

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

JVSR Series

ASME Tangential Air Separators With 304 Stainless Steel Strainer Grooved End Inlet/Outlet Connections



- JVSR 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: JVSR-19-501 to 509: 150 PSI (1035 kPa) JVSR-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

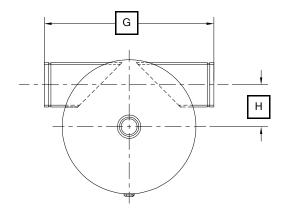
SPECIFICATIONS

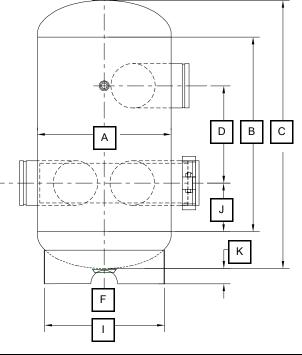
- Designed and built in accordance with the ASME Code Section VIII, Division 1
- Installation: vertical
- Shell: Carbon Steel with exterior gray primer finish
- Strainer: 304 Stainless Steel
- System connections: grooved end pipe
- Strainer access connection: NPT pipe cap for 2"and 21/2" sizes (JVSR-19-501 and 502); grooved pipe coupling and cover for 3" and larger.
- 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.

Furnish and install as shown on plans a John Wood Model No. JVSR-19-_____ ASME stamped tangential air separator with 304 Stainless Steel strainer. The unit shall have _____" grooved end pipe system connections. A blowdown connection shall be 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).

JVSR Series (with Strainer)







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OPTIONS

 Support brackets with FNPT half couplings factory welded to the shell

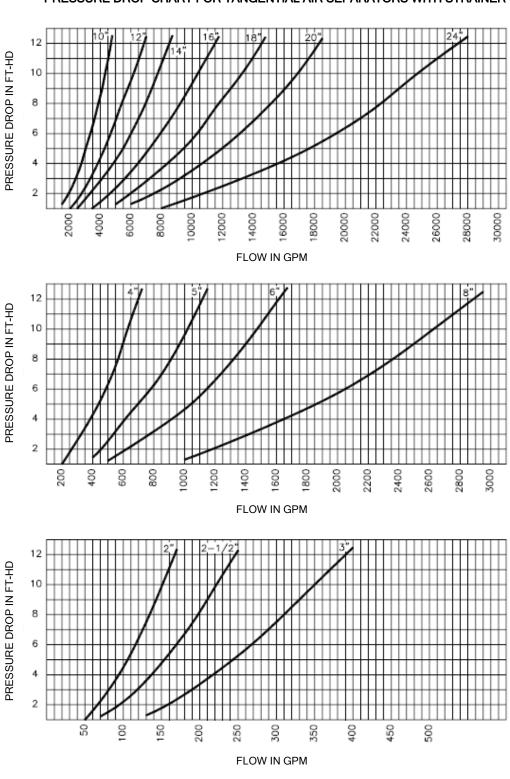
Stainless steel collector tube

MODEL NUMBER	CODE SYMBOL	MAWP	INLET/ OUTLET SIZE		a Dia	B DIM	C OVERH		D DIM	E DIM	F DIM	G DIM	H DIM	I DIM	J DIM	K DIM	TANK WEIGHT
	UM/U	PSIG	IN	IN	мм	IN	IN	мм	IN	LBS							
JVSR-19-501	UM	150	2	12	305	13	19½	495	8	1¼	1	17¼	4¼	9½	21⁄2	3	40
JVSR-19-502	UM	150	21⁄2	12	305	13	19½	495	8	1¼	1	17¼	41⁄8	9½	21⁄2	21⁄8	41
JVSR-19-503	UM	150	3	12	305	13	19½	495	8	1¼	1	17¼	3¾	9½	21⁄2	21⁄8	70
JVSR-19-504	UM	150	4	14	356	20¼	27½	699	10¾	1½	2	19¼	4¼	11½	4¾	3	100
JVSR-19-505	UM	150	5	14	356	20¼	27½	699	10¾	1½	2	19¼	3¾	11½	4¾	3	130
JVSR-19-506	U	150	6	20	508	29	40	1016	14½	2	2	25¾	6¼	18	7¼	2¼	215
JVSR-19-507	U	150	8	20	508	29	40	1016	14½	2	2	26¼	5¼	18	7¼	21⁄4	290
JVSR-19-508	U	150	10	30	762	39	55¾	1416	19	2	2	37½	91⁄8	24	8¾	25⁄8	625
JVSR-19-509	U	150	12	30	762	42	58¾	1492	21	2	2	37½	81⁄8	24	8¾	25⁄8	800
JVSR-19-510	U	125	14	36	914	58	78	1981	31½	2	2	46¾	10¾	30	13¼	2	1493
JVSR-19-511	U	125	16	42	1067	72	96	2438	36	2	2	50½	12½	30	18	3	1690
JVSR-19-512	U	125	18	48	1219	77	103¾	2635	41	2	2	55¼	135⁄8	42	18	2¾	3035
JVSR-19-513	U	125	20	54	1372	85½	115	2921	45	2	2	61	16	48	20¼	21⁄8	3200
JVSR-19-514	U	125	24	66	1676	92½	130	3302	47½	2	2	72	19	60	22½	3	5210



Dimensions are subject to change Weights are approximate *Stock model

JVSR Series (with Strainer)





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