

Enodis



COOK/CHILL INCLINED AGITATOR STATIONARY MIXER KETTLES

Cleveland Standard Features

- Full 60,100,150,200 or 300 gallon working capacity
- Electrically driven, Inclined Agitator Mixer Arm
- Variable mixer speed control
- Heavy duty, removable breaker bar
- Flush mounted, easily removable temperature probe
- Simmer control for cooking delicate products
- 3" diameter air operated, flush mounted piston draw-off valve (requires air compressor)
- Spiral flights for even water cooling
- Motor protection shield
- Easily removable agitator without the use of tools
- Spring loaded scraper blades
- Kettle mounted valve box for single point utility connections
- Heavy duty rim bar
- 100 psi steam jacket rating and safety valve
- Type 316 stainless steel for all food contact surfaces
- Water fill faucet with swing spout
- NSF approved
- Accepted for use in USDA inspected facilities

Note: This COOK/CHILL mixer kettle requires a control panel for operation which must be specified separately.

Standard Features for Kettle Control Center:

- Solid state temperature control with digital read-out
- Time/Temperature Chart Recorder to provide permanent record of Batch Processing
- Automatic and manual steam control
- Automatic and manual water cooling
- Simmer control for delicate products
- Automatic water meter with accumulative "add on" button and digital readout
- U.L. approved

Options & Accessories

- Single or dual remote control center
- Stainless steel lift-off cover
- □ Tilt-out agitator
- ☐ Larger models, up to 800 gallons available
- □ 3" flush mounted ball valve
- □ Loading bucket and dolly
- ☐ Electric chain hoist for lifting the product load

MODELS:	☐ IA-MKDL-60-CC
	☐ IA-MKDL-100-C
	\square IA-MKDL-150-C

☐ IA-MKDL-200-CC ☐ IA-MKDL-300-CC



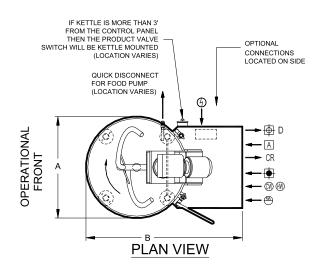
TEM NUMBER	
OB NAME / NUMBER	

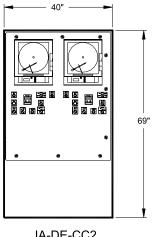


Short Form Specifications

Shall be CLEVELAND Model IA-MKDL-___-CC; COOK/CHILL STA-TIONARY INCLINED MIXER KETTLE, ___ gallons; leg mounted; 2/3 jacketed, direct steam; 100 psi Steam Jacket Pressure Rating; 316 Stainless Steel Liner; electrically driven Inclined Agitator; Variable Mixer Speed Control; 3" diameter air operated, flush mounted Piston Draw-Off Valve; spring loaded Scraper Blades; flush mounted Temperature Probe; Automatic Water Meter; Water Fill Faucet with swing spout; Time/Temperature Chart Recorder (located in Control Center).

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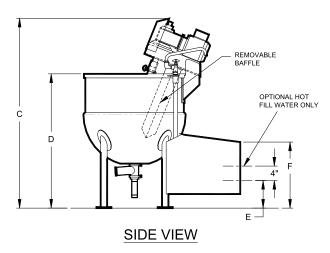


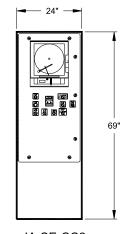
MINIMUM CLEARANCE FOR KETTLES

FRONT 36" SIDE 12" REAR 12"

<u>NOTE:</u> CONTROL PANEL DEPTH 18 3/4"

<u>IA-DE-CC2</u> DUAL CONTROL PANEL





ELECTRICAL POWER TO AND FROM CONTROL PANEL

- CONTRACTOR
 MUST CUT ENTRY
 HOLE
- TOP OR BOTTOM POWER ENTRY RECOMMENDED
- MUST USE PROPER CONNECTIONS TO MAINTAIN U.L. LISTING

IA-SE-CC2 SINGLE CONTROL PANEL

DIMENSIONS

MODEL	Α	В	С	D	E	F	© ELECTRICAL PER KETTLE - 208V/3PH/60Hz	R.P.M.
IA-MKDL-60-CC	32"	52"	64"	45 1/2"	8"	24"	10 AMPS	6-35
IA-MKDL-100-CC	39"	58 1/2"	70"	49 1/2"	9"	28"	12 AMPS	6-35
IA-MKDL-150-CC	45"	63"	79"	52 1/2"	9"	30"	15 AMPS	6-32
IA-MKDL-200-CC	49"	67"	84"	57 1/2"	9"	32"	15 AMPS	6-32
IA-MKDL-300-CC	56"	79"	89"	62 1/2"	11"	36"	25 AMPS	6-32

UTILITY CONNECTIONS

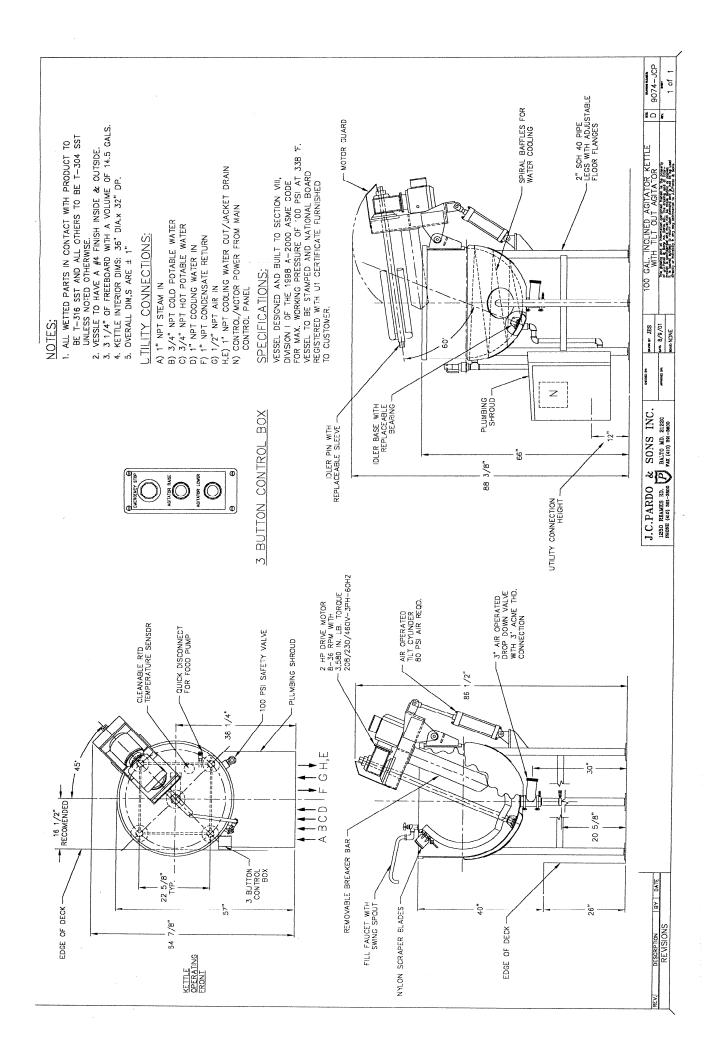
MODEL	CHILLED WATER INLET	CHILLED WATER RETURN	COLD POTABLE WATER	** HOT WATER	CONDENSATE RETURN	DRAIN	AIR INLET	STEAM
	•	 	Œ	(HW)	CR	D	Α	<u>@</u>
IA-MKDL-60-CC	3/4" 15 GPM	3/4"	1/2" 15 GPM	1/2" 15 GPM	1/2"	3/4"	1/2" 1 CFM	3/4" 320 lbs/hr
IA-MKDL-100-CC	1" 20 GPM	1"	3/4" 20 GPM	3/4" 20 GPM	3/4"	1"	1/2" 1 CFM	1" 525 lbs/hr
IA-MKDL-150-CC	1 1/4" 20 GPM	1 1/4"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/4"	1/2" 1 CFM	1 1/4" 780 lbs/hr
IA-MKDL-200-CC	1 1/4" 25 GPM	1 1/4"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/4"	1/2" 1 CFM	1 1/4" 1050 lbs/hr
IA-MKDL-300-CC	1 1/2" 30 GPM	1 1/2"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/2"	1/2" 1 CFM	1 1/2" 1575 lbs/hr

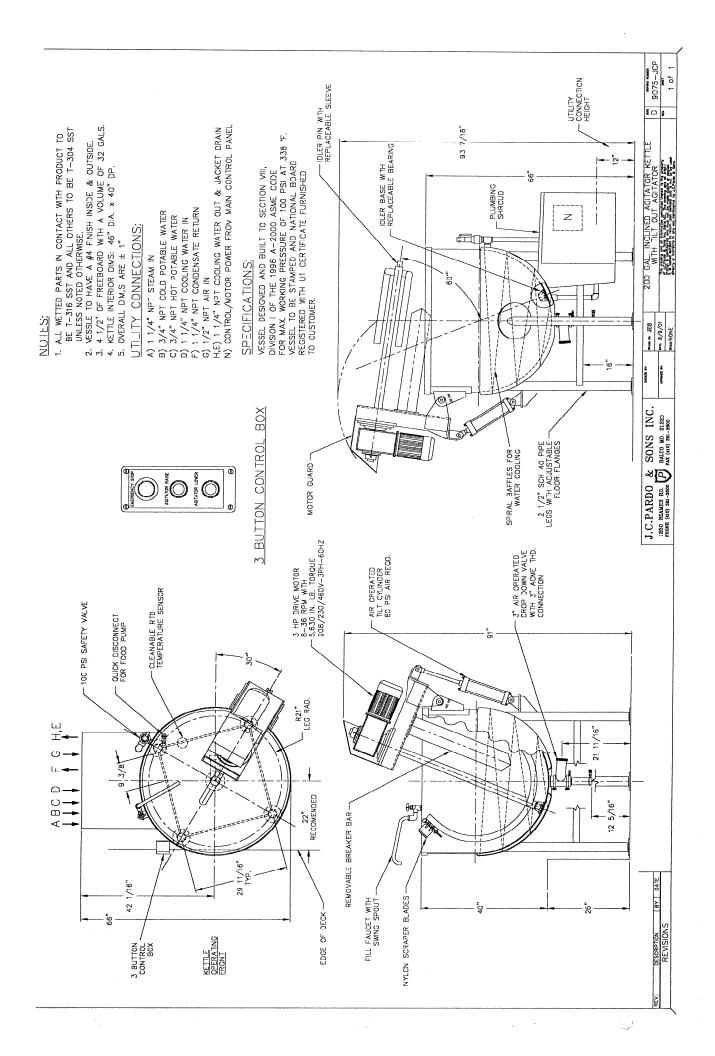
** HOT FILL WATER IS OPTIONAL
65 PSI STEAM OPERATING PRESSURE IS RECOMMENDED

(NOT TO SCALE)

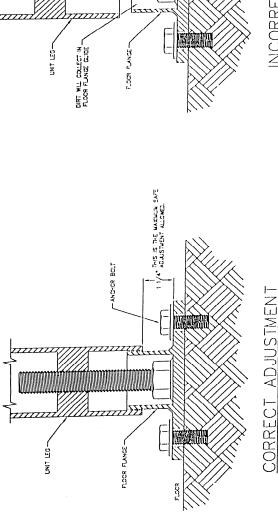
INSTALLATION INSTRUCTIONS FOR INCLINED AGITATOR KETTLE

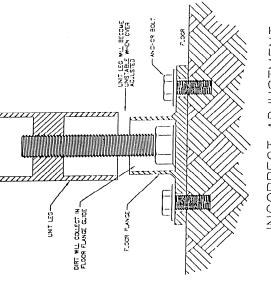
- 1. WHEN REMOVING THE KETTLE FROM THE PLATFORM, HANDLE WITH CARE TO PREVENT SCRATCHING OR ANY OTHER DAMAGE. IT IS IMPERATIVE THAT THE KETTTLE BE LEVEL BEFORE BOLTING TO THE FLOOR. THIS WILL PREVENT ANY TWIST OR OUT OF ROUNDNESS TO THE KETTLE AN DWILL STOP DEFLECTION OF THE AGITATOR. MAKE SURE THE KETTLE IS SECURELY BOLTED TO THE FLOOR AND FOLLOW THE PROCEDURE LISTED BELOW:
 - A. BECAUSE MOST FLOORS HAVE A PITCH TO ALLOW FOR DRAINING
 THE FLANGES CAN ONLY BE LOWERED APPROXIMATELY 1"
 DOWNWARD. IF THERE IS ANY VOID BETWEEN THE FLANGE AND
 THE FLOOR YOU MUST USE SHIMS TO FILL UP THE SPACE.
- 2. NEXT YOU MUST CHECK THE ALIGNMENT OF THE DRIVE SHAFT TO
 THE AGITATOR, PULL THE PULL PIN THAT HOLDS THE COUPLING IN
 PLACE. THEN SLIDE THE COUPLING DOWN AND BACK UP ONLY TO
 MAKE SURE THAT IT MOVES FREELY, IF NOT THERE IS SOME TWIST
 ON KETTLE LEGS AND IT MUST BE CORRECTED UNTIL THE COUPLING
 MOVES UP AND DOWN FREELY.





AFTER UNIT IS LEVEL, ANCHOR ALL FLOOR FLANGES TO THE FLOOR BY USING AN ANCHOR BOLT IN EACH HOLE OF THE FLANGES. NOTES:





INCORRECT ADJUSTMENT OF FLOOR FLANGE

OF FLOOR FLANGE

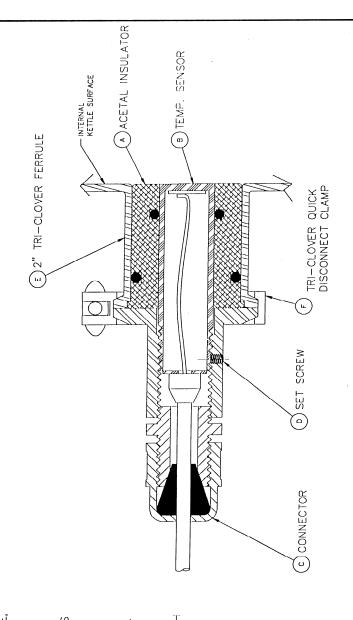
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DRAWN BY JAY S.	- DATE: 4-27-96	SOLENONE
CHECKED BY:	APROVED BY:	
& SONS INC.	D BALTO MD. 21220	F
J.C.PARDO	RD.	PHONE (410) 391-3600

	82/6	SEE	
Ä C	מ	ĘŹ.	
2" TO 2 1/2" FLOOR FLANGE	AUC IION	of J.C. Pardo & Sons Incompation Contained therein is the property	It is located subject to return upon demand and is not to be used
DRAWN BY JAY S.	DATE 4-27-96		SOMENONE
CHECKED BY:	No Chicago		
NC.	000	יצירט	042

INSTALLATION INSTRUCTIONS

- 1. INSERT PART "A" INTO KETTLE FERRULE
 PART "E" SO PART "A" IS FLUSH WITH
 INTERNAL KETTLE SURFACE ±.532 TO
 AVOID SCRAPER BLADE FROM INTERFERING
 WITH TEMPERATURE PROBE.

 2. INSERT PART "B" ASSEMBLY INTO PART
 "A" AND ADJUST UNTIL SURFACE OF PART
 IS FLUSH WITH INTERNAL KETTLE SURFACE,
 SO THAT THE SCRAPER BLADE WILL WIPE
 THE SURFACE CLEAN. THIS MUST OCCUR
 TO OBTAIN AN ACCURATE TEMPERATURE
 READING FROM THE PROBE. FOR EASIER
 ADJUSTMENT OF PROBE, INSTALL O-RINGS
 AFTER ALL ADJUSTMENTS HAVE BEEN MADE
 - 3. AFTER STEPS 1 AND 2, INSTALL CLAMP
 "F" AND CHECK INTERNAL SURFACE WITH
 PROBE TO FIT THE ABOVE REQUIREMENTS.
 ADJUST, IF REQUIRED.
 4. TIGHTEN BOTH SET SCREWS "D".
 5. TIGHTEN CONNECTOR "C".
 - 4. 13. 0,
- RUN WIRE TO JUNCTION BOX AND ATTACH то вох.
 - 7. TEST TEMPERATURE PROBE TO SEE IF TEMPERATURE READING IS ACCURATE.



APPROVED BEFORE USE CHESTERTON 622, USDA OR EQUIVALENT ON O-RINGS INSTALLATION NOTE:

THE DRAWING AND ALL INFORMATION
CONTAINED THEREIN IS THE PROPERFY
OF I. C. PARDO & SONS INC. BALTO, MD.
THE DRAWING AND INFORMATION IS CONFIDENTIAL
AND MUSTS NOT BE MADE PUBLIC OR COPPED.
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DEMAND AND IS NOT TO BE USED DIRECTLY
OR INDIRECTLY IN ANY WAY DETRIBENTAL
TO THE INTERESTS OF I. C. PARDO & SONS INC.

BALTO. MD. 21220 SONS INC. SENSOR 15 | V = 2/2/ (? 7)
TEMPERATURE SET INSTALL ATTON ઝ 1250 REAMES RD. J.C.PARDO 4/27/95

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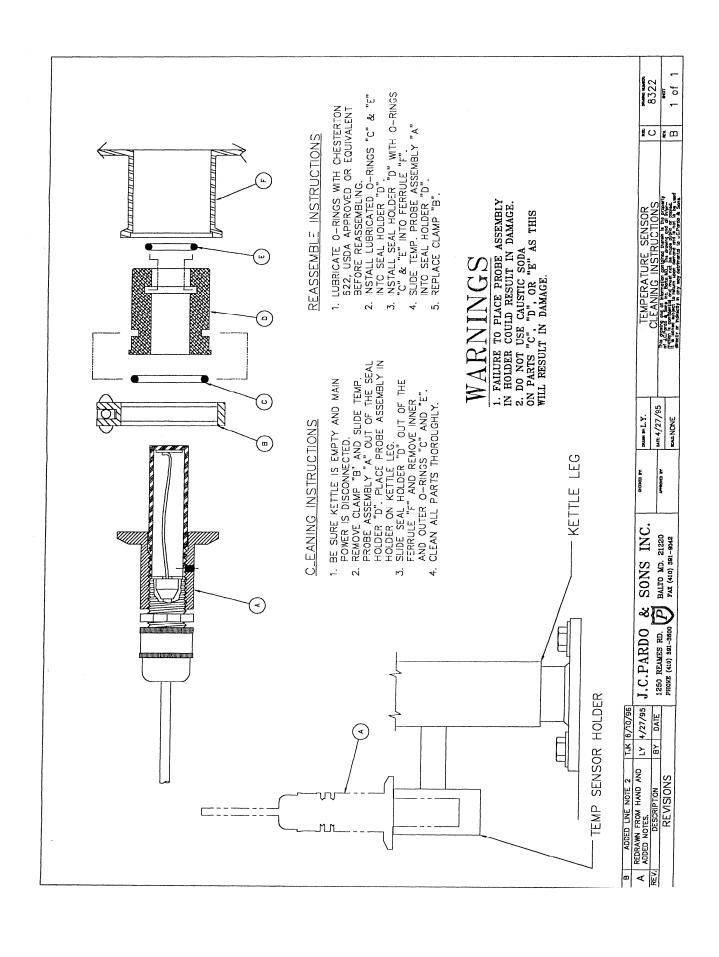


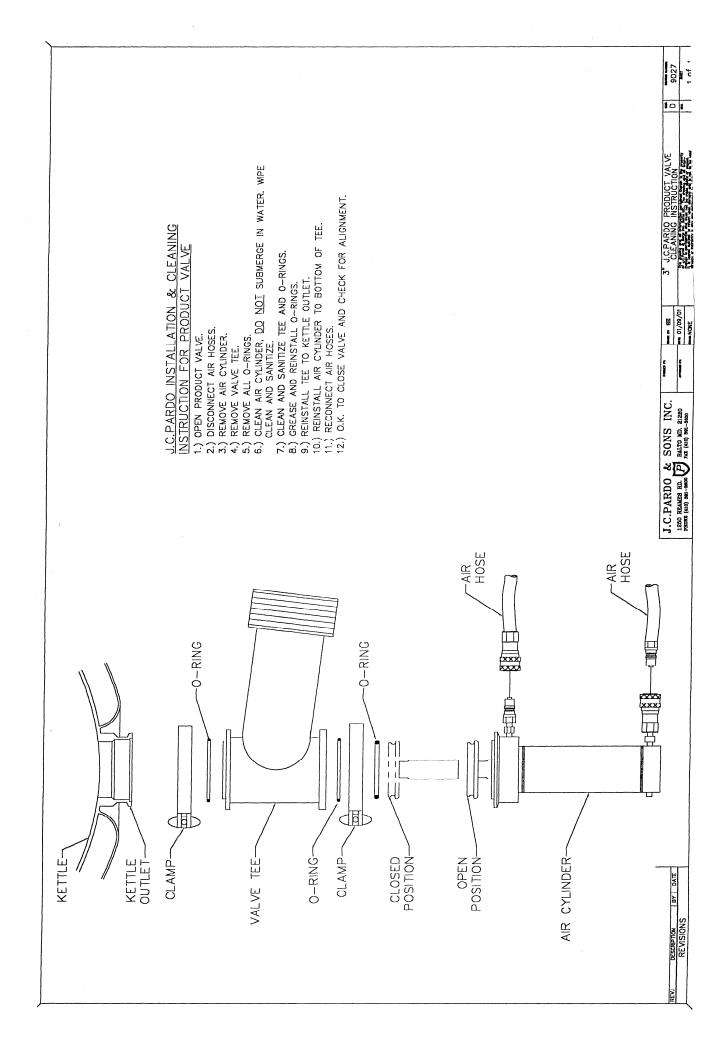
Cleveland Range, LLC. 1333 East 179th Street Cleveland, OH 44110 Phone: (216) 481-4900

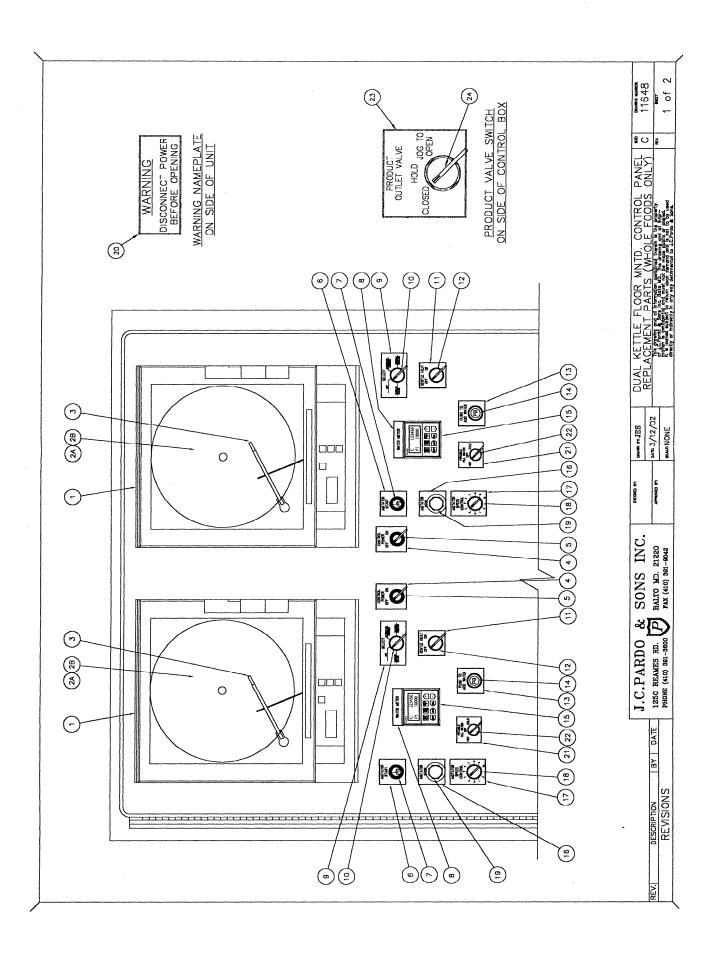
Fax: (216) 481-3782 http://www.clevelandrange.com

		MIXER KETTLES	Model no
Kettle	Pla	acement	Model no Serial no.
		Level Centered on hoist rail	Comments:
		All legs bolted to floor	
		Gear box properly supported	
		•	
		Pasta basket and batch bucket clearances Floor drains and poor paths	
Electr	<u>ica</u>	I Requirements	
		Voltage	
		Phase	
		Amp draw Wire Size	
		Check motor rotation	
<u>Water</u>	<u>re</u>	<u>quirements</u>	
1.		t and cold water supply (Potable) Line size	
		Maximum water pressure	
		Line strainers	
		Pressure regulator	
		Water quality	
2.		illed Water	
		Line sizes (in and out)	
		Locate and inspect line strainer Check for leaks	
Steam	<u>1 R</u>	<u>equirements</u>	
		Locate steam source	
		Line sizes (in and out)	
		Steam pressure Steam gauge	
		Check safety valve operation	
		Check for leaks	
Air Re	qu	<u>irements</u>	
		Line size	
		Pressures	
		Check lubricator	

□ Check for leaks





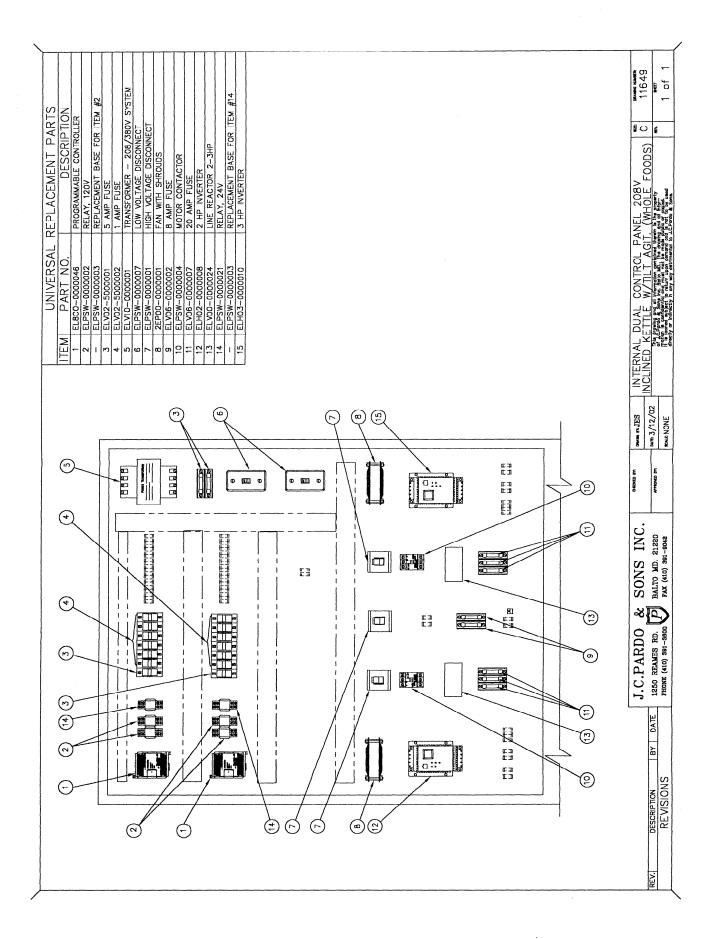


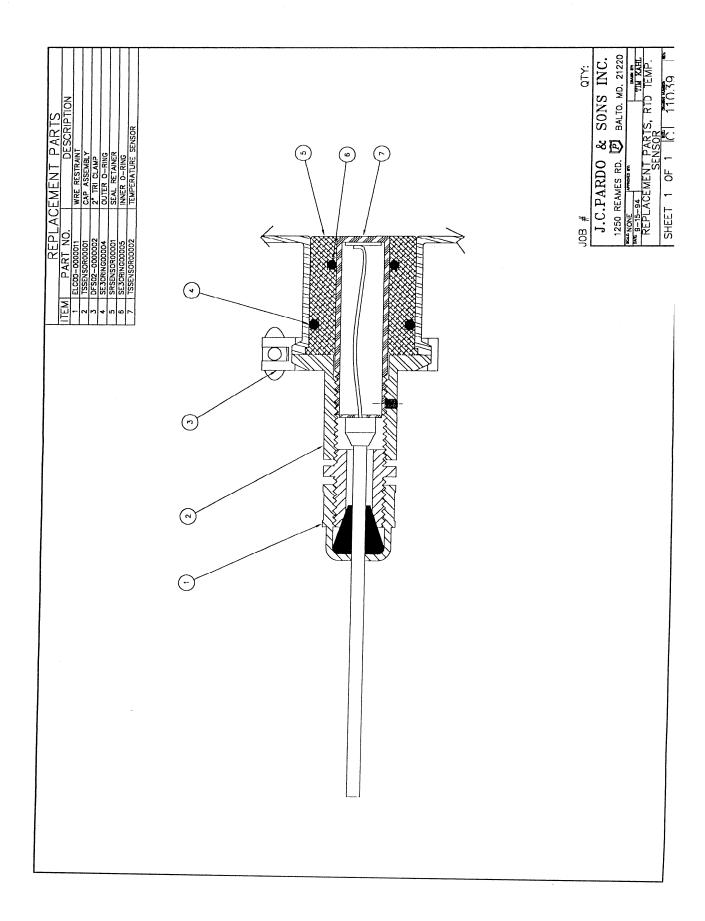
NEW LE	PART NO.	DESCRIPTION
-	EL8C0-0000042	0
ı	EL977-7700019	REPLACEMENT PEN MOTOR ITEM #1
1	EL977-7700018	REPLACEMENT CHART MOTOR ITEM #1
}	EL977-7700020	TOUCH PAD COVER
ı	ELP00-0000037	REPLACEMENT DOOR FOR ITEM #1
-	ELP00-0000036	REPLACEMENT DOOR WINDOW ITEM #1
2A	MSJ00-000005	24 HOUR CHART PAPER 'F
28	MSJ00-000000	24 HOUR CHART PAPER 'C
3	MSP00-000002	RED REPLACEMENT PEN
4	NPYELLOW00110	NAMEPLATE
ഹ	2EP00-8800025	RED LIGHTED TURN SWITCH
1	ELV00-6000001	REPLACEMENT BULB FOR ITEM #5
ယ	NPYELLOW00103	NAWEPLATE
7	2EP00-8800047	GREEN LIGHTED PUSH BUTTON
1	ELV00-1200001	REPLACEMENT BULB FOR ITEM #7
œ	NPYELLOW00116	NAMEPLATE
თ	NPYELLOW00111	NAMEPLATE
0	ELP00-8800001	FOUR POSITION SWITCH
=	NPYELLOW00107	NAMEPLATE
12	2EP00-8800006	TWO POSITION SWITCH
13	NPYELLOW00106	NAMEPLATE
14	2EP00-8800007	BLACK PUSH BUTTON
15	EL8C0-0000066	DIGITAL DURANT WATER COUNTER
ı	ELV02-5000019	REPLACEMENT .315A FUSE ITEM #15
16	NPYELLOW00104	NAMEPLATE
17	NPYELLOW00115	NAMEPLATE
138	ELP00-8800003	SPEED POT
19	2EP00-8800019	RED MUSHROOM PUSH BUTTON
20	NPRED00000019	NAMEPLATE WARNING
21	NPYELLOW00109	NAMEPLATE
22	2EP00-8800022	THREE POSITION SWITCH
23	NPYELLOW00241	NAMEPLATE
24	2EP00-8800044	THREE POSITON SWITCH

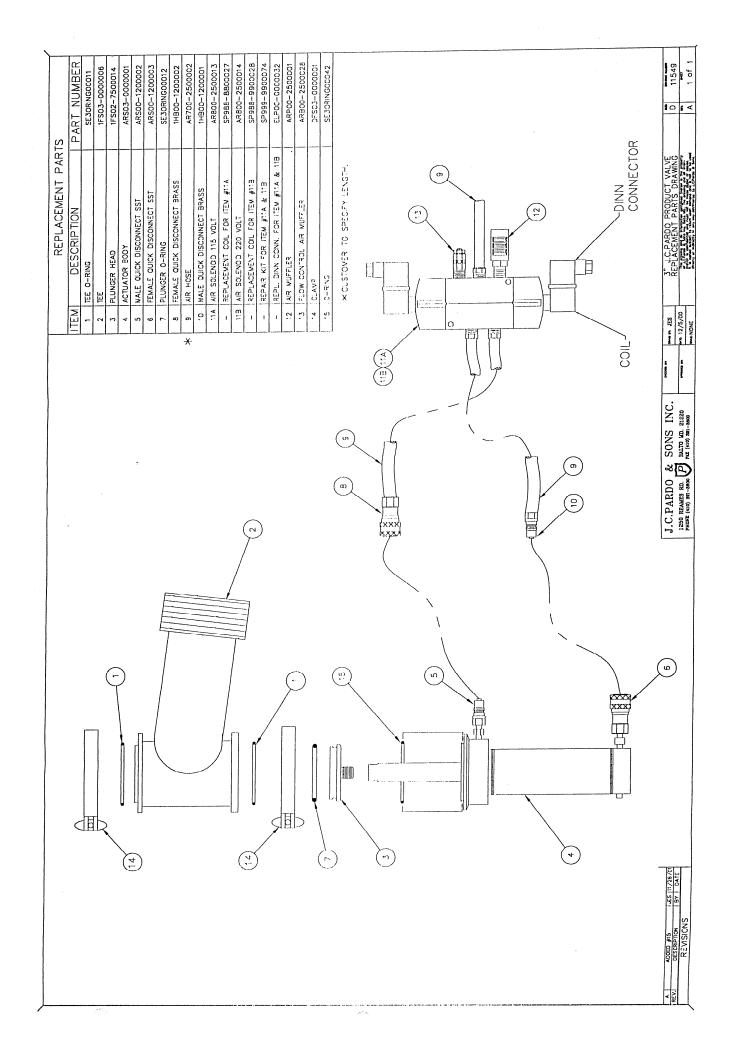
CRAM EN JES BARE 3/12/02 SEALD NONE J.C.PARDO & SONS INC. 1250 REANES RD. D BALTO MD. 21220 FRONE (410) 581-5600 BY DATE

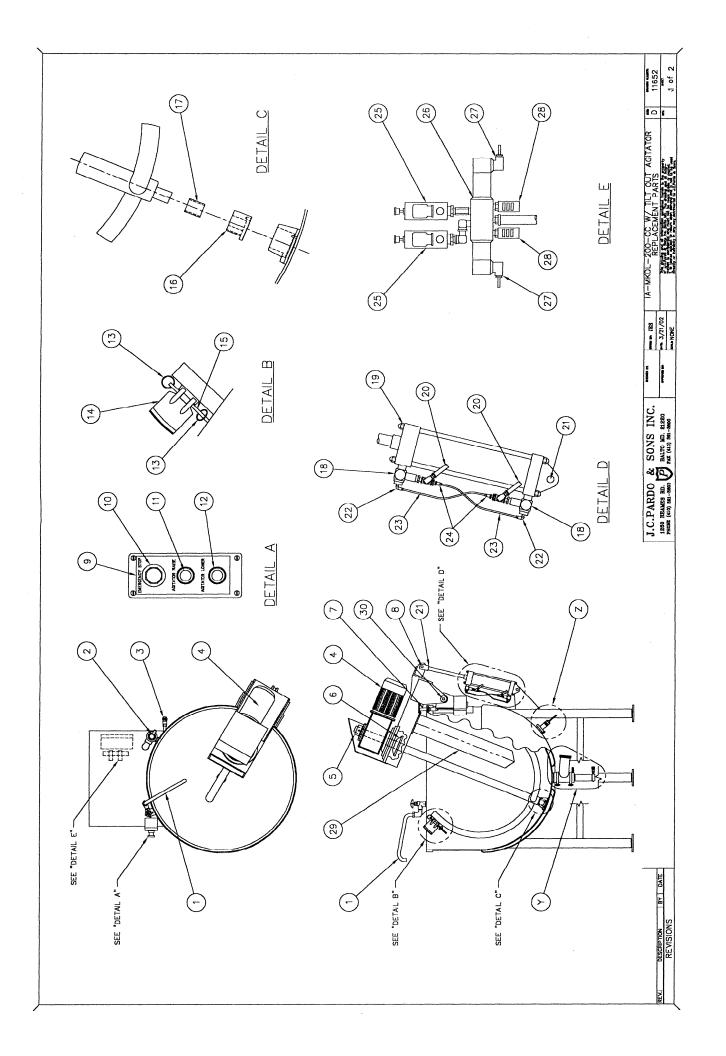
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ARTS LIST	DESCRIPTION	FILL FAUCET WITH SWING SPOUT	100 PSI SAFETY VALVE	AIR QUICK DISCONNECT	RIVE UNIT	REPLACEMENT MOTOR FOR ITEM #4	MENT GEAR BOX FOR ITEM #4		ELD	MOTOR KILL PROX. SWITCH & CORDSET	REPLACEMENT PROX. SWITCH	RELACEMENT CORDSET	TOP/BOTTOM PIN WITH SNAP RINGS	ATE	RED MUSHROOM PUSH BUTTCN	YELLOW PUSH BUTTON	BLUE PUSH BUTTON	G RING	R BLADE	G ROD	BEARING	
EPLACEMENT P	PART NO.				JH03-0000017 3 HP DRIVE UNIT		J902-0000032 REPLACEMENT	SS02-0000001 SET COLLAR	*W05-2500001 DRIP SHIELD					PYELLOW00256 NAMEPLATE				WSDO-0000022 RETANING RING	SX00-0000007 SCRAPER BLADE	3P00-0000001 RETANING ROD	IDLER	TOCOO DOCOO DEADING DENOVAL TOO CO.

		REPLACEME	REPLACEMENT PARTS LIST
	ITEM	PART NO.	DESCRIPTION
	17	FAS01-5000001	IDLER SLEEVE
	18	ARB00-5000004	AIR PILOTED CHECK VALVE
	19	AR800-0000005	AIR CYLINDER
*	20	AR700-2500002	AIR HOSE
	21	HYC00-0000013	YOKE
	22	ARB00-2500031	90' AIR FITTING
*	23	ARP00-2500003	AIR TUBING
	24	ARB00-2500034	STRAIGHT AIR FITTING
	25	AR800-3700006	AIR REGULATED CHECK VALVE
	26	AR800-2500017	AIR SILENOID
	-	SP999-9900083	REPAIR KIT FOR ITEM #26
	-	SP988-8800033	REPLACEMENT COIL FOR ITEM #26
	27	ELP00-0000044	DINN CONNECTOR
	28	ARP00-2500001	AIR MUFFLER
	29	1FS00-0000047	REMOVABLE BREAKER BAR
	30	BGZ01-0000005	BRONZE BUSHING
		DRAW	DRAWINGS LIST
	ITEM	DRAWING NO.	DESCRIPTION
	\	C-11549	PRODUCT VALVE
	Z	C-11039	TEMPERATURE SENSOR ASSEMBLY

* CUSTOMER TO SPECIFY LENGTH

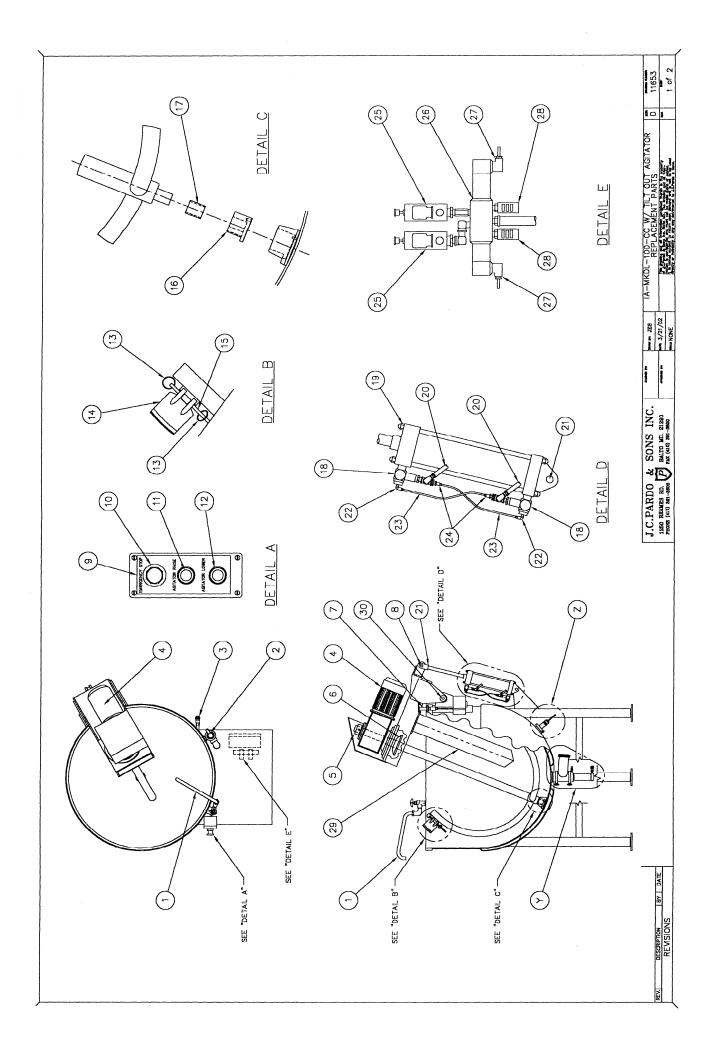
J.C.PARDO & SONS INC.
1260 ERANES RD. D BALTO AD. 21220
PRODE (440) 512-350.

3/21/02 9 COM 13

IA-WKDL-200-CC W/ TILT OUT AGITATOR REPLACEMENT PARTS THE TOTAL TOTAL

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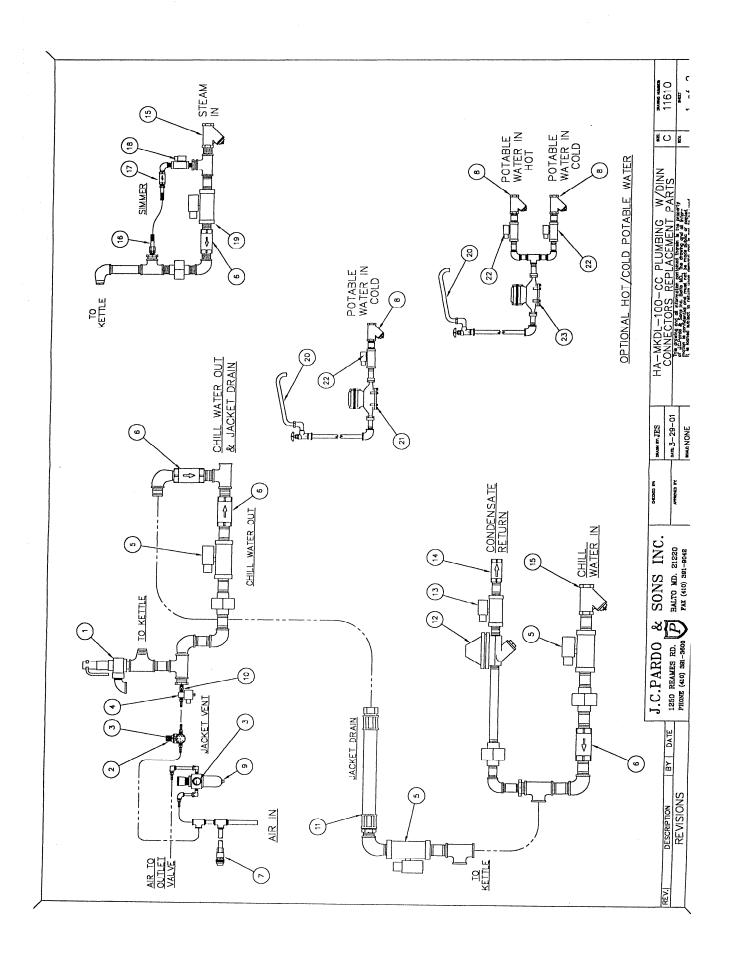
TEM	REPLACEMENT PARTS LIST
PBB00-7500018 WAB01-0000023 ARB00-50000013 DU902-00000033 DU901-5000013 EB00-0000013 ELB0W-0000013 ELBSW-0000013 ELP00-0000013 ELP00-0000013 ELP00-0000013 ELP00-00000013 ELP01-25A0011 ZEP01-25A0001	DESCRIPTION
VABO1 – 0000007 ARB00 – 5000001 DUH02 – 0000023 DU902 – 0000033 DU901 – 500001 IFW04 – 500001 ELBSW – 000001 ELBSW – 000001 ELPO0 – 0000001 ELPO0 – 0000001 ZEPO1 – 25A001 ZEPO1 – 25A001 ZEPO1 – 25A001 ZEPO1 – 25A001 ZEPO1 – 25A0001 ZEPO1 – 25A0001	FILL FAUCET WITH SWING SPOUT
ARBOO-5000001 DUH02-0000023 DU902-0000033 DU901-5000012 MSS01-5000001 IFW04-5000001 EL8SW-0000013 EL8SW-0000013 ELP00-0000003 NPYELL0W00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ANSO0-0000002 MSSX00-0000007 RBP00-00000001	100 PSI SAFETY VALVE
DUH02-0000023 DU902-0000033 DU901-5000012 MSS01-500001 IFW04-5000001 ELBSW-0000013 ELBSW-0000013 ELPO0-0000013 HWS01-0000003 HWS01-0000003 APYELLOW00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 AWS00-0000007 HWS00-00000001 IFK02-7500003	AIR QUICK DISCONNECT
DU902-0000033 DU901-5000012 MSS01-500001 1FW04-5000001 2EB00-00000013 EL 8SW0-000003 EL BSW0-000003 ELPO0-0000003 HWS01-0000003 APYELLOW00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ANSX00-0000002 HWS00-0000007 RBP00-00000001 1FK02-7500003	2 HP DRIVE UNIT
DU901-5000012 MSS01-5000001 IFW04-5000001 ZEB00-00000013 ELBSW-0000013 ELP00-0000003 HWS01-0000003 NPYELLOW00256 ZEP01-25A0001 ZEP01-25A0002 HWS00-00000027 HSS00-00000007	REPLACEMENT MOTOR FOR ITEM #4
MSS01-5000001 1FW04-5000001 E2800-00000013 ELP00-00000013 ELP00-0000003 HWS01-0000003 NPYELLOW00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 TEP01-25A0001 ZEP01-25A0001 TEP01-25A000000000000000000000000000000000000	REPLACEMENT GEAR BOX FOR ITEM #4
1FW04-5000001 2E800-0000001 EL6SW-0000013 ELP00-0000003 HWS01-0000003 NPYELLOW00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 AWS00-0000022 MXX00-00000022 MXX00-00000001 1FK02-7500003	
2E800-000001 EL8SW-0000013 ELP00-0000013 HWS01-0000003 NPYELL0W00256 2EP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 MSX00-0000022 MSX00-0000007 RBP00-0000001 17K02-7500003	DRIP SHIELD
ELBSW-0000013 ELP00-0000043 HWS01-0000003 NPYELLOW00256 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 HWS00-0000022 MSX00-0000007 RBP00-0000001 17K02-7500003	MOTOR KILL PROX. SWICH & CORDSET
ELP00-0C00043 HWS01-000003 HYS1-000003 NPYELL0W0256 ZEP01-25A0014 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0001 RB00-0000007 RBP00-0000001 17K02-7500003	REPLACEMENT PROX. SWITCH
HWS01-000003 NPYELL0W00256 ZEP01-25A0014 ZEP01-25A0001 ZEP01-25A0002 HWS00-000002 HWS00-000007 RBP00-0000001 17K02-7500003	RELACEMENT CORDSET
NPYELLOW00256 ZEP01-25A0014 ZEP01-25A0001 ZEP01-25A0001 ZEP01-25A0002 HWS00-0000002 MSX00-0000007 RBP00-0000001 1FK02-7500003	TOP/BOTTOM PIN WITH SNAP RINGS
ZEP01-25A0014 ZEP01-25A0011 ZEP01-25A0001 HWS00-0000022 MSX00-00000001 RBP00-0000001 1FK02-7500003	MEPLATE
2EP01 – 25A0001 2EP01 – 25A0002 HWS00 – 0000022 MSX00 – 0000007 RBP00 – 0000001 17K02 – 7500003	RED MUSHROOM PUSH BUTTON
2EP01-25A0002 HWS00-0000022 MSX00-0000007 RBP00-0000001 1FK02-7500003	YELLOW PUSH BUTTON
HWS00-0000022 MSX00-0000007 RBP00-0000001 1-K02-7500003	BLUE PUSH BUTTON
MSX00-0000007 RBP00-0000001 17K02-7500003	RETANING RING
RBP00-0000001 1-K02-7500003	SCRAPER BLADE
1FK02-7500003	RETANING ROD
	ER BEARING
- TOSO0-000001 BEARING	BEARING REMOVAL TOOL FOR ITEM #16

ш.	REPLACEME	REPLACEMENT PARTS LIST
	PART NO.	DESCRIPTION
-	FAS01-5000001	IDLER SLEEVE
¥	ARB00-5000004	AIR PILOTED CHECK VALVE
٩	AR800-0000006	AIR CYLINDER
⋖	AR700-2500002	AIR HOSE
I	HYC00-000013	YOKE
A	ARB00-2500031	90' AIR FITTING
Ą	ARP00-2500003	AIR TUBING
Ą	ARB00-2500034	STRAIGHT AIR FITTING
Ā	AR800-3700006	AIR REGULATED CHECK VALVE
¥	AR800-2500017	AIR SILENOID
ß	SP999-9900083	REPAIR KIT FOR ITEM #26
ß	SP988-8800033	REPLACEMENT COIL FOR ITEM #26
回	ELP00-0000044	DINN CONNECTOR
A	ARP00-2500001	AIR MUFFLER
11	1FS00-0000046	REMOVABLE BREAKER BAR
M	BGZ01-0000005	BRONZE BUSHING
	DRAW	DRAWINGS LIST
P	DRAWING NO.	DESCRIPTION
	C-11549	PRODUCT VALVE
	C-11039	TEMPERATURE SENSOR ASSEMBLY

* CUSTOMER TO SPECIFY LENGTH

DATE	
à	.,
RIPTION	FVISION
DESC	꿈

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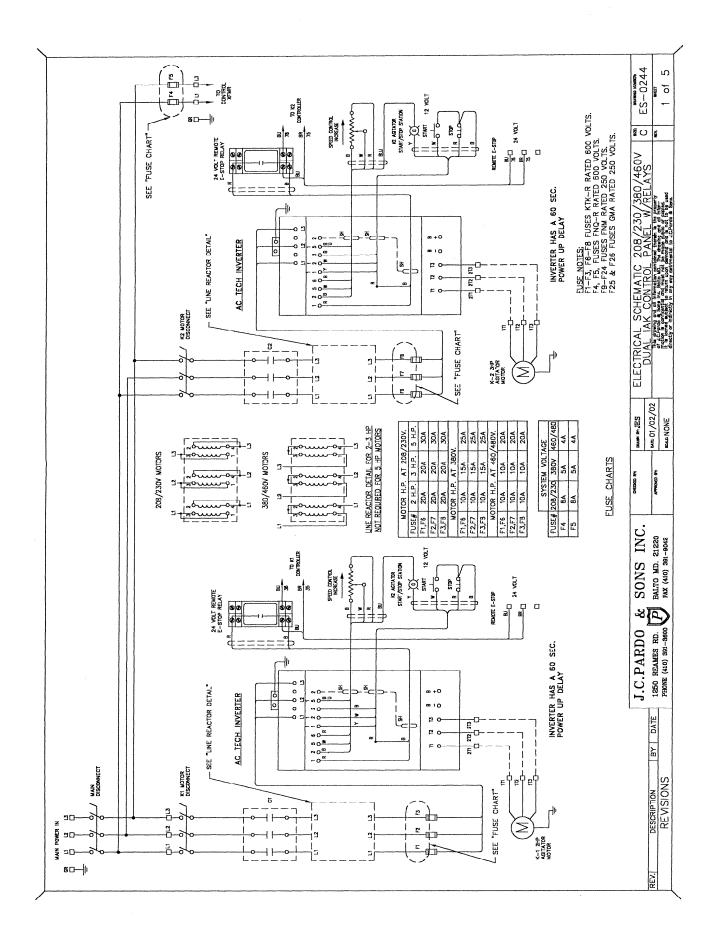
REPLACEMENT PARTS LIST	DESCRIPTION	BALL CONE CHECK VALVE	50 MESH STRAINER	REPLACEMENT SCREEN FOR ITEM #15	SIMMER FLEX LINE	BALL CONE CHECK VALVE	SIMMER SOLENOID	REPLACEMENT DINN CONN. FOR ITEM #18	REPLACEMENT KIT FOR ITEM #18	REPLACEMENT COIL FOR ITEM #18	STEAM IN SOLENOID	REPLACEMENT DINN CONN. FOR ITEM #19	REPLACEMENT KIT FOR ITEM #19	REPLACEMENT COIL FOR ITEM #19	FILL FAUCET	DIGITAL COLD WATER METER	POTABLE WATER IN SOLENOID	REPLACEMENT DINN CONN. FOR ITEM #22	REPLACEMENT KIT FOR SOLENOID #22	REPLACEMENT COIL FOR SOI FNOID #22	DIGITAL HOT WATER METER (OPTIONAL)	
REPLACEN		MSB00-7500004	MSB01-0000001	MSB01-0000004	PBF00-5000001	MSB00-5000005	ELB00-5000016	ELP00-0000000	SP999-9900006	SP988-8800003	ELB01-0000014	ELP00-0000000	SP999-9900008	SP988-8800003	PBB00-7500018	ELB00-7500017	ELB00-7500015	ELP00-0000000	SP999-9900004	SP988-8800002	ELB00-7500018	
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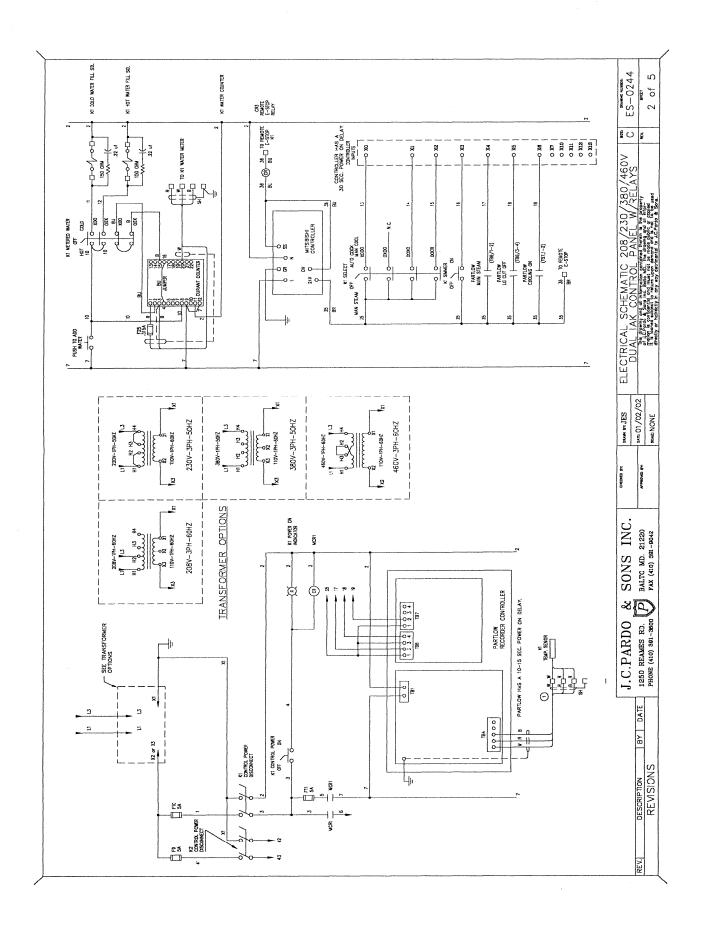
J.C.PARDO & SONS INC.
1250 REAMES RD. POR PROVE (410) S91-2600 DESCRIPTION BY DATE
REVISIONS

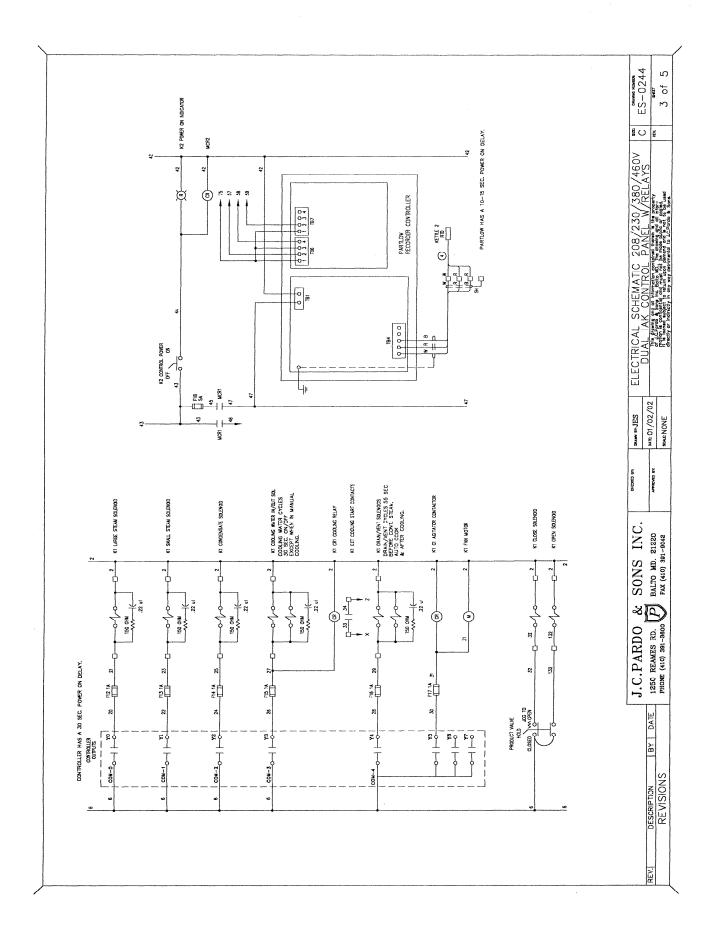
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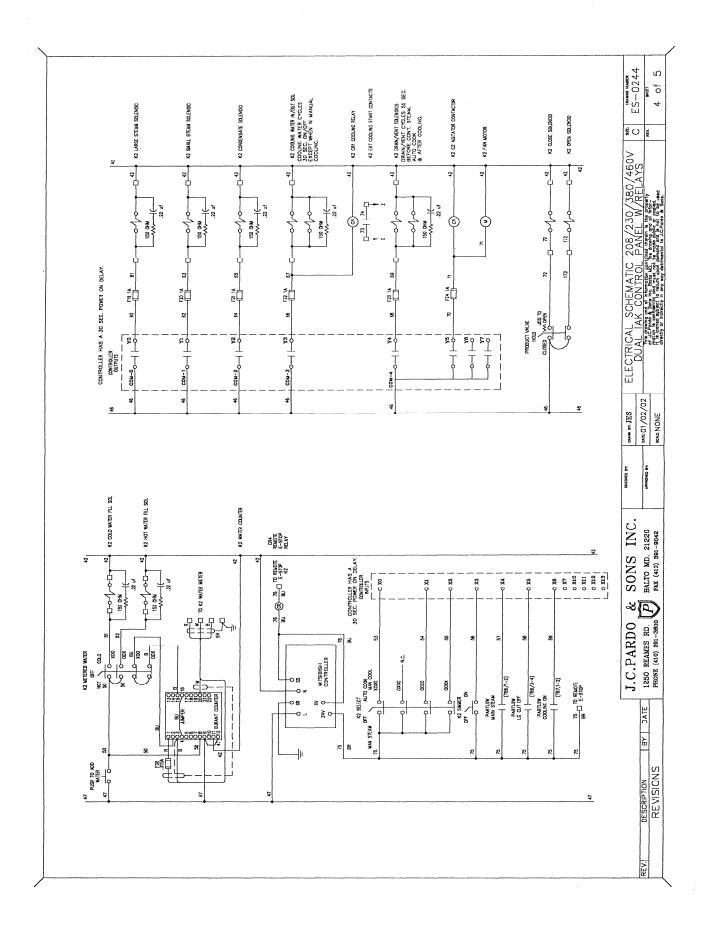
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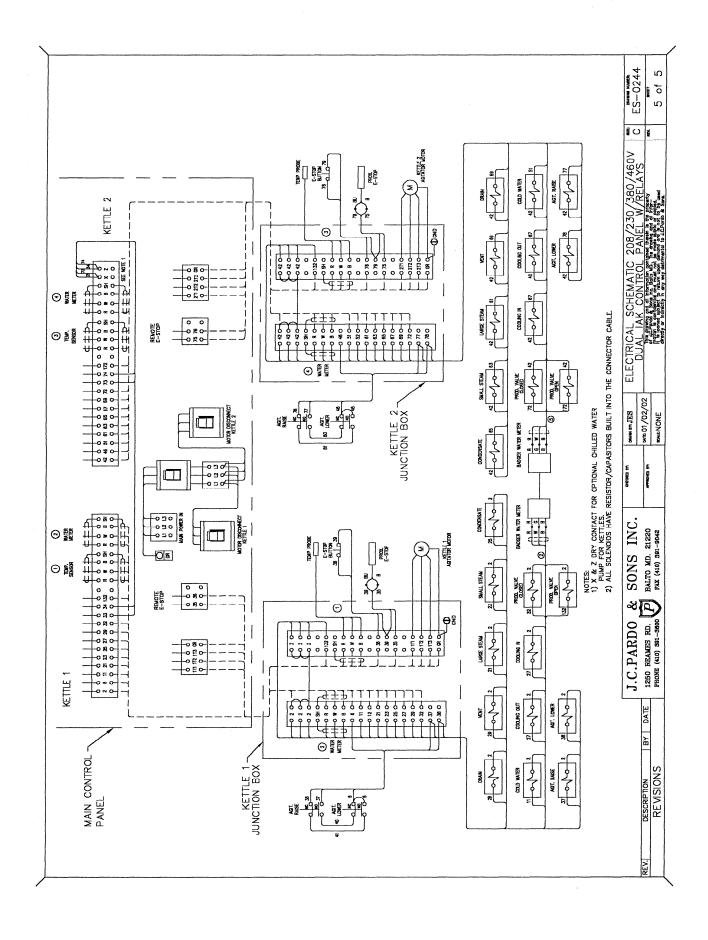
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INCLINED AGITATOR KETTLE OPERATING AND CLEANING INSTRUCTIONS

OPERATING INSTRUCTIONS

Your kettle has been equipped with a control panel that has some or all of the following functions:

- 12. Main POWER switch
- 13. Temperature control
- 14. 24 hour chart recorder
- 15. KETTLE RUN push button
- 16. Agitator speed control with variable settings
- 17. Agitator STOP/START
- 18. Potable water meter with OFF/ON switch and push button to add water
- 19. Manual COOL water switch
- 20. Kettle selector switch for CONTINUOUS, OFF, COOK
- 21. SIMMER switch
- 22. Product VALVE OPEN/CLOSED

Operating the Kettle

- 10. To operate the system the main power switch on the control panel must be turned on. The temperature control computer will run through its diagnostics for about one minute.
- 11. To set desired temperature, turn switch to COOK. This activates the temperature controller. The temperature displayer and the actual temperature will appear. To change the temperature set point, press the push button with "+" to raise or increase the temperature or press the button with "-" to decrease or lower the temperature.
- 12. Push the button marked KETTLE RUN and the steam will come on to heat the kettle and its contents until the set point temperature is reached. It will cycle off and on to maintain the set point temperature.
- 13. To start the agitator, press the button marked AGITATOR START and a green light will indicate the agitator is on.
- 14. To stop the agitator, press the red AGITATOR STOP mushroom button.
- 15. To change the speed of the agitator, turn the SPEED CONTROL knob to the right to increase the speed or to the left to decrease the speed. As a safety precaution, always turn the speed to "0" when kettle is not in use and before use.
- 16. To add ingredients to the kettle, push AGITATOR STOP button. Steam heating will continue in the jacket and the agitator must be started again as soon as possible or product might burn on the surface of the kettle.
- 17. CONTINUOUS STEAM is a manual override allowing steam into the kettle but with no temperature control.
- 18. SIMMER allows maintenance to the set point temperature but gently introduces heat into the kettle.



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Ready to pump food out of kettle (Metering Filling Station, MFS, should be connected to the kettle during the sanitation process)

- 6. Foods must be cooked to a minimum of 165°F to kill dangerous pathogens and must be at least this temperature when it casings are filled. Set temperature on the control panel to at least 165°F before pumping.
- 7. Pump food through MFS to heat hoses and MFS parts until at least 165°F can be maintained when product exits the MFS. Product may be poured back into the kettle for reheating before pumping.
- 8. Put down cover of kettle to maintain heat and to maintain a moist atmosphere in the kettle which will make cleaning easier.
- 9. Pump and empty the kettle as quickly as possible to prevent over-cooking of product and to maintain quality, consistency and temperature.
- 10. Temperature may be turned OFF or placed on SIMMER when kettle product reaches the steam jacketed area to reduce chances of burning while pumping.

To cool and blend products without heat

- 4. Turn the main power switch to ON.
- 5. Turn the MANUAL WATER COOLING switch to ON. This will start the flow of cold water from the ice builder into the jacket of the kettle. When in this mode the temperature controller will read the temperature of the product only and serve no other function.
- 6. When cooking a product that is too hot, MANUAL COOLING can be used. Turn on MANUAL COOLING. When sufficient cooling has been achieved, turn the switch off. The kettle jacket will drain and steam will automatically come on to continue cooking if the set point has not been lowered.

To add Potable water to the kettle

- 6. Faucet handle must be completely open and the main power must be on.
- 7. Set point the volume of water needed by changing the digits on the meter.
- 8. Turn METERED WATER switch to ON. Water will begin filling the desired number of gallons and stop automatically. The amount of water that has been metered can be read above the set point.
- 9. Additional water may be metered by resetting meter and will accumulate on the meter as long as it is not turned off.
- 10. Additional water may be added by pressing the black button marked PUSH TO ADD MORE WATER.

CLEANING INSTRUCTIONS

As with all equipment that has electrical components, care must be exercised when using water and chemicals to clean food service equipment. Use a mild detergent following instructions of the chemical manufacturer. Do not spray water on electrical control panel or components. Do not use harsh or caustic chemicals, especially on o-rings and gaskets.



- 7. Rinse out food debris from the kettle and flush through the metering filling station (MFS or food pump) if they are still connected. If the kettle is not connected to the food pump, open the valve and allow rinse water to flush into the floor drain.
- 8. Remove agitator arm:
 - a. Rotate the agitator until the pull pin is visible.
 - b. Turn power to OFF as a safety precaution.
 - c. Pull quick release pin out.
 - d. Slide coupling upward.
 - e. Carefully lift agitator, pull back and lift out.
 - f. Remove scraper blades from agitator by using the spring removal tool provided with the kettle.
 - g. Wash agitator arm, scraper blades, and springs with mild dish detergent or in dish machine. Air dry.
- 9. Wash the inside of the kettle with a mild dish detergent as you would any pot or pan. Flush liquid through MFS or by opening the valve. Rinse thoroughly. Allow to air dry.
- 10. Open kettle valve. Remove the valve and tee from the bottom of the kettle by removing the clamp. Remove o-rings. Wash and dry thoroughly. When reinstalling the valve, apply USDA approved food grade grease (Chesterton 622 or equal) to o-rings. Gently push tee and valve body in place and secure with clamps.
- 11. Remove temperature sensor probe by removing clamp. Slide sensor out of seal holder. Remove o-rings. Clean sensor, seal and o-rings. Before re-installing, apply a liberal amount of USDA approved food grade grease on o-rings.

REASSEMBLY

- 1. Install scraper blades with springs on agitator arm.
- 2. Lift agitator arm into kettle, set in place by the drive shaft and slide the slip collar or coupling into place and put quick release pin into both.
- 3. Turn Control Power on. Grease o-rings for the valve and install o-rings.
- 4. To assemble the valve actuator and stem: a. reconnect the air line, b. place stem in valve actuator, c. apply pressure to the tope of the stem, d. while applying pressure to the stem have someone turn the valve switch to the open position. The stem should lower into the actuator.
- 5. Attach tee pipe to bottom of kettle with clamp.
- 6. Attach valve actuator to the tee with clamp.
- 7. Turn product valve switch to the closed position and kettle valve will close.
- 8. Grease o-rings for the temperature probe and install o-rings on synthetic seal holder.
- 9. Slide temperature probe into seal holder.
- 10. Slide both into opening in kettle and attach with clamp.



DAILY PRE-START UP

- 4. The operator must check the kettle, springs and scraper blades for proper installation before turning kettle on.
- 5. Make sure the connecting coupling from the drive shaft to the agitator is properly installed with the quick release pin fully engaged.
- 6. Label and place clean chart on chart recorder.

If the above cannot be achieved, call your maintenance supervisor or service contractor before proceeding.



PREVENTIVE MAINTENANCE

COOK/CHILL MIXER & PASTA KETTLES

A. **AUTOMATIC DUMP VALVE**

Weekly

- Check air collector regulator for moister, dirt, and proper pressure
- Check all orings and seals and gaskets
- Check valve operation
- Lubricate with light oil when needed
- Check air hose for leaks or signs of wear

B. TILT MECHANISM (Hydraulic Tilt)

Weekly

- Check for leaks
- Check for smooth operation
- Check switches

Yearly

Change hydraulic fluid every two years. (1 1/2 gallons of FOOD GRADE hydraulic fluid) (Shell Telis #5)

(Electric Tilt)

Weekly

- Check for smooth operation
- Check switches

Monthly

- Check for movement in mechanism
- Grease trunnions monthly (Food Grade Grease)

C. AIR PRESSURE

Weekly

- 45 psi dump valve 15 psi for jacket purge
- Air must be clean and dry
- Check all air lines & fittings for leaks

D. STEAM TRAP

Monthly

Check proper operation



PREVENTIVE MAINTENANCE

COOK/CHILL MIXER & PASTA KETTLES (continued)

E. **SAFETY VALVE**

Weekly

- Check for leakage
- Steam pressure 65 psi. max.
- Safety set at 100 psi.

F. LEAKS

Weekly

- Check for leaks of any type (water - steam - hydraulic) (Leaks take away from performance and will lead to costly repair)

G. Control Panels

Weekly

- Signs of water damage
- Check operation of all controls
- Water meter operation
- Temp read outs
- Temp charting
- Temp controlling
- RTD adjustments
- Mixer operation & speed control
- Gentle heat operation
- product valve operation



IA-MKDL-60-CC

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (_" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- · Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- · Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi, rating
- Check for steam leaks (<u>Inlets and Returns</u>)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (<u>controlling</u>, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- · Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners



IA-MKDL-100-CC

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- · Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (_" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (<u>15psi.</u>)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- · Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- · Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- · Check the operation of safety valve 100psi. rating
- Check for steam leaks (<u>Inlets and Returns</u>)
- Check for the proper clearance where drive shaft penetrates the kettle
- · Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (<u>Food grade grease</u>)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (controlling, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners



IA-MKDL-150-CC

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- · Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (_" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- · Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- · Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi. rating
- Check for steam leaks (<u>Inlets and Returns</u>)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- · Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (<u>controlling</u>, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- · Check kettle cover hinge tension and fasteners



IA-MKDL-200-CC

- · Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- · Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (<u>" line 1cfm @ 90psi.</u>)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- · Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- · Check the operation of safety valve 100psi. rating
- Check for steam leaks (<u>Inlets and Returns</u>)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- · Check the control panel for any signs of corrosion moisture
- · Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (controlling, reading, and charting correctly)
- · Check the cooking operation in both automatic and in manual modes
- · Check the operation of gentle heat mode
- Check the operation of the chill mode
- · Check kettle cover hinge tension and fasteners



IA-MKDL-300-CC

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- · Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (_" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- · Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- · Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- · Check the operation of safety valve 100psi. rating
- Check for steam leaks (<u>Inlets and Returns</u>)
- Check for the proper clearance where drive shaft penetrates the kettle
- · Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- · Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (controlling, reading, and charting correctly)
- · Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners