

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 Chiasson

Date: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

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: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1
Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	1" sch 10s
Cover	SA 479 304	0.159	0.625	-	100			W":	Outlet Header
Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
								HS FT":	

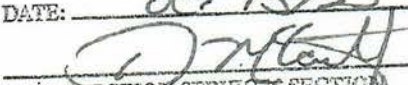
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- 2- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members 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#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-02-LTCO
 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. 26719.29
 DATE: 09/13/23

 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: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

Subject: ACI Central Design Review

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CRN: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1

Shell Side

Tube Side

MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	1" sch 10s
Cover	SA 479 304	0.159	0.625	-	100			W":	Outlet Header
Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
								HS FT":	

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ACIC Log#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-02-LTCO
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



C.R.N. Z6719.28

Dwg. B760029-2 Rev -

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: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

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: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1

Shell Side

Tube Side

MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI	Pneu:	Test Pressure: Hydro:	Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	1" sch 10s
Cover	SA 479 304	0.159	0.625	-	100			W":	Outlet Header
Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
								HS FT²:	

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ACIC Log#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-O2-LTCO
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



DEPT OF JUSTICE PUBLIC SAFETY
 BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN Z6719.27

Eben Creaser
 CHIEF BOILER INSPECTOR

DATE 10/13/23

BLRs PVs

FITTINGS NUCLEAR COMPONENTS Rev. 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

Date: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

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: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	1" sch 10s
Cover	SA 479 304	0.159	0.625	-	100			W":	Outlet Header
Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
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ACIC Log#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-O2-LTCC
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature



Registered Z6719.20
 Date Oct 13, 2023
 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: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

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: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1

Shell Side

Tube Side

MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	
Cover	SA 479 304	0.159	0.625	-	100			W":	Outlet Header
Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
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ACIC Log#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-O2-LTCO
 ASME Stamp, National Board Registered

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 P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register – Pressure Vessel Design

To: Matthias Mallman

Date: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

Subject: ACI Central Design Review

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CRN: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1
Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI	Pneu:	Test Pressure: Hydro:	Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
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ACIC Log#: 34688

Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-02-LTCD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

326.00



Northwest Territories
 REGISTERED
 UNDER THE AUTHORITY OF
 THE BOILER AND PRESSURE
 VESSEL ACT.
 C.R.N. Z6719.2
 SIGNED [Signature]
 DATE OCT 14 2023

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: 10/13/2023

From: ACI Central Inc.

Manufacturer: Cryogenic Experts Inc.
 531 Sandy Circle
 Oxnard, CA 93036

Manufacturer #: PV-605

Subject: ACI Central Design Review

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CRN: Z6719.2

Unit Description	Drawing Number	Service	Design Code
Tube Bundle Assembly	B760029-2 Rev -	Non Lethal	ASME Sect VIII Div. 1

Shell Side

Tube Side

MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
495 PSI @ 400 F	- 320 F @ 495 PSI		

Test Pressure: Hydro: 704 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Headers	SA 312 TP304/L	0.095	0.109	-	100			OD": 57"	Inlet Header
Tubes	SA 249 TP304/L	0.049	0.049	-	100			OAL":	1" sch 10s
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Flanges	SA 182 F304/L							H":	1 1/2" sch 10s
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Description: Tube Bundle Assembly, SHWB-500-1.5x2-.72-02-LTCC
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REGISTERED

Boilers and Pressure Vessels Act

CRN Z6719-2N

Date 2023-10-13

Signed [Signature]
 Chief Inspector

Territorial Registration Fee