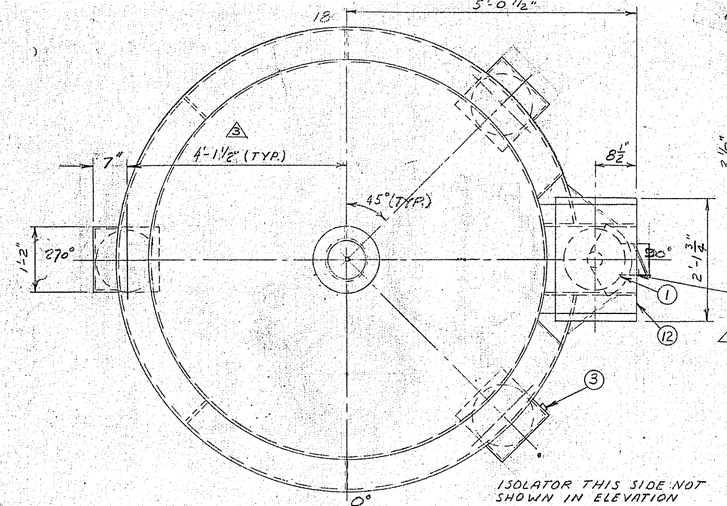
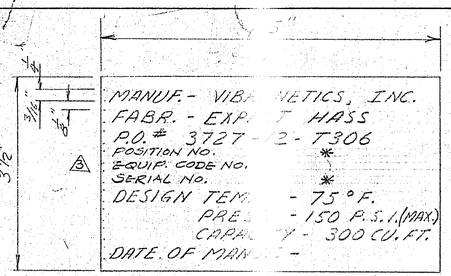
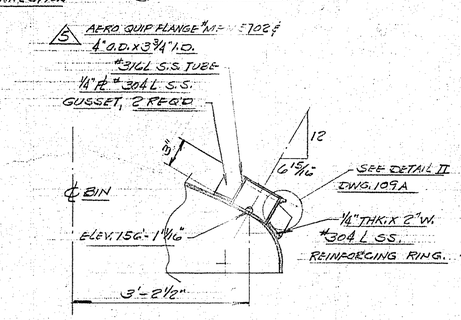
EQUIP. CODE NO. HPD-671

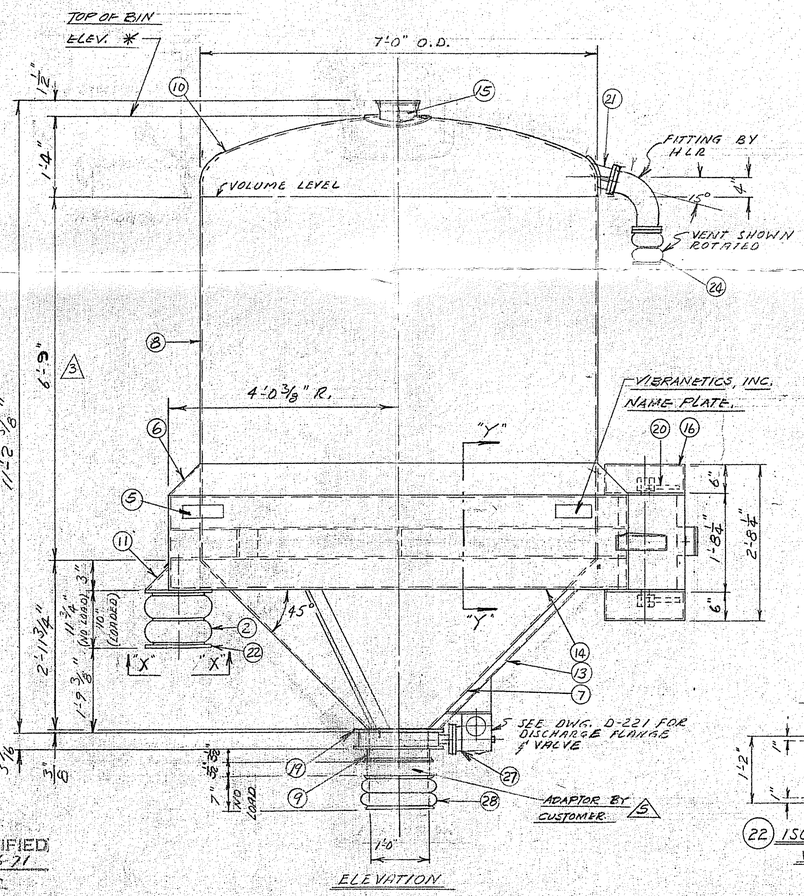


PLAN

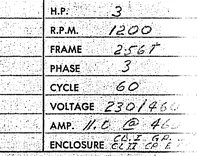


(5) NAM TAG



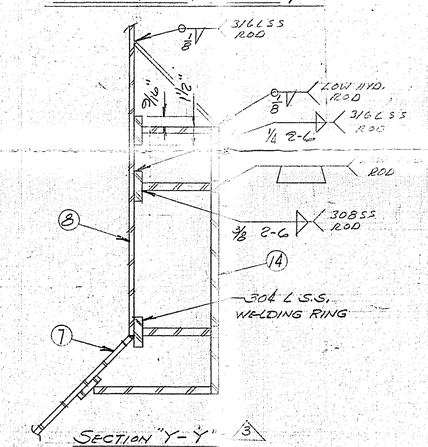


ELEVATION



(22) ISOLATOR PLATE
VIEW "X-X"

SECTION "S-S" (DWG. 109A)



SECTION "Y-Y"

COMPONENT LIST (PER UNIT)

ITEM	COMPONENT	QUAN.	SPECIFICATIONS	DWG. NO.		PART NO.
1	VIBRATORY EXCITOR	1	VEH-10030 20000# MAX. FORCE			
2	ISOLATOR	3	VLM-21 (LIQUID MOUNT WITH SNUBBER)			
3	GROUNDING LUG	1	1 @ # 12 GA. WIRE	D-218		
4						
5	NAME TAG	1	# 16 GA. S.S.	D-109		
6	DUST DEFLECTOR	1	# 14 GA. #304 L S.S.	D-218		
7	CONE SECTION	1	1/4 PL # 316L S.S.	D-217		
8	VERTICAL SHELL	1	1/4" PL # 316L S.S.	D-217		
9	BOTTOM RING	1	1/4" & 5/16" # 316L S.S. PL / P.O. # 3727-22-T-346	D-221		
10	SHELL TOP	1	1/8" ASME F & D HEAD # 316L S.S.	D-109A		
11	ISOLATOR BRKT.	3	3/16" PL M.S.	D-218		
12	MOTOR BRKT.	1	1/2" & 5/8" PL M.S.	D-219		
13	STIFFENER	3	2" x 2" x 1/4" L #304L S.S.	D-221		
14	STIFFENER RING	1	3/8" PL M.S.	D-217		
15	CIP OPENING	1	8 O.D. # 316L S.S. / FL-MFM-5702	D-109A		
16	ECCENTRIC WT. COVER	2	# 14 GA. M.S.	D-219		
17	MANHOLE WITH COVER	1	18 DIA. # 316 L S.S.	D-226		
17	RUPTURE DISC. CONNECTION	1	29" I.D. FLANGE # 316 L S.S. 1 3/8" TK.	D-109A		
19	DISCHARGE FLANGE	1	12" # 316L S.S.	D-221		
20	ECCENTRIC WEIGHT	2	ADJ (0) / S.L. (3) 1/4" PL / 3" MAX.	D-225		200-20
21	VENT AIR OUTLET	1	3 1/2 DIA. PIPE 4# / PLG. 5.062" ϕ 3/16 LSS	D-109A		
22	ISOLATOR PLATE	3	3/8" PL M.S.	B-365		100-22-4
23	RUPTURE DISC. FLEX. CONN.	1	24" / P.O. # 3727-39-T-347	D-220		
24	FLEXIBLE SANITARY CONN.		/ P.O. # 3727-40-T-348	D-227		
25	DISCHARGE GATE	1	12" DIA. / P.O. # 3727-22-T-346	D-221		
26						
27	VALVE & OPERATOR	1	/ P.O. # 3727-22-T-346			
28	PRODUCT OUTLET	1	12" / P.O. # 3727-40-T-348	D-227		

UNIT - VB-1043 4", 8"
UNIT - VB-1044 4", 8"
UNIT - VB-1045 (3) 4"
UNIT - VB-1046 (3) 4"
UNIT - VB-1047 (3) 4"
UNIT - VB-1048 (3) 4"

NOTE:
ITEMS: 9, 23, 29, 25, 27 & 28 ARE SUPPLIED WITH ANOTHER P.O.

3 NOTES:

(1) ALL BIN COMPONENTS TO WITHSTAND AN EXPLOSION PRESSURE UP TO 150 PS.I.
(2) ALL PARTS IN CONTACT WITH THE PRODUCT SHALL BE TYPE 316 L S.S., ON THE OUTSIDE, ALL CARBON STEEL PARTS WELDED TO THE BIN SHALL HAVE A STRIP OF 304 L S.S. BETWEEN THEM. NO CARBON STEEL PART CAN BE WELDED DIRECTLY TO THE BIN.
(3) PROTECT BINS FROM IRON CONTAMINATION DURING FABRICATION.
(4) BIN DESIGNED PER ASME CODE SECTION VIII LATEST EDITION. STAMP NOT REQUIRED.

CUSTOMER: HOFFMANN-LAROCHE, INC.
PLANT : ASCORBIC ACID PLANT (PROJECT 66)
LOCATION : BELVIDERE, N.J.
CONTRACTOR : ARTHUR G. McKEE & CO.
- CONTRACT NO. 3727
- P.O. NO. T-306
- POSITION NOS. B3-6904, B3-6905, B3-6940, B3-6941, B3-8401, & B3-8402
- TAG NO. *

	SERIAL NO.	S.O. NO.	ITEM NO.	TAG or POSITION NO.	T/BIN ELEV.
*	VB-1043	1107	1	B3-6904-V	175'-2"
	VB-1044	1107	2	B3-6905-V	175'-2"
	VB-1045	1108	5	B3-6940	156'-11"
	VB-1046	1109	6	B3-6941	156'-11"
	VB-1047	1110	9	B3-8401	156'-5 1/2"
	VB-1048	1110	9	B3-8402	156'-5 1/2"

#108320 #108333
#108321 #108334
#108327
#108328

4 NOTES:

(5) SUPER FRENCH FINISH OR EQUAL ON ALL INSIDE SURFACES. WITH WELDS GROUND FLUSH WITH UNIFORM STRIPE.
(6) OUTSIDE FINISH AS FOLLOWS:
(a) ALL STAINLESS STEEL "SUPER FRENCH" OR EQUAL WITH ALL S.S. WELDS CLEANED WITH UNIFORM STRIPE.
(b) ALL MILD STEEL SHALL BE SSPC-SP6 SANDBLAST CLEANED & PRIMED WITH 2 COATS PRUFCOTE P50 PRIMER.

(7) ALL BOLTS ON S.S. MEMBERS TO BE S.S. #302 OR #304.
(8) EXCITOR WILL BE "LOOSE" STOPPED (REV. LINESTARTER & TIMER BY OTHERS.)
(9) 6 UNITS REQ'D. - SERIAL NOS VB-1043 & VB-1044 ON S.O. # 1107; SERIAL NO. VB-1045 ON S.O. # 1108; SERIAL NO. VB-1046 ON S.O. # 1109; SERIAL NOS VB-1047 & VB-1048 ON S.O. # 1110
10) ALL OUTSIDE S.S. SURFACES ARE TO BE PAPER PROTECTED BY FABRICATOR, FOR SHIPMENT.

3 McKEE DWG. Nos. 6904-1, 6905-1, 6940-1, 6941-1, 8401-1, 8402-1

THIS DRAWING CERTIFIED CORRECT 11-16-71 VIBRANETICS, INC.

DYNAMIC REACTIONS			MISCELLANEOUS INFORMATION	PRODUCT CHARACTERISTICS		DESIGN INFORMATION		MOTOR SPECIFICATION	
VERTICAL REACTION	39130	LBS.	MATERIAL SOURCE CONVEYOR (PNEUMATIC)	PRODUCT PHARMACEUTICAL POWDER		D.F. —		H.P. 3	
HORIZONTAL REACTION	8000	LBS.	DISCHARGE TO	DENSITY 50 #/FT.³ MAX.		W1 —		R.P.M. 1200	
V.R. / MOUNT	13043	LBS.	UPPER BIN DIA.	RATE 25.5 TO 30.4 T.P.D.		W2 —		FRAME 256T	
H.R. / MOUNT	2667	LBS.	UPPER BIN HEIGHT	TEMP. AMBIENT		GROSS WT. 5780		PHASE 3	
MOUNTING ARRANGEMENT			UPPER BIN SLOPE	MOISTURE % 1 (MAX.)		M.R. —		CYCLE 60	
ATOP HOWE-RICHARDSON LOAD CELLS			MAT DEPTH	PRESSURE 150 PSI (MAX. DESIGN)		STROKE		VOLTAGE 230/460	
CELL VERT. REACTION = 3198 LBS @ 1140 CPM				PRESSURE ATMOSPHERIC (OPERATING)		AUGER R.P.M. —		AMP. 11.0 @ 460	
CELL HORIZ. REACTION = 333 LBS @ 1140 CPM				MESH -200		CAPACITY 300 FT.³		ENCLOSURE CS: F GP. EL: TF CS: E	

REV.	DATE	DESCRIPTION	REFERENCE DWGS.
9	1-3-72	DESIGN CHANGE	
8	11-16-71	NOTE 10 ADDED	
7	9-1-71	DWG. CHANGE ITEM 18	
6	8-25-71	CUSTOMER CHANGE	
5	7-29-71	CUSTOMER CHANGE	
4	6-2-71	NOTE CHANGE & DWG. UPDATED	
3	5-20-71	APPROVAL CHANGE	
2	4-5-71	DWG. UPDATED	
1	4-5-71	DWG. UPDATED	

DRAWN — FEW 12-14-70
CHECKED — [illegible]
ENGINEER — GDD
SCALE — 3/4" = 1'-0"
FILE No. — NYC-70-12-23
P.O. No. — 3727-12-T306
SERIAL No. — SEE NOTE 9
S.O. No. — SEE NOTE 9

EQUIP. CODE NO. HPD-671-1

VIBRANETICS, INC.
[illegible]
300 CU. FT. VIBRATORY BIN FOR HOFFMANN-LA ROCHE, INC.

DWG. No. D-109 REV. No. 9

THIS DRAWING IN DETAIL AND DESIGN IS THE PROPERTY OF VIBRANETICS, INC. AND IS LOANED WITH THE UNDERSTANDING THAT IT IS NOT TO BE USED IN ANY WAY THAT IS HARMFUL TO VIBRANETICS, INC. AND IS TO BE RETURNED UPON REQUEST.