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 Manufactured and certified by: XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4 (Name and address of Manufacturer) Manufactured for: CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 (Name and address of Purchaser) Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA (Name and address) Vertical 0.17 cu. ft. Separator Type: H421 (Horizontal vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number) OH5753.1 / OH11949.2 V1210171 R00 N/A 2011 (CRN) (Drawing No.) (National Board Number) (Year built) ASME Code Section VIII Div 1 ED2010 AD2011 N/A [Edition and Addenda (date) (Code Case number) Shell (a) Number of course (s): (b) Overall Length: 0 ft. 8.000 in. Material Course(s) Heat Treatment Thickness Circum. Joint (Cat. A, B, & C) Long. Joint (Cat A) Spec./Grade or Type Length No. Diameter Nom. Time Eff. Type Full, Spot, None Full, Spot, None Corr. Type Eff Temp. SA-106 GR B Oft. 8.000 in. 4.500" 0.237" 0.063" 85 SMLS None 70 None Oft. 11.000 in SA-106 GR B 2 | 4.500" 0.237" 0.063" 85 SMLS 70 None None SA-234 WPB 7. Heads: (a) SA-234 WPB (b) (Material spec. number, grade or type) (H.T. - time & temp) (Material spec. number, grade or type) (H.T. - time & temp) Thickness Radius Location (Top, Side to Pressure Category A Elliptical Flat Conical Hemispherical Bottom, Ends) Corr. Min. Crown Knuckle Ratio Full, Spot, None Apex Angle Radius Diameter Type Convex Concave 0.063" 0.157" LEFT END 85 None SMLS 2:1 Concave 0.063" 0.157" RIGHT END 2:1 None SMLS Concave 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 600 PSI N/A MAWP 600 PSI Min. design metal temp. - 20 °F at at max temp. 500 °F N/A (External) (Internal) (External) (Internal) NO, IN ACCORDANCE WITH UG-20(f) Impact Test 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: Nozzle Thickness Diameter Purpose Material Location Reinforcement Attachment Details Type nlet, Outlet, Drain, etc) or Size Flange (Insp. Open.) Material Nozzle Nom. Corr. Flange Nozzle **ISA-106 GR** 2" SA-105 PIPE CL.300 0.063" SHELL Inlet / Outlet UW16 c)1) **RFSO** 0.063" CL.6000 H.CPLG 1/2" UW16 f)3)a) Drain 1 bracket Others Attached Supports: Skirt None None Welded to shell Legs Lugs None (Describe) (Number) (Number) (Where and how) (Yes or no) 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) Hydrotested in horizontal position; P.S.V. is provided by the end user emarks CERTIFICATE OF SHOP COMPLIANCE ertify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel m to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. 23542 07/15/11 Expires ertificate of Authorization Number

Name

(Certified Individual)

December 12,

XEBEC ADSORPTION INC.

Signed

2011

(b)

(Manufacturer)

Kévin Bernard (Representative)

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. Divisions

| 1 | , Ma | | | | | | | | I | | 00 1/77 | |
|--|--|---|--|--|--|--|---|--|--|---|--|-------------------------------|
| | | | ured and cer | tified by _ | XEBEC A | DSORPTION | INC. 730 pc | 111 - 11 - 11 | | - Jecui | OU ATIT' | ivision 1 |
| 2. | . Ma | nufactu | red for _ | | CFM AIR | EQUIPMENT | 3647 PL (N | ame and add | NDUSTRIEL BLA ress of Manufactur | INVILLE QUÉBE | C J7C 3V4 CA | NADA |
| 3. | Loc | ation of | installation | | CFM AIR | | (Name | DOKN KD SE | CALGARY ALBE | RTA T2H 1Z3 C | ANADA | |
| 4. | Туре | e | Vertical | | H362 | | DUKNOMI | V, ENCANA, | ALBERTA, CANA | ADA | | |
| | | | contal or vertical | | ufacturer's serial numb | per) | K8523.1 | V12101 | 37 R.00 | NONE | | |
| 5. | CODE | chemica E. The c | design, cons | truction, and | of all parts meet workmanship con | the requirer | nents of mat | (Drawing | number) (I | National Board numb | per) | (Year Built) |
| | to | | AD201 | 1 | of all parts meet workmanship cor | norm to the | ASME rules, | Section VIII | ation of the ASI , Division 1 | ME BOILER AND | PRESSURE 1 | /ESSEL |
| | 10 | | denda, if applic | | | | J/A | | | | 2010 Year | |
| 6. | Shell | /Mat | SA-516 G terial spec. nun | | | | se numbers) | | | [Special Service | N/A | |
| 7 | Seams | (Mac | TYPE 1 | moer, grade) | (Nominal thick | ness) | 0.063" (Corr. Allov | | 2 ft. 3.250 |) in. | | |
| /. | Scarris | [Long. (| (welded, dbl., sngl., la | ap, butt)] [R | | 85 | V/A N/ | | (inner diame | eter) | The state of the s | 0.000 in. n (overall)] |
| 8. H | Heads: | (a) Ma | terial SA | 1516 GR.70 | | ", %) (H.T. | temp.) Time | | Welded, dbl., sngl., lap, but | NONE [R.T. (spot or | | 1 |
| Loc | cation (7 | Гор, | Minimum | Corrosion | ber grade or type) (H.T | - time & temp) | (b) Mate | | 16 GR.70 | | (31., / | |
| | ttom, En | | Thickness | Allowance | Crown Radius | Knuckle | Elliptical | Conical | (Material spe | c. number grade or ty | pe) (H.T. – time & | temp) |
|) I | Top Bottom | - | 0.4375" | 0.063" | | Radius | MINISTER PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY | Apex Angle | riemspheric | Flat Diame | ter Sid | e to Pressure |
| | | ble bol | | | | | 2:1 | | | | | ex or Concave |
| | | | | scribe other | fastening) | | | | | | | Concave |
| MAI | WP | | ternal) | | N/A | at may t | | (Material | spec. number gra | ade sizo punt | | |
| Min. | . design | | temp. | - / 1 1 0 | External) | at max tem | | (Into- | | N/A | | |
| Proo | of test | | | | 275 PSI | _ Hydr | o. , pneu. or | (International) comb. test | | 58 PSI | (External |) |
| Nozzl | les, ins | pection | , and safet | y valve oper | inco | | | | | | | |
| rurpose | e | No | Diameter | | Mate | | | | | | | |
| t / Outl | rain, etc) | 2 | or Size | Type | Nozzle | Flange | Nozzle T Nom. | Company of the last of the las | - Chiloroconicile | Attachmen | t Details | Location |
| / Drain | | 2 | 2" | PIPE | SA106 GRB | | SCH80 | Corr. 0.063" | Material | Nozzle | Flange | (Insp. Open |
| rument | | 1 | 1" | H.CPLG H.CPLG | SA105 | | CL3000 | 0.063" | | UW16(d) | | |
| rument | | 1 | 1" | F.CPLG | SA105 SA105 | | CL3000 | 0.063" | | UW16c)1) UW16c)1) | | HEADS |
| | | | | | | | CL.3000 | 0.063" | | UW16(f)3)a) | | |
| | | | | | | | | | | (1) 新州·森德 | AND THE PERSON NAMED IN | |
| innorts | s. Skirt | | | Lugs | 2 lifting | Legs | 4 | Others | 2 Insulation rin | OC AH-I | | |
| apports | s: Skirt | | No Yes or No) | | | | (Number) | | | igs Attache | a WLD TO | SHELL & HEA |
| | | (| Yes or No) | Data Banas | (Number) | | (Mulliper) | | (Describe) | | (M/h | oro and bank |
| | | (| Yes or No) | Data Reportion drawing | s properly iden : V1210137 RF | tified and si | gned by Cor | nmissioned | (Describe) Inspectors ha | ve been furnis | (Wh | ere and how) |
| marks: | : Manu the rep | facture ort: | Yes or No) er's Partial Fabricat | Data Reportion drawing (List the | s properly iden ; V1210137 RE | tified and si V 02 tem number, | gned by Cor | nmissioned | (Describe) Inspectors ha | ve been furnis | (Wheelight shed for the | ere and how) following |
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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

| Mani | facture | d and certifi | ed by | XEBEC ADS | SORPTION INC | C. 730 BOUL | VARD IND | USTRIEL BLAINVI | LLE QUÉBEC 17 | C 3V4 CANAD | Δ |
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| 3. Locati | | | JOHN SER | H377 | | UNKNOWN, I | Name and ad | dress) | (PASE) | Marie III | MENTAL STATE OF THE STATE OF TH |
| | (Horizon | Vertical ital or vertical ta | | turer's serial number |) | (8523.1 (CRN) | V1210154 | (Natio | NONE onal Board number) | - N- | 2011 ear Built) |
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| to _ | [adde | A11 enda, if applicat | ole(date)] | 11.9/2.9/3 | (Code Case r | (umbers) | 197 | | N/A [Special Service p | Year | 5 77 834 · |
| Shell | | SA-516 GR | | 0.375" (Nominal thickne | | 0.063" | | 2 ft. 3.250 in | 1. | 5 ft. 0.0 | |
| Seams | | TYPE 1 elded, dbl., sngl., lap, | N | ONE 8 | 5 N// | (Corr. Allow.) N/A | | (inner diameter | NONE | [length (d | overall)] |
| Heads: (| | erial SAS | 516 GR.70 | City | , %) (H.T. ten | | [Girth. (w | uelded, dbi., sngl., lap, butt)] 1.6 GR.70 | [R.T. (spot or full)] | | (No. of courses |
| Location (To | pp. T | Minimum | Corrosion | grade or type) (H.T | The state of the s | | E. Marine | (Material spec. r | number grade or type) | | The second section of the second section is a second section of the second section of the second section is a second section of the second section is a second section of the second section of the second section is a second section of the sectio |
| Bottom, End | | Thickness | Allowance | Dad: | Knuckle E Radius | Iliptical Ratio A | Conical pex Angle | Hemispherical Radius | Flat Diamete | | to Pressure c or Concave) |
| Тор | + | 0.4375" | 0.063" | 经理解 | | 2:1 | - | - A | | | oncave |
| Bottom | | | THE PERSONS NAMED IN COLUMN TWO | A CONTRACTOR OF THE PARTY OF TH | W-12/31 | 2:1 | - | | 1 / / / | C | oncave |
| If removab | le, bolt | s used (des | scribe other fa | astening) | | | | N/A | | The State | |
| MAWP | | 5 PSI | | N/A | at max temp | 0. | (Material 500 ° | spec. number grad | | | |
| Min. design | | ernal) temp | 20 00 | xternal) | | | (Intern | al) | N/A | (External) | Strates. |
| | Metai | temp. | -20 °F a | 275 PSI | _ Hydro | . , pneu. or | comb. test | pressure 35 | 8 PSI | | |
| Proof test | | | | | | | | | | | |
| | ection | | y valve openi | ings: | | | | | | Marin Marin | 独加的 |
| pose | No. | Diameter or Size | Type | Mate | | Nozzle T | METERS PROGRAMMENT TO SERVICE | Reinforcement | Attachment | Details | Location |
| t, Drain, etc) Outlet | 2 | 3" | PIPE | Nozzle SA106 CDD | Flange | Nom. | Corr. | Material | Nozzle | Flange | (Insp. Ope |
| Orain Drain | 2 | 2" | H.CPLG | SA106 GRB SA105 | - 100 | SCH80 CL3000 | 0.063" | 20 17615 mpk218 | UW16(d) | | HEAD. |
| nent | 1 | 1" | H.CPLG | SA105 | | CL3000 | 0.063" | | UW16c)1) | | HEAD |
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| | 1 | 1" | F.CPLG | SA105 | ASS -188 > 5 | CL.6000 | 0.063" | 11年10日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本 | HW16c)1) | STATE OF THE STATE | KINE SHEET STATES |
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| ment | The state of the s | No (Yes or No) | F.CPLG Lugs | 2 lifting (Number) | Legs | CL.6000 4 (Number) | 0.063" Others | 2 Insulation rin (Describe) | | | |
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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

| | 1777 | | | THE GREET STATE | | THU PIE | Soure ves | sser Code Ru | les, Sont | on VITT | iny) |
|--------------------------------|-----------------------------|--|--|--|--|------------------------------|--|--|---------------------|---|---------------------------------------|
| | | red and certif | ified by _ | XEBEC A | ADSORPTION | INC 720 00 | ULEVADO IN | DUSTRIE BLAN | Joecti | OII ATIT | Division 1 |
| 2. N | Manufacture | ed for | | CFM AIR | EQUIPMENT | 3647 TU (N | ame and addre | DUSTRIEL BLAINV | VILLE QUÉBE | C J7C 3V4 C | ANADA |
| 3. Lo | ocation of in | nstallation | 1 | 4 18 18 19 | LIVI | (Name a | and address of F | Purchaser) | TA T2H 1Z3 CA | ANADA | THE REAL PROPERTY. |
| 4. Ty | ype | Vertical | note: | H367 | | ONKNOWN | (Name and ac | ALBERTA, CANADA address) | A | | GAR. TAR. |
| | (Horizoni | ntal or vertical to and physical | | ufacturer's serial numb | The second secon | K8526.1 (CRN) | V12100 | 060 R1 | NONE | A BARRET | 2011 |
| 5. The | DE. The des | sign, constr | ruction, and w | of all parts meet workmanship con | the requirem | nents of mate | erial specifica | number) (Nation of the ASME, Division 1 | nonal Board numb | er) | (Year Built) |
| to | 20272 | A11 | | 1 | | | Section VIII, | Division 1 | BUILER AND | PRESSURE ED2010 | VESSEL |
| c Chall | [adden | enda, if applicab | ible(date)] | 18311 | NO | ONE | | BEET BEET | | Year | 100 7 3 1 1 5 F |
| 6. Shell | | SA-53 GR | | (Nominal thicks | | se numbers) 0.031" | 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | 0.7.7. | [Special Service | ONE ce per UG-120(d | 0)] |
| 7. Seams | s | ERW | | (Nominal thickr | 05 | (Corr. Allow | | 0 ft 7.356 in (inner diameter | | 2ft | 11.000 in |
| 8 Hoods | [Long. (webd : (a) Mater | ided, dbl., sngl., lap, t rial SA-2 | 234 WPR | T. (spot or full)] (Ef | HT., %) (H.T. t | ONE | | TYPE 1/7 | NONE | [lengt | gth (overall)] |
| The state of | 19.15 | (Ma | aterial spec. number | per grade or type) (HT | (11.1.0 | (Time, t (b) Mater | .hr) [Girth. (we | velded, dbl., sngl., lap, butt)] | [R.T. (spot or fu | , , | |
| Location (T Bottom, End | nds) Thiel | Kness Allo | rrosion Cro owance Rad | di | e Filiptical | COLUMN TWO IS NOT THE OWNER. | | (Material spec. nu | umber grade or type | e) (HT _ H= | (temp) |
| (a) Top | CL | L300 0.0 | 031" | dius Radius | | Apex Ang | | Herical Flot D | Diameter | Side | e to Pressure |
| Bottom If remova | | | 031" - | | 2:1 | A COM - 116 | - | | 8" | (Conve | ex or Concave) |
| | | | cribe other fa | astening) | 自身 体的对象。 | 12 Stude 7 to | "- 10 11 | A 10 | | C | Concave |
| MAWP _ | 605 F | mal) | THE RESIDENCE OF THE PERSON. | NONE | at max temp | n | | SA-193 B7 & 24 N spec. number grade, | Size purch | UNC SA-19 | 94 2H |
| Min. design | | 7 100000 | -20 °F (Ex | Accilial) | at max temp | np | 500 oF | in individual grade, | NONE NONE | r) | |
| Proof test | | | | | _ Hydro | o. , pneu. or | comb. test p | pressure 787 I | PSI | (Externa | al) |
| Nozzles, ins | pection, a | and safety | valve openin | ngs: | | | | | | | |
| Purpose Outlet, Drain, etc) | N- | Diameter or Size | r T | Mater | | Nozzle 7 | Thickness | Dai C | | | |
| ilet / Outlet | 2 | 3" | DIDE | Nozzle SA106 GR.B | Flange | Nom. | Corr. | Reinforcement Material | Attachme Nozzle | ent Details | Location (Inch. Ones) |
| nstrument Drain | 2 | 1/4" | H.CPLG | SA106 GR.B SA105 | SA105 - | SCH.80 CL6000 | 0.031" | | UW16(c)(1) | THE RESERVE OF THE PROPERTY OF THE PARTY OF | (Insp. Open.) SHELL |
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| RFSO Flgs SA1 | 105 CL.30 | 00 wld to | nozzles; 8" | RFSO Flas SA1 | 105 CL 300 W | wid to about | not required | ed as per UG-20(| (D) ; | | le (bottom head) |
| | | | CEDTI | FICATE | Card State of the last of the | ma to shell, | 3 elbow so | sch 80 LRBW Sa- | -234 wah w | ld to nozzla | e (bottom board) |
| the ASME D | ments m | ade in thi | is report are | correct and th | nat all details | s of design | material | IANCE construction and orization Number | | | tom nead |
| /15/12 | and I | ressure \ | vessel Code | , Section VIII, | Division 1. | "U" Certifica | ate of Author | construction and orization Number | ₩ orkmans | hip of this | vessel |
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| the compos | nent des | cribed in | this Manufa | and employed acturer's Data I er has construc | Benow RÉGI | IE DU BÂTI | MENT DU C | NDUSTRIEL BLAINV sel Inspectors a QUÉBEC | ind/or the s | State or Pr | ovince of |
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| ction VIII, D | Division 1 | 1. By signi | ing this cert | tificate neither | the Inspect | essure vess | sel in accord | dance with ASM | 1E Boiler an | and state | e that, |
| any mann | for an | personal | injury or p | roperty da | s Data Rep | ort. Furthe | rmore, neit | dance with ASM ver makes any wither the Inspector om or connected EM OC | warranty, e | xpressed | or |
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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 Manufactured and certified by XEBEC ADSORPTION INC. 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA (Name and address of Manufacturer) CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA Manufactured for (Name and address of Purchaser) Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA (Name and address) H368 Vertical Type V1210060 R1 NONE K8526.1 (Manufacturer's serial number) (Horizontal or vertical tank) 2011 (Drawing number) (National Board number) (CRN) The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL (Year Built) CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1 ED2010 A11 Year to NONE [addenda, if applicable(date)] NONE (Code Case numbers) [Special Service per UG-120(d)] SA-53 GRB 0,322" Shell 0 ft 7.356 in 0.031" (Material spec. number, grade) (Nominal thickness) 2 ft 11.000 in (Corr. Allow.) (inner diameter) [length (overall)] **ERW** NONE Seams 85 NONE **TYPE 1/7** NONE [Long. (webled, dbl., sngl., lap, butt)] 70 [R.T. (spot or full)] (H.T. temp.) [Girth. (welded, dbl., sngl., lap, butt)] (Time, hr) [R.T. (spot or full)] (No. of courses) (Hf., %) SA-234 WPB Heads: (a) Material (Material spec. number grade or type) (H.T. - time & temp) SA-105 (b) Material (Material spec. number grade or type) (H.T. - time & temp) Corrosion Crown Minimum ocation (Top, Knuckle Elliptical Conical Hemispherical Side to Pressure Allowance Thickness Radius ottom, Ends) Flat Diameter Radius Ratio Apex Angle Radius (Convex or Concave) 0.031" CL300 Top 0.031" 0.282" Bottom 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) 605 PSI MAWP NONE at max temp. 500 °F NONE (Internal) (External) (Internal) (External) lin. design metal temp. -20 °F at 605 PSI Hydro. , pneu. or comb. test pressure 787 PSI roof test ozzles, inspection, and safety valve openings: Diameter pose Material Nozzle Thickness Reinforcement **Attachment Details** No. Location Type or Size t. Drain, etc) Nozzle Flange Material Nom. Corr. (Insp. Open.) Nozzle Flange Outlet PIPE SA106 GR.B SA105 0.031" SCH.80 SHELL UW16(c)(1) 1/4" ment H.CPLG SA105 CL6000 0.031" UW16(f)3)a) H.CPLG SA105 CL3000 0.031" UW16(f)3)a) orts: Skirt No NONE Others Legs 1 HANDLE Lugs Attached WELDED TO SHELL & HEADS (Number) (Number) (Yes or No) (Describe) (Where and how) arks: 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) tested 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 at the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel e ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. "U" Certificate of Authorization Number 23541 5/12 EC. 2011 Co. Name XEBEC ADSORPTION INC. Signed (Manufacturer) Kévin Bernard (Representative) CERTIFICATE OF SHOP/FIELD INSPECTION 730 BOULEVARD INDUSTRIEL BLAINVILLE QUÉBEC J7C 3V4 CANADA ted by XEBEC ADSORPTION INC. ned, 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, y knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Boiler and Pressure tion VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or ing the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C. 2011

Signed

(Authorized Inspector)

Commissions

13840 A
[National Board (incl endorsements)

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

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| 3 | Location | of installa | tion | | - COOLD | MENT 3647 | BLACKBURN | nd address of Manua RD SE CALGARY (dress of Purchaser) | ALBERTA T2H 12 | 73 CANADA | CAIVADA |
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| 4. | Туре | 1101120 | | H364 | | K8525.1 | (Nam | ville and address) | | | |
| | (Ho | orizontal or ve | ertical tank) | (Manufacturer's ser | ial number) | | | 0.00 | NONE | | 2011 |
| 5. Th | he chemi | cal and ph | | | | (CR | (N) | Drawing number) | (National Board r | number) | The state of the s |
| CC | JUL. THE | design, ed | onsa action, | and workmansh | nip conform | to the ASME | of material sp | Drawing number) Decification of the n VIII, Division 1 | ASME BOILER | AND PRESS | (Year Built) |
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| . Shell | | | 6 GR.B | | (0 | NONE ode Case numb | pers) | | | NONE | ear |
| . 0110 | | | number, grade | e) (Nomina | .3/5" | | 0.063" | | [Special S | ervice per UG | -120(d)] |
| Seam | | SMLS | | NONE | al thickness) | (Co | rr. Allow.) | | liameter) | | 3 ft. 0.000 in |
| Handa | | (webled, dbl., sn | | [RT. (spot or full)] | 85 (Bf., %) | NONE | | TYPE 2/7 | | | [length (overall)] |
| Heads | s: (a) Ma | aterial _ | SA516 GR. | 70 | THE RESERVE OF THE PARTY OF THE | (H.T. temp.) | (Time, hr) | [Girth. (welded, dbl., sngl., k | - L 1139 | NE otorful)] | 70 1 (Eff., %) (No. of cours |
| Location (| | Minimum | Corrosion | c. number grade or typ | e) (H.T. – time & | temp) (t |) Material | SA105 | | | |
| Bottom, Er Right end | | | Allowance | Radina | Radina E | lliptical | Conical H | (Materia lemispherical | al spec. number grade of | or type) (H.T | - time & temp) |
| Left end | _ | 0.336" CL.300 | 0.063" | - 19 | - | | pex Angle | Radius | Flat Diameter | | Side to Pressure |
| | | | | | 0-786 | 2:1 | - | 46 58. 6 9/6 | - 1995 · | (C | Concave Concave |
| 11 Terriova | abic, bu | its used (i | describe ot | her fastening) | 2 | A plated St | - 100000 | - | 18" | | NI/A |
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| Min. desig | ın) n metal | ternal) | -20 °F | (External) | at ma | x temp | | terial spec. number | grade, size, nun | nber) | The second secon |
| roof test | | temp. | -20 F | _ at400 | PSI | Hvdrona | (II | nternal) | NONE | (Fy | ternal) |
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| ose | Pection | , and safe | ety valve o | penings: | | | | | | | |
| Drain, etc) | No. | Diamete or Size | The state of the s | Mate | erial | Nozzl | Thickness | Sales Second | | | |
| Dutlet | 1 | 2" | PIPE | Nozzle | Flange | Nom. | | Reinforcemen | t Attachmen | t Details | Location |
| utlet | 1 | 2" | H.CPLG | SA106 GR.B | (B) (C) (C) | SCH.160 | ~~~. | Material NONE | Nozzle | Flange | (Insp. Open.) |
| CONTRACTOR OF THE PARTY OF THE | | | NAME AND ADDRESS OF THE OWNER, TH | SA-105 | STATE OF THE PARTY | | | NONE | 11/1/1/11 | No. of Concession, Name of Street, or other Persons, Name of Street, or ot | ST ST ST |
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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 | Manut | factured an | nd certified b | by: | XEBEC A | DSOPPTIO | NI TAIC | 720 POI | II TAID | ICTRIE | rules, S | ection | 1 VIII, | Divisi | ion 1 |
|---|------------|------------------|------------------|--|--|---|---------------|-------------------|-------------|-----------------|--|--------------------|-------------|----------------|---------------------|
| 2. | | actured for | | | R EQUIPMI | ENT 2647 F | IN TINC. | ame and | address of | f Manufacti | urer) | E QUE | BEC J7C | 3V4 | |
| | Locatio | n of install | ation | | | ENT 3647 E | | | | | | 1 1Z3 (| CANADA | | |
| 4 | Type: _ | | Horizonta | A CANADA CONTRACTOR OF THE PARTY OF THE PART | | | | (Name a | ind addres | 55) | ANADA | | | | |
| | | (Horiz K8524. | contal vertical, | or sphere) | | Heater hour | r. etc.) | | | cu. ft. | | | H36 | | |
| | CMEC | (CRN) | VIII Div 1 | | (Drawins | R1 | | | | N/A | | (Manu | ufacturer's | | |
| | | | | | DZUIII AD" | 2011 da (date) | | | | Board Nu N/A | | | | (Year bui | |
| 6. Sh | | | course (s) | | 1 | | Overall I | Length: | (Co | | number) | 0 10 | | | |
| No. Diame | | Length | Spec./Grad | de or Type | Thickness Nom. | 5 | Long. Jo | int (Cat A | | Circun | m. Joint (Cat. | ft. 10 i | | | |
| 1 6.62 | 5" 6 | ft. 10 in. | SA106 | CDD | 20011 | orr. Type | | pot, None | e Eff. 85 | Type 1 | Full, Spot, | None | Eff T | Heat Treamp. | Time |
| | | | | | | | | | 03 | - | None | | 70 | - | - |
| 7. Heads: | (a) _ | (Material a | S/ | A-234 WPB | | | | | | | | | | | |
| Locatio | оп (Тор, | Thickne | ess ess | rade or type) (Radius | H.T time 8 | (t k temp) |) | (M: | aterial spe | oc number | NONE | | | | |
| Bottom | , Ends) | Min. | Corr. Cro | - dius | Elliptical | Conical | Hemisph | erical | Flat | Side to | r, grade or ty Pressure | pe) (H. | | & temp) gory A | |
| (a) LEFT (b) - | END | 0.245" | 0.063" | - The second | 2:1 | Apex Angle | Radiu | | lameter | Convex | Concave | Туре | | | Eff |
| | bolts 11 | sed (doca | ribo | | A STATE OF THE PARTY OF THE PAR | | | | | | Concave | SMLS | | one | 85 |
| If removable, | | seu (uesc | nibe other | fastenings) | | | | | | | | - | | | - |
| 8. Type of j | | | | | | 7 | kot d | (Material | spec. nur | nber, grad | de, size, num | ber) | | | |
| If bar, giv | e dime | nsions; if | bolted de | scribe or de | otak | Jac | ket clos | ure | | | | - | | | |
| MAWP _ | 300 PS | 1 | N/A | | | | | | | - (De | escribe as Og | jee & w | eld, bar, e | etc.) | |
| . Impact Tes | (Internal | | (External) | | x temp. | CONTRACTOR OF THE PROPERTY OF | N/Exte | /A | Min. | design n | netal temp. | -20 | °F at | 500 |) PSI |
| | | [Ind | icate yes or r | CORDANCE no and the com | WITH UC | 5-20(f) | (LXLE | ernal) | | perature | | | | - | |
| Hydro., pne Nozzles, insi | nection | end | st press. | 650 |) PSI | <pre>pact tested] Proof Te</pre> | | | | | | Jan Bay | | | |
| Nozzles, ins | | lo. Diame | ter i | | | | .SC | | | | | | | | |
| nlet / Outlet | tc) 'V | or Siz | ze Type | Nozzle | Material Flan | | Nozzle T | CANCEL MANAGEMENT | ''' | einforcem | ent At | tachmo | nt Details | | |
| nlet / Outlet | | 2" | CL.300 FL | - JOILEON OIL | .B SA1 | | Nom. CH.80 | 0.06: | r. | Material | No | zzle | Flang | | Location sp. Ope |
| | | | H.CPLG SV | SA105 | - | THE RESIDENCE PROPERTY. | 3000 | 0.063 | | | STATES AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN CO | 6(c)(1) 6(c)(1) | RFSO | | SHELL |
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| pports: Skirt | | | | | | | | | | | | | | | |
| PPUILS: SKIRT | | NONE | Lugs | | | egs 2 s | saddles | OHL | 2 | Brks. & | 1 | | | | |
| nufacturer's P | (Ye | s or no) | | (Numb | | | Import | Othe | ins | sulation ri | ing Atta | ched | Welde | ed to she | II & H.CPI |
| nufacturer's Pa ne report: (List | the na | me of par | rts properly | y identified a | and signed | by Commi | issioned | Inspec | tors have | Describe) |) | | - (W | /here ar | nd how |
| | | | , .com mui | moei, manufa | acturer's n | ame and id | lentifyin | g numb | per) | ve been | Turnished | for the | e follow | ing ite | ms of |
| arks | | | | | | | | | | | | | | | |
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| hat the staten he ASME BO te of Authori | nents n | nade in th | his report | RTIFICA | ATE OF | SHOP | COMI | PLIA | VCE | | | | | | |
| he ASME BO | DILER | ANDP | RESSURF | VESSEI C | nd that all | details of | design, | materia | CODO | | | | | | |
| te of Authori | ization | Number | | 3542 | ODE, Sec | tion VIII, | Division | 11. | , consi | uction | and work | mansl | hip of th | nis vec | col |
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| vember 22, | Nan | 2007 | XEBI | EC ADSORI | PTION IN | C. | 4 | | 1 | // | 1 | | | | |
| 2011 | -// | 5/- | | | | | Sign | led | 7 | (/ | 1 | 1 | | 1 | |
| | 1/9 | 4 11 | sc.20 2 | (Manufactur | rer) | | | | - | 11. | - | 4 | | - | |
| | (Certified | d Individual) | , ,,,,, | 011 | | | | | 1 |) Ké | vin Bernard | Pon | | - | |
| Ball Ball Ball | | | | | | | | | | 0 | The state of the s | represe | entative) | | |

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 XEBEC ADSORPTION INC. 730 BOUL INDUSTRIEL BLIANVILLE QUEBEC J7C 3V4 Manufactured and certified by: (Name and address of Manufacturer) CFM AIR EQUIPMENT 3647 BLACKBURN RD SE CALGARY ALBERTA T2H 1Z3 CANADA Manufactured for: (Name and address of Purchaser) Location of installation UNKNOWN, ENCANA, ALBERTA, CANADA (Name and address) Horizontal 4.0 cu. ft. Type: _ Accumulator H363 (Horizontal vertical, or sphere) (Capacity) (Manufacturer's serial number) (Tank, separator, etc.) K8527.1 N/A V209881 R01 2011 (National Board Number) (CRN) (Drawing No.) (Year built) ASME Code Section VIII Div 1 ED2010 AD2011 N/A [Edition and Addenda (date) (Code Case number) Shell (a) Number of course (s): (b) Overall Length: 2 ft. 5.000 in Material Course(s) Circum. Joint (Cat. A, B, & C) Long. Joint (Cat A) Heat Treatment Thickness Spec./Grade or Type Vo. Diameter Length Type Full, Spot, None Full, Spot, None Nom. Type Time Eff Temp. Corr. SA53 GR.B 2 ft. 5.000 in 14" 0.250" 85 None ERW 0.042" None 65 SA516 GR.70 Heads: (a) (b) SA516 GR.70 (Material spec. number, grade or type) (H.T. – time & temp) (Material spec. number, grade or type) (H.T. - time & temp) Thickness Radius Location (Top, Side to Pressure Elliptical Category A Hemispherical Conical Flat Bottom, Ends) Min. Corr. Crown Knuckle Ratio Eff Apex Angle Diameter Radius Full, Spot, None Convex Concave Type 0.278" LEFT END 0.042" 14" 15/16" 85 Concave SMLS None RIGHT END 0.278" 0.042" 14" 15/16" 85 SMLS None Concave novable, bolts used (describe other fastenings) (Material spec. number, grade, size, number) Type of jacket Jacket closure If bar, give dimensions; if bolted describe or sketch (Describe as Ogee & weld, bar, etc.) 300 PSI 1AWP N/A at max temp. 200 °F N/A Min. design metal temp. -20 °F 300 PSI at (Internal) (External) (Internal) (External) NO, IN ACCORDANCE WITH UG-20(f) mpact Test at test temperature of [Indicate yes or no and the component(s) impact tested] /dro., pneu., or comb. test press. 390 PSI Proof Test zzles, inspection, and safety valve openings: Purpose Diameter Material Nozzle Thickness No. Reinforcement Attachment Details Location utlet, Drain, etc) Type or Size Nozzle Flange Nom. Corr. Material (Insp. Open.) Flange Nozzle t / Outlet 1 1/2" H.CPLG SA105 CL3000 0.042" UW16(f)(3)a) HEADS trument H.CPLG SA105 CL3000 0.042" UW16(f)(3)a) Drain 1/2" H.CPLG SA105 CL6000 0.042" UW16(f)(3)a) orts: Skirt None Lugs None 2 saddles Legs Others None Attached Welded to shell (Yes or no) (Number) (Number) (Describe) facturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of (Where and how) report: (List the name of part, item number, manufacturer's name and identifying number) Hydrotested in horizontal position; P.S.V. is provided by the end user CERTIFICATE OF SHOP COMPLIANCE at the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel 23542 Expires 06/15/11 XEBEC ADSORPTION INC. Name vember 21, Signed 2011 (Manufacturer)

e ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

e of Authorization Number

Dec. 00, 1

(Certified Individual)

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)] Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

| As Requi | rea by | LIG. | d by | Y | FREC ADS | ODDTION | V INC. 730 E | BOUL INDUS | TRIEL BL | IANVILLE | QUEBE | C J7C 3V4 | | |
|-------------------------|-----------|--|--|---|---|------------------------------------|--|---|-------------------------|--|--|--|--|--|
| Manufac | ctured ar | nd certifie | ea by: | | CULC ADS | OKPITO | (Name a | and address of I | Manufacture ARY ALBE | RTA T2H 1 | 173 CAI | VADA | | |
| Manufac | tured for | r: | | FM AIR E | QUIPMENT | 3647 B | (Name a LACKBURN F | ress of Purchas | er) | 101 | 23 0 | | | |
| Location | | | | | | UNK | MOWN ENC | ne and address | TIA, CAIN | ADA | | | | |
| Location | | | ontal | | He | ater hou | | 1.42 | cu. ft. | | | H366 | | |
| Type: _ | (Hor | | ical, or spher | | (Tanl | k, separato | | (Capa | ncity) N/A | | (Manufa | cturer's serial number | | |
| | K8524 |) | | | V209804 R. Drawing No. | | | (National | Board Numl | per) | | (Year built) | | |
| ASME Cod | le Sectio | n VIII Di | v1 | ED20 | 010 AD20 | 11 | | (Co | N/A de Case nur | mber) | | | | |
| Shell (a) I | umher (| of course | e (s): | [Edition a | nd Addenda 1 | (date) | Overall Leng | | | | . 10 in. | | | |
| | | | Material | | Thickness | (0) | Long. Joint (| AND DESCRIPTION OF THE PERSON | | Joint (Cat. A | | THE RESIDENCE AND ADDRESS OF THE PARTY OF TH | nent Time | |
| Course(s Diameter | Length | - | /Grade or Ty | CHARLES OF STREET | m. Cori | THE RESERVE OF THE PERSON NAMED IN | e Full, Spot, | None Eff. | Type 1 | Full, Spot, None | | Eff Temp. 70 - | | |
| 6.625" 6 | ft. 10 in | . 5/ | 4106 GR.E | 0.28 | 30" 0.06 | 3" SML | S Non | e 85 | T SECOND | HOILE | | | | |
| | | | | | MARIE PROPERTY. | | | | | | | | | |
| | 784" ASS | | SA-234 | WPR | CONTRACTOR OF THE PARTY OF THE | | (h) | | | NONE | | | | |
| eads: (a) | (Material | spec. num | | | T. – time & t | temp) | (b) | (Material sp | ec. number | | | . – time & temp) | | |
| Location (Top, | Thic | kness | The second secon | lius | Elliptical | Conical | Hemispheric | | | Pressure | | Category A | Eff | |
| Bottom, Ends) | Min. | Corr. | Crown | Knuckle | Ratio | Apex Ang | gle Radius | Diameter | Convex | Concave | | Full, Spot, None | 85 | |
| LEFT END | 0.245" | 0.063" | | | 2:1 | | | - | | Concave | SMLS | None | 10 m - 10 m m | |
| | | Mary Constitution | | | | | | - | | | | | | |
| able, bolts u | used (de | escribe c | otner fast | enings) | | | | laterial spec. n | umber ara | de size nuo | nher) | | | |
| e of jacket | | | | | |] | acket closu | | | | | | | |
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