

**FORM U-3A MANUFACTURER'S CERTIFICATE OF COMPLIANCE (ALTERNATIVE FORM)
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM DESIGNATOR (SEE U-1(j))
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1**

1. Manufactured and certified by Kunshan All Clean Filtration & Separation Technology Co., Ltd.
No.89, Xing Pu Nan Road, Shipu, Qiandeng Town, Kunshan City, Jiangsu Province, 215343, P.R. China.
(Name and address of Manufacturer)
2. Manufactured for Filtrafine Corporation, 1599 Monte Vista Ave. Claremont, CA 91711, USA
(Name and address of Purchaser)
3. Location of installation Not known
(Name and address)
4. Type Vertical Tank 0.03m³ A16002-01~A16002-20
(Horizontal, vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)
N/A KW-FSB2AM160121/Rev.A 470-489 2016
(CRN) (Drawing number) (National Board number) (Year built)
5. ASME Code, Section VIII, Div. 1 2015 N/A
(Edition and Addenda, if applicable (date)) (Code Case Number)
6. Shell: (a) Number of course(s) 1 (b) Overall length 830mm

No.	Course(s)		Material Spec./Grade or Type	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, and C)			Heat Treatment	
	Diameter	Length		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	ID215 mm	830 mm	SA-240M 304	2mm	0	1	Spot	0.85	1	Spot	0.85	None	None

Body Flanges on Shells													
No.	Type	ID	OD	Flange Thk	Min hub Thk	Material	How Attached	Location	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
1	Loose	215 mm	242 mm	35 mm	None	SA-182M F304	Fig-2-4(a)	Upper	4&5/8"	SA-193 B7	ID222.5mm, Round 6mm	EPDM	

7. Heads: (a) SA-240M, 304 (b) SA-240M, 304
(Material spec. number, grade or type) (H.T. — time and temp.) (Material spec. number, grade or type) (H.T. — time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat diameter	Side to Pressure		Category A		
		Min	Corr	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Top head	15.8 mm	0	N/A	N/A	N/A	N/A	N/A	306mm	N/A	N/A	N/A	N/A	N/A
(b)	Bottom head	1.6 mm	0	N/A	N/A	2:1	N/A	N/A	N/A	N/A	Concave	N/A	N/A	N/A

Body Flanges on Heads													
Location	Type	ID	OD	Flange Thk	Min hub Thk	Material	How Attached	Bolting					
								Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material		
N/A													

8. Type of jacket N/A Jacket closure N/A
(Describe as ogee & weld, bar, etc.)
- If bar, give dimensions; if bolted, describe or sketch N/A
9. MAWP 1 MPa N/A at max temp. 93 °C N/A Min. design metal temp -20 °C at 1MPa
(Internal) (External) (Internal) (External)
10. Impact test No at test temperature of N/A
(Indicate yes or no and the component(s) impact tested)
11. Hydro., pneu., or comb. test pressure Hydro. 1.3 Mpa Proof test N/A
12. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Medium Inlet	1	DN50	B16.5 SO RF Cl.150	SA-312M TP304	SA-182M F304	2.77mm	0	Inherent	Fig.UW-16.1(c) RT:None	Fig.UW-21(1) RT:None	N/A
Medium Outlet	1	DN50	B16.5 SO RF Cl.150	SA-312M TP304	SA-182M F304	2.77mm	0	Inherent	Fig.UW-16.1(c) RT:None	Fig.UW-21(1) RT:None	N/A
Vent	1	NPT 1/4	NA	SA-312M TP304	N/A	4.5mm	0	Inherent	Fig.UW-16.1(c) RT:None	N/A	N/A
Gauge	2	NPT 1/4	NA	SA-312M TP304	N/A	4.5mm	0	Inherent	Fig.UW-16.1(c) RT:None	N/A	N/A

13. Supports: Skirt No Lugs None Legs None Others 3 Adjustable legs Attached Bolted to shell
(Yes or no) (Number) (Number) (Describe) (Where and how)
14. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name and identifying number):
N/A

FORM U-3A(Back)

15. Remarks

- 1. For noncorrosive service. 2. Impact test exempted as per UHA-51 .
- 3. Vessel serial number was stamped on the top head as per UG-116(k)
- 4. It is the responsibility of the user to ensure that the required overpressure protection system is properly installed prior to initial operation.
- 5. PWHT exempted as per UHA-32 and UHA-44.
- 6. Nuts: Heavy Hex Nut, SA-194, 2H, 5/8", UNC, 4 pieces.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

UM Certificate of Authorization Number 44,887 Expires June 5, 2016

Date Jan.29, 2016 Name Kunshan All Clean Filtration & Separation Technology Co.,Ltd. Signed lesmin

(Manufacturer)

Signed Fang Geng Jan. 29, 2016 ND No. 155

(Certified Individual)

(Representative)