

66128643

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1 Manufactured and certified by E S S Corp, 1565 Britannia Rd. E #36-37; #32-33, Mississauga, ON, L4W 2V6, Canada
(Name and address of manufacturer)

2 Manufactured for ESG Filtration Ltd. #11, 6025-12 Street S.E. Calgary, Alberta T2H 2K1
(Name and address of purchaser)

3 Location of installation Unknown
(Name and address)

4 Type Vertical filter 2777 U0407.2 REG CLV12-CS-390 R0 — 2007
(Type, or vert., tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5 The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE The design construction and workmanship conform to ASME Rules, Section VIII Division 1 2004
to 2006 — —
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6 Shell: SA-106 B 0.375" 1/16" 12 5'-7 1/2"
Mat'l (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7 Seams: S None 85 — — Type 1 None 85 1
Long. (Welded, Dbl. Singl. Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded Dbl. Singl. Lap Butt) R.T. (Spot, Partial, or Full) Eff. (%) No. of Courses

8 Heads: (a) Mat'l SA-105 (b) Mat'l SA-234 WB
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	Bfg12" 300#	1/16"	—	—	—	—	—	15"	Flat
(b)	Bottom	0.2954"	1/16"	—	—	2:1	—	—	—	Concave

If removable, bolts used (describe other fastenings) SA-193-B7, 16 PCS. 1 1/8" Dia. Studs with SA-194-2 Heavy Hex Nuts
(Mat'l, Spec. No., Gr., Size, No.)

9 MAWP 390 n/a psi at max temp 300 n/a °F
(Internal) (external) (Internal) (external)
Min design metal temp -20 °F at 390 psi Hydro, pneu. or comb test pressure 507 psi

10 Nozzles, inspection and safety valve openings:

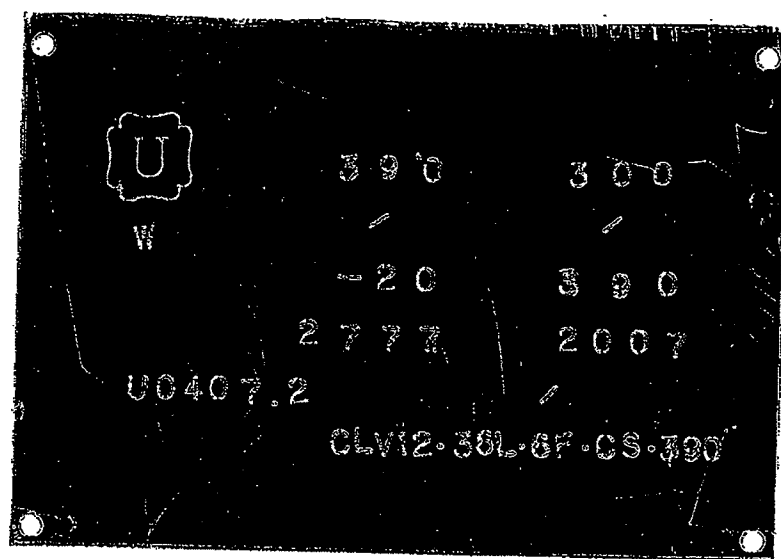
Purpose (Inlet Outlet Drain)	No	Diam. or Size	Type	Mat'l	Nom Thk	Reinforcement Mat'l	How Attached	Location
Inlet / Outlet	2	6"	RFSO	SA-106 B	Sch 80	weld metal	uw16.1c	Shell
Drain / Bottom Drain	2	1"	H/CPLG	SA-105	3000#	weld metal	uw16.1a	Shell / B. Head
DP Gauge	2	1/2"	H/CPLG	SA-105	6000#	weld metal	uw16.1a	Shell
Vent	1	3/4"	H/CPLG	SA-105	3000#	weld metal	uw16.1a	Top Head

11 Supports: Skirt no Lugs no Legs 3 Other — Attached Welded to B/Head & Shell
(Yes or no) (No.) (No.) (Describe) (Where and how)

12 Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: —
(Name of part, item number, Mfg's name and identifying stamp)

Tested in vertical position.
Exempt from impact testing per UG 20f & UCS 66
Safety relieve valve by others. MANUFACTURED PER ESS DRAWING 2777-D001 R0

CERTIFICATE OF SHOP/FIELD 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 Code for Pressure Vessels Section VIII Division 1 'U Certificate of Authorization No <u>34666</u> expires <u>30-Jul</u> <u>2007</u>			
Date <u>Feb 28 107</u>	Co name <u>ESS CORP.</u>	Signed <u>[Signature]</u>	(Representative)
CERTIFICATE OF SHOP/FIELD INSPECTION			
Vessel constructed by <u>ESS CORP</u> at <u>1565 Britannia Rd. E #36-37; Mississauga, ON</u>			
I the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>ONTARIO</u> and employed by <u>TECHNICAL STANDARDS AND SAFETY AUTHORITY, ONTARIO</u>			
have inspected the component described in this Manufacturer's Data Report on <u>FEB 28</u> <u>2007</u> and state that to the best of my knowledge and belief the Manufacturer has constructed this pressure vessel in accordance with ASME Code Section VIII Division 1 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection			
Date <u>FEB 28 2007</u>	Signed <u>[Signature]</u>	Commissions <u>ONT. 20</u>	(Natl Board (incl. Endorsements), State, Prov. And No.)





VESSEL P/N: 5306-3-06-12-03.H

ELEMENT # UPMK-533-30A

REGISTERED PRESSURE 15.0 PSI

CRN: 00107.2 YEAR BUILT 2007

MAWP: 19.0 PSI @ 30.0 °F

S/N: 533-2777

TAC: F-12