

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

Attn: Scott Islip

Please find attached a copy of your Canadian Registrations forms. Please retain these registrations as evidence of your product being registered within the Provincial jurisdiction(s).

Regards,
Tammy Thomas
ACI Central Inc.
902.566.1975 ph
aci@eastlink.ca

We ask that the attached CRN Registration documents be forwarded on to the person noted above within your company.

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 Mallman
From: ACI Central Inc.

Date: 03/28/2017

Manufacturer: Phoenix Industrial Insulation Corp.
 18340 S Hwy 75
 Mounds, OK 74047

Manufacturer #: PV-9455

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: Issued by NWT

Unit Description	Drawing Number	Service	Design Code
Heat Recovery Silencer	ECXWV-5410V-2.5 FD rev 1	Non Lethal	ASME Sect I

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
100 PSI @ 500 F			

Test Pressure: Hydro: 150 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 516 70	0.3125	0.375	-	100			OD": 54"	
T.Sheet	SA 516 70	0.4375	0.625	-				OAL": 207"	
Tubes	SA 178 A	0.105	0.105	-	100			W":	
								H":	
								HS FT²: 1259	

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#: 25274

Description: Heat Recovery Silencer, 54" OD
 ASME Stamp, National Board Registered

This space is for Jurisdictional stamp and signature

\$62.00

Northwest Territories
REGISTERED
 UNDER THE AUTHORITY OF
 THE BOILER AND PRESSURE
 VESSEL ACT.
 C.R.N. 811-T
 SIGNED [Signature]
 DATE April 5, 2017

Sect. 2.0-BPV Rev. 1 06/2003

ACIC DESIGN REVIEW

AUTHORISED BY THE DIRECTOR OF ACI CENTRAL

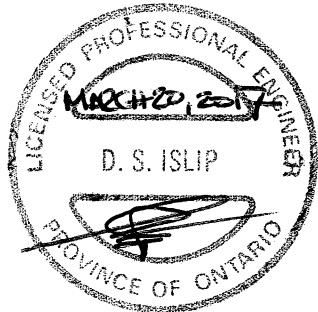
CRN: 811.T
 DATE: 4/5/2017
 FILE: PV-9455

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

SHEET NO.	DESCRIPTION
1	INDEX
2	BILL OF MATERIALS
3	SHELL - NOZZLE ASSEMBLY DETAIL
4	TOP PLATE ASSEMBLY DETAIL
5	PASS PLATE ASSEMBLY DETAIL
6	TUBE SHEET ASSEMBLY DETAIL
7	INTERNAL ASSEMBLY DETAIL
8	EXTERNAL ASSEMBLY DETAIL
9	OUTER SHELL - STAGE 1 PART DETAIL
10	OUTER SHELL - STAGE 2 PART DETAIL
11	BASE PLATE PART DETAIL
12	TOP PLATE PART DETAIL
13	TOP PLATE FLANGE RING PART DETAIL
14	TOP PLATE INSULATION CAP PART DETAIL
15	PASS PLATE PART DETAIL
16	PL STIFFENER PART DETAIL
17	TUBE SHEET PART DETAIL
18	HORIZONTAL BAFFLE PART DETAIL
19	HORIZONTAL BAFFLE WITH ANGLE CUTS PART DETAIL
20	TOP PLATE LIFTING LUG PART DETAIL
21	LIFTING COVER EYE PART DETAIL
22	HOUSING LOWER LIFTING LUG PART DETAIL
23	HOUSING UPPER LIFTING LUG PART DETAIL
24	HOUSING NAMEPLATE BRACKET PART DETAIL
25	PASS PLATE ANGLE - LHS PART DETAIL
26	PASS PLATE ANGLE - RHS PART DETAIL
27	DIVERTER CASE CAP PART DETAIL
28	SHIPPING SADDLE PART DETAIL

△ NOTES:

1. ASME CODE CONSTRUCTED AND STAMPED, SECTION I
2. DESIGN PRESSURE: 100 psig @ 500°F
3. MAWP: 100 psig
4. TESTING PRESSURE: 150 psig
5. MAXIMUM WATER TEMPERATURE 250F
6. X-RAY PER PW-11
7. CLEAN EXTERIOR OF ALL WELD SPLATTER, BLAST AND PAINT PER MIRATECH PAINT SPECIFICATION COATING SYSTEM 1
8. INSTALL PNEUMATIC DIVERTER VALVE PER THE EDVP INSTALLATION PROCEDURE
9. TEST PNEUMATIC DIVERTER VALVE PER THE EDVP TEST PROCEDURE
10. TEST FIT THE LOW WATER FUEL CUTOFF ASSEMBLY PRIOR TO SHIPMENT. ASSEMBLY TO SHIPLOOSE
11. INSULATE EXTERNAL SHELL OF UNIT WITH 2" MINERAL WOOL AND ALUMINUM JACKETING



PROPRIETARY AND CONFIDENTIAL

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PROJECT NAME	NWT POWER
SALES ORDER NO.	22022
FABRICATION P.O.	14776

DIMENSIONAL TOLERANCES (UNLESS OTHERWISE SPECIFIED) ANGLES MACH: ±1° INCHES: ±0.0625 BEND: ±1° MILLIMETERS: ±2			
DIMENSIONS ARE APPROXIMATE IN INCHES UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
DRAWN	DATE		
EQJ	03/01/2017	Overview	
REVIEWED BY	DATE		
		DRAWING: ECXWV-5410V-2.5 FD	
MFG APPR	DATE	SIZE: 8	SCALE: 1:30
		WEIGHT: 3628 lb	SHEET 1 OF 28