

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: Nancy Ghasson

Date: 01/24/2025

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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|------------------|-----------------------|------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|-----------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.525" | |
| T/Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT": 114 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#: 36669

Description: Heat Exchanger, 8.525" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

ACCEPTED
 PROVINCE OF PRINCE EDWARD ISLAND
 C.R.N.: Z8119.2 Rev1
 DATE: January 24 2025
 SIGNED: [Signature]
 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: 01/24/2025

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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|------------------|-----------------------|------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev.2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|-----------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.625" | |
| T.Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 76 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.8822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT": 114 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 Lic#: 36669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

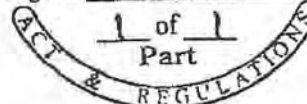
This space is for Jurisdictional stamp and signature



C.R.N. Z8119.28 Rev.1

Dwg. 1510-08-060-048 Rev.2

Signed [Signature]



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: 01/24/2025

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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|--------------------|-----------------------|--------------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|------------------------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.625" | |
| T.Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT ² : 114 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#: 36669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



New Brunswick
 DEPT OF JUSTICE PUBLIC SAFETY
 BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN Z8119.27 Rev1

[Signature]
 CHIEF BOILER INSPECTOR

DATE 1/24/25

BLRs PVs
 FITTINGS NUCLEAR COMPONENTS

Sect. 2.0-8PV 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: Engineering & Inspection Service
From: ACI Central Inc.
Manufacturer: API Heat Transfer
 2777 Walden Ave
 Buffalo, NY 14225

Date: 01/24/2025
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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|--------------------|-----------------------|--------------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA ^a | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|-----------------|------|----|------|------------------------------|-------|
| Sheet | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD ^b : 8.625" | |
| T.Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | QAL ^c : 75" | |
| Tube | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W ^d : | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H ^e : | |
| Flanges | SA 105 | | | | | | | HS FT ^f : 114 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#: 35669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



Registered **Z8119.20 Rev 1**
 Date **Jan 27, 2025**
 Engineering and Inspection Services
 Registered by *[Signature]*

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: Blair Rawlings

Date: 01/24/2025

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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|------------------|-----------------------|------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|-----------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.625" | |
| T.Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT": 114 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#: 36669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

GOVERNMENT OF YUKON
 BY: *[Signature]*
 CRN Z8119.2Y REV1
 DATE 01/24/2025
 BOILERS 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: Matthias Mailman

Date: 01/24/2025

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: Z8119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|--------------------|-----------------------|--------------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|--|--|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|--|--|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|-----------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.625" | |
| T.Sheet | SA 516 70 | 0.7511 | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT²: 114 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#: 36669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



Northwest Territories

REGISTERED
 UNDER THE AUTHORITY OF
 THE BOILER AND PRESSURE
 VESSEL ACT
 C.R.N. Z8119.2 Rev1
 SIGNED Matthias Mailman
 DATE 1/24/25

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: 01/24/2025

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: ZB119.2 Rev1

| Unit Description | Drawing Number | Service | Design Code |
|------------------|-----------------------|------------|-----------------------|
| Heat Exchanger | 1510-08-060-048 rev 2 | 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 | 235 PSI @ 300 F | 20 F @ 235 PSI |

| | |
|-------------------------------------|-------------------------------------|
| Test Pressure: Hydro: 390 PSI Pneu: | Test Pressure: Hydro: 306 PSI Pneu: |
|-------------------------------------|-------------------------------------|

| Part | Material | Des. t" | Act. t" | CA" | % EF | RT | PWHT | Dimensions | Notes |
|---------|--------------|---------|---------|--------|------|----|------|-----------------|-------|
| Shell | SA 53 B | 0.2424 | 0.277 | 0.0625 | 85 | | | OD": 8.625" | |
| T.Sheet | SA 516 70 | 0.751t | 1.250 | 0.125 | | | | OAL": 75" | |
| Tubes | SB 75 C12200 | 0.016 | 0.018 | - | 100 | | | W": | |
| Cover | SA 516 70N | 0.9822 | 1.250 | 0.0625 | 100 | | | H": | |
| Flanges | SA 105 | | | | | | | HS FT": 114 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#: 36669

Description: Heat Exchanger, 8.625" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



NUNAVUT

Boilers and
Pressure Vessels Act

REGISTERED

CRN ZB119.2 N Rev1

Date 01/24/2025

Signed [Signature]

Chief Inspector

Territorial Registration Fee