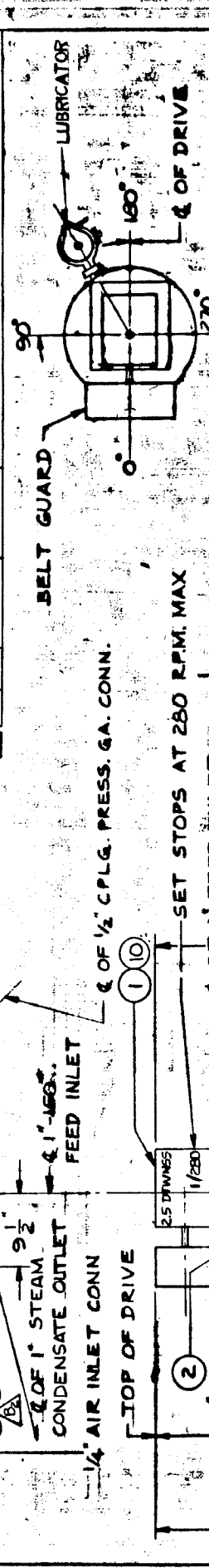


REF	NO	REV	PART NO	DESCRIPTION
1	1	3214015	3214015	DRIVE & ROTOR ASSY
2	2	3214152	3214152	PIN DOWEL ASSY
3	4	1102047	1102047	CLAMP, JAW, 5/8"
4	4	1602477	1602477	BOLT, HEX HD FIN, STL, SA193-B7 5/8-11x4 1/2
5	4	1600368	1600368	NUT, HEX, HVY STL, SA193-B7 5/8-11
6	1	1607323	1607323	SHELL ASSY, UPPER & LOWER
7	1	1607323	1607323	RING, O VITON A, SIZE NO. 455 12.975x.275
8	8	3204775	3204775	BLADE, WIPER, RULON
9	1	CE-578-1082	CE-578-1082	CONDENSER ASSY, 19 FT ² INCOLOY 800
10	1	1611769	1611769	MOTOR, EP, 1HP, 1800, 3/60, 230/460, F2 1/4ST
11	1	1612371	1612371	FLG., BLIND, RF, STEEL, FORGED, 300 ¹ 1"
12	1	3141142	3108197	GASKET PS-0416 1"
13	4	1602271	1602271	BOLT, HEX HD 5/8-11x2 3/4 SA193-B7
14	4	1600368	1600368	NUT, HEX, 5/8-11 SA193-B7



TOP VIEW OF DRIVE ORIENTATION

NOTES: 1. ALL MACHINED SURFACES MUST BE PROTECTED WHILE BEING MOVED THRU THE SHOP.
2. (2) 1/4" N.P.T. TAPPED HOLES IN FLG. FOR COLD WATER COOLING OF O-RING SEAL. O-RING CAN BE USED AT HIGHER TEMPERATURE DEPENDING ON AMOUNT OF COOLING WATER USED.

3. RUNOUT TEST: MOUNT DRIVE & ROTOR ASSY ON TEST STAND & CHECK RUNOUT OF ROTOR RUNNING AT TOP SPEED. MAX RUNOUT NOT TO EXCEED 1/8" F.I.R.

4. HEAD ROOM REQUIREMENTS FOR REMOVAL OF ROTOR & CONDENSER REF TO 3214001 OR IM-39-101.

5. SANDBLAST CARBON STEEL PARTS TO BE PAINTED USING ALUMINUM OXIDE TO PROVIDE 2 1/2-3 MIL ANCHOR PATTERN. PAINT PRIME COAT C/S WITH CARBOLINE-CARBOZINC SP81, 3.0 MILS THICK, PER DATA SHEET 110 OPTION #2.

6. NAMEPLATE TO LIST LUMMUS TAG NO. AND HLR EQUIP. N°.

7. TAG VAR. SP DRIVE: MOV-34004

8. CONDENSER HLR CODE NO. CIA-34005

9. VACUUM TEST-QUALITY CONTROL MANUAL SEC E-3, PAGE 6.

PURCHASER: THE LUMMUS CO, AGENT FOR HOFFMANN LA ROCHE
PROJECT: VITAMINS INTERMEDIATES PLANT
LOCATION: FREEPORT, TEXAS
PO. N°: 8427-400
EQUIPMENT NAME: RESIDUE REMOVAL WFE-IP
LUMMUS TAG N°: EH-4306
HLR EQUIPMENT CODE N°: EYP-34004

REVISION
1. REVISED PER MARKED APPROVAL PRINTS DATED 12-19-78
2. ADDED STEAM CONDENSATE OUTLET TO JKT DRAIN
3. ADDED REF. N° 8.11.12.13.14
S.R.L. 3-19-79 M.B.

ALL TANK NOZZLES FURNISHED WITH ANSI CLASS 1 FLGS.
WORK FROM DIMENSIONS-DO NOT SCALE
THIS DOCUMENT IS THE PROPERTY OF THE PFAUDLER CO. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS LENT AND MUST NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION OR USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THIS COMPANY. IT IS SUBJECT TO RETURN UPON REQUEST.

SEE PLAN VIEW FOR ORIENTATION

TUBE SIDE RATING	DESIGN & INSPECTION
PRESSURE 150/150	SPECIFICATION VESSEL YES
TEMPERATURE 400°F	ASME CODE YES
DESIGN STAMP	DESIGN & INSPECTION VESSEL YES
BASE MATERIAL	ASME CODE YES
SA-351 GR. C F 3 M	DESIGN STAMP
TYPE 316L STN STL	DESIGN STAMP
JACKET SA-515 GR. 65	DESIGN STAMP
TOP HD. SA-240 TYPE 316 L	DESIGN STAMP
THICKNESSES VESSEL JACKET	DESIGN STAMP
NO. TOP 5/8"	DESIGN STAMP
NO. BOT/HEAD 5/8"	DESIGN STAMP
SHELL 5/16"	DESIGN STAMP
SEALER 5/16"	DESIGN STAMP
HYDRO TEST PM 50	DESIGN STAMP
RADIOPHANY	DESIGN STAMP

SEE OPERATING LIMITATIONS, INSTALLATION & MAINTENANCE INSTRUCTIONS IM-39-101

TEMPERATURE LIMITATIONS:
VITON A O-RINGS 400°F
MECH. SEAL FOR SHAFT ENCLOSURE 450°F

FV: FULL VACUUM
* WITH FULL VACUUM IN VESSEL

VESSEL FINISH	MAT'L	WELDS
TANK INSIDE	SA-351 GR. C F 3 M	WIRE BR
TANK OUTSIDE	SA-351 GR. C F 3 M	WIRE BR
JACKET INSIDE	SA-351 GR. C F 3 M	WIRE BR
JACKET OUTSIDE	SA-351 GR. C F 3 M	WIRE BR
GASKET VITON A O-RINGS	WIRE BR	WIRE BR
PAINT SEE NOTE #5	3213952	3213952
NONE ON STN STL		

WT. EMPTY	WT. OPERATING	WT. FULL	WT. WATER	WT. JACKET	PROB. LOSS
996 LBS.	1050 LBS.	1201 LBS.	996 LBS.	996 LBS.	539

TITLE: EVAPORATOR, WIPED FILM (WFE) 12-4.2 SQ. FT. HI-VAC MODEL 4.2-12 V-19
CUSTOMER: THE LUMMUS CO
ADDRESS: BLOOMFIELD, N.J.
COMPANIES: HOFFMANN LA ROCHE
ADDRESS: FREEPORT, TEXAS
CLUT. ORDER NO. 8427-400

PFAUDLER
DIVISION OF SYBRON CORPORATION
ROCHESTER, N.Y. & ELYRIA, OHIO, U.S.A.
PO. # 400
8427-EH-4306-1A
SYBRON Pfaudler

SCALE 1"=1'-0"
DRAWN TL
DATE 11-20-78
CHECKED FS
DATE 11-22-78
APPROVED H. CADE
DATE 12-15-79
SHEET 1 OF 3

R578-0413

for a period 11-22-78 to 11-22-78