

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [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: XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4
(Name and address of Manufacturer)

2. Manufactured for: CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3
(Name and address of Purchaser)

3. Location of installation: UNKNOWN, ENCANA, ALBERTA, CANADA
(Name and address)

4. Type: Vertical Separator 0.17 cu. ft. H421
(Horizontal vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)

5. ASME Code Section VIII Div 1: OH5753.1 / OH11949.2 V1210171 R00 N/A 2011
(CRN) (Drawing No.) (National Board Number) (Year built)

6. Shell (a) Number of course (s): 2 (b) Overall Length: 0 ft. 8.000 in.
[Edition and Addenda (date) (Code Case number)]

No.	Course(s)		Material Spec./Grade or Type	Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
	Diameter	Length		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	4.500"	0ft. 8.000 in.	SA-106 GR B	0.237"	0.063"	SMLS	None	85	1	None	70	-	-
2	4.500"	0ft. 11.000 in.	SA-106 GR B	0.237"	0.063"	SMLS	None	85	1	None	70	-	-

7. Heads: (a) SA-234 WPB (b) SA-234 WPB
(Material spec. number, grade or type) (H.T. - time & 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) LEFT END	0.157"	0.063"	-	-	2:1	-	-	-	-	Concave	SMLS	None	85
(b) RIGHT END	0.157"	0.063"	-	-	2:1	-	-	-	-	Concave	SMLS	None	85

8. If removable, bolts used (describe other fastenings) _____
(Material spec. number, grade, size, number)

Type of jacket _____ Jacket closure _____
(Describe as Ogee & weld, bar, etc.)

If bar, give dimensions; if bolted describe or sketch _____

MAWP 600 PSI N/A at max temp. 500 °F N/A Min. design metal temp. - 20 °F at 600 PSI
(Internal) (External) (Internal) (External)

Impact Test NO, IN ACCORDANCE WITH UG-20(f) at test temperature of _____
[Indicate yes or no and the component(s) impact tested]

Hydro., ~~pneu.~~, or ~~comb.~~ test press. 780 PSI Proof Test _____

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	
Inlet / Outlet	2	2"	PIPE	SA-106 GR B	SA-105	CL.300	0.063"	-	UW16 c)1)	RFSO	SHELL
Drain	1	1/2"	H.CPLG	-	-	CL.6000	0.063"	-	UW16 f)3)a)	-	-

Supports: Skirt None Lugs None Legs None Others 1 bracket Attached Welded to shell
(Yes or no) (Number) (Number) (Describe) (Where and how)

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)

Remarks Hydrotested in horizontal position; P.S.V. is provided by the end user

CERTIFICATE OF SHOP COMPLIANCE

I 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.

Certificate of Authorization Number 23542 Expires 07/15/11

December 12, 2011 Name XEBEC ADSORPTION INC. Signed [Signature]
(Manufacturer) (Representative)

[Signature] DEC 20, 2011
(Certified Individual)

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 2. Manufactured for _____ (Name and address of Manufacturer)
 3. Location of installation CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
 4. Type Vertical (Horizontal or vertical tank) H362 (Manufacturer's serial number) K8523.1 (CRN) V1210137 R.00 (Drawing number) NONE (National Board number) 2011 (Year Built)
 5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1

to AD2011 [addenda, if applicable(date)] (Code Case numbers) N/A (Special Service per UG-120(d)) N/A
 6. Shell SA-516 GR-70 (Material spec. number, grade) 0.500" (Nominal thickness) 0.063" (Corr. Allow.) 2 ft. 3.250 in. (Inner diameter) 5 ft. 0.000 in. [length (overall)]
 7. Seams TYPE 1 [Long. (welded, dbl, singl, lap, butt)] NONE [R.T. (spot or full)] 85 (Eff. %) N/A (H.T. temp.) N/A (Time, hr) TYPE 1 [Grth. (welded, dbl, singl, lap, butt)] NONE [R.T. (spot or full)] 65 (Eff. %) 1 (No. of courses)
 8. Heads: (a) Material SA516 GR.70 (Material spec. number grade or type) (H.T. - time & temp) (b) Material SA516 GR.70 (Material spec. number grade or type) (H.T. - time & temp)

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	0.4375"	0.063"	-	-	2:1	-	-	-	Concave
(b) Bottom	0.5625"	0.063"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastening)

9. MAWP 275 PSI (Internal) N/A (External) at max temp. 500 °F (Material spec. number grade, size, number) N/A
 Min. design metal temp. -20 °F at 275 PSI (Internal) N/A (External)
 Proof test - Hydro. , pneu. or comb. test pressure 358 PSI (External)

10. 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	
Inlet / Outlet	2	3"	PIPE	SA106 GRB	-	SCH80	0.063"	-	UW16(d)	-	-
Fill / Drain	2	2"	H.CPLG	SA105	-	CL3000	0.063"	-	UW16(c)1)	-	HEADS
Instrument	1	1"	H.CPLG	SA105	-	CL3000	0.063"	-	UW16(c)1)	-	-
Instrument	1	1"	F.CPLG	SA105	-	CL.3000	0.063"	-	UW16(f)3)a)	-	-

Supports: Skirt No (Yes or No) Lugs 2 lifting (Number) Legs 4 (Number) Others 2 Insulation rings (Describe) Attached WLD TO SHELL & HEADS (Where and how)

Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: Fabrication drawing ; V1210137 REV 02
 (List the name of part, item number, Manufacturer's name and identifying stamp)
Hydrotested in vertical position; P.S.V. is provided by the end user; Impact test is not required as per UG-20(f).
3" RFWN FLGS CL300 SA105 WLD TO NOZZLES, 3" ELBOWS SR SCH40 SA-234 WPB WLD TO PIPE AND RFWN.

CERTIFICATE OF SHOP/FIELD COMPLIANCE

Verify 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. "U" Certificate of Authorization Number 23437
 Date: 07/15/12
 Co. Name XEBEC ADSORPTION INC. (Manufacturer) Signed Kévin Bernard, (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Constructed by XEBEC ADSORPTION INC. at 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 and employed by RÉGIE DU BÂTIMENT DU QUÉBEC
 Inspected the component described in this Manufacturer's Data Report on December 5, 2011, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer is liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Signed Karim Alem (Authorized Inspector) Commissions K. ALEM QC #ALEK01
13840 A
 (National Board (no endorsements) State, Province and number)

Date: 0 DEC 2011

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
(Name and address of Manufacturer)

2. Manufactured for CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
(Name and address of Purchaser)

3. Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA
(Name and address)

4. Type Vertical H377 K8523.1 V1210154 R.00 NONE 2011
(Horizontal or vertical tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year Built)

5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1 2010
Year

6. Shell A11 N/A N/A
[addenda, if applicable(date)] (Code Case numbers) [Special Service per UG-120(d)]

7. Seams SA-516 GR-70 0.375" 0.063" 2 ft. 3.250 in. 5 ft. 0.000 in.
(Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (inner diameter) [length (overall)]

8. Heads: (a) Material TYPE 1 NONE 85 N/A N/A TYPE 1 NONE 65 1
[Long (welded, dbl, singl, lap, butt)] [R.T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Grth. (welded, dbl, singl, lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)

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	0.4375"	0.063"	-	-	2:1	-	-	-	Concave
(b) Bottom	0.5625"	0.063"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastening) N/A

9. MAWP 275 PSI N/A at max temp. 500 °F N/A
(Internal) (External) (Material spec. number grade, size, number)

Min. design metal temp. -20 °F at 275 PSI Hydro. pneu. or comb. test pressure 358 PSI
(Internal) (External)

Proof test -

10. 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	
Inlet / Outlet	2	3"	PIPE	SA106 GRB	-	SCH80	0.063"	-	UW16(d)	-	-
Fill / Drain	2	2"	H.CPLG	SA105	-	CL3000	0.063"	-	UW16c)1)	-	HEADS
Instrument	1	1"	H.CPLG	SA105	-	CL3000	0.063"	-	UW16c)1)	-	-
Instrument	1	1"	F.CPLG	SA105	-	CL.6000	0.063"	-	UW16c)1)	-	-

Supports: Skirt No Lugs 2 lifting Legs 4 Others 2 Insulation rings Attached WLD TO SHELL & HEADS
(Yes or No) (Number) (Number) (Describe) (Where and how)

Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: Fabrication drawing ; V1210154 REV 02
(List the name of part, item number, Manufacturer's name and identifying stamp)

Hydrotested in vertical position; P.S.V. is provided by the end user; Impact test is not required as per UG-20(f).
3" RFWN FLGS CL300 SA105 WLD TO NOZZLES, 3" ELBOWS SR SCH40 SA-234 WPB WLD TO PIPE AND RFWN.

CERTIFICATE OF SHOP/FIELD COMPLIANCE

I 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. "U" Certificate of Authorization Number 23437
 expires 07/15/12

20 DEC 2011 Co. Name XEBEC ADSORPTION INC. Signed Kévin Bernard (Representative)
(Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

constructed by XEBEC ADSORPTION INC. at 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of QC
 and employed by RÉGIE DU BÂTIMENT DU QUÉBEC

inspected the component described in this Manufacturer's Data Report on December 5, 2011, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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.

20 DEC 2011 Signed Karim Alem Commissions 13840 A
(Authorized Inspector) [National Board (incl. endorsements) State, Province and number]

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 2. Manufactured for _____ (Name and address of Manufacturer)
 3. Location of installation CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
 4. Type Vertical H367
 (Horizontal or vertical tank) (Manufacturer's serial number)
 5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1
 to A11
 [addenda, if applicable(date)]
 6. Shell SA-53 GRB
 (Material spec. number, grade)
 7. Seams ERW
 [Long. (welded, dbl, singl, lap, butt)]
 8. Heads: (a) Material SA-234 WPB
 (Material spec. number grade or type) (H.T. - time & temp) (b) Material SA-105
 (Material spec. number grade or type) (H.T. - time & temp)

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	CL300	0.031"	-	-	2:1	-	-	8"	Concave
(b) Bottom	0.282"	0.031"	-	-	-	-	-	-	-

If removable, bolts used (describe other fastening) 12 Studs 7/8" - 10 UNC SA-193 B7 & 24 Nuts 7/8" - 10 UNC SA-194 2H
 MAWP 605 PSI (Internal) NONE (External) at max temp. 500 °F
 Min. design metal temp. -20 °F at 605 PSI
 Proof test - Hydro. pneu. or comb. test pressure 787 PSI

Nozzles, inspection, and safety valve openings:

Purpose (Outlet, Drain, etc)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet / Outlet	2	3"	PIPE	SA106 GR.B	SA105	SCH.80	0.031"	-	UW16(c)(1)	-	SHELL
Instrument	2	1/4"	H.CPLG	SA105	-	CL6000	0.031"	-	UW16(f)3(a)	-	-
Drain	1	1/2"	H.CPLG	SA105	-	CL3000	0.031"	-	UW16(f)3(a)	-	-

Supports: Skirt No Lugs NONE Legs 2 Others 1 HANDLE
 (Yes or No) (Number) (Number) (Describe) Attached WELDED TO SHELL & HEADS
 (Where and how)

Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following
 (List the name of part, item number, Manufacturer's name and identifying stamp)
Protected in horizontal position; P.S.V. is provided by the end user; Impact test is not required as per UG-20(f);
RFSO Flgs SA105 CL.300 wld to nozzles; 8" RFSO Flgs SA105 CL.300 wld to shell; 3" elbow sch 80 LRBW Sa-234 wpb wld to nozzle (bottom head)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel
 the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. "U" Certificate of Authorization Number 23541
15/12
 Co. Name XEBEC ADSORPTION INC. Signed Kevin Bernard (Representative)
 (Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

Conducted by XEBEC ADSORPTION INC. at 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of
 and employed by RÉGIE DU BÂTIMENT DU QUÉBEC
 the component described in this Manufacturer's Data Report on November 8, 2011, and state that,
 to my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure
 Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or
 concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer
 in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
DEC. 2011 Signed Karim Alem Commissions K. ALEM QC #ALEK01
 (Authorized Inspector) (National Board (incl endor

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 (Name and address of Manufacturer)
 2. Manufactured for CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
 (Name and address of Purchaser)
 3. Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA
 (Name and address)

Type Vertical H368 K8526.1 V1210060 R1 NONE 2011
 (Horizontal or vertical tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year Built)

The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1

to A11 NONE NONE
 [addenda, if applicable(date)] (Code Case numbers) [Special Service per UG-120(d)]
 Shell SA-53 GRB 0.322" 0.031" 0 ft 7.356 in 2 ft 11.000 in
 (Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (inner diameter) [length (overall)]
 Seams ERW NONE 85 NONE - TYPE 1/7 NONE 70 1
 [Long. (welded, dbl, singl, lap, butt)] [R.T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Grth. (welded, dbl, singl, lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)

Heads: (a) Material SA-234 WPB (Material spec. number grade or type) (H.T. - time & temp) (b) Material SA-105 (Material spec. number grade or type) (H.T. - time & temp)

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)
Top	CL300	0.031"	-	-	-	-	-	8"	-
Bottom	0.282"	0.031"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastening) 12 Studs 7/8"- 10 UNC SA-193 B7 & 24 Nuts 7/8"- 10 UNC SA-194 2H
 (Material spec. number grade, size, number)

MAWP 605 PSI NONE at max temp. 500 °F NONE
 (Internal) (External) (Internal) (External)
 Min. design metal temp. -20 °F at 605 PSI Hydro. ~~pneu. or comb.~~ test pressure 787 PSI

Roof test -

Nozzles, inspection, and safety valve openings:

Purpose (T, Drain, etc)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Outlet	2	3"	PIPE	SA106 GR.B	SA105	SCH.80	0.031"	-	UW16(c)(1)	-	SHELL
Inspection	2	1/4"	H.CPLG	SA105	-	CL6000	0.031"	-	UW16(f)(3)a	-	-
Inlet	1	1/2"	H.CPLG	SA105	-	CL3000	0.031"	-	UW16(f)(3)a	-	-

Ports: Skirt No Lugs NONE Legs 2 Others 1 HANDLE Attached WELDED TO SHELL & HEADS
 (Yes or No) (Number) (Number) (Describe) (Where and how)

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

Inspected in horizontal position; P.S.V. is provided by the end user; Impact test is not required as per UG-20(f);
 60 Flgs SA105 CL.300 wld to nozzles; 8" RFSO Flgs SA105 CL.300 wld to shell; 3" elbow sch 80 LRBW Sa-234 wpb wld to nozzle (bottom head)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

I hereby 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. "U" Certificate of Authorization Number 23541

Date: 5/12
 EC. 2011 Co. Name XEBEC ADSORPTION INC. Signed Kévin Bernard (Representative)
 (Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

Inspected by XEBEC ADSORPTION INC. at 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 Inspector, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of and employed by RÉGIE DU BÂTIMENT DU QUÉBEC

I inspected the component described in this Manufacturer's Data Report on November 8, 2011, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, regarding the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer is liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

EC. 2011 Signed Karim Alou Commissions 13840A
 (Authorized Inspector) [National Board (incl endorsements) State #11]

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 (Name and address of Manufacturer)
 2. Manufactured for CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
 (Name and address of Purchaser)
 3. Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA
 (Name and address)
 4. Type Horizontal H364
 (Horizontal or vertical tank) (Manufacturer's serial number)
 5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1
 to A11
 [addenda, if applicable(date)]
 6. Shell SA106 GR.B
 (Material spec. number, grade) 0.375"
 (Nominal thickness) NONE
 (Code Case numbers) NONE
 [Special Service per UG-120(d)]
 7. Seams SMLS
 [Long. (welded, dbl, singl, lap, butt)] NONE
 [R.T. (spot or full)] 85
 (Eff., %) NONE
 (H.T. temp.) -
 (Time, hr) TYPE 2/7
 [Grth. (welded, dbl, singl, lap, butt)] NONE
 [R.T. (spot or full)] 70
 (Eff., %) 1
 (No. of courses)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	(Material spec. number grade or type) (H.T. - time & temp)	
								Flat Diameter	Side to Pressure (Convex or Concave)
(a) Right end	0.336"	0.063"	-	-	2:1	-	-	18"	Concave
(b) Left end	CL.300	0.063"	-	-	-	-	-	-	N/A

If removable, bolts used (describe other fastening) 24 plated Studs 1 1/4"- 7UNC SA-193 B7 & 48 plated Nuts 1 1/4"- 7UNC SA-194 2H
 (Material spec. number grade, size, number)
 MAWP 400 PSI
 (Internal) NONE
 (External) at max temp. 400 °F
 (Internal) NONE
 (External)
 Min. design metal temp. -20 °F
 at 400 PSI
 Hydro. , pneu. or comb. test pressure 520 PSI
 (Internal) NONE
 (External)

Nozzles, inspection, and safety valve openings:

Purpose (Outlet, Drain, etc)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Outlet / Outlet	1	2"	PIPE	SA106 GR.B	-	SCH.160	0.063"	NONE	UW16(d)	-	HEAD
Outlet / Outlet	1	2"	H.CPLG	SA-105	-	CL6000	0.063"	NONE	UW16(c)(1)	-	-
Electrical entry	1	1 1/2"	H.CPLG	SA105	-	CL.3000	0.063"	NONE	UW16(c)(1)	-	-
Drain	1	1/4"	H.CPLG	SA105	-	CL.6000	0.063"	NONE	UW16(f)(3)a	-	-

Supports: Skirt No Lugs NONE Legs 3 saddles Others 1 BRKT & 1 Handle
 (Yes or No) (Number) (Number) (Describe) Attached WELDED TO SHELL & HEADS
 (Where and how)

Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: FAB DRAWING V1210064 R1
 (List the name of part, item number, Manufacturer's name and identifying stamp)
 Voted in horizontal position; P.S.V. is provided by the end user; Impact test is not required as per UG-20(f);
 RFSO Flanges SA105 CL.300 welded to nozzles; 18" RFSO Flange SA105 CL.300 welded to shell;

CERTIFICATE OF SHOP/FIELD COMPLIANCE

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. "U" Certificate of Authorization Number 73541
 DEC. 2011 Co. Name XEBEC ADSORPTION INC.
 (Manufacturer) Signed Kevin Bernard (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Inspected by XEBEC ADSORPTION INC. at 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA
 and employed by RÉGIE DU BÂTIMENT DU QUÉBEC
 the component described in this Manufacturer's Data Report on November 1, 2011, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, for the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer is liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 DEC. 2011 Signed [Signature]
 (Authorized Inspector) Commissions 3. NOË DE JUILY 00 NB12954A

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [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: XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4
(Name and address of Manufacturer)
2. Manufactured for: CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CLAGARY ALBERTA T2H 1Z3 CANADA
(Name and address of Purchaser)
3. Location of installation: UNKNOWN, ENCANA, ALBERTA, CANADA
(Name and address)
4. Type: Horizontal Heater housing 1.42 cu. ft. H365
(Horizontal vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)
5. ASME Code Section VIII Div 1 K8524.1 V209803 R1 N/A 2011
(CRN) (Drawing No.) (National Board Number) (Year built)
6. Shell (a) Number of course (s): 1 (b) Overall Length: 6 ft. 10 in.
[Edition and Addenda (date)] (Code Case number)

No.	Course(s)		Material Spec./Grade or Type	Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
	Diameter	Length		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	6.625"	6 ft. 10 in.	SA106 GR.B	0.280"	0.063"	SMLS	None	85	1	None	70	-	-

7. Heads: (a) SA-234 WPB (Material spec. number, grade or type) (H.T. - time & temp)
 (b) NONE (Material spec. number, grade or type) (H.T. - time & 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) LEFT END | 0.245" | 0.063" | - | - | 2:1 | - | - | - | - | Concave | SMLS | None | 85 |
| (b) | - | - | - | - | - | - | - | - | - | - | - | - | - |

- If removable, bolts used (describe other fastenings) _____
8. Type of jacket _____ (Material spec. number, grade, size, number)
 Jacket closure _____ (Describe as Ogee & weld, bar, etc.)
9. MAWP 500 PSI N/A at max temp. 500 °F N/A Min. design metal temp. -20 °F at 500 PSI
(Internal) (External) (Internal) (External)
10. Impact Test NO, IN ACCORDANCE WITH UG-20(f) at test temperature of _____
[Indicate yes or no and the component(s) impact tested]
11. Hydro., ~~pneu.~~, or comb. test press. 650 PSI Proof Test _____
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	
Inlet / Outlet	1	2"	CL.300 FLG	SA106 GR.B	SA105	SCH.80	0.063"	-	UW16(c)(1)	RFSO	SHELL
Inlet / Outlet	1	2"	H.CPLG SW	SA105	-	CL.3000	0.063"	-	UW16(c)(1)	-	-

13. Supports: Skirt NONE Lugs _____ Legs 2 saddles Others 2 Brks. & 1 insulation ring
(Yes or no) (Number) (Number) (Describe) Attached _____ Welded to shell & H.CPLG _____
(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) _____

Remarks Hydrotested in horizontal position; P.S.V. is provided by the end user; 6" RFSO Flange CL.300 SA105 welded to shell; 2" RFSO Flange CL.300 SA105 welded to nozzles.

CERTIFICATE OF SHOP COMPLIANCE

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.

Certificate of Authorization Number 23542 Expires 07/15/11

November 22, 2011 Name XEBEC ADSORPTION INC. Signed [Signature]
(Certified Individual) (Manufacturer) (Representative)

DEC. 20, 2011

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [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: XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4
(Name and address of Manufacturer)

2. Manufactured for: CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA
(Name and address of Purchaser)

3. Location of installation: UNKNOWN, ENCANA, ALBERTA, CANADA
(Name and address)

4. Type: Horizontal Accumulator 4.0 cu. ft. H363
(Horizontal vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)

5. ASME Code Section VIII Div 1: K8527.1 V209881 R01 N/A 2011
(CRN) (Drawing No.) (National Board Number) (Year built)

6. Shell (a) Number of course (s): 1 (b) Overall Length: 2 ft. 5.000 in
[Edition and Addenda (date) (Code Case number)]

No.	Course(s)	Diameter	Length	Material Spec./Grade or Type	Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
					Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1		14"	2 ft. 5.000 in	SA53 GR.B	0.250"	0.042"	ERW	None	85	2	None	65	-	-

Heads: (a) SA516 GR.70 (b) SA516 GR.70
(Material spec. number, grade or type) (H.T. - time & 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.
LEFT END	0.278"	0.042"	14"	15/16"	-	-	-	-	-	Concave	SMLS	None	85
RIGHT END	0.278"	0.042"	14"	15/16"	-	-	-	-	-	Concave	SMLS	None	85

Removable, bolts used (describe other fastenings) _____
 Type of jacket _____ Jacket closure _____
(Material spec. number, grade, size, number) (Describe as Ogee & weld, bar, etc.)

If bar, give dimensions; if bolted describe or sketch _____
(Describe as Ogee & weld, bar, etc.)

MAWP 300 PSI N/A at max temp. 200 °F N/A Min. design metal temp. -20 °F at 300 PSI
(Internal) (External) (Internal) (External)

Impact Test NO, IN ACCORDANCE WITH UG-20(f) at test temperature of _____
[Indicate yes or no and the component(s) impact tested]

Hydro., pneu., or comb. test press. 390 PSI Proof Test _____

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	
Inlet / Outlet	2	1 1/2"	H.CPLG	SA105	-	CL3000	0.042"	-	UW16(f)(3)a	-	HEADS
Instrument	2	1"	H.CPLG	SA105	-	CL3000	0.042"	-	UW16(f)(3)a	-	-
Drain	1	1/2"	H.CPLG	SA105	-	CL6000	0.042"	-	UW16(f)(3)a	-	-

Ports: Skirt None Lugs None Legs 2 saddles Others None Attached Welded to shell
(Yes or no) (Number) (Number) (Describe) (Where and how)

Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of report: (List the name of part, item number, manufacturer's name and identifying number)

Tests Hydrotested in horizontal position; P.S.V. is provided by the end user

CERTIFICATE OF SHOP COMPLIANCE

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.

Date of Authorization Number 23542 Expires 06/15/11

Effective Date November 21, 2011 Name XEBEC ADSORPTION INC. Signed _____
(Manufacturer)

[Signature] 06.24.2011
(Certified Individual) [Signature] Kévin Bernard (Representative)

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [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: XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4
(Name and address of Manufacturer)

2. Manufactured for: CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CLAGARY ALBERTA T2H 1Z3 CANADA
(Name and address of Purchaser)

3. Location of installation: UNKNOWN, ENCANA, ALBERTA, CANADA
(Name and address)

4. Type: Horizontal Heater housing 1.42 cu. ft. H366
(Horizontal vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)

5. ASME Code Section VIII Div 1 K8524.1 V209804 R1 N/A 2011
(CRN) (Drawing No.) (National Board Number) (Year built)

6. Shell (a) Number of course (s): 1 (b) Overall Length: 6 ft. 10 in.
[Edition and Addenda (date) (Code Case number)]

No.	Course(s)		Material Spec./Grade or Type	Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
	Diameter	Length		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	6.625"	6 ft. 10 in.	SA106 GR.B	0.280"	0.063"	SMLS	None	85	1	None	70	-	-

7. Heads: (a) SA-234 WPB (b) NONE
(Material spec. number, grade or type) (H.T. - time & temp)

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		Eff
	Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	
(a) LEFT END	0.245"	0.063"	-	-	2:1	-	-	-	-	Concave	SMLS	None	85
(b)	-	-	-	-	-	-	-	-	-	-	-	-	-

removable, bolts used (describe other fastenings) _____
(Material spec. number, grade, size, number)

Type of jacket _____ Jacket closure _____
(Describe as Ogee & weld, bar, etc.)

If bar, give dimensions; if bolted describe or sketch _____

MAWP 500 PSI N/A at max temp. 500 °F N/A Min. design metal temp. -20 °F at 500 PSI
(Internal) (External) (Internal) (External)

Impact Test NO, IN ACCORDANCE WITH UG-20(f) at test temperature of _____
[Indicate yes or no and the component(s) impact tested]

Hydro., ~~pneu.~~, or ~~comb.~~ test press. 650 PSI Proof Test _____

Nozzles, inspection, and safety valve openings:

Purpose Outlet, Drain, etc)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
let / Outlet	1	2"	CL.300 FLG	SA106 GR.B	SA105	SCH.80	0.063"	-	UW16(c)(1)	RFSO	SHELL
let / Outlet	1	2"	H.CPLG SW	SA105	-	CL.3000	0.063"	-	UW16(c)(1)	-	-

Supports: Skirt NONE Lugs - Legs 2 saddles Others 1 Brks. & 1 insulation ring Attached Welded to shell & H.CPLG
(Yes or no) (Number) (Number) (Describe) (Where and how)

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)

Remarks Hydrotested in horizontal position; P.S.V. is provided by the end user;
6" RFSO Flange CL.300 SA105 welded to shell; 2" RFSO Flange CL.300 SA105 welded to nozzles.

CERTIFICATE OF SHOP COMPLIANCE

I 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.

Date of Authorization Number 23542 Expires 07/15/11

November 22, 2011 XEBEC ADSORPTION INC. Signed [Signature]
(Manufacturer) (Representative)

[Signature]
DEC 29 2011
(Certified Individual)