345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

May 10, 2018

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type.: BPV-National ACI Central
Service Request No.: 2273152
Your Reference No.: R-0893
Registered to.: API HEAT TRANSFER

Dear SCOTT ISLIP,

Please find enclosed the original response from PEI,NS,NB,NFLD,YK,NWT,NU, registered under the CRN No.: R4731.59870YTN.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email :tfrancis@tssa.org

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: Steve Townsend

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

Notes:

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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#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

ACCEPTED
PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT
C.R.N. R4731.59
DATE: April 13 2018
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH

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: Donnie Ehler

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

Notes:
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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#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

BOILER & PRESSURE VESSEL
NOVA SCOTIA
Date April 13/18
C.R.N. R4731.58
Dwg. 1510-08-036-022 Rev. 1
Signed Yvonne Perry
1 of 1
Part
ACT & REGULATIONS

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: Eben Creaser

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

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ACIC Log#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

New Brunswick
DEPT OF PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN R4731.57

EXAMINER: for

CHIEF BOILER INSPECTOR

DATE: 4/13/2018

☐ BLRs ☑ PVs

☐ FITTINGS ☐ COMPONENTS

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: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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 Jurisd'ction under;

CRN: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	.	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

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ACIC Log#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

Newfoundland
Labrador
Service NL
Registered R4731.50
Date 16 APR 2018
Engineering and Inspection Services
Registered by
UNDER THE AUTHORITY OF THE
PUBLIC SAFETY ACT AND
THE BOILER, PRESSURE VESSEL AND
COMPRESSED GAS REGULATIONS

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: Paul Christensen

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

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ACIC Log#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

CR R4731.5Y
DATE 4/13/2018

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: Matthias Mailman

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

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ACIC Log#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

$82.00

Northwest Territories
REGISTERED
UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.
C.R.N. R4731.5
SIGNED
DATE April 16/2018

Secl. 2.0-BPV Rev. 1 06/2003

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: Muhammad Wani

Date: 04/12/2018

From: ACI Central Inc.

Manufacturer: API Heat Transfer
2777 Walden Ave
Buffalo, NY 14225

Manufacturer #: PV-9378

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: R4731.5

Unit Description	Drawing Number	Service	Design Code
Aftercoler	1510-08-036-022 rev 1	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
300 PSI @ 300 F	+ 20 F @ 300 PSI	150 PSI @ 300 F	+ 20 F @ 150 PSI

Test Pressure: Hydro: 390 PSI Pneu:	Test Pressure: Hydro: 195 PSI Pneu:

Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 53 B	0.242	0.277	0.063	100			OD": 8.63"	
T.Sheet	SA 516 70	0.638	0.938	0.125				OAL": 40.5"	
Tubes	SB 75 C12200	0.016	0.018	-	100			W":	
Cover	SA 516 70N	2.188	2.188	0.063	100			H":	
								HS FT²:	

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ACIC Log#: 26803

Description: Aftercooler, 8.63" OD
ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

Nunavut

NUNAVUT
Boilers and
Pressure Vessels Act

REGISTERED

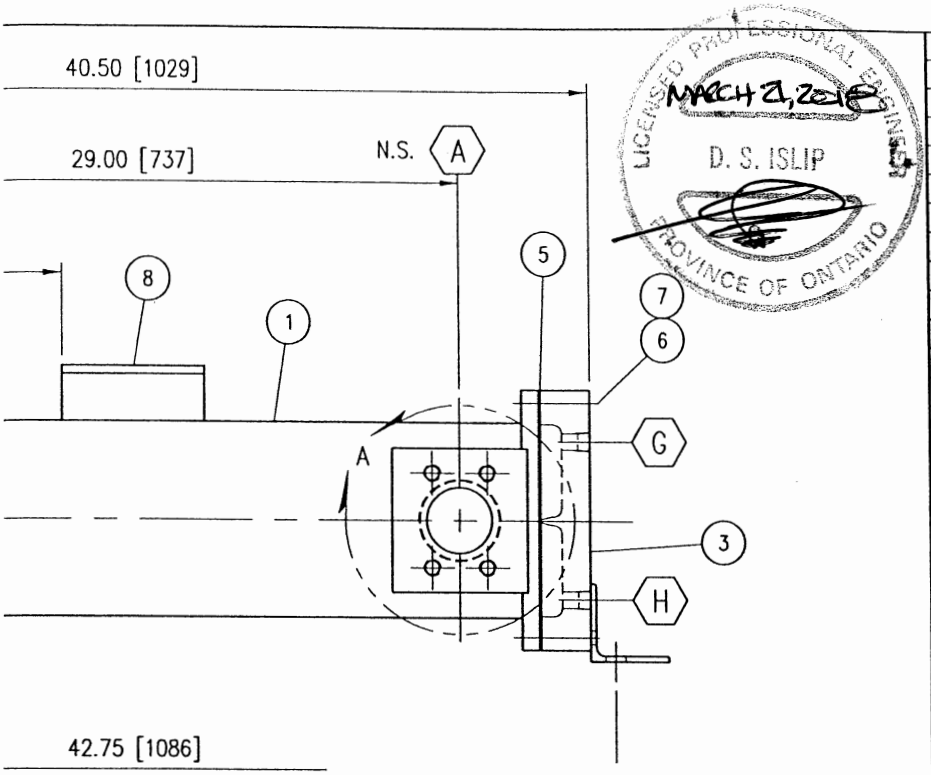
CRN R4731.5N

Date April 13 2018

Signed

Chief Inspector

Territorial Registration Fee



NOZZLE SCHEDULE			
TAG	SIZE	TYPE	SERVICE
A	3	SAE FLANGE	SHELL SIDE INLET
B	3"	SAE FLANGE	SHELL SIDE OUTLET
C	2"	NPT	TUBE SIDE INLET
D	2"	NPT	TUBE SIDE OUTLET
E			
F	3/8"	6000# HALF CPLG	SHELL SIDE DRAIN
G	1/2"	NPT	TUBE SIDE VENT
H	1/2"	NPT	TUBE SIDE DRAIN
J	3/8"	NPT	TUBE SIDE DRAIN
K			
L			
M			
N			

DESIGN DATA		
	SHELL SIDE	TUBE SIDE
DESIGN PRESSURE	300 PSIG/ 20.7 Bar	150 PSIG / 10.3 Bar
TEST PRESSURE	390 PSIG / 26.9Bar	195 PSIG / 13.4 Bar
DESIGN TEMP	+20/300F -6.7/149C	+20/300F -6.7/149C
CORR. ALLOWANCE	.063 [1.5] on C'Stl.	.063 [1.5] on C'Stl.
RADIOGRAPHY	NONE	NONE
PWHT	NONE	NONE
TUBE/TUBE SHEET JOINT = ROLLED ONLY		

MATERIALS OF CONSTRUCTION		
PART	SHELL SIDE	TUBE SIDE

NOTES CON'T:

9. OPERATING CONDITIONS:
   SHELL SIDE FLIUD: AIR
   SHELL SIDE FLOW RATE
   SHELL SIDE INLET TEMP
   SHELL SIDE OUTLET TEM

   TUBE SIDE FLUID: WATE
   TUBE SIDE FLOW RATE:
   TUBE SIDE INLET TEMPE
   TUBE SIDE OUTLET TEM
10. THIS HEAT EXCHANGER
    CONDITION REPRESENTE
    IT SHALL BE REEVALUA
    BEING OPERATED AT TH

EL	SA-105	
EL	SA-105	
		A
	SA-194 2H	
	SA-193 B7	
ER		A
ER		A
		B
		B
EL		B
	Specification	Size

Part No	Dwg No	Size	tion
3060-03-3101-004			
501-07-2726-000			
501-07-2726-000			
501-07-2726-000			
501-07-2726-000			
3015-08-319-008	9-008		
3010-08-201-000	-201-000		
501-06-2626-01900			
501-06-2626-03600			
3054-07-119-000	3054-07-119-000		
4008-93-6101-00			
505-03-8002-00700			
505-08-3001-03425			

API HEAT TRANSFER

JM

DAG

CORE ASSEMBLY
(2) 3" SAE CONN'S

SIZE	DWG NO	REV
B	2510-08-036-026	1