FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Form U-1

1. Manufactured and certified by ISOTHERM, INC. 1118 Enterprise Place Arlington, Texas, USA 76001
(Name and address of Manufacturer)

2. Manufactured for JIM BEAM BRANDS, CO 149 HAPPY HOLLOW RD CLERMONT, KY USA 40110
(Name and address of Purchaser)

3. Location of installation "Not Known"
(Name and address)

4. Type: Horiz. (Horiz., vert., or sphere) | Heat Exh. (Tank, separator, jkt. vessel, heat exh., etc.) | 00038X (Mfg's serial No.) | - (CRN) | 00025A (Drawing No.) | 66 (Nat'l. Bd. No.) | 2000 (Year built)

5. ASME Code, Section VIII, Div. 1 1998 Edition, A -99 Addenda (Edition and Addenda (date)) | - (Code Case No.) | - (Special Service per UG-120 (d))

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): (1) (b) Overall length (ft & in.): 14' -8 5/8"

	Course(s)		Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	12 3/4"	14' -8 5/8"	SA312-TP304	0.375"	0"	S	None	85%	2	None	65%	-	-

7. Heads: (a) (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (b) (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness Min.	Thickness Corr.	Radius Crown	Radius Knuckle	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure Convex	Side to Pressure Concave	Category A Type	Category A Full, Spot, None	Category A Eff.
(a)														
(b)														

If removable, bolts used (describe other fastening) (Mat'l Spec. No., Grade, size, No.)

8. Type of Jacket Jacket Closure (Describe as ogee & weld, bar, etc.)
If bar, give dimensions If bolted, describe or sketch.

9. MAWP 100 (internal) (external) psi at max. temp. 200 (internal) (external) °F Min. design metal temp. -20 °F at 100 psi.

10. Impact test No. Exempt per UHA 51(d)(1)(a).
(Indicate *yes* or *no* and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. 132 (pneu.) Proof test -

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: SA240-304 (Stationary (Mat'l Spec. No.)) | 12.000" (Dia., in. (subject to press.)) | 1.500" (Nom. thk., in.) | 0" (Corr. Allow., in.) | Welded (Attachment (welded or bolted))

(Floating (Mat'l Spec. No.)) (Dia., in.) (Nom. thk., in.) (Corr. Allow., in.) (Attachment)

13. Tubes: SA249-TP304 (Mat'l Spec. No., Grade or Type) | 0.625" (O.D., in.) | 16 ga (Nom. thk., in. or gauge) | 154 (Number) | Straight (Type (Straight or U))

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) (2) (b) Overall length (ft & in.): 0' -2 1/8"

	Course(s)		Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	12.750"	0' -2 1/8"	SA312-TP304	0.375"	0"	S	None	85%	4	None	-	-	-
2	12.750"	0' -2 1/8"	SA312-TP304	0.375"	0"	S	None	85%	4	None	-	-	-

15. Heads: (a) SA240-304, No H.T. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp (b) SA240-304, No H.T. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

	Location (Top, Bottom, Ends)	Thickness Min.	Thickness Corr.	Radius Crown	Radius Knuckle	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure Convex	Side to Pressure Concave	Category A Type	Category A Full, Spot, None	Category A Eff.
(a)	End	1.500"	0"						12.000"			S	None	1
(b)	End	1.500"	0"						12.000"			S	None	1

If removable, bolts used (describe other fastening) SA193-B8, Ø3/4" x 5" lg. (12) each end.
(Mat'l Spec. No., Grade, Size, No.)

16. MAWP 250 (internal) (external) psi at max.temp. 200 (internal) (external) °F. Min. design metal temp. -20 °F at 250 psi.

17. Impact test No. Exempt per UHA 51(d)(1)(a).
(Indicate *yes* or *no* and the component(s) impact tested)

18. Hydro., pneu., or comb. test press. 330 (pneu.) Proof test

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 (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	2	1 1/4"		*		0.191"	0"	Inherent	**		Head (a)
Outlet	2	3"		*		0.300"	0"	Inherent	**		Head (a)
Inlet /Outlet	2	4"	150#SO	*	***	0.237"	0"	Inherent	**	Welded	Shell
Vent	1	3/4"	CPLG		***	3000#	0"	Inherent		****	Shell
Drain	1	1"	CPLG		***	3000#	0"	Inherent		****	Shell
Equal.	2	1/4"	CPLG		***	3000#	0"	Inherent		****	Head (a) Outlet

20. Supports: Skirt No (Yes or No) Lugs No (No.) Legs No (No.) Others (2) Saddles (Describe) Attached Welded to shell (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: Model IX-1215C for non-lethal, non-corrosive service. Pressure relief devices by others.
No insp. open. per UG 46(a). Channel girth flanges, SA240-304.
* SA312-TP304. ** UW 16.1(c). *** SA182-F304. *** UW 16.1(z-1).

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. 31,095 Expires 06/17/2002

Date 07/14/2000 Name ISOTHERM, INC. (Manufacturer) Signed (Representative)

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 Texas and employed by IB & M RE, Inc of Arlington, Texas have inspected the pressure vessel described in this Manufacturer's Data Report on 7-18-00, 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 7-18-00 Signed (Authorized Inspector) Commissions 9441A-TX-1066 (Nat'l Board incl. endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.
U Certificate of Authorization No. Expires

Date Name (Assembler) Signed (Representative)

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 of 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 (Authorized Inspector) Commissions (Nat'l Board incl. endorsement, State, Province and No.)