

ACI Central Inc.

20 McAulay Court, Charlottetown, PE C1A 9M7
 P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register – Pressure Vessel Design

To: Stephen Higdon

Date: 03/17/2015

From: ACI Central Inc.

Manufacturer: Constructions Frigorifiques de L'Atlantique
 ZAC des Coteaux de Grand Lieu rue de la
 Bouaye, 44830
 France

Manufacturer #: PV-807

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under;

CRN: 8343.0

Unit Description	Drawing Number	Service	Design Code
Flood Bottle	2000B509-AS rev 0	Non Lethal	ASME Sect VIII Div. 1
Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
290 PSI @ 104 F	-20 F @ 290 PSI		

Test Pressure: Hydro: 377 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 333 6	0.126	0.280	-	85			OD": 12.75"	
Heads	SA 516 60	0.197	0.275	-	85			OAL": 55"	
Nozzles	SA 333 6							W":	
								H":	
								HS FT²:	

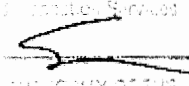
Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- 2- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 22356

Description: Flood Bottle V323R
 ASME UM Stamp.

This space is for Jurisdictional stamp and signature

Newfoundland
 Director
 Service NL
 Registered: 8343.0
 Date: 20 MAR 2015
 Registered by: 
 I, THE REGISTRAR, HEREBY CERTIFY THAT THE ABOVE DESIGN IS IN ACCORDANCE WITH THE PRESSURE VESSEL AND TRANSPORT GAS REGULATIONS

ACIC DESIGN REVIEW

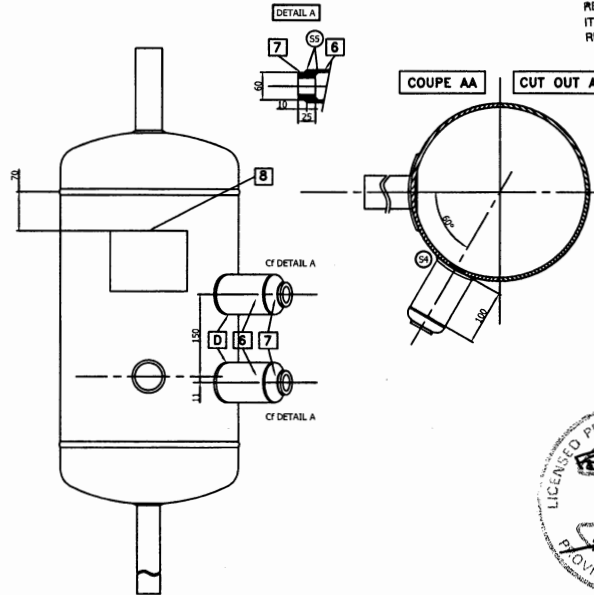
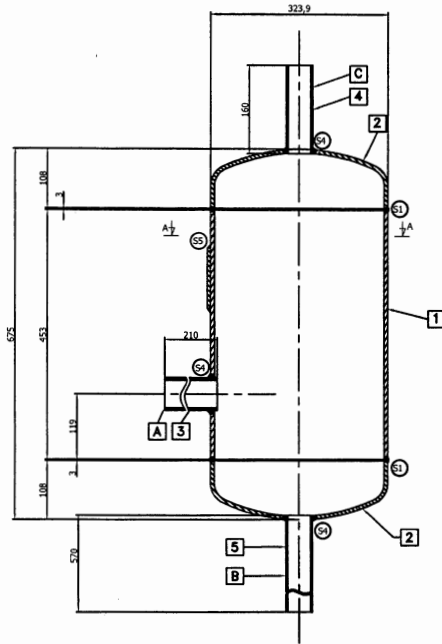
AUTHORISED BY THE DIRECTORS OF ACI CENTRAL

CRN: 8343.0

DATE: 3/24/2015

FILE: PV-807

REGISTRATION IS A LEGAL REQUIREMENT UNDER THE ACT.
IT DOES NOT RELIEVE THE MANUFACTURER OF ANY
RESPONSIBILITY FOR THE PRODUCT DETAILED HEREIN.



CERTIFIED BY: CONSTRUCTIONS FRIGORIFIQUES DE L'ATLANTIQUE S.A.R.L.
44830 - BOUAYE - FRANCE

UM W
M.A.W.P 20bar (290PSI) AT 40°C (104°F)
M.D.M.T -29°C (-20.2°F) AT 20bar (290PSI)

MANUFACTURER'S SERIAL NR: _____
YEAR BUILT: _____

- CONNECTIONS -

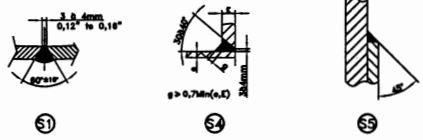
ITEM	Qty	SERVICE	Outside DIA	CLASS	THK	TYPE	FACE
A	1	INLET	60.3 (2.37")		3.9 (0.15")	BW	
B	1	OUTLET	48.3 (1.90")		3.7 (0.14")	BW	
C	1	OUTLET	48.3 (1.90")		3.7 (0.14")	BW	
D	2	INLET-OUTLET	73 (2.87")		5.2 (0.20")	BW	

Issue	Description of revision	Date	Visa	Date	Visa
0	ORIGINAL ISSUE	29.10.2014			

APPROVED BY: _____
DATE: _____

CONSTRUCTIONS FRIGORIFIQUES DE L'ATLANTIQUE S.A.R.L.
Z.A. des Colonneux de Grand Lieu Rue de la Bernie Selva 44830 BOUAYE
Tel. 02 51 11 32 20 Fax 02 40 32 52 65

Détail soudures
Welding details
Schweißungsdetails



Approches	ASME VIII Div 1 Edition 2013	Approval	Notes
CHARACTERISTICS	DATA	APPROVAL	NOTES
Massé totale & vide	27kg	Total dry weight	Volumenmasse
Capacité d'épaveuse	0.2m³	Testing capacity	Prüfkapazität
Fluide	R22, R404A, R717	Fluids	Substrat
Pression max de service	20b (290 PSI)	Maximum allowable working pressure	Max. Betriebsdruck
Pression d'épaveuse (hydrostatique)	20b (277 PSI)	Test pressure (hydro)	Druckprüfung
CLASSE	DESIGN	DESIGN	REVISIONS
Température max (admis)	40°C (104°F) AT 20b	Maximum metal design temperature AT 20bP	
Température min (admis)	-29°C (-20.2°F) AT 20b	Minimum metal design temperature AT 20bP	
Coefficient de soudure	0	Welding joint efficiency	
Surfacteur soudure	0	Corrosion allowance	
TESTING/CONTROLS	MANUFACTURING CONTROLS	INSPECTION/CONTROLS	
Qualification soudeur	ASME IX	Welder qualification	Schweißausbildung
Contrôle en cours de fabrication	yes no na	Inspection during manufacturing	Prüfung während der Herstellung
Traitement thermique	yes no na	Post weld heat treatment	
Revêtement	yes no na	Liquid penetrant testing	
Autographe	yes no na	Ultrasonic testing	
Rayons	yes no na	Radiography	Weldprüfung
Contrôle longitudinal	yes no na	Longitudinal stress	
Contrôle circumferentiel	yes no na	Circumferential stress	
Coude inspecté	yes no na	Inspection ends for radiography	
Coude soudé	yes no na	Weld check complete	
Contrôle en cours fabrication	yes no na	Inspection during manufacturing	
Contrôle dimensionnel	yes no na	Dimensional inspection	
MATÉRIEL	CLASSE	REVISIONS	
SA, SA			
PROTECTION	PROTECTION	NOTES	
Cathodique	Outside	Access	
Méthodes + isolation thermique	Submerge + Thermal insulation	Substrate	

Input Text accepted by US&C/M: M&W/P Not Applicable

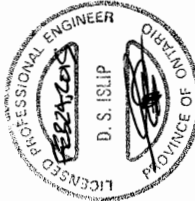
Item	Qty	Description	Spec	Class	THK	Type	Face
6	1	Support plaque constructeur	SA 304	ASME B 1.1			
7	2	Manchon 1/2" NPT	SA 304	ASME B 1.1			
8	2	Tube 1/2" NPT	SA 304	ASME B 1.1			
5	1	Tube 1/2" NPT	SA 304	ASME B 1.1			
4	1	Tube 1/2" NPT	SA 304	ASME B 1.1			
3	1	Tube 1/2" NPT	SA 304	ASME B 1.1			
2	2	Tube 1/2" NPT	SA 304	ASME B 1.1			
1	1	Tube 1/2" NPT	SA 304	ASME B 1.1			

GEA Refrigeration France
TC Ice-Machines

ASME - APPROBATION
N° plan: R000R500-AS

Diffusion: TC Ice-Machines

Issue	Date	Rev	Modifications
0			



ASME VIII Div 1 Edition 2013		Approved	Prüfung
CARACTERISTIQUES Masse totale à vide Capacité d'épreuve Fluide Pression max de service Pression d'épreuve (hydraulique)		DATA Total dry weight Tearing capacity Fluide Max. allowable working pressure Test pressure (Hydro)	Prüfung Versuchsmasse Prüfkapazität Kaltmedium Max. Betriebsdruck Druckprüfung
CALCUL Temperature max (calouf) Temperature min (calouf) Coefficient de soudure Surf-pulseur corrosion		DESIGN Maximum metal design temperature AT MAWP Minimum metal design temperature AT MAWP Welding joint efficiency Corrosion allowance	BEZÜGUNG Maximum metal design temperature AT MAWP Minimum metal design temperature AT MAWP Welding joint efficiency Corrosion allowance
FABRICATION/CONTROLES Qualification mode opératoire de soudure Qualification soudeur Contrôle en cours de fabrication Traitements thermiques Resonance Ultrasons Radiographie Nécessité Cordons longitudinaux Cordons circulaires Code d'interprétation Coupons Minors Contrôle en cours fabrication Contrôle dimensionnel		MANUFACTURING/CONTROLS Welding qualification Welder qualification Inspection during manufacturing Post weld heat treatment Liquid penetrant testing Ultrasonic testing Radiography Weld Intersections Longitudinal seams Circuler seams Interpretation code for radiographs Weld check samples Inspection during manufacturing Dimensional inspection	HERSTELLUNG/KONTROLLE Schweißverfahrenzulassung Schweißereizulassung Prüfung während der Herstellung Röntgenprüfung
NETTOYAGE		CLEANING	REINIGUNG
PROTECTION Extrême Méthodologie + Isolation thermique		PROTECTION Ouvrable Sous-page + thermal insulation	SCHUTZ Aussen Schockschutzes Metallspitzen + Wärmeisolierung
Impact Test exempted by UG-20(1) MAWP: Not Applicable			

8	1	Support plate constructeur	3 ou 6	SA-516 Gr 60	ASME II A	Non pressure part
7	2	Manoche 3/4" NPT	SA 350 L72	ASME II A		
6	2	Tube 473 lg100 Rbr Pipe 62,57" length 3,83"	SA 333 Gr 6	ASME II A		
5	1	Tube 248,3 lg1100 Rbr Pipe 61,90" length 43,30"	SA 333 Gr 6	ASME II A		
4	1	Tube 248,3 lg160 Rbr Pipe 61,90" length 6,29"	SA 333 Gr 6	ASME II A		
3	1	Tube 490,3 lg210 Rbr Pipe 62,57" length 8,26"	SA 333 Gr 6	ASME II A		
2	2	Fond 432,5 Cap 612,75" NBRperboden	SA-516 Gr 60	ASME II A		
1	1	Vivale 6323,9 lg483 Shell 612,75" length 16,66" Mantel	SA 333 Gr 6	ASME II A		
Rep. Item	Micro City	Designation, Bezeichnung	Epaisseur, Dicke	Matériau, Material	Norme, Specification Norm	Observation, Bemerkung

GEA
GEA Réfrigération France
TC Ice-Machines
 240 de la route - 9 rue des écluses
 44400 LES SABLES
 TEL: 02.51.13.13.51 / FAX: 02.51.13.13.51

Destinateur/Drawer: S.G. Approbation/Approval: LB
 BOUTEILLE FLOOD V323R
 FLOOD BOTTLE V323R
 FLÜSSIGKEITSABSCHIEDER V323R
 Diffusion : TC Ice-Machines

Date: 29.10.14
 Ech/Scale: 1/4
 ASME - APPROBATION
 N° plan: 2000B509-AS
 Class. doc.: 1/1

