INSTALLATION/OPERATION & TECHNICAL MANUAL

FOR JACKSON MODELS:

AJ-44CE	**AJ-66CE**	**AJ-80CE**
AJ-44CEL	**AJ-66CEL**	**AJ-80CEL**
AJ-44CGP	**AJ-66CGP**	**AJ-80CS**
AJ-44CS	**AJ-66CS**	**AJ-80CSL**
AJ-44CSL	**AJ-66CSL**	

October 9, 2009
P/N 07610-001-76-22 (Revision I)

Jackson MSC LLC.
P.O. Box 1060
Barbourville, KY. 40906
(606) 523-9795
Fax: (606) 523-9196
www.jacksonmsc.com

MANUFACTURERS WARRANTY

ONE YEAR LIMITED PARTS & LABOR WARRANTY

ALL NEW JACKSON DISHWASHERS ARE WARRANTED TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIAL OR WORKMANSHIP, UNDER NORMAL USE AND OPERATION FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF PURCHASE, BUT IN NO EVENT TO EXCEED (18) EIGHTEEN MONTHS FROM THE DATE OF SHIPMENT FROM THE FACTORY.

Jackson MSC agrees under this warranty to repair or replace , at its discretion, any original part which fails under normal use due to faulty material or workmanship during the warranty period, providing the equipment has been unaltered, and has been properly installed, maintained and operated in accordance with the applicable factory instruction manual furnished with the machine and the failure is reported to the authorized service agency within the warranty period. This includes the use of factory specified genuine replacement parts, purchased directly from a Jackson authorized parts distributor or service agency. Use of generic replacement parts may create a hazard and void warranty certification.

The labor to repair or replace such failed part will be paid by Jackson MSC, within the continental United States, Hawaii and Canada, during the warranty period provided a Jackson MSC authorized service agency, or those having prior authorization from the factory, performs the service. Any repair work by persons other than a Jackson MSC authorized service agency is the sole responsibility of the customer. Labor coverage is limited to regular hourly rates, overtime premiums and emergency service charges will not be paid by Jackson MSC.

Accessory components not installed by the factory carry a (1) one year parts warranty only. Accessory components such as table limit switches, pressure regulators, pre rinse units, etc. that are shipped with the unit and installed at the site are included. Labor to repair or replace these components is not covered by Jackson MSC.

This warranty is void if failure is a direct result from shipping, handling, fire, water, accident, misuse, acts of god, attempted repair by unauthorized persons, improper installation, if serial number has been removed or altered, or if unit is used for purpose other than it was originally intended.

TRAVEL LIMITATIONS

Jackson MSC limits warranty travel time to (2) two hours and mileage to (100) one hundred miles. Jackson MSC will not pay for travel time and mileage that exceeds this, or any fees such as those for air or boat travel without prior authorization.

WARRANTY REGISTRATION CARD

The warranty registration card supplied with the machine must be returned to Jackson MSC within 30 days to validate the warranty.

REPLACEMENT PARTS WARRANTY

Jackson replacement parts are warranted for a period of 90 days from the date of installation or 180 days from the date of shipment from the factory, which ever occurs first.

PRODUCT CHANGES AND UPDATES

Jackson MSC reserves the right to make changes in design and specification of any equipment as engineering or necessity requires.

THIS IS THE ENTIRE AND ONLY WARRANTY OF JACKSON MSC. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE, WITH RESPECT TO THE GOODS OR SERVICES COVERED HEREUNDER, SHALL IN NO CASE EXCEED THE PRICE OF THE GOODS OR SERVICES OR PART THEREOF WHICH GIVES RISE TO THE CLAIM.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FOR FITNESS OR MERCHANTABILITY, THAT ARE NOT SET FORTH HEREIN, OR THAT EXTEND BEYOND THE DURATION HEREOF. UNDER NO CIRCUMSTANCES WILL JACKSON MSC BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, OR FOR THE DAMAGES IN THE NATURE OF PENALTIES, ARISING OUT OF THE USE OR INABILITY TO USE ANY OF ITS PRODUCTS.

ITEMS NOT COVERED

This warranty does not cover cleaning or deliming of the unit or any component such as, but not limited to, wash arms, rinse arms or strainers at anytime. Nor does it cover adjustments such as, but not limited to timer cams, thermostats or doors, beyond 30 days from the date of installation. In addition, the warranty will only cover the replacement of wear items such as curtains, drain balls, door guides or gaskets during the first 30 days after installation. Also, not covered are conditions caused by the use of incorrect (non-Commercial) grade detergents, incorrect water temperature or pressure, or hard water conditions.

CALL 1-888-800-5672 TO REGISTER THIS PRODUCT!
FAILURE TO DO SO WILL VOID THE WARRANTY!

LLAME AL 1-888-800-5672 PARA REGISTRAR ESTE PRODUCTO!
AL NO HACERLO LA GARANTIA SERA ANULADA!

S.V.P. APPELER 1-888-800-5672 POUR ENREGISTRER CE PRODUIT,
LA GARANTIE SERA ANNULEE POUR TOUT PRODUIT NON- ENREGISTREE

REVISION/ PAGE	REVISION DATE	MADE BY	APPLICABLE ECN	DETAILS
D	05-14-2004	CBW	N/A	Added exhaust fan hook-up schematic.
E	03-08-2005	MAW	7096	Updated installation instructions. Added 3 instruction sheets for limit switches. Added instruction sheet for curtain installation. Changed layout.
F	01-13-2006	CBW	7470	Added service kits and maintenance instructions.
G	01-26-2006	MAW	7600	Added Gas Exhaust Fan Schematic & component kits.
H	03-21-2006	MAW	7571, 7558 7634	Added themostat replacement kits. Added vent cowl assembly for hooded side loader. Replaced rinse drain weldment. Added scrap basket strainer kit.
98	04-19-2007	MAW	7898	Added 09905-003-32-20 fan load decal to the exhaust fan control kit. Added warranty pages and service centers listings.
35 & 36	05-03-2007	MAW	7913	Added instructions and all necessary information for change of sanitization mode.
5 thru 22, 111	08-29-2007	MAW	N/A	Updated dimension pages. Removed alternate table limit switches.
I	10-09-2009	KJS	8044	Changed the part from a weldment (05700-021-67-50) to a casting (09515-003-58-12).

NOMENCLATURE FOR THE MODELS COVERED IN THIS MANUAL

AJ-44CSL

AJ = AJ series of rack conveyors

44 = 44” wide machine
66 = 66” wide machine
80 = 80” wide machine

CE = Electrically heated, hot water sanitizing machine
CEL = Electrically heated, chemical sanitizing machine
CS = Steam heated, hot water sanitizing machine
CSL = Steam heated, chemical sanitzing machine
CGP = Gas heated, hot water sanitizing machine

Model:_____

Serial No.:_____

Installation Date:_____

Service Rep. Name:_____

Phone No.:_____

Jackson MSC LLC. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

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SECTION 1:
SPECIFICATION INFORMATION

SECTION 1: SPECIFICATION INFORMATION

OPERATING CHARACTERISTICS

RACKS PER HOUR:	
AJ-44-66-80CE/CS/CGP	248
AJ-44-66-80CEL/CSL	234
DISHES OR GLASSES PER HOUR:	
AJ-44-66-80CE/CS/CGP	6200
AJ-44-66-80CEL/CSL	5850
PREWASH TANK CAPACITY (GALLONS):	
AJ-66CE/CEL/CS/CSL/CGP	16
AJ-80CE/CEL/CS/CSL/CGP	16
WASH TANK CAPACITY (GALLONS):	
AJ-44-66-80CE/CS/CGP	15.4
PREWASH PUMP CAPACITY (GPM):	
AJ-66CE/CEL/CS/CSL/CGP	120
AJ-80CE/CEL/CS/CSL/CGP	270
WASH PUMP CAPACITY	
GALLONS PER MINUTE (ALL MODELS):	270
VENTING REQUIREMENTS (CFM)(100% CAP.):	
INPUT END	200
OUTPUT END	400
TOTAL	600
CONVEYOR SPEED (FPM):	
AJ-44-66-80CE/CS/CGP MACHINES	6.9
AJ-44-66-80CEL/CSL MACHINES	6.5
GALLONS PER RACK:	
AJ-44-66-80CE/CS/CGP MACHINES	.94
AJ-44-66-80CEL/CSL MACHINES	1.00
WATER TEMPERATURES:	
AJ-44-66-80CE/CS/CGP MODELS:	
PREWASH (RECOMMENDED)	110-140°F
WASH (MINIMUM)	160°F
RINSE (MINIMUM)	180°F
AJ-44-66-80CEL/CSL MODELS:	
PREWASH (RECOMMENDED)	110-140°F
WASH (MINIMUM)	140°F
RINSE (MINIMUM)	140°F
FLOW PRESSURE (PSI)	20 ± 5
FLOWRATE (GPM):	
AJ-44-66-80CE/CS/CGP	3.9
AJ-44-66-80CEL/CSL	3.9
MINIMUM CHLORINE (PPM)	
AJ-44-66-80CEL/CSL MODELS ONLY:	50

STEAM COIL TANK HEAT (CS/CSL MODELS ONLY):	
STEAM INLET PRESSURE (PSIG)	10-20
STEAM CONNECTION NPT	3/4”
CONSUMPTION @ 15 PSIG (lbs/hr):	
AJ-44-66-80CS/CSL	60
MOTOR ELECTRICAL CHARACTERISTICS:	
DRIVE MOTOR HP	1/4
WASH MOTOR HP	2
POWER RINSE MOTOR HP	2
PREWASH MOTOR HP:	
AJ-66 MODELS	1
AJ-80 MODELS	2

NOTE: Typical Electrical Circuit is based upon (1) 125% of the full amperage load of the machine and (2) typical fixed-trip circuit breaker sizes as listed in the NEC 2002 Edition. Local codes may require more stringent protection than what is displayed here. Always verify with your electrical service contractor that your circuit protection is adequate and meets all applicable national and local codes. These numbers are provided in this manual simply for reference and may change without notice at any given time.

SECTION 1: SPECIFICATION INFORMATION

ELECTRICAL REQUIREMENTS

AJ-44CE/CEL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	55 A	70 AMP
220	3	50	49 A	70 AMP
230	3	50	51 A	70 AMP
380	3	50	29 A	40 AMP
415	3	50	28 A	35 AMP
440	3	50	28 A	35 AMP
208	1	60	83 A	110 AMP
230	1	60	76 A	100 AMP
200	3	60	47 A	60 AMP
208	3	60	49 A	70 AMP
230	3	60	45 A	60 AMP
380	3	60	29 A	40 AMP
460	3	60	23 A	30 AMP
600	3	60	19 A	25 AMP

AJ-66CE/CEL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	58 A	80 AMP
220	3	50	53 A	70 AMP
230	3	50	54 A	70 AMP
380	3	50	31 A	40 AMP
415	3	50	34 A	45 AMP
440	3	50	33 A	45 AMP
208	1	60	89 A	125 AMP
230	1	60	82 A	110 AMP
200	3	60	51 A	70 AMP
208	3	60	52 A	70 AMP
230	3	60	48 A	60 AMP
380	3	60	31 A	40 AMP
460	3	60	24 A	30 AMP
600	3	60	22 A	30 AMP

AJ-44CGP MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	12 A	15 AMP
230	1	60	11 A	15 AMP
208	3	60	8 A	15 AMP
230	3	60	7 A	15 AMP
460	3	60	5 A	15 AMP

AJ-66CGP MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	17 A	15 AMP
230	1	60	17 A	15 AMP
208	3	60	11A	15 AMP
230	3	60	11A	15 AMP
460	3	60	6 A	15 AMP

AJ-44CS/CSL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	13 A	20 AMP
220	3	50	13 A	20 AMP
230	3	50	13 A	20 AMP
380	3	50	6 A	15 AMP
415	3	50	7 A	15 AMP
440	3	50	6 A	15 AMP
208	1	60	11 A	15 AMP
230	1	60	11 A	15 AMP
200	3	60	7 A	15 AMP
208	3	60	7 A	15 AMP
230	3	60	7 A	15 AMP
380	3	60	6 A	15 AMP
460	3	60	4 A	15 AMP
600	3	60	4 A	15 AMP

AJ-66CS/CSL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	17 A	25 AMP
220	3	50	17 A	25 AMP
230	3	50	17 A	25 AMP
380	3	50	6A	15 AMP
415	3	50	7 A	15 AMP
440	3	50	6 A	15 AMP
208	1	60	18 A	25 AMP
230	1	60	18 A	25 AMP
200	3	60	12 A	15 AMP
208	3	60	12 A	15 AMP
230	3	60	12 A	15 AMP
380	3	60	12 A	15 AMP
460	3	60	7 A	15 AMP
600	3	60	7 A	15 AMP

AJ-80CE/CEL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	68 A	90 AMP
220	3	50	62 A	80 AMP
230	3	50	63 A	80 AMP
380	3	50	34 A	45 AMP
415	3	50	25 A	35 AMP
440	3	50	22 A	30 AMP
208	1	60	91 A	125 AMP
230	1	60	84 A	110 AMP
200	3	60	53 A	70 AMP
208	3	60	54 A	70 AMP
230	3	60	50 A	70 AMP
380	3	60	34 A	45 AMP
460	3	60	25 A	35 AMP
600	3	60	22 A	30 AMP

AJ-80CS/CSL MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	3	50	19 A	25 AMP
220	3	50	19 A	25 AMP
230	3	50	19 A	25 AMP
380	3	50	7 A	15 AMP
415	3	50	8 A	15 AMP
440	3	50	8 A	15 AMP
208	1	60	19 A	25 AMP
230	1	60	19 A	25 AMP
200	3	60	13 A	20 AMP
208	3	60	13 A	20 AMP
230	3	60	13 A	20 AMP
380	3	60	13 A	20 AMP
460	3	60	7 A	15 AMP
600	3	60	8 A	15 AMP

NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and may be subject to change without notice.

D226 STEAM BOOSTER

ELECTRICAL REQUIREMENTS:

VOLTAGE (V)	200-230
FREQUENCY (HZ)	50/60
PHASE	SINGLE

WATER REQUIREMENTS:

INCOMING WATER TEMPERATURE (MINIMUM)	110°F
FLOW PRESSURE (PSI)	20 ± 5

STEAM REQUIREMENTS:

INCOMING STEAM PRESSURE (PSIG)	15-25

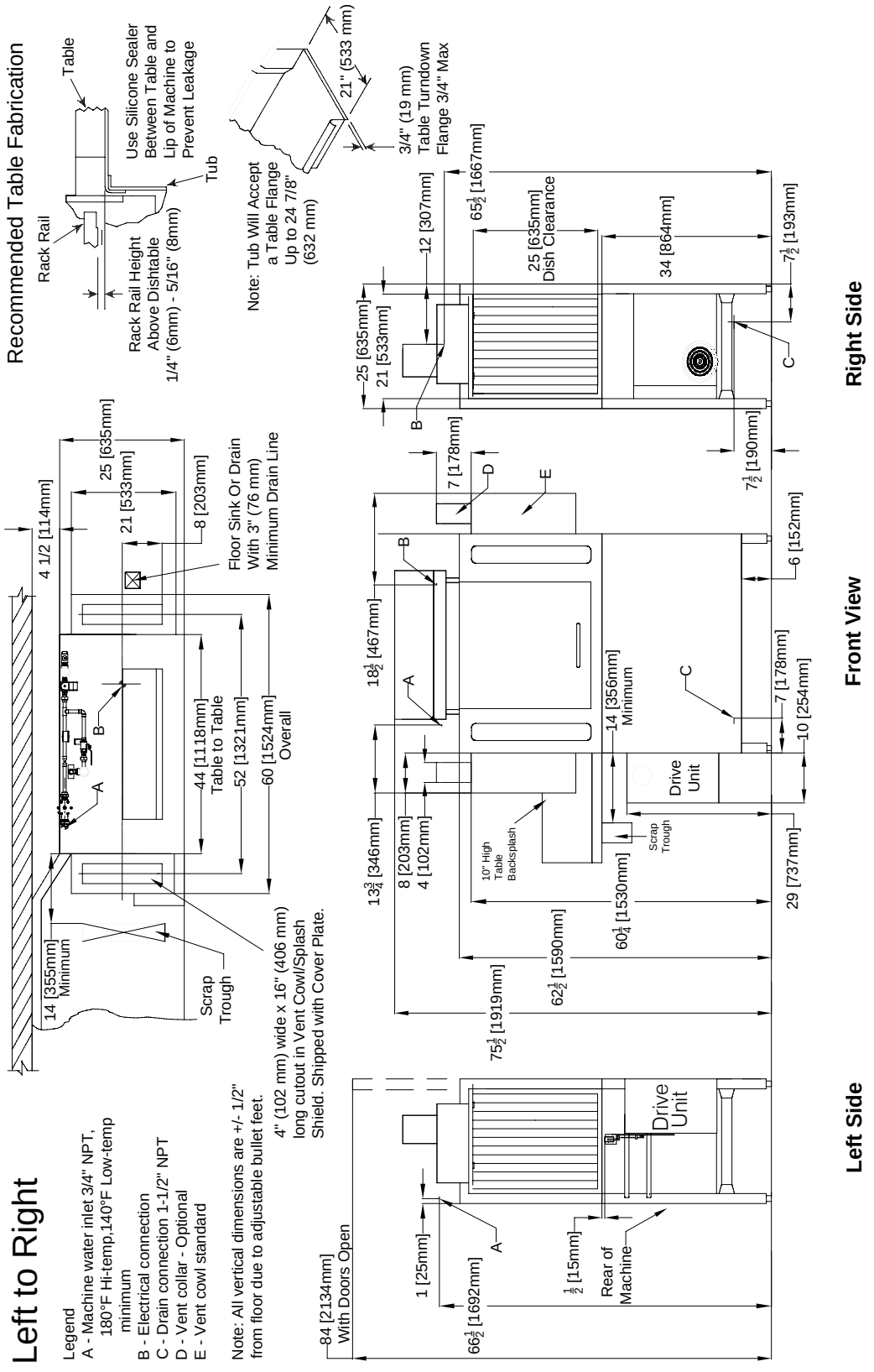
HEAT EXCHANGER SPECIFICATIONS:*

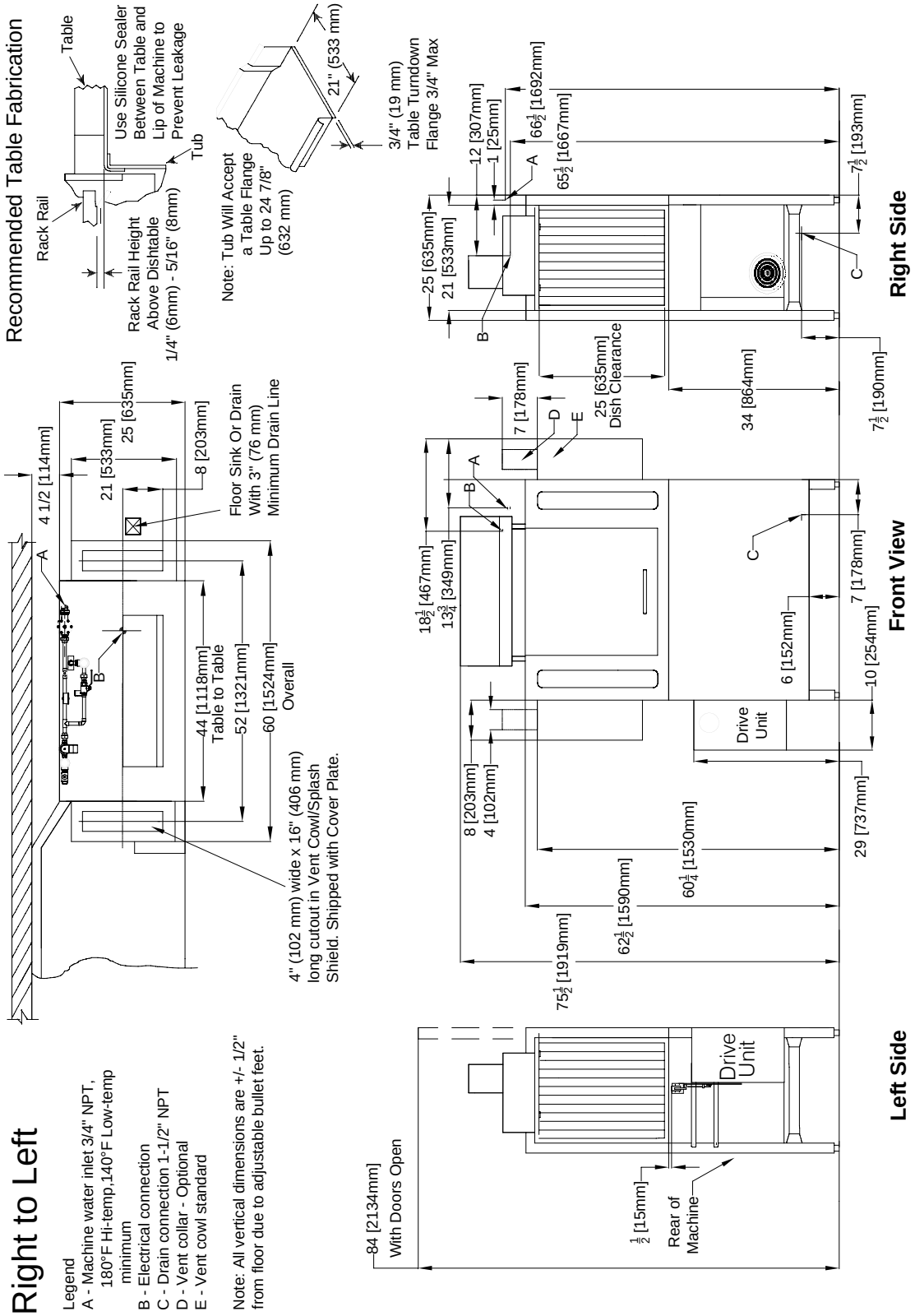
TUBESIDE WORKING PRESSURE (PSI)	125
SHELLSIDE WORKING PRESSURE (PSI)	125
TUBESIDE HYDROSTATIC TEST PRESSURE (PSI)	250
SHELLSIDE HYDROSTATIC TEST PRESSURE (PSI)	188
MAXIMUM OPERATING TEMPERATURE	295°F
MAXIMUM SHELLSIDE STEAM PRESSURE (PSI)	125

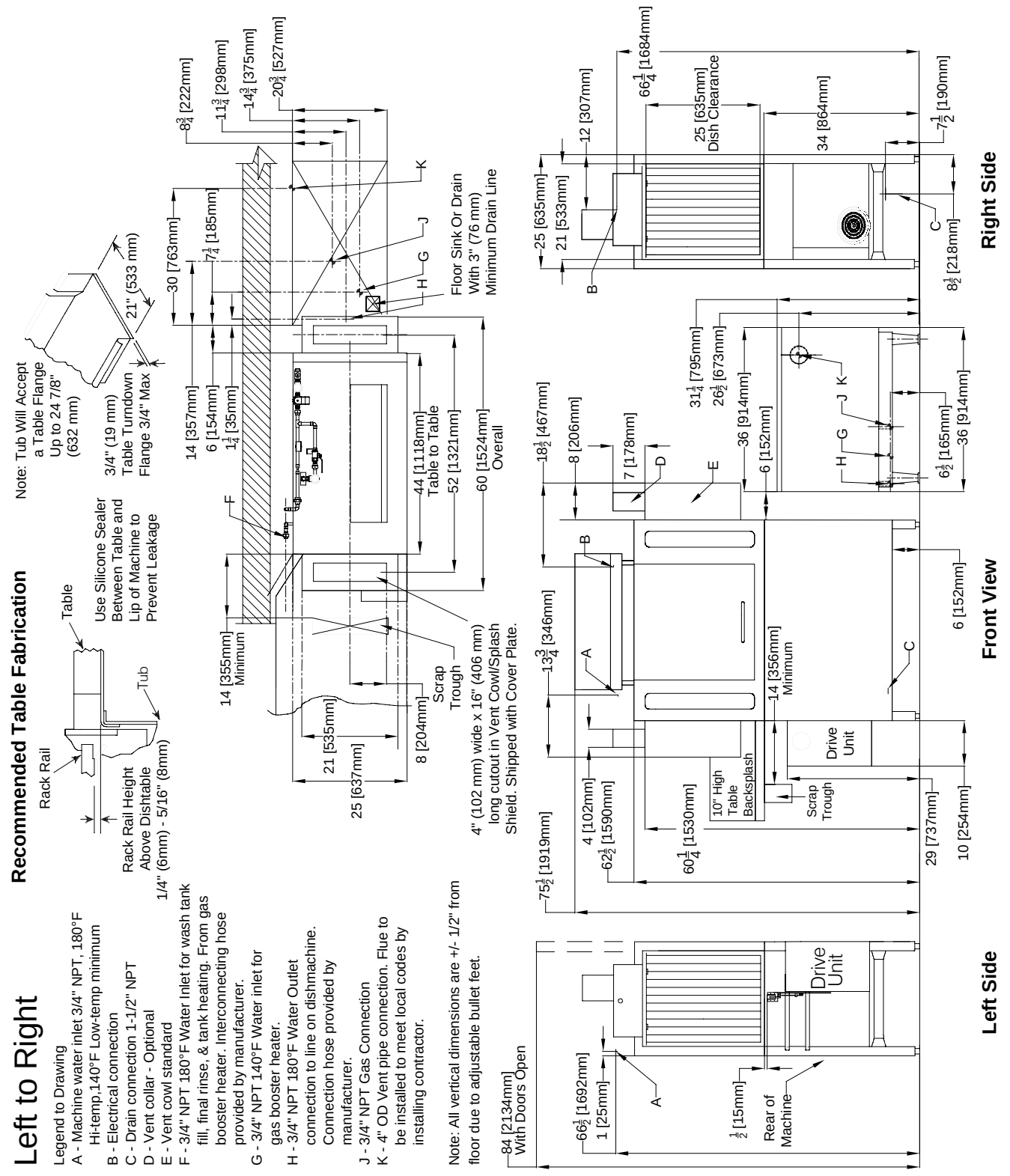
* - Indicates typical design criteria but is subject to change without notice. For more information, contact you authorized Jackson service representative.

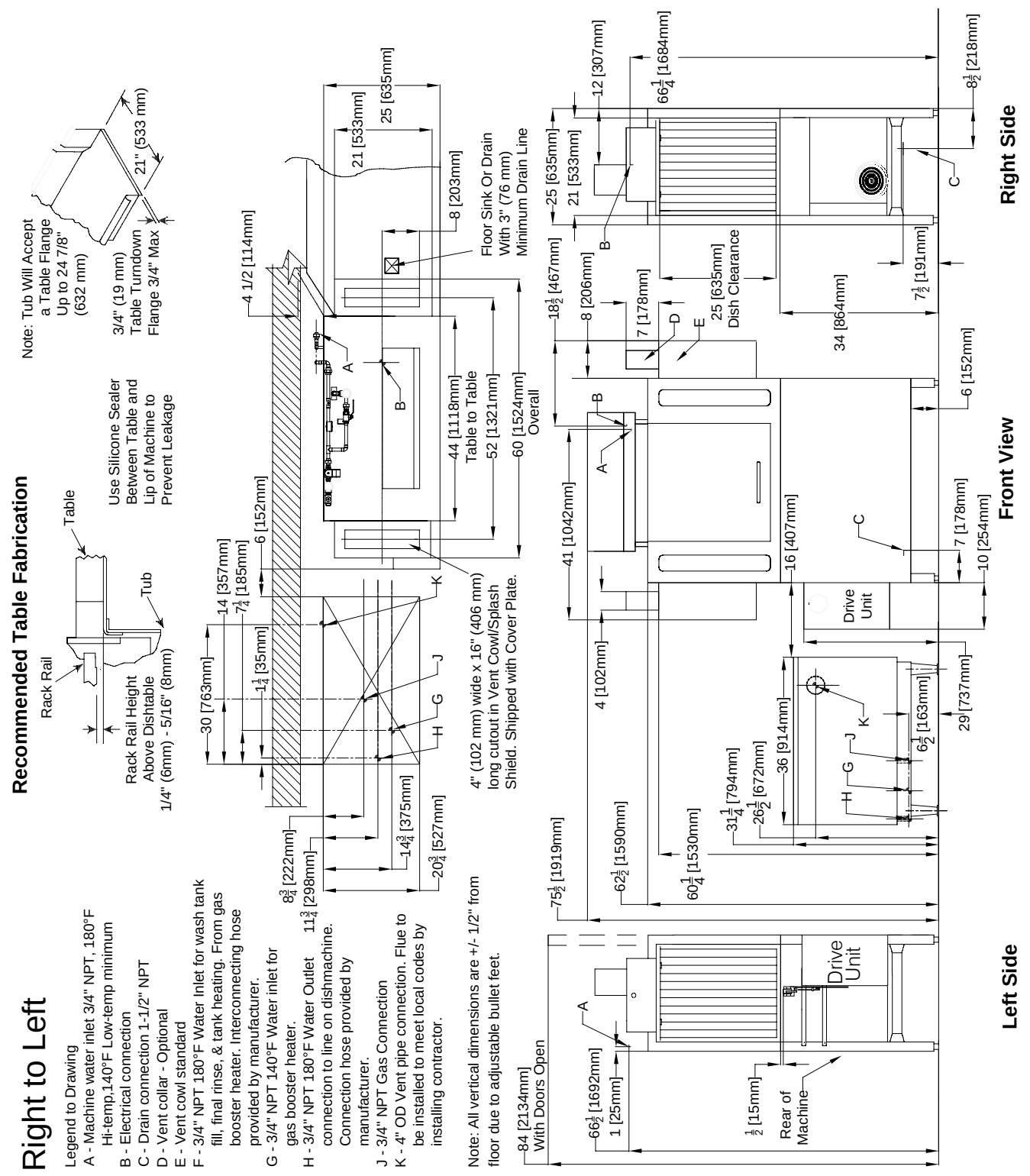
STEAM RELIEF VALVE SET PRESSURE (PSI): 50

WATER OUTLET SAFETY VALVE SET PRESSURE (PSI): 125

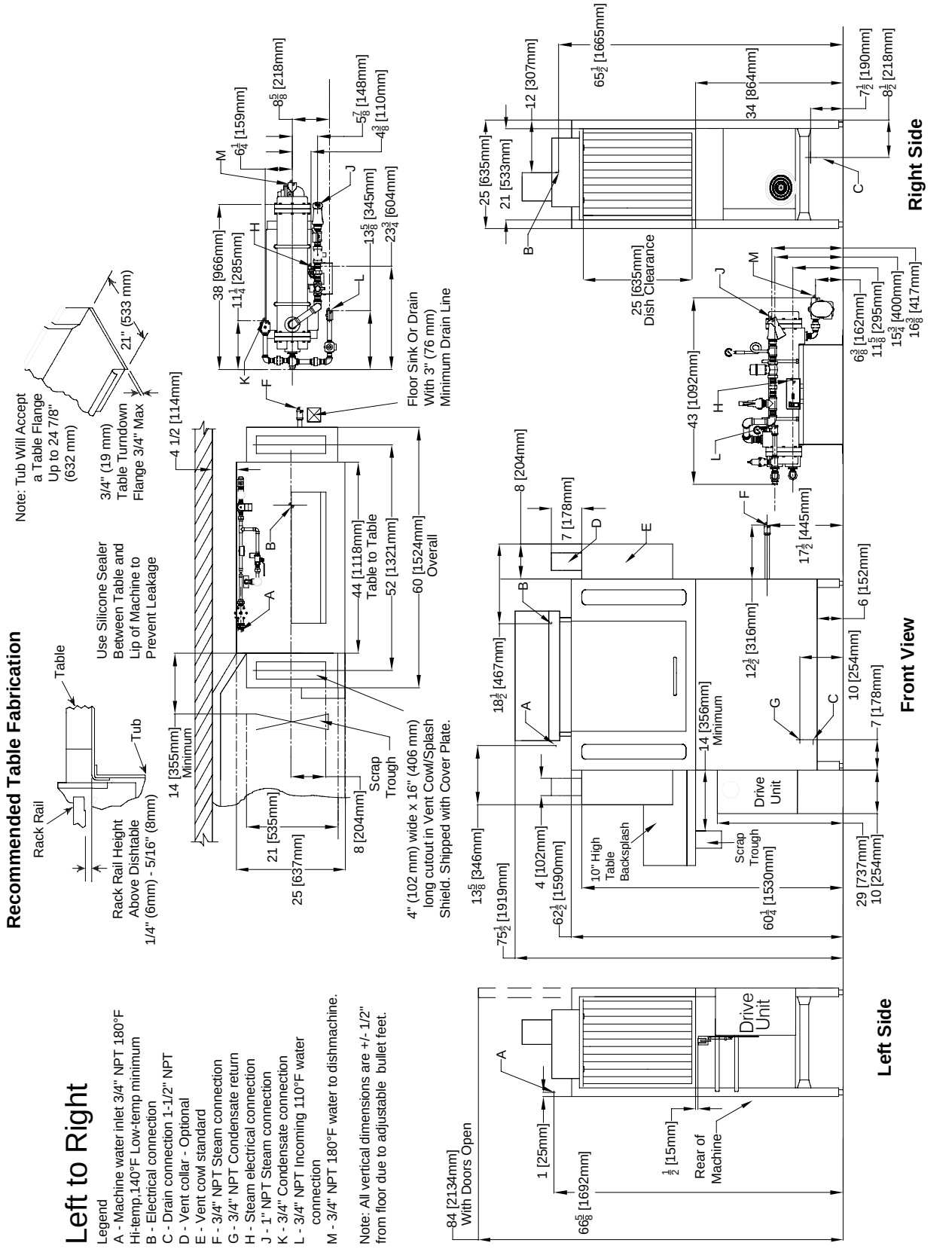

Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
21" (533 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Scrap Trough
14 [355mm] Minimum
4 1/2 [114mm]
25 [635mm]
21 [533mm]
8 [203mm]
44 [1118mm] Table to Table
52 [1321mm]
60 [1524mm] Overall
Left Side
Front View
Right Side
Drive Unit
Rear of Machine
84 [2134mm] With Doors Open
66½ [1692mm]
1 [25mm]
½ [15mm]
75½ [1919mm]
62½ [1590mm]
60¼ [1530mm]
13¾ [346mm]
8 [203mm]
4 [102mm]
10" High Table Backsplash
18½ [467mm]
14 [356mm] Minimum
29 [737mm]
7 [178mm]
10 [254mm]
6 [152mm]
7½ [190mm]
7½ [193mm]
65½ [1667mm]
12 [307mm]
25 [635mm] Dish Clearance
34 [864mm]
25 [635mm]
21 [533mm]


Recommended Table Fabrication
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
21" (533 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
4 1/2 [114mm]
21 [533mm]
25 [635mm]
8 [203mm]
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
44 [1118mm] Table to Table
52 [1321mm]
60 [1524mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
12 [307mm]
1 [25mm]
66½ [1692mm]
65½ [1667mm]
25 [635mm]
21 [533mm]
7½ [193mm]
7½ [190mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
18½ [467mm]
13¾ [349mm]
6 [152mm]
7 [178mm]
10 [254mm]
Drive Unit
8 [203mm]
4 [102mm]
60¼ [1530mm]
62½ [1590mm]
75½ [1919mm]
29 [737mm]
84 [2134mm] With Doors Open
½ [15mm]
Rear of Machine
Right Side
Front View
Left Side

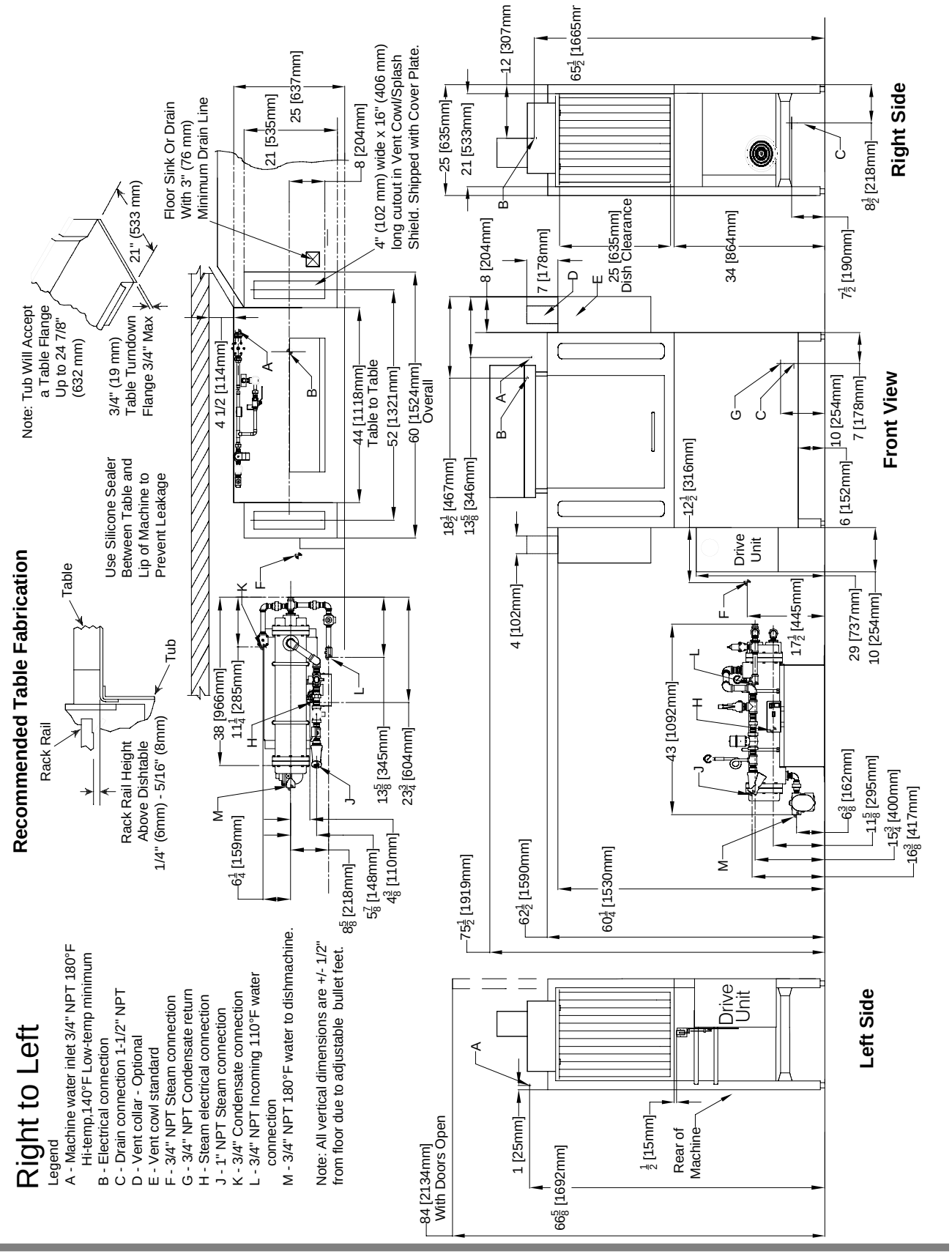

Left to Right
Recommended Table Fabrication
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
21" (533 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Scrap Trough
Left Side
Front View
Right Side
Drive Unit
Rear of Machine
10" High Table Backsplash
Scrap Trough
Minimum
Overall
Table to Table
With Doors Open
Dish Clearance


Right to Left
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp.140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Left Side
Front View
Right Side
Drive Unit
Rear of Machine
84 [2134mm] With Doors Open
75½ [1919mm]
62½ [1590mm]
60¼ [1530mm]
41 [1042mm]
4 [102mm]
66½ [1692mm]
1 [25mm]
½ [15mm]
30 [763mm]
14 [357mm]
7¼ [185mm]
6 [152mm]
1¼ [35mm]
4 1/2 [114mm]
8¾ [222mm]
11¾ [298mm]
14¾ [375mm]
20¾ [527mm]
44 [1118mm] Table to Table
52 [1321mm]
60 [1524mm] Overall
21 [533mm]
25 [635mm]
8 [203mm]
16 [407mm]
36 [914mm]
31¼ [794mm]
26½ [672mm]
6½ [163mm]
29 [737mm]
10 [254mm]
7 [178mm]
6 [152mm]
34 [864mm]
25 [635mm] Dish Clearance
18½ [467mm]
8 [206mm]
7 [178mm]
25 [635mm]
21 [533mm]
12 [307mm]
66¼ [1684mm]
7½ [191mm]
8½ [218mm]

AJ-44 STEAM - LEFT TO RIGHT



AJ-44 STEAM - RIGHT TO LEFT

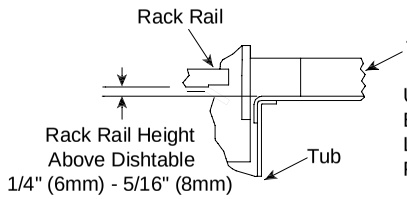


Left to Right

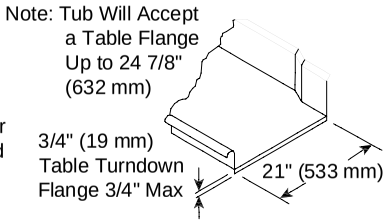
Legend
- A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
- B - Electrical connection
- C - Drain connection 1-1/2" NPT
- D - Vent collar - Optional
- E - Vent cowl standard
- F - Prewash water inlet 3/4" NPT 110°F-140°F
- G - Cold water thermostat plumbing connection 3/4" NPT - Optional

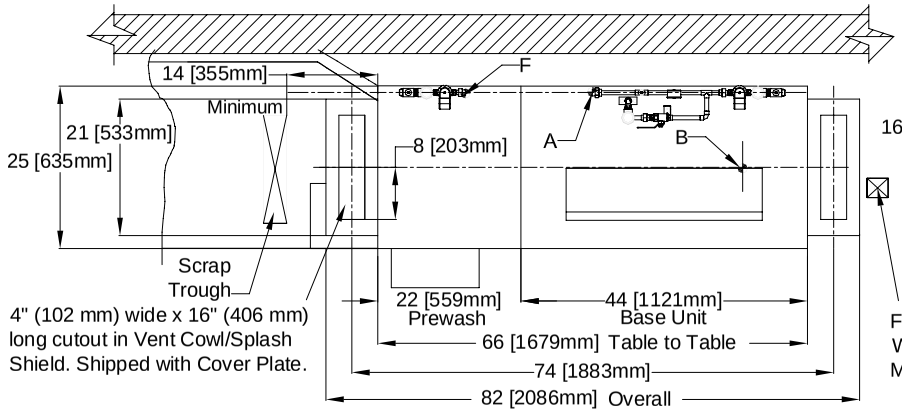
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.

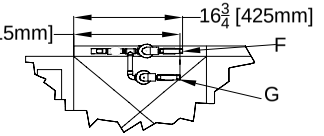
Recommended Table Fabrication



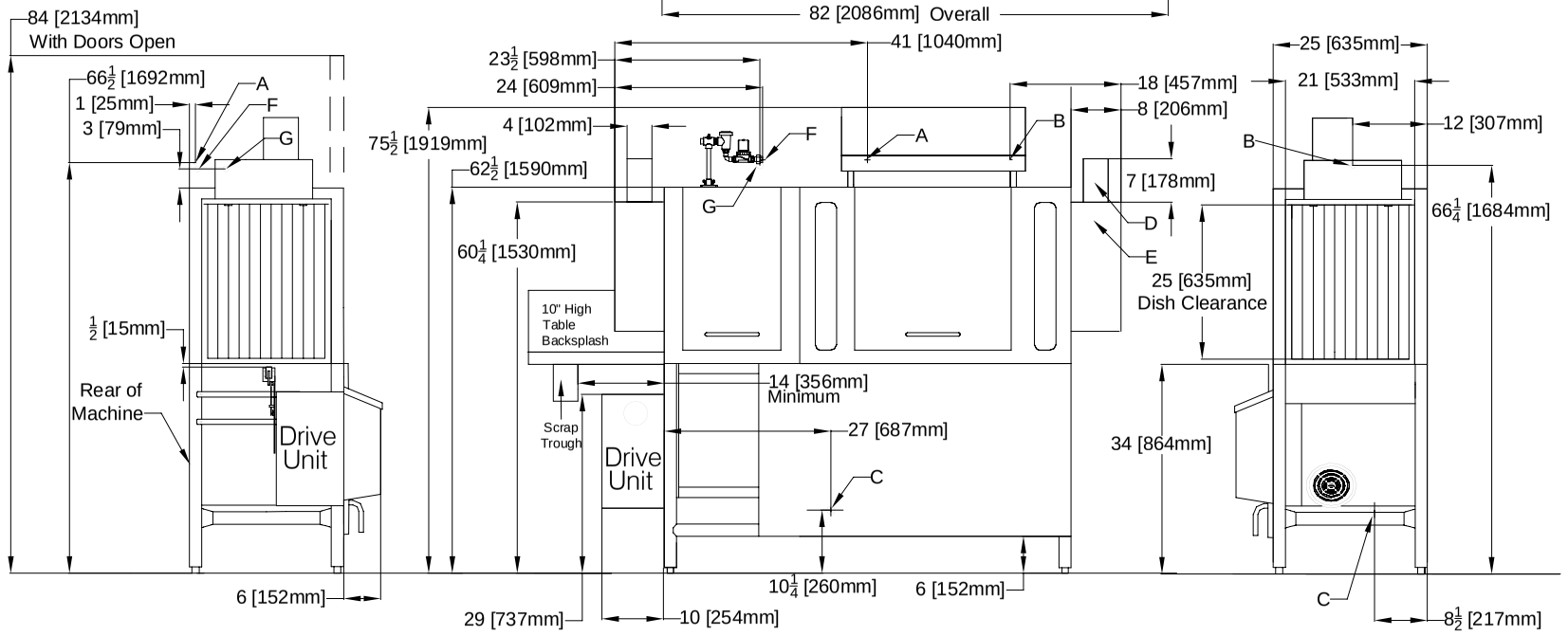
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage



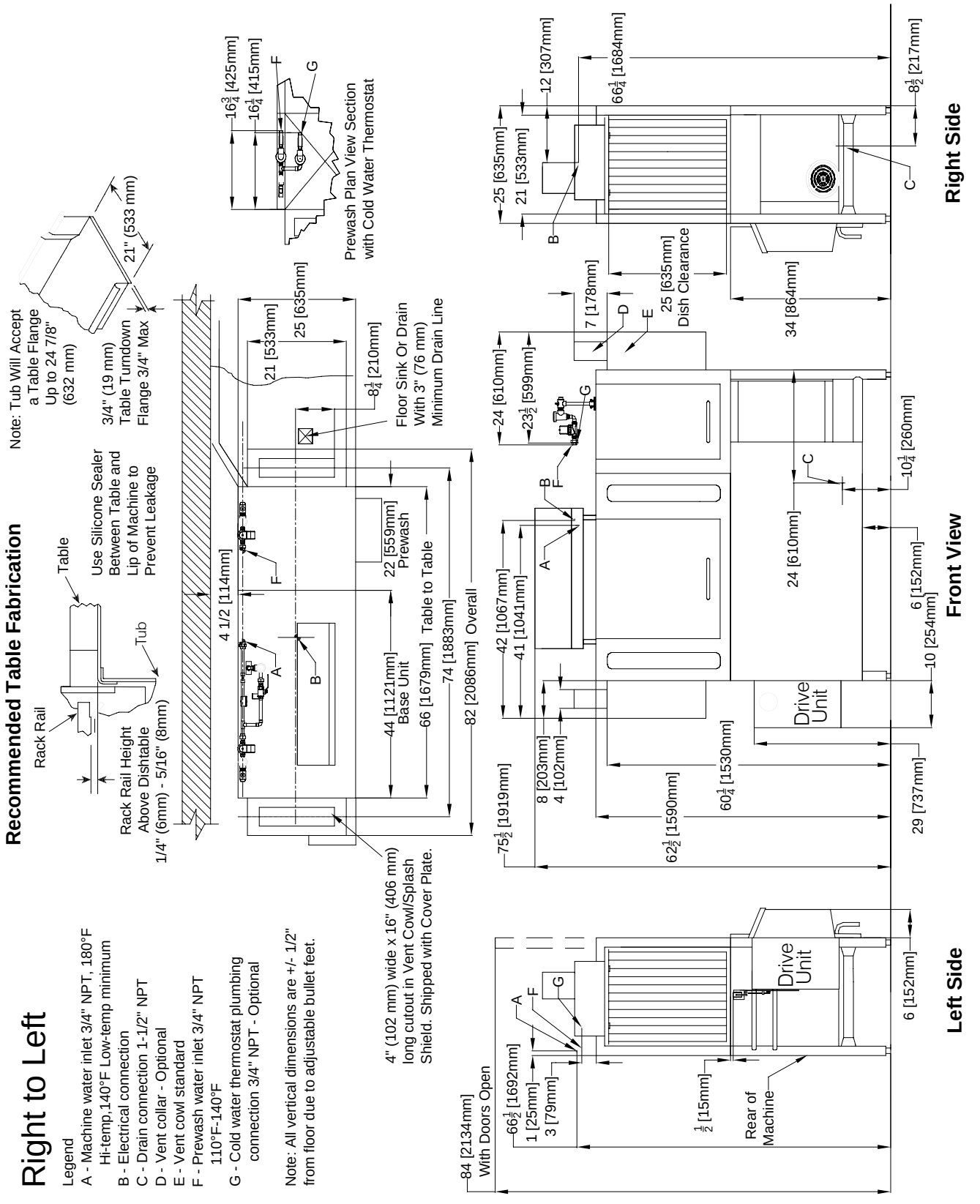


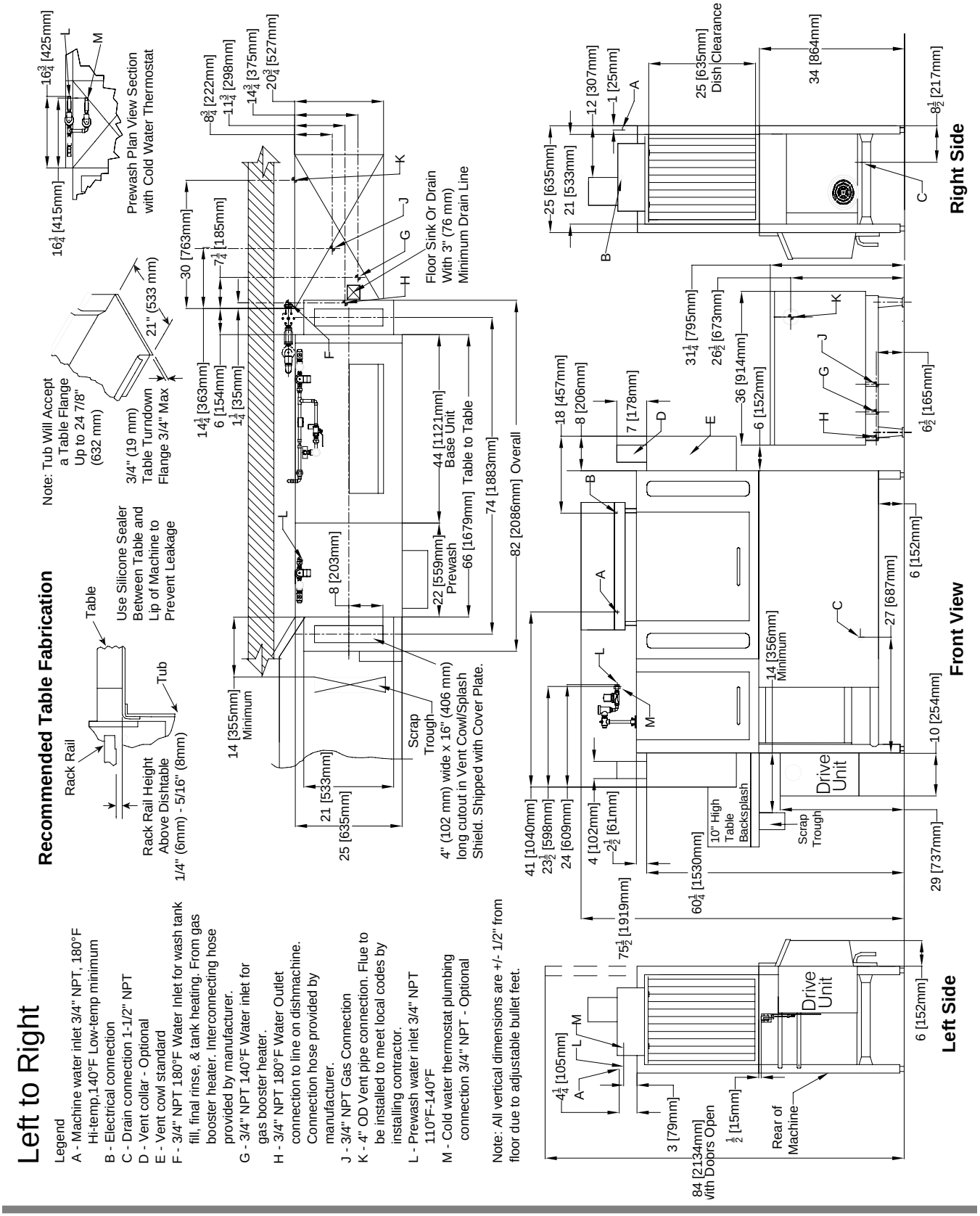


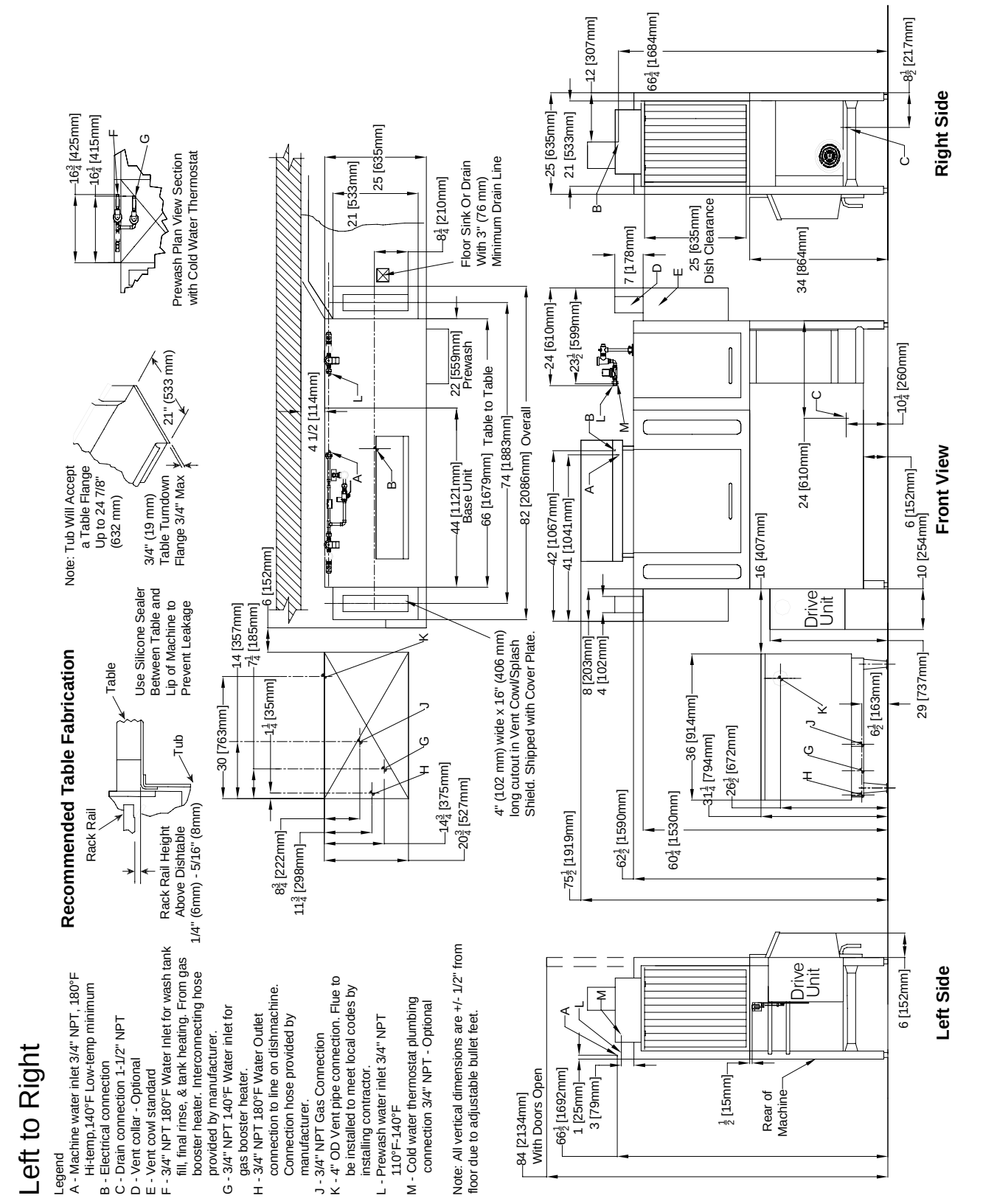
Prewash Plan View Section with Cold Water Thermostat



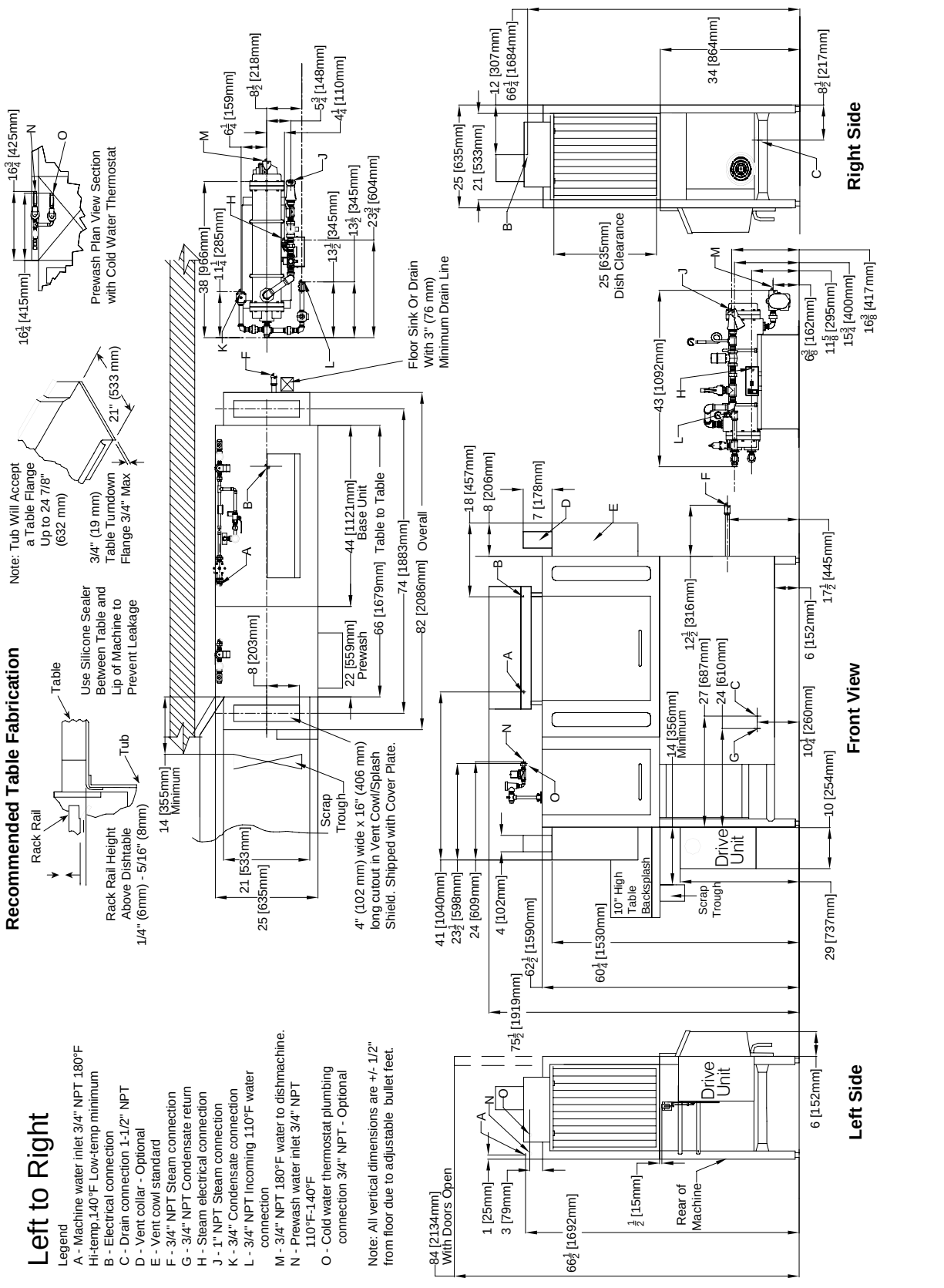
Left Side **Front View** **Right Side**


Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Rack Rail Height Above Dishtable 1/4" (6mm) - 5/16" (8mm)
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Prewash Plan View Section with Cold Water Thermostat
4 1/2 [114mm]
21 [533mm]
25 [635mm]
8¼ [210mm]
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
22 [559mm] Prewash
44 [1121mm] Base Unit
66 [1679mm] Table to Table
74 [1883mm]
82 [2086mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
84 [2134mm] With Doors Open
66½ [1692mm]
1 [25mm]
3 [79mm]
½ [15mm]
Rear of Machine
Drive Unit
6 [152mm]
Left Side
75½ [1919mm]
8 [203mm]
4 [102mm]
62½ [1590mm]
60¼ [1530mm]
42 [1067mm]
41 [1041mm]
24 [610mm]
23½ [599mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
24 [610mm]
10¼ [260mm]
6 [152mm]
10 [254mm]
29 [737mm]
Front View
25 [635mm]
21 [533mm]
12 [307mm]
66¼ [1684mm]
8½ [217mm]
Right Side

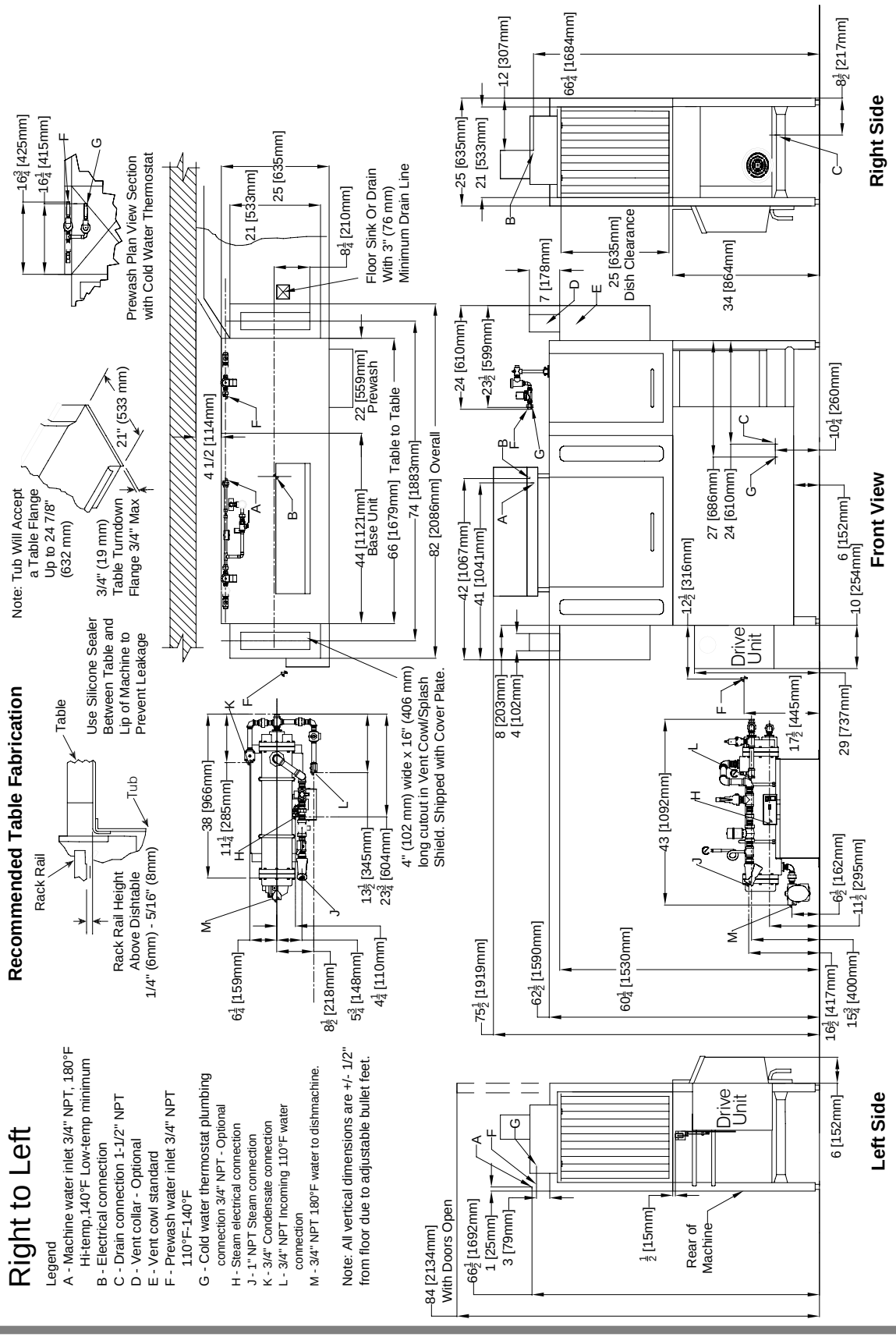

Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Drive Unit
10" High Table Backsplash
Rear of Machine
Left Side
Front View
Right Side
Dish Clearance


Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Drive Unit
Rear of Machine
Left Side
Front View
Right Side
Dish Clearance

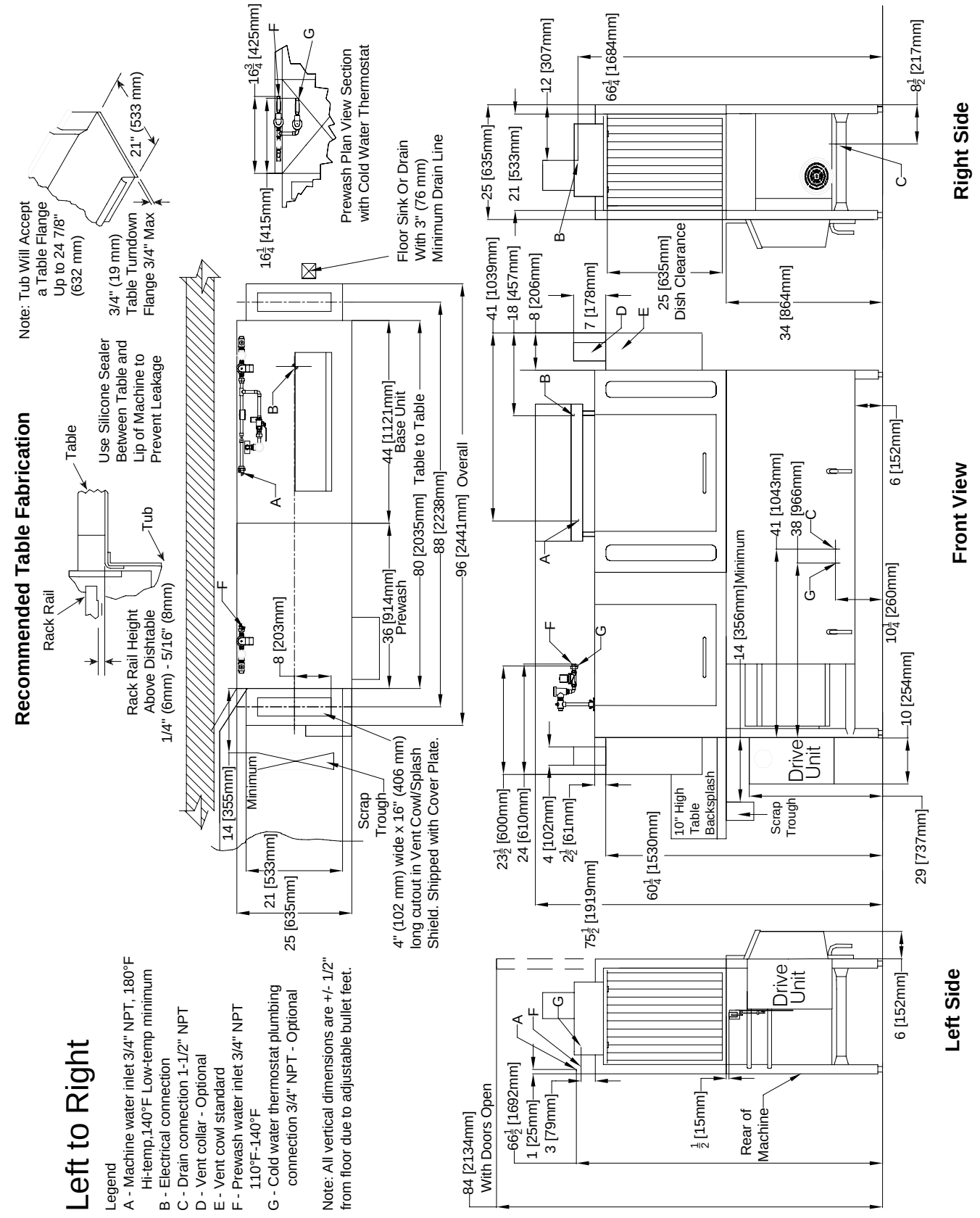
AJ-66 STEAM - LEFT TO RIGHT

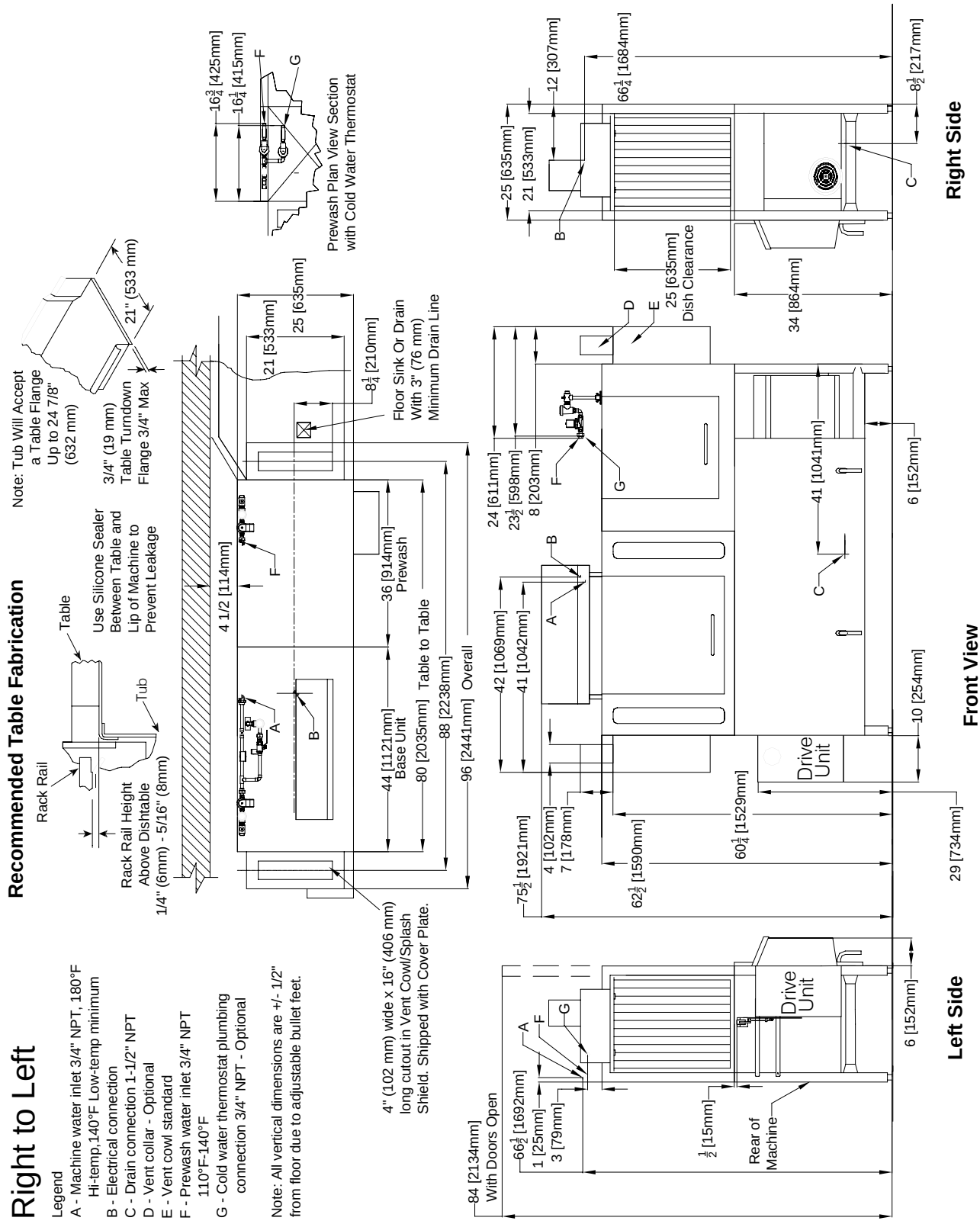


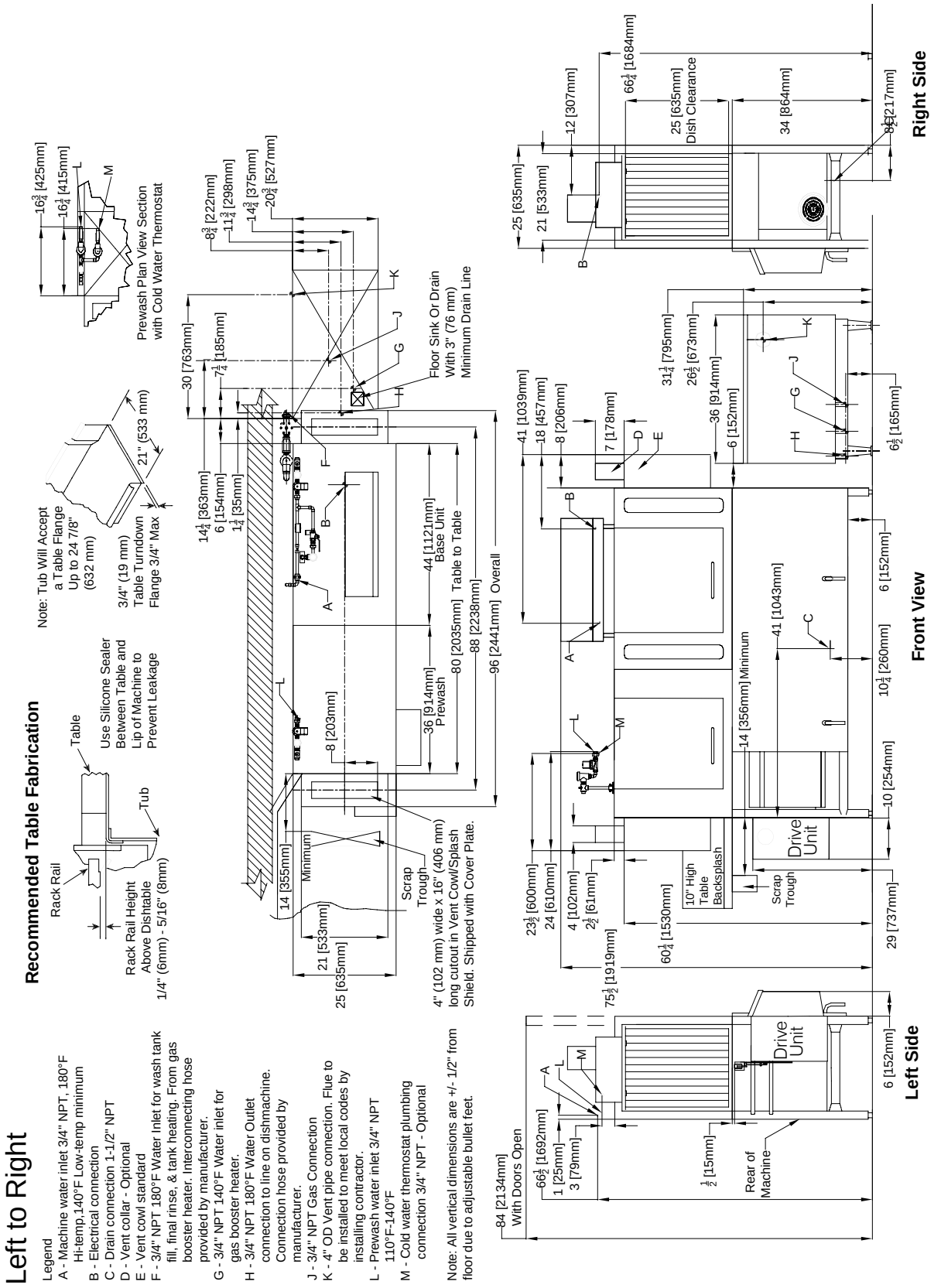
AJ-66 STEAM - RIGHT TO LEFT

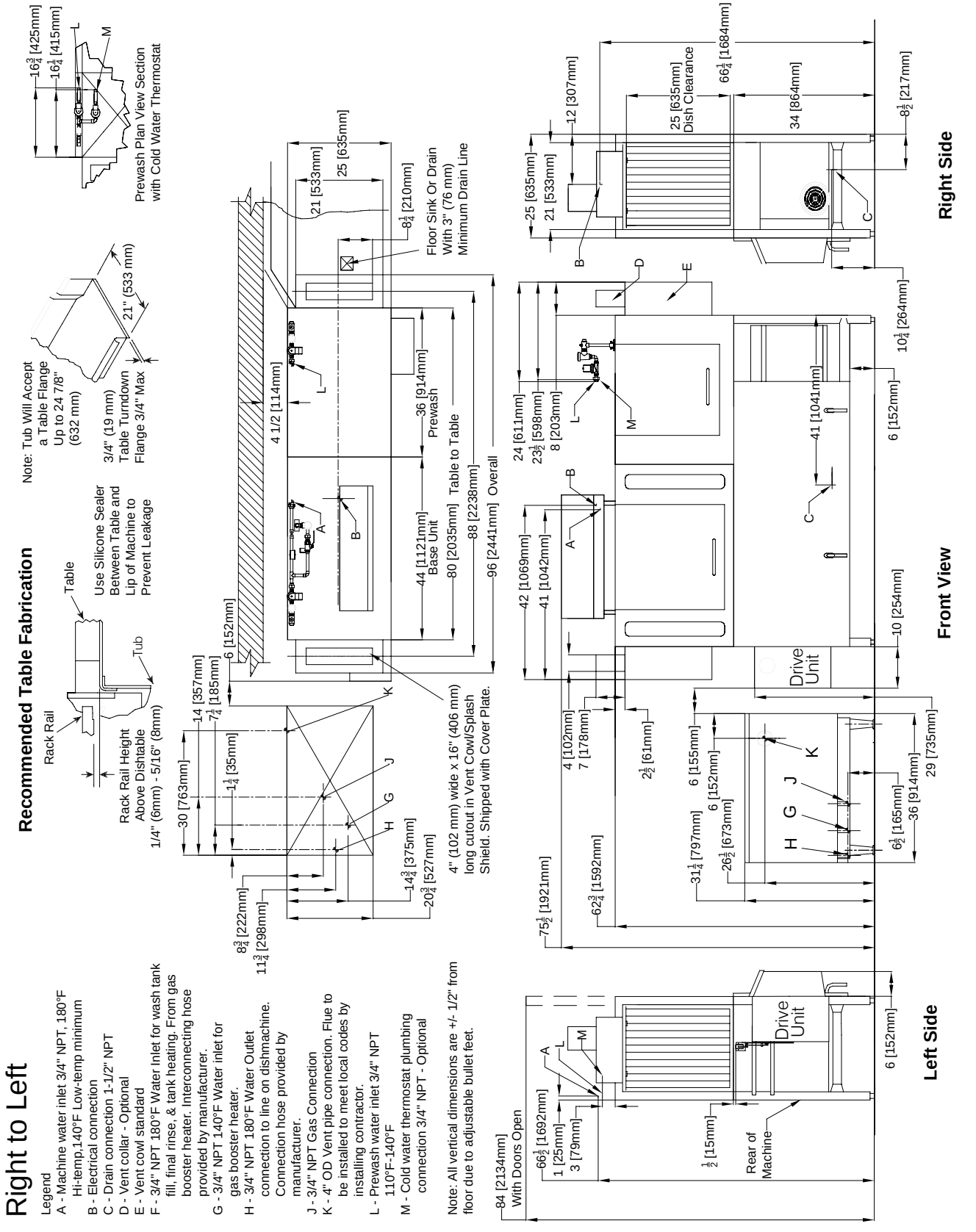


AJ-80 ELECTRIC - LEFT TO RIGHT

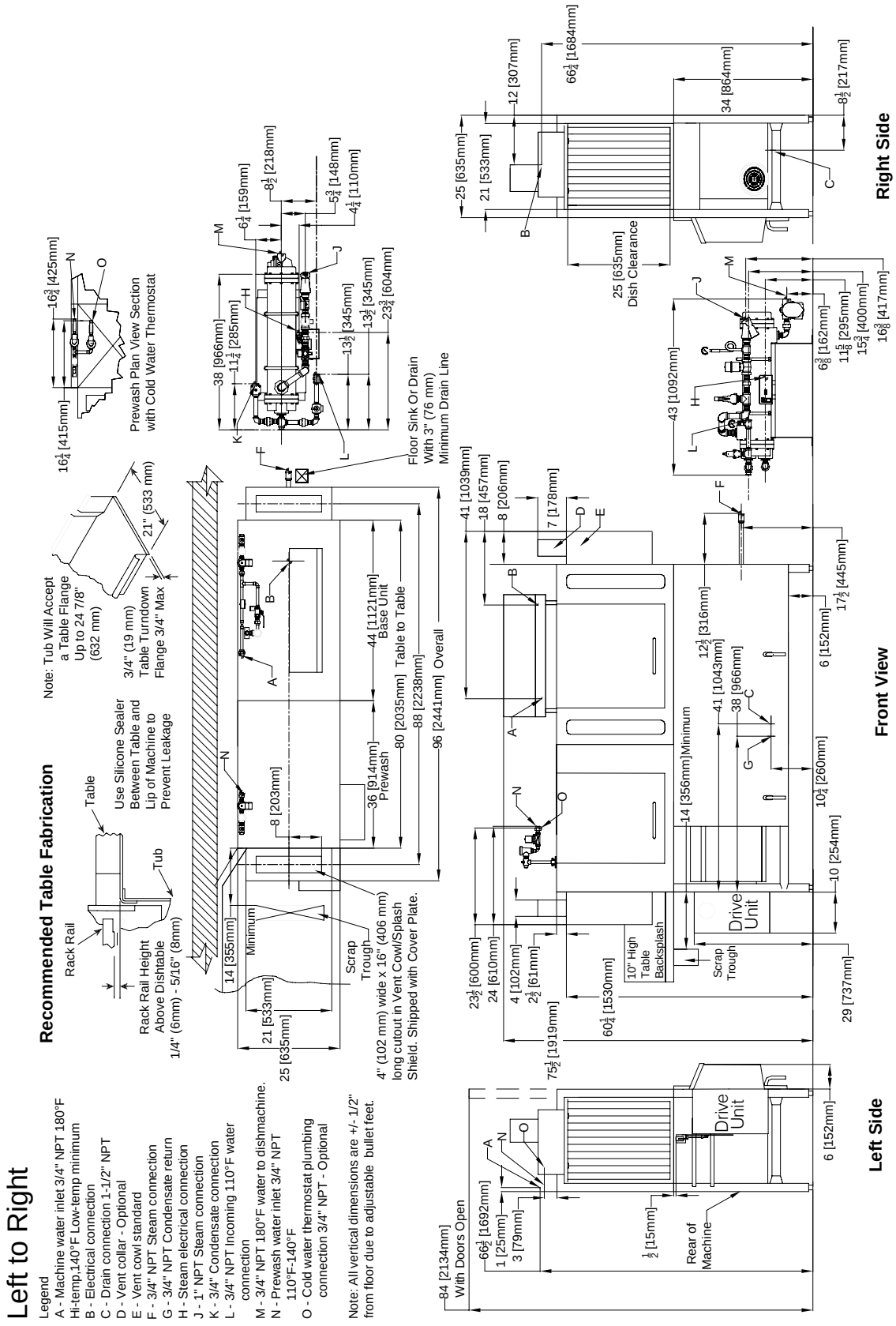



Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
4 1/2 [114mm]
21 [533mm]
25 [635mm]
8¼ [210mm]
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
36 [914mm] Prewash
44 [1121mm] Base Unit
80 [2035mm] Table to Table
88 [2238mm]
96 [2441mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
16¾ [425mm]
16¼ [415mm]
Prewash Plan View Section with Cold Water Thermostat
84 [2134mm] With Doors Open
66½ [1692mm]
1 [25mm]
3 [79mm]
½ [15mm]
Rear of Machine
Drive Unit
6 [152mm]
Left Side
75½ [1921mm]
4 [102mm]
7 [178mm]
62½ [1590mm]
60¼ [1529mm]
42 [1069mm]
41 [1042mm]
24 [611mm]
23½ [598mm]
8 [203mm]
25 [635mm] Dish Clearance
34 [864mm]
41 [1041mm]
6 [152mm]
10 [254mm]
29 [734mm]
Front View
25 [635mm]
21 [533mm]
12 [307mm]
66¼ [1684mm]
8½ [217mm]
Right Side

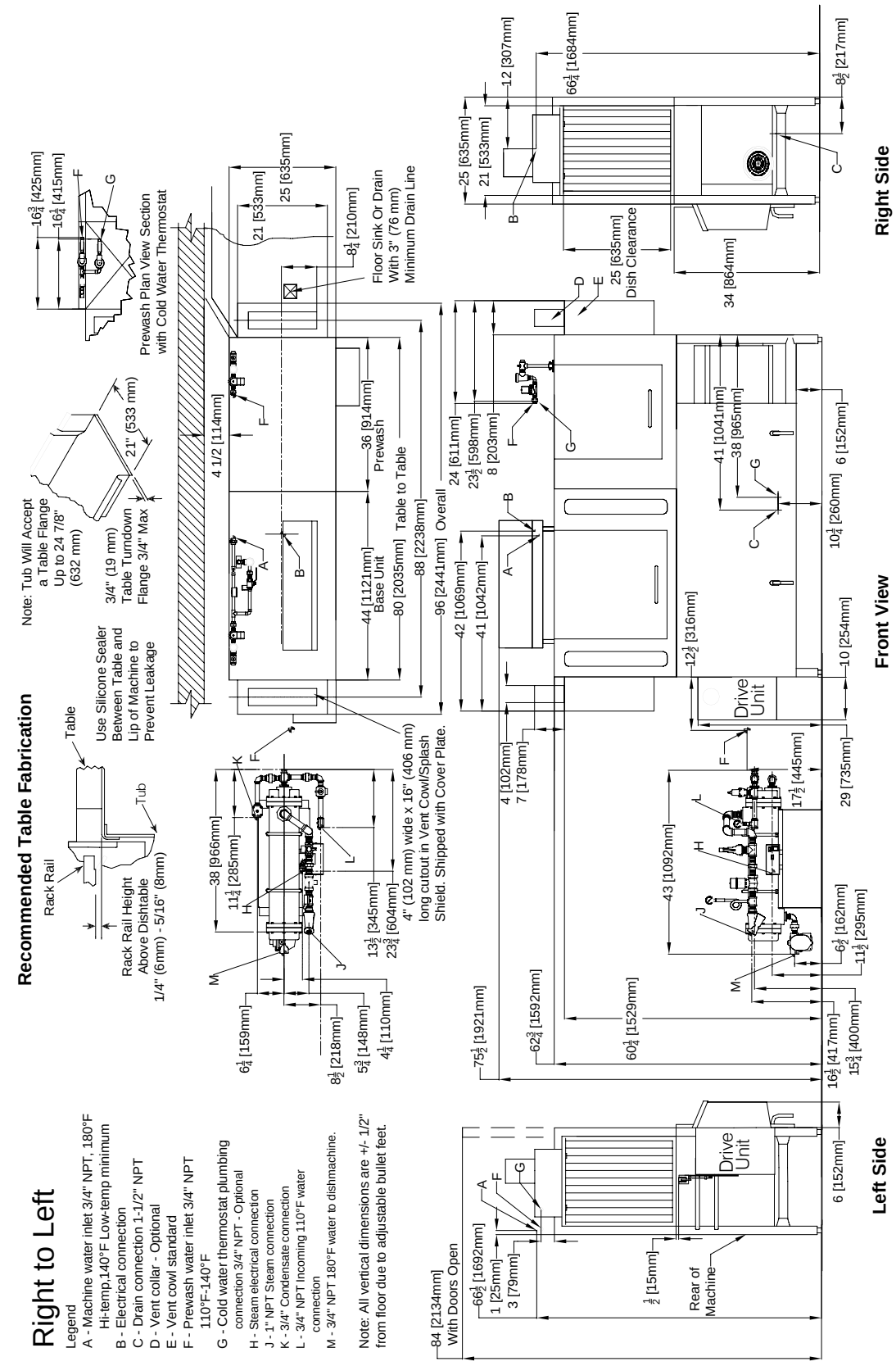

Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
21" (533 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Minimum
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Table to Table
Prewash
Base Unit
Overall
Left Side
Front View
Right Side
Drive Unit
Scrap Trough
10" High Table Backsplash
Rear of Machine
Minimum
Dish Clearance
With Doors Open


Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Table to Table
Overall
Prewash
Base Unit
Drive Unit
Rear of Machine
Left Side
Front View
Right Side
Dish Clearance

AJ-80 STEAM - LEFT TO RIGHT

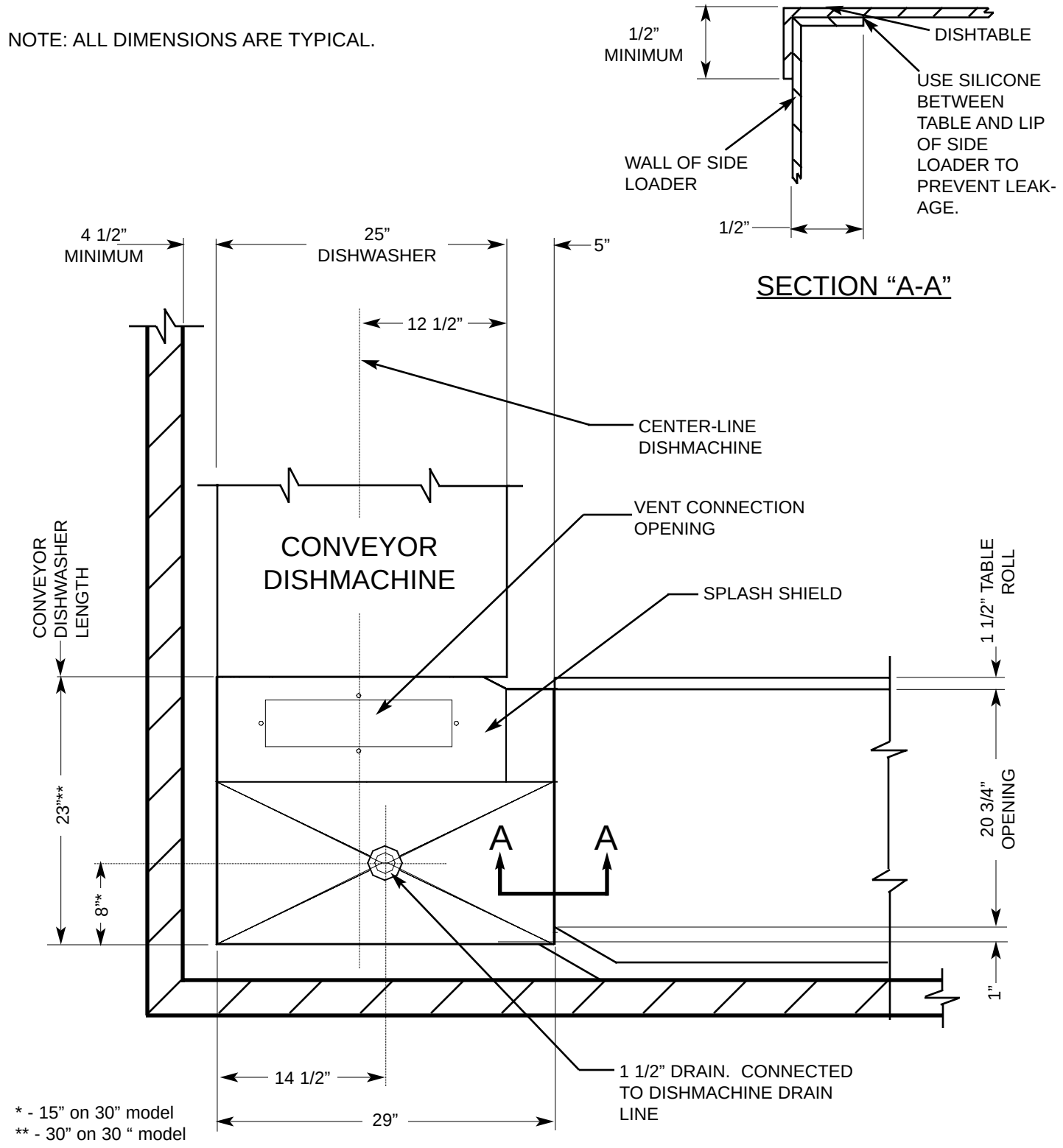


AJ-80 STEAM - RIGHT TO LEFT



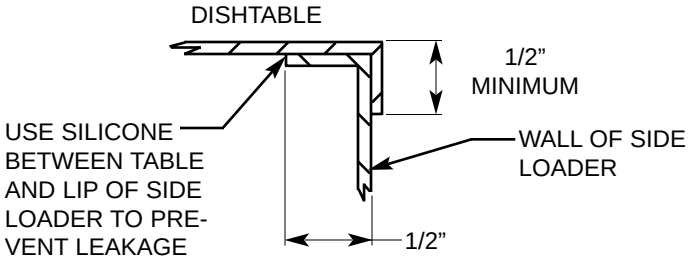
SIDE LOADER (LEFT TO RIGHT) DIMENSIONS

NOTE: ALL DIMENSIONS ARE TYPICAL.

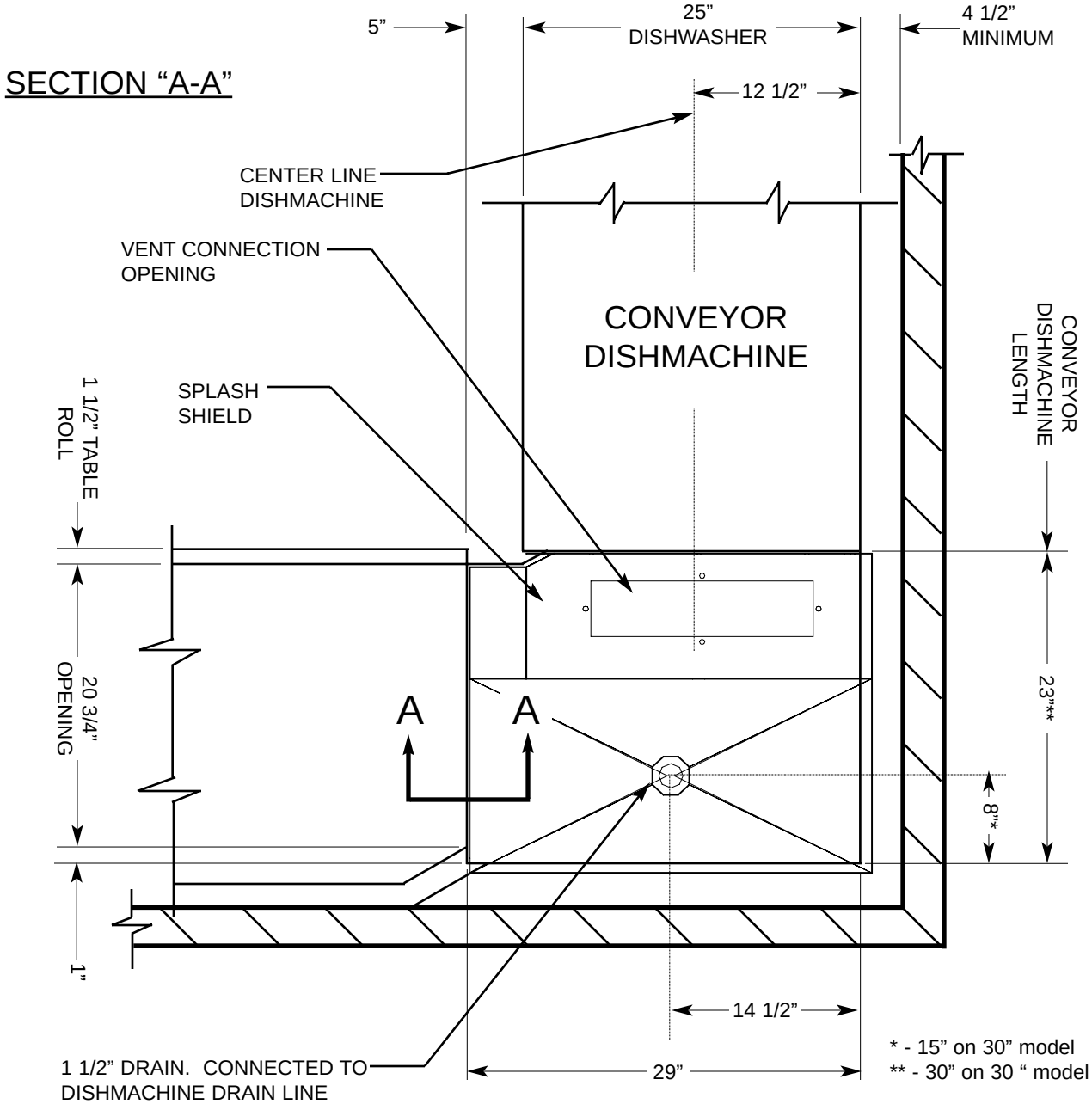


* - 15" on 30" model
** - 30" on 30 " model

SIDE LOADER (RIGHT TO LEFT) DIMENSIONS



NOTE: ALL DIMENSIONS ARE TYPICAL.



SIDE LOADER (INSTALLED) DIMENSIONS

23” SIDE LOADER DIMENSIONS

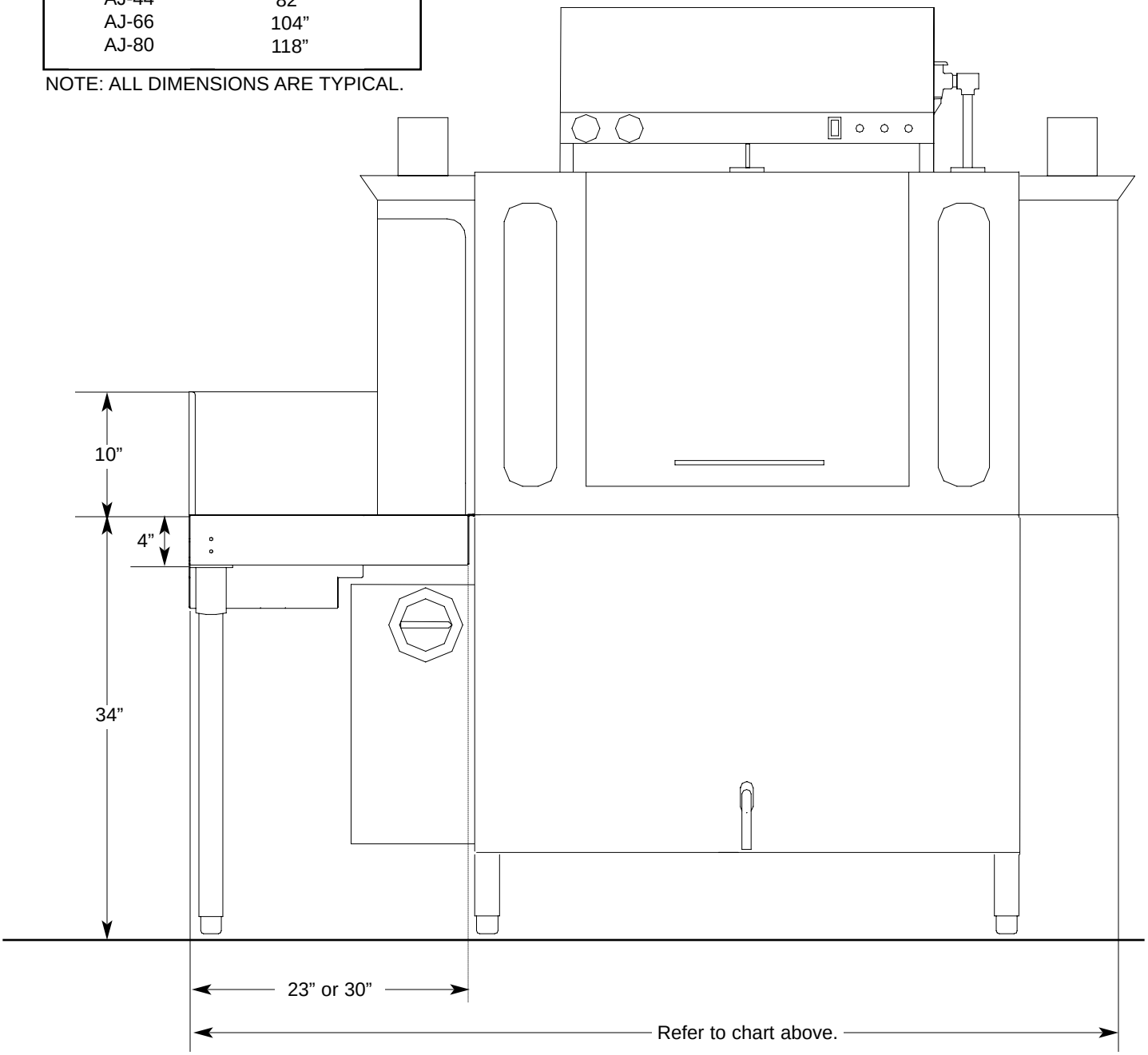
MODEL	DIMENSIONS
AJ-44	75”
AJ-66	97”
AJ-80	111”

30” SIDE LOADER DIMENSIONS

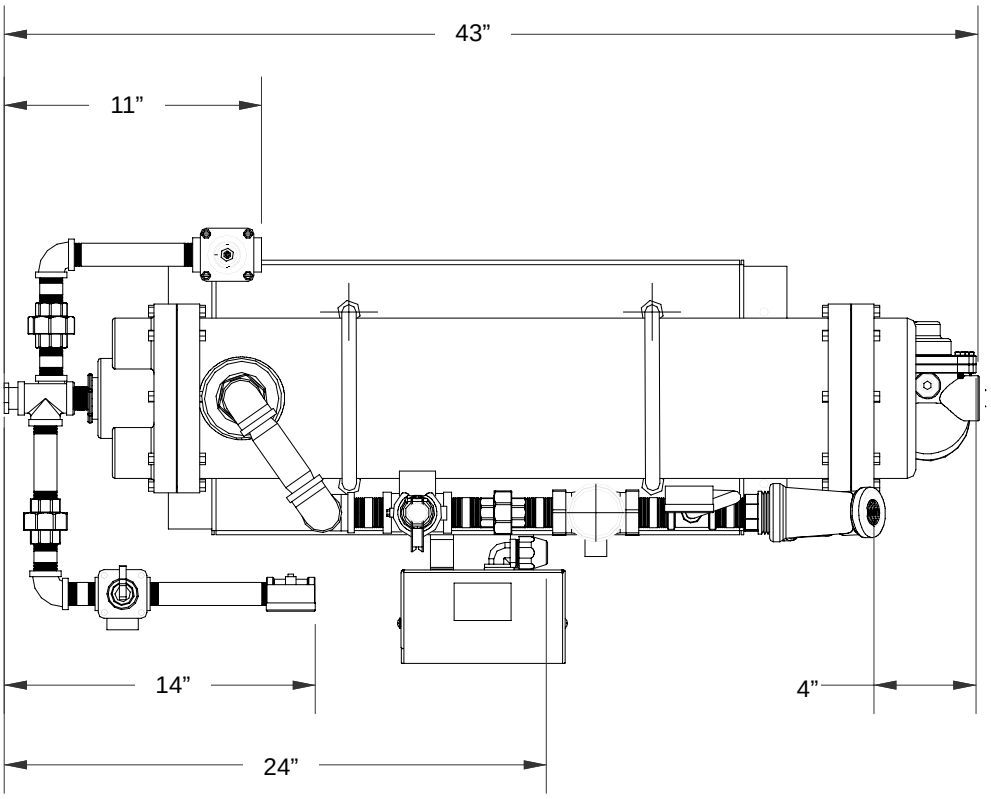
MODEL	DIMENSIONS
AJ-44	82”
AJ-66	104”
AJ-80	118”

NOTE: ALL DIMENSIONS ARE TYPICAL.

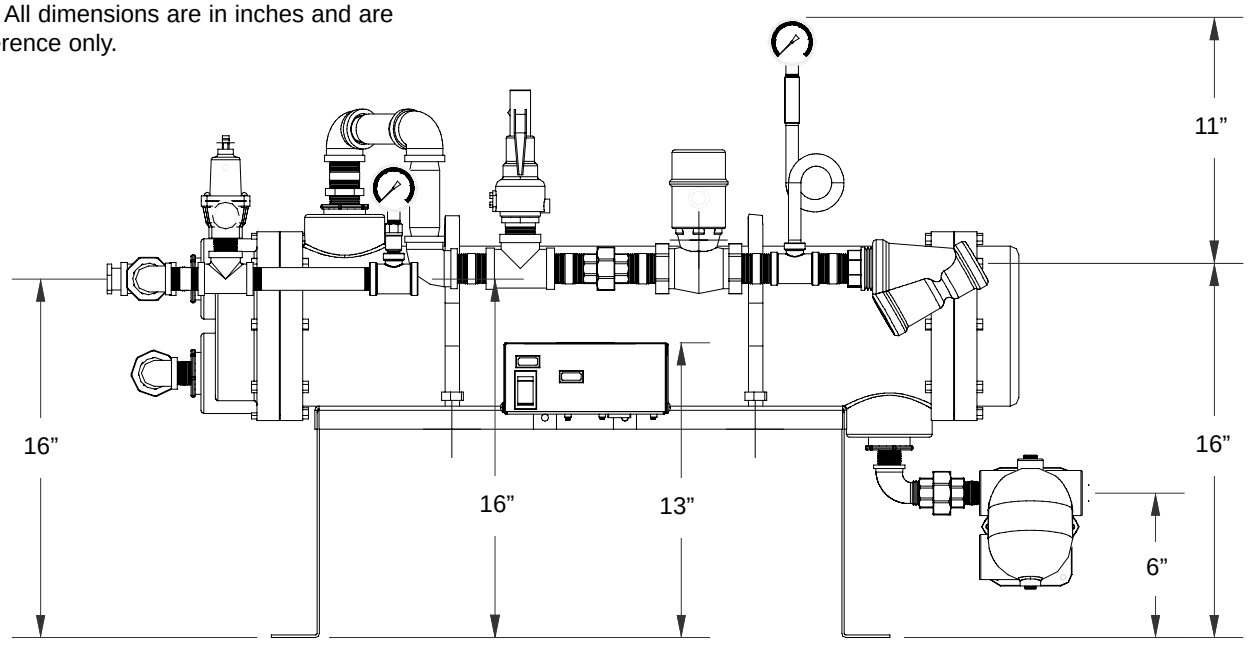
(Left to Right installation shown for reference.)



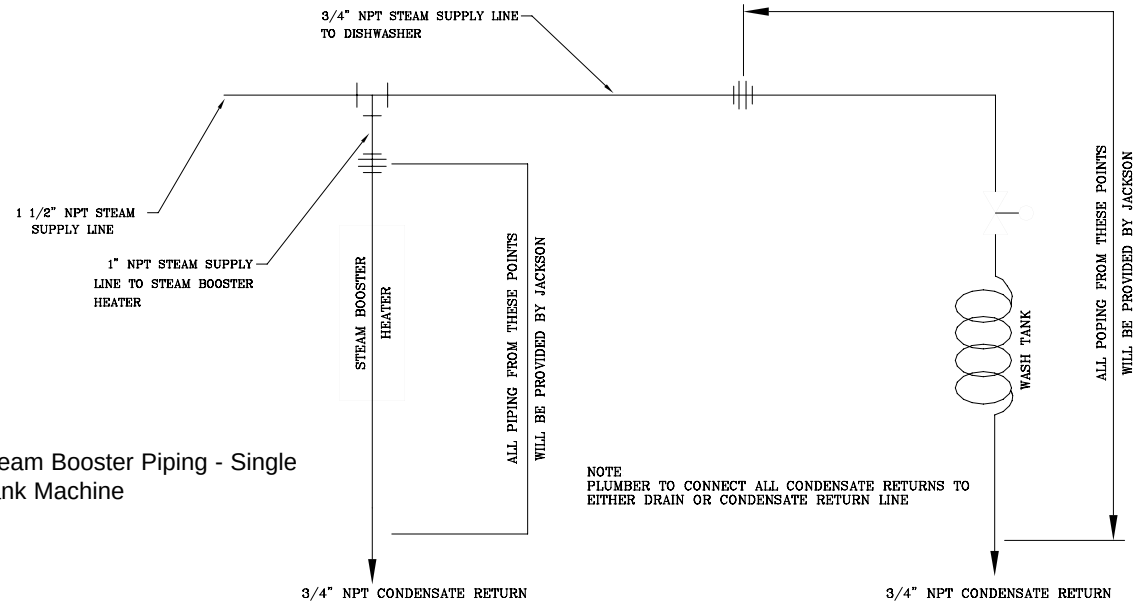
D226 STEAM BOOSTER DIMENSIONS



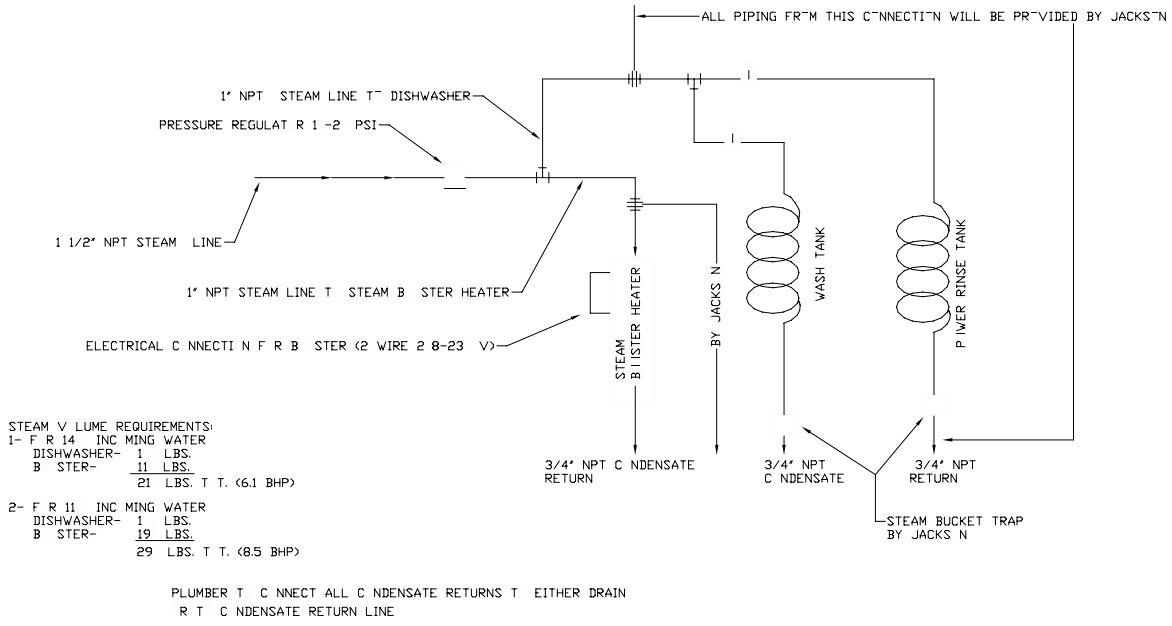
NOTE: All dimensions are in inches and are for reference only.



D226 STEAM BOOSTER PLUMBING LINE DRAWINGS



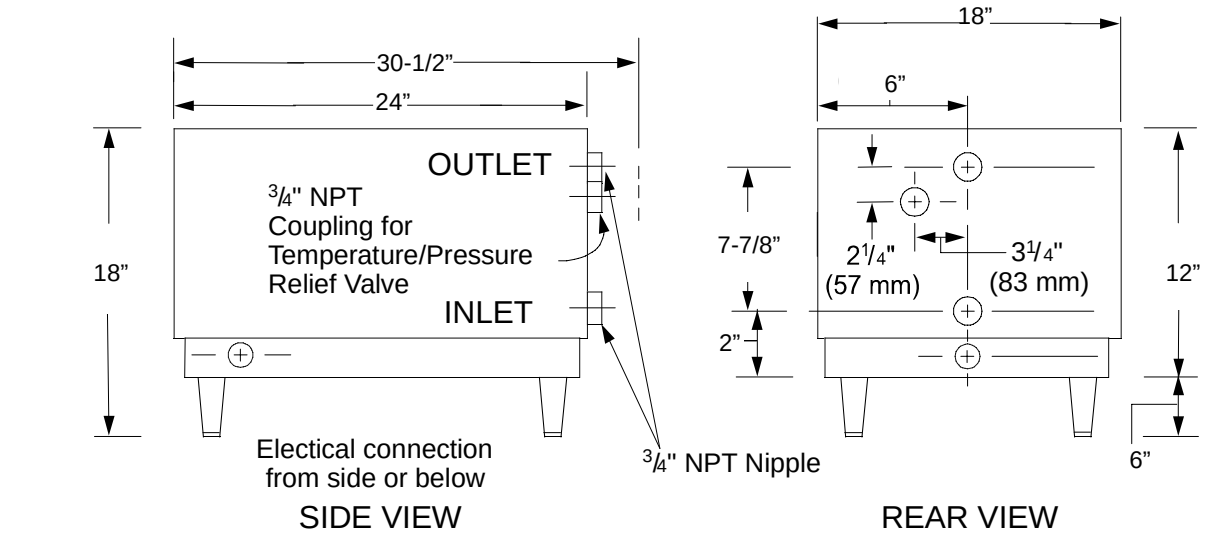
Steam Booster Piping - Single Tank Machine

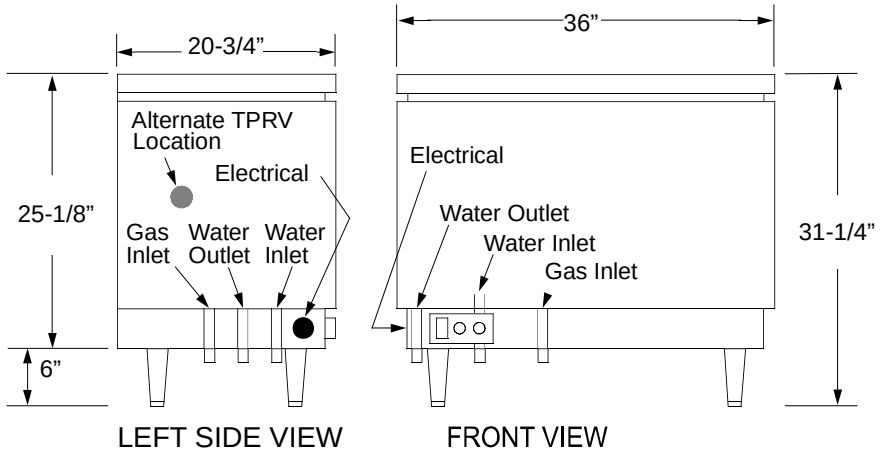


Steam Booster Piping - Double Tank Machine

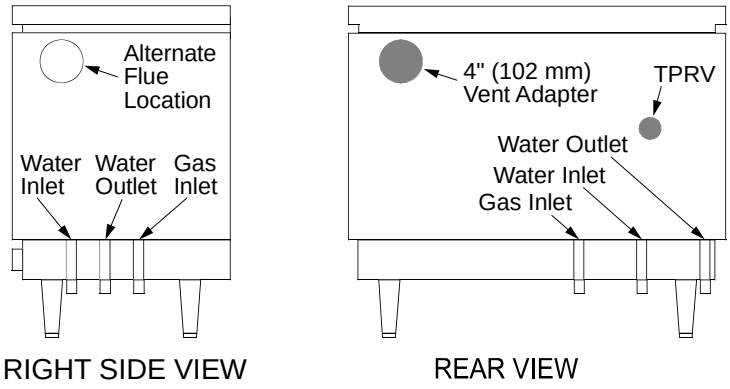
TYPICAL ELECTRIC AND GAS BOOSTER DIMENSIONS

Electric Booster Dimensions (Typical)





Gas Booster Dimensions
(Typical)



SECTION 2:
INSTALLATION & OPERATION INSTRUCTIONS

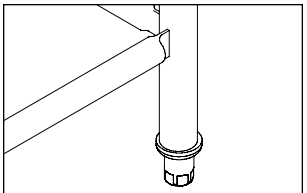
SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

NOTE: THE INSTRUCTIONS PROVIDED HEREIN, UNLESS OTHERWISE SPECIFIED ARE FOR THE DISHMACHINES ONLY. THERE ARE SEPARATE DIRECTIONS FOR THE GAS BOOSTER.

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that there may be some damage to the machine. If there is damage to both the container and machine, do not throw away the container. The dishmachine has been inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while in transit. If such a situation occurs, do not return the unit to Jackson; instead, contact the carrier and ask them to send a representative to the site to inspect the damage to the unit and to complete an inspection report. You must contact the carrier within 48 hours of receiving the machine. Also, contact the dealer through which you purchased the unit.

UNPACKING THE DISHMACHINE: The machine should be unboxed and removed from shipping pallet prior to being installed. Open the front door and remove all of the packing materials. Once unpacked, ensure that there are no missing parts from the machine. This may not be obvious at first. If it is discovered that an item is missing, contact Jackson immediately.

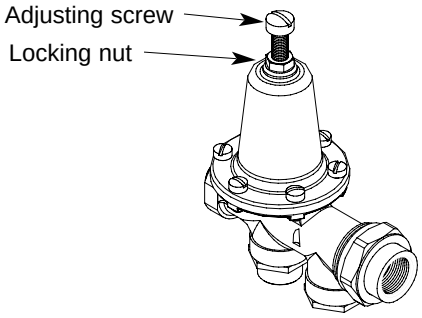

Frame with Adjustable Foot

LEVEL THE DISHMACHINE: The dishmachine is designed to operate while being level. This is important to prevent any damage to the machine during operation and to ensure the best results when washing ware. The unit comes with adjustable bullet feet, which can be turned using a pair of channel locks or by hand if the unit can be raised safely. Ensure that the unit is level from side to side and from front to back before making any connections. You will be able to adjust the overall height of the unit by turning the bullet feet from between 75-1/2” to 76-1/2”.

PLUMBING THE DISHMACHINE: All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is thoroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction. Any valves that are fouled as a result of foreign matter left in the water line, and any expenses resulting from this fouling, are not the responsibility of the manufacturer.

Water hardness should be a maximum of 6 grains per gallon. Harder water should be treated prior to using the machine. Iron in the water supply can cause staining. A filter designed to remove iron from the supply water is highly recommended for supplies in excess of 0.1 ppm (parts per million).

CONNECTING THE DRAIN LINE: The drain for the models covered in this manual are gravity discharge drains. All piping from the machine to the drain must be a minimum 1 1/2” NPT and should not be reduced. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 30 gallons per minute.



Incoming Plumbing Connection

WATER SUPPLY CONNECTION: Ensure that you have read the section entitled “PLUMBING THE DISHMACHINE” above before proceeding. The supply water temperature must meet the minimum requirements listed on the machine data plate. Install the water supply line (3/4” pipe size minimum) to the dishmachine line strainer. It is recommended that a water shut-off valve be installed in the water line between the main supply and the machine to allow access for service. The water supply line is to be capable of 25 PSI “flow” pressure at the recommended temperature indicated on the data plate.

If the water level is too low or too high, check the incoming water pressure. It should be 20 $\pm$ 5 PSI. Too high of pressure results in too much water; too low of pressure results in too little water. To adust the regulator, loosen the nut at the top, this will allow you to screw or unscrew the adjustment. With a screwdriver, turn the adjuster clockwise to increase pressure or counter clockwise to decrease it.

Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a “no flow” condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the fill valve is opened during the cycle.

INSTALLATION INSTRUCTIONS (CONTINUED)

It is also recommended that a shock absorber (not supplied) be installed in the incoming water line. This prevents line hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

STEAM LINE CONNECTIONS: Some machines covered in this manual are designed to use low pressure steam as a source of heat for wash tank water. The machines come with lines by which outside source steam needs to be connected. Connect all incoming steam lines in accordance with the steam booster manufacturer's instructions. Ensure that all applicable codes and regulations are adhered to. See machine data plate for information concerning steam flow pressure.

GAS CONNECTIONS: Some machines covered in this manual are designed to use gas as an outside source of heat for wash tank water. The machines come with connections by which an outside source needs to be connected. Connect all incoming gas lines in accordance with the gas booster manufacturer's instructions. Ensure that all applicable codes and regulations are adhered to.

PLUMBING CHECK: Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

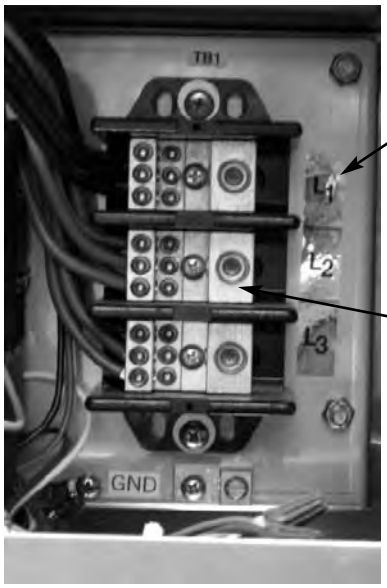
ELECTRICAL POWER CONNECTION: Electrical and grounding connections must comply with the applicable portions of the National Electrical Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Disconnect electrical power supply and place a tag at the disconnect switch to indicate that you are working on the circuit.

The dishmachine data plate is located on the right side and to the front of the machine. Refer to the data plate for machine operating requirements, machine voltage, total amperage load and serial number.

To install the incoming power lines, open the control box. Install conduit into the pre-punched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1, L2, and L3 (3 phase only)) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Tighten the connections. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.

VOLTAGE CHECK: Ensure that the power switch is in the OFF position and apply power to the dishmachine. Check the incoming power at the terminal block and ensure it corresponds to the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all proper personnel of any problems and of the location of the service breaker. Replace the control box cover and tighten down the screws.



Incoming Power Connection

VENTILATION OF DISHMACHINE: The dishmachine should be located with provisions for venting into an adequate exhaust hood or ventilation system. This is essential to permit efficient removal of the condensation exhaust. Ensure that the exhaust system is acceptable in accordance with all applicable codes and standards.

NOTE: Any damage that is caused by steam or moisture due to improper ventilation is NOT covered under the warranty.

This units covered in this manual have the following exhaust requirements:

Load End:	200 CFM
Unload End:	400 CFM

The exhaust system must be sized to handle this volume for the dishmachine to operate as it was designed to.

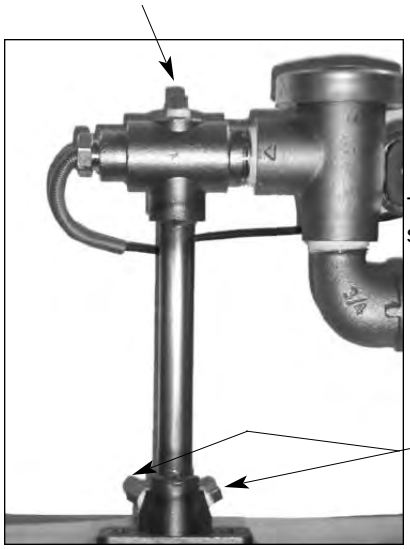
ELECTRIC HEAT: The thermostats for the machines covered in this manual are factory set. They should not be adjusted except by an authorized service agent.

CHEMICAL FEEDER EQUIPMENT: The AJ-44CEL/CSL, AJ-66CEL/CSL, and AJ-80CEL/CSL are designed to operate with a third party chemical injection system. Jackson does not endorse any particular chemical injection system. The system selected must be able to provide detergent and sanitizer in the required concentrations. The minimum chlorine concentration for proper sanitization is 50 PPM. Furthermore, the selected feeder needs to be able to operate against a head of 25 PSI and deliver 7.38 ml of a 10% chlorine sanitizer per minute.

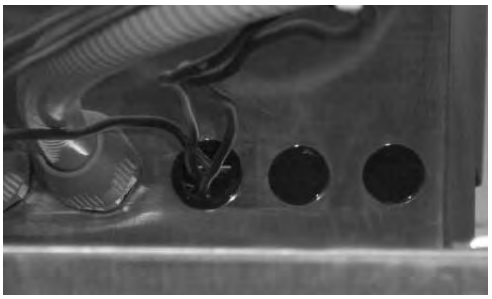
Detergent may be introduced into the unit through the removal of the bulkhead plug in the rear of the tub and replacing it with the third party detergent injection fitting. Remove the bulkhead plug in the side of the tub to install the detergent concentration probe.

For more information concerning detergent concerns, please refer to the page entitled “Detergent Control”.

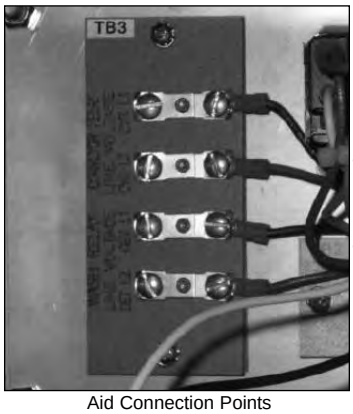
Detergent Connection Point
(Machine rear view)



The 1/8” brass plugs on the incoming plumbing rinse injector may be removed to install sanitizer and rinse aid injection fittings.



Back of Control Box



Aid Connection Points

All wires for the chemical injectors should be routed through one
of the extra openings in the back of the control box.

Terminals in the control box marked “CVS” provide a constant voltage signal whenever the drive motor is operating.

Terminals in the control box marked “DET” provide a voltage signal whenever the wash motor is operating.

DELIMING OPERATIONS

DELIMING OPERATIONS: In order to maintain the dishmachine at its optimum performance level, it will be required to remove lime and corrosion deposits on a frequent basis. A deliming solution should be available from your detergent supplier. Read and follow all instructions on the label of the deliming solution.

To proceed with the deliming operation, fill the dishmachine and add the correct amount of deliming solution as recommended by the deliming solution manufacturer. The water capacity of the various tanks of the dishmachine can be verified on the specification sheet(s) of this manual.

Perform the following operations to delime the dishmachine:

Delime Switch

1. Turn the AUTOMATIC/DELIME switch on the back of the control box to the DELIME position.

2. Disconnect or turn off all chemical feeder pumps.

3. Close all doors (after adding the deliming solution).

4. Run the machine for the recommended period of time.

5. Turn the unit off and open the doors.

6. Wait five minutes, then inspect the inside of the machine. If the machine is not delimed, run another time cycle as per the deliming solution's instructions.

7. When clean, drain and re-fill the machine.

8. Run in MANUAL for 10 minutes to remove residual deliming solution.

9. Drain and re-fill the machine.

This equipment is not recommend for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components. Use of deionized water or other aggressive fluids will void the manufacturer's warranty.

CHANGING THE AJ-44CE/CS DIRECTION OF TRAVEL

The AJ-44 dishmachine has the ability to have its direction of travel changed from left to right, or from right to left. Direction of travel is determined by which end the rack of ware is put into the machine and which end the rack comes out.

There may come times when it is necessary to change the direction of travel after the unit is installed. The instructions provided here are for maintenance personnel only. Unauthorized persons should not attempt any of the steps contained in these instructions.

Warning: many of the instructions and steps within this document require the use of tools and may also require that personnel change the wiring of the machine. Only authorized personnel should ever perform any maintenance evolution on the dishmachine!

PREPARATION

1. Power must be secured to the unit at the service breaker. Tag or lock out the service breaker to prevent accidental or unauthorized energizing of the machine.
2. Disconnect incoming water at the water pressure regulator or Y-strainer.
3. Disconnect the service drain line from the drain plumbing of the dishmachine itself. Ensure that the unit is completely drained before doing this.
4. Remove the locking screw from the control box.
5. Remove the front dress panel.

TOOLS REQUIRED

The following tools will be needed to perform this maintenance evolution:

1. 5/16” nutdriver
2. 7/16” nutdriver
3. 7/16” combination wrench
4. 7/16” socket with drive ratchet and 4” extension
5. 12” pipe wrench
6. 10” adjustable wrench
7. Wire cutters
8. Phillipshead screwdriver

TIME REQUIRED

It is estimated that it will take (1) person three hours to perform this task, not including all of the items indicated in the section entitled “PREPARATION”.

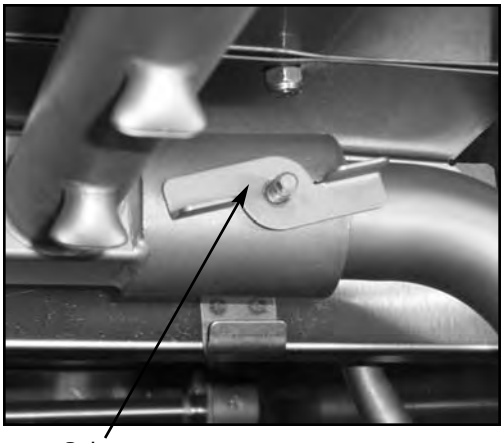
IMPORTANT NOTES

1. Do not lose hardware! Place hardware in a safe spot away from the machine, ensuring that it does not fall loose into the machine tub. Hardware that is drawing into the suction of the wash pump will damage the equipment. If you do need more hardware, contact your JACKSON representative to purchase new items.

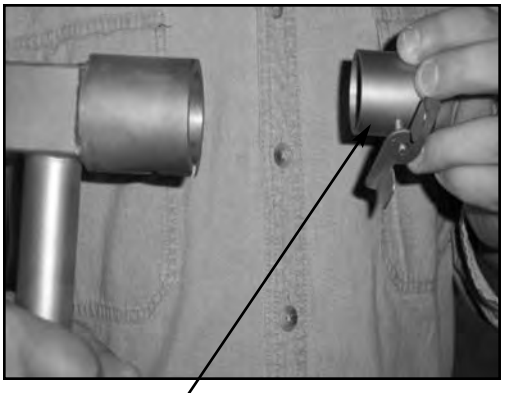
2. Read these instructions thoroughly before attempting this maintenance evolution. Become familiar with the parts and what actions need to be taken. This will save time in the long run!

STEPS

1. Remove the upper wash arm assembly by loosening the spin nut. The spin nut has a stop so it will not come off. Once it is loosened, the wash arm assembly should slide off.



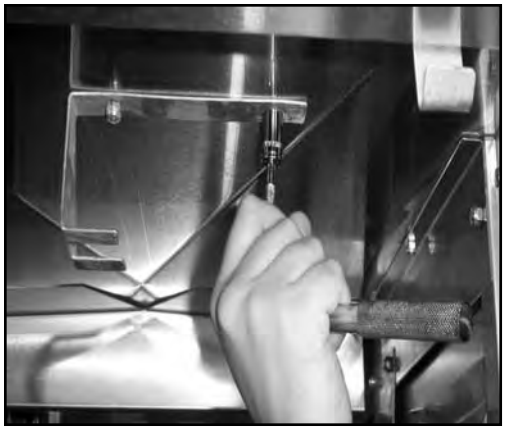
2. Remove the end cap from the wash arm assembly and place in the opposite end, securing it snugly.



3. With the end cap securely in the opposite end of the wash arm assembly, set the assembly gently to the side. Go back inside the unit to where the upper wash arm assembly secured in the unit and turn the spin nut so that it is all the way down. This needs to be done because in a further step, if the spin nut is out, it will get in the way. Do not over-tighten the spin nut as it only needs to be out of the way, not secured.

CHANGING THE AJ-44CE/CS DIRECTION OF TRAVEL (CONTINUED)

4. Remove the upper wash arm assembly bracket. This step may require that you have help as the bolts for securing the bracket to the top of the inner hood are the same bolts that hold the control box to the hood top. Do not remove the bolts once the nuts are taken off. Once the bracket is removed, place the nuts immediately back on the bolts. To hold the bolts (to keep them from spinning), a 7/16" combination wrench or 7/16" nutdriver will be required in order to hold the bolt head inside the control box.



Removing bracket (bottom view)

Removing bracket (control box view)

Remove the locknuts from the opposite bolts used to hold down the control box (do not remove the bolts) and secure the bracket to underside of the hood. The folded part of the bracket should be facing the rear of the machine. Immediately tighten down the locknuts.

5. Remove the splash shield, which is bolted to the underside of the hood next to the wash manifold and turn it 180°.

Removing and turning splash shield

6. Remove the pawl bar and set to the side.

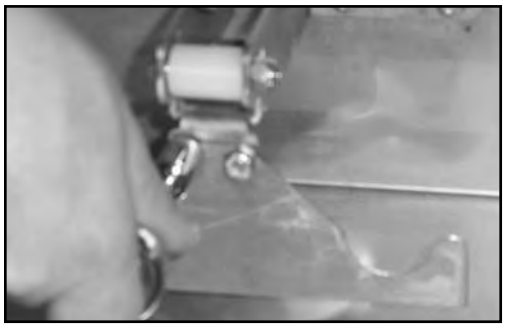
Remove the pawl bar by grasping firmly and lifting up.

7. Remove the lower wash arm assembly by turning the locking screw to unlatch it. The entire assembly should then lift out.

Locking screw

8. Remove the lower wash arm support bracket. Place it to the side with its locknuts.

CHANGING THE AJ-44CE/CS DIRECTION OF TRAVEL (CONTINUED)



Removing the locknuts for the lower wash arm support bracket.

9. Remove the lower rinse arm support bracket, which is mounted directly opposite of the lower wash arm support bracket.

Removing the lower rinse arm support bracket

10. Remove the lower and upper rinse arms by unscrewing them and then gently pulling them out.

Unscrewing and removing the lower rinse arm

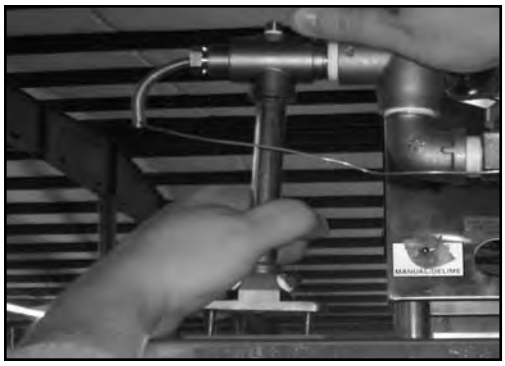
11. Behind the rinse manifold, remove the nut on the bracket.

Removing the bracket nut

12. Remove the nuts from the rinse manifold mounting bracket located on the underside of the hood. These nuts are mounted directly to the rinse injector weldment on the hood top.

Removing the locknuts from the rinse manifold mounting bracket

13. The rinse manifold must be removed. This may prove difficult while the rinse injector is still mounted. With great care, it is possible to gently lift the rinse injector off of the hood to allow the rinse manifold to be removed from the unit. Ensure that the gasket in the underside of the hood stays with the rinse manifold as it must be replaced when re-installing the manifold. If the gasket becomes lost or torn, order a new one immediately.

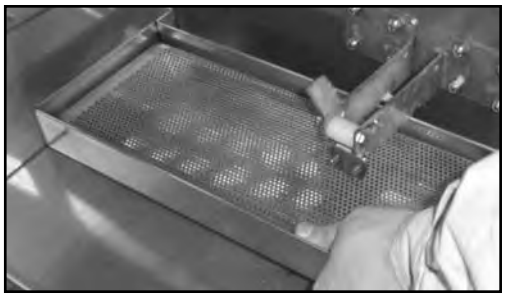


Lifting the rinse injector to make room

14. Remove the entire rinse tray assembly, including the pan

and the strainer within in. The assembly should lift right out. (See next page for photograph detailing this step)

15. Remove the front and rear rinse pan locator brackets. **Note: the brackets are mounted to the bolts that secure the tub weldment to the frame.** Once the locknuts are removed, pull the locator brackets off and immediately replace the locknuts back onto the bolts. Failure to do so at a minimum may cause excessive leaking of the tub once the unit is placed back in operation.



Lifting out the rinse tray assembly

Removing a rinse tray guide bracket

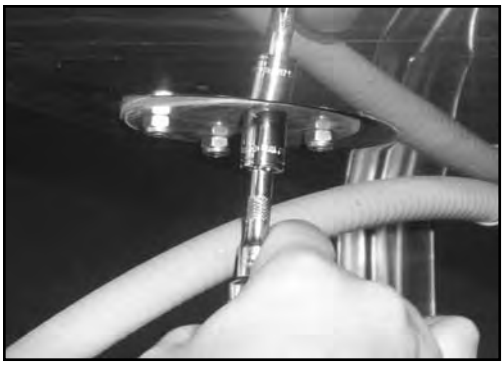
16. On the drain plumbing, the rinse drain tube needs to be removed from the plumbing, as well as the wash drain tube. Both of these tubes are secured with hose clamps. Loosen the hose clamps and pull the tubes off.

Loosening the rinse drain hose from the rinse drain nipple

17. The tee that the rinse drain nipple is in must be turned 180° so that it is facing the opposite direction. This may require dismantling the plumbing by removing the tee with the wash drain barb in it. Put the plumbing back together, after ensuring that the rinse drain tee has been rotated. Use thread tape to protect the threads while putting the plumbing back together. Ensure that the wash drain barb is in the exact same position it was prior to this step.

18. On the underside of the tub, remove the rinse drain weldment and the rinse drain plug. Switch their locations so that the rinse drain weldment is in the spot that the rinse drain plug was in.

Removing the rinse drain weldment



Removing the rinse drain plug

19. Reconnect the rinse drain hose and the wash drain hose to the drain plumbing.

20. On the opposite end from where they were removed, install the front and rear rinse pan assembly locating brackets. **Note: the brackets are mounted to the bolts that secure the tub weldment to the frame.** Install the brackets one at a time and ensure that they are firmly tightened down once installed.

21. Remove the hole cover weldment from the top of the hood. The cover is located on the end of the hood opposite of the rinse injector weldment. Once removed, set to the side along with its gasket.