

66128828

(A) 560917

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Cimco Division of Toromont Industries Ltd. 65 Villiers St. Toronto, Ontario M5A 3S1
2. Manufactured for TOROMONT PROCESS SYSTEMS 10121 BARLOW TRAIL N CALGARY, ALBERTA T3J 3C6 CANADA
3. Location of installation SAME AS ABOVE
4. Type: HORIZONTAL CHILLER & SURGE DRUM 8004383
5. ASME Code, Section VIII, Div. 1 2004 AD5 N/A N/A

Items 6 - 11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell: (a) No. of course(s): CHILLER 1 (b) Overall length (ft. & in.): CHILLER 19'-5 3/4"
SRUGE DRUM 1 SURGE DRUM 15'-5/8"

Table with columns: Course(s), Material, Thickness, Long. Joint (Cat. A), Circum. Joint (Cat. A, B, & C), Heat Treatment. Rows for 14" O.D. and 18" O.D. vessels.

7. Heads: (a) SA-516-70 (b) N/A

Table for Heads: Location (Top, Bottom, Ends), Thickness, Radius, Elliptical, Conical, Hemispherical, Flat, Side to Pressure, Category A.

If removable, bolts used (describe other fastenings) N/A

8. Type of Jacket N/A Jacket Closure N/A

9. MAWP 270 N/A psi at max. temp. 150 N/A F Min. design metal temp. -20 F at 270 psi

10. Impact test Impact test exempt per Para. UCS-68(b) and UG-20(f)

11. Hydro, pneu., or comb. test pressure 351 psi Proof test N/A

12. Tubesheet: SA-516-70 13 1/4" 3 1/2" 0.0625" WELDED

13. Tubes: SA-179 3/4" 0.063" 122 STRAIGHT

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): 1 (b) Overall length (ft. & in.): 1' - 4 1/4"

Table with columns: Course(s), Material, Thickness, Long. Joint (Cat. A), Circum. Joint (Cat. A, B, & C), Heat Treatment. Row for 14" O.D. vessel.

15. Heads: (a) SA-516-70 (b) SA-234-WPB

Table for Heads: Location (Top, Bottom, Ends), Thickness, Radius, Elliptical, Conical, Hemispherical, Flat, Side to Pressure, Category A.

If removable, bolts used (describe other fastenings) 40 PCS 1" - 8 UNC X 7 3/4" LG THRD. STUD SA-193-B7 C/W 80 PCS 1" - 8 UNC HEX NUT SA-194-2H

FORM U-1 (Back)

16. MAWP 1415 270 psi at max. temp. 150 150 °F Min. design metal temp. -20 °F at S270/T1415 psi
(Pressure) (Stress) (Stress)

17. Impact test Impact test exempt per Para. UCS-66(a) and UG-20(f)
(Indicate type of test and the temperature(s) impact tested)

18. Hydro, Pneu., or comb. test pressure 1840 Proof test N/A

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Resp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
INSPECTION	2	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	HEAD
GLYCOL INJECTION	1	2"	RFLWN	N/A	SA-350 LF2	N/A	0.0625"	N/A	WELDED	WELDED	HEAD
BOOT DRAIN	1	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	BOOT
VENT/P.I.	1	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL
HOT GAS SENSING POINT	1	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL
OIL COOLER RETURN	1	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL
LEVEL GAUGE	2	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL/BOOT
LEVEL COLUMN	2	1 1/2"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL/BOOT
BOOT	1	6"	N/A	SA-105-B	N/A	SCH 40	0.0625"	N/A	WELDED	N/A	SHELL
LSHH	2	3/4"	N/A	SA-105	N/A	3000LB	0.0625"	N/A	WELDED	N/A	SHELL
PROPANE OUTLET	2	4"	RFWN	SA-105-B	SA-350 LF2	SCH 80	0.0625"	N/A	WELDED	WELDED	SHELL
PROPANE INLET	2	4"	RFWN	SA-105-B	SA-350 LF2	SCH 40	0.0625"	N/A	WELDED	WELDED	SHELL
WET GAS OUTLET	1	6"	RFWN	N/A	SA-350 LF2	SCH 80	0.0625"	N/A	WELDED	WELDED	CHANNEL
WET GAS INLET	1	6"	RFWN	SA-105-B	SA-350 LF2	SCH 80	0.0625"	SA-516-70	WELDED	WELDED	CHANNEL
RISERS	3	8"	N/A	SA-105-B	N/A	SCH 40	0.0625"	N/A	WELDED	N/A	SHELL

20. Supports: Skirt NO Lugs NO Legs NO Others 2 SADDLES Attached SHELL / WELDED
(Yes or No) (Yes) (Yes) (Describe) (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
 (List the name of part, item number, mfg's. name and identifying number)

22. Remarks: N/A
VESSEL INTENDED FOR NON-CORROSIVE SERVICE
AS BUILT DWG# 8004383-20D-GA RD
*ONE END HEAD IS A 14" X 6" SCH.80 BW ECCENTRIC REDUCER SA-234-WPB.

CERTIFICATE OF SHOP COMPLIANCE	
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.	
U Certificate of Authorization No. <u>10637</u>	Expires <u>September 16 / 2009</u>
Date <u>Oct. 18, 2006</u> Name <u>Cimco Division of Toromont Industries Ltd.</u>	Signed <u>Nany Wang</u>
CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Ontario</u> and employed by <u>TSA</u> of <u>Ontario</u> have inspected the pressure vessel described in this Manufacturer's Data Report on <u>Oct 19, 2006</u> and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date <u>OCT 19, 2006</u> Signed <u>[Signature]</u>	Commissions <u>NB 13106 A, ONT 915</u>
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE	
We certify that the statements made in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code for Pressure Vessels, Section VIII, Division 1.	
U Certificate of Authorization No. _____	Expires _____
Date _____ Name _____	Signed _____
CERTIFICATE OF FIELD ASSEMBLY INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date _____ Signed _____	Commissions _____

Certificate of Inspection Permit

TOROMONT PROCESS SYSTEMS
DIV TOROMONT INDUSTRIES LTD
10121 BARLOW TRAIL NE
CALGARY, AB
T3J 3C6

PREFERRED RE-INSP. INTERVAL: 4.00 Yr
YEAR BUILT: 2006
CRN: T4194.2
SERIAL #: 8004383
VOLUME: 1M3
HEATING SURFACE: 43 M2
SURFACE AREA:

COMPANY CODE: SKID# 12191
DESCRIPTION: HORIZONTAL CHILLER & SURGE DRUM
LOCATION: STOCK, CALGARY
MANUFACTURER: CIMCO DIV OF TOROMONT INDUSTRIES LTD

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	Safety Valves		
					SETTING	CAPACITY	LOCATION
SHELL	1862 KPA	66 C	-29 C	SV1	1861 KPA	568 M3/MIN	ON VESSEL
TUBE A	9756 KPA	66 C	-29 C	SV1	9756 KPA	88 M3/MIN	PIPING


OWNER INSTRUCTIONS/REMARKS:

Contact the ABSA Safety Codes Officer before placing the vessel/boiler in service.

Verify that vessel/boiler is protected by an acceptable ASME Code pressure relief device, of adequate capacity, set at no more than maximum pressure authorized and installed in accordance with the Safety Codes Act & Regulations.

Vessel/Boiler to be installed in accordance with the Safety Codes Act and Regulations.

Safety Codes Officer: SHI, HUBERT

Signature: 

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.