
- System connections: MNPT for 2" and 2½" sizes (JASR-19-501 and 502); flanged for 3" and larger
- Strainer access connection: NPT cap for 2" and 2½" sizes (JASR-19-501 and 502); grooved pipe coupling and cover for 3" through 12"; blinded flange for 14" and up.
- These air separators can be supported in the piping system if the piping system hangers are located under the inlet and outlet nozzles as close as possible to the outside diameter of the shell of the unit.
- Optional factory welded support brackets on the shell are optionally available, but are required for the 6" and larger sizes for seismic designs.
- Lifting lugs are not designed to support the vessel in the piping system.

# JASR Series (with Strainer)



**OPTIONS**

- Support brackets with FNPT half couplings factory welded to the shell
- Stainless steel collector tube



MODEL NUMBER	CODE SYMBOL	MAWP	INLET/OUTLET SIZE & TYPE		A DIA		B DIM	C OVERHEADS		D DIM	E DIM	F DIM	G DIM	H DIM	I DIM	J DIM	K DIM	TANK WEIGHT
			IN	TYPE	IN	MM		IN	MM									
*JASR-19-501	UM	150	2	NPT	12	305	13	19½	495	8	1¼	1	16⅝	4¼	9½	2½	3	40
*JASR-19-502	UM	150	2½	NPT	12	305	13	19½	495	8	1¼	1	16⅝	4⅝	9½	2½	2⅞	41
*JASR-19-503	UM	150	3	FLG	12	305	13	19½	495	8	1¼	1	19¾	3¾	9½	2½	2⅞	70
*JASR-19-504	UM	150	4	FLG	14	356	20¼	27½	699	10¾	1½	2	21¾	4¼	11½	4¾	3	100
*JASR-19-505	UM	150	5	FLG	14	356	20¼	27½	699	10¾	1½	2	21¾	3¾	11½	4¾	3¼	115
*JASR-19-506	U	150	6	FLG	20	508	29	40	1016	14½	2	2	28	6¼	18	7¼	2¼	215
*JASR-19-507	U	150	8	FLG	20	508	29	40	1016	14½	2	2	28	5¼	18	7¼	2¼	290
*JASR-19-508	U	150	10	FLG	30	762	39	55¾	1416	19	2	2	41	9⅝	24	8⅝	2⅝	650
*JASR-19-509	U	150	12	FLG	30	762	42	58¾	1492	21	2	2	41	8⅝	24	10½	2⅝	810
JASR-19-510	U	125	14	FLG	36	914	58	79½	2019	31½	2	2	46⅝	10¼	30	13¼	2	1175
JASR-19-511	U	125	16	FLG	42	1067	72	95	2413	36	2	2	52	12½	30	18	2⅞	1470
JASR-19-512	U	125	18	FLG	48	1219	77	103¾	2635	41	2	2	61½	13⅝	42	18	2¾	2225
JASR-19-513	U	125	20	FLG	54	1372	85½	115	2921	45	2	2	66	16	48	20¼	2⅞	3100
JASR-19-514	U	125	24	FLG	66	1676	92½	130	3302	47½	2	2	78	19	60	22½	3	4900

Dimensions are approximate and subject to change  
 Dimensions should not be used for pre-piping  
 Weights are approximate  
 \*Stock model





**JASR Series (with Strainer)**

**PRESSURE DROP CHART FOR TANGENTIAL AIR SEPARATORS WITH STRAINER**

