

MODULAR CABINET BASE,  
ELECTRIC STEAM BOILER, 24, 36 OR 48 KW, 24" (600MM)  
WIDE BASE

Project \_\_\_\_\_  
Item \_\_\_\_\_  
Quantity \_\_\_\_\_  
FCSI Section 11400 \_\_\_\_\_  
Approved \_\_\_\_\_  
Date \_\_\_\_\_

**Models**

- 24-EM-24



**Standard Features**

- Type 304 Stainless Steel exterior enclosure; TableTop with #4 finish
- Hinged Cabinet Door
- 6" Stainless Steel Legs with level adjustment
- Solid State Steam Boiler Water Level Controls
- Low Water Power Cut-off
- Pressure Limit Controls with 15 psi Safety Valve
- Major components serviceable from the front of the unit
- Steam Boiler empties under pressure (blowdown) automatically upon each Shut-Down. Automatic Water Refill on Start-Up
- Separate "Start/Reset" illuminated switch controls, plus Pressure Gauge
- Steam Boiler Drain incorporates Water Cooling and "Jet Rinsing"
- Steam Boiler is complete with Access Hole/Cover Plate and Sight Glass Gauge
- Secondary Low Water Cut-Off, factory installed (CALE)  
(Required for AZ. AR. CA. CO. CT. DE. FL. GA. HI. IL. IA. KS. MD. MA. MI. MN. MT. NE. NV. NM. NC. OK. OR. PR. RI. TN. UT. VA. WA. WV., Buffalo, NY, Wash. DC)
- Standard voltage is 208/220 volt, 60 Hz, 3 Phase, 3 Wire
- Single cold water Connection (no hot water required)
- Stainless Steel Base Frame (FSS)

**Short Form Specifications**

Shall be CLEVELAND Model \_\_\_\_\_ -Em \_\_\_\_\_ KW Electric Steam Boiler, Modular Cabinet Base, type 304 Stainless Steel exterior enclosure, Table Top and 6" Level Adjustable Legs. Console mounted Controls, Pressure Gauge and Illuminated "Start/Reset" Control Switches. Solid State Water Level Steam Boiler Controls. Steam Boiler drains under pressure (blowdown) after each Shut-Down, Automatic Water Fill on Start-Up. 15 psi Safety Valve.

**Options & Accessories**

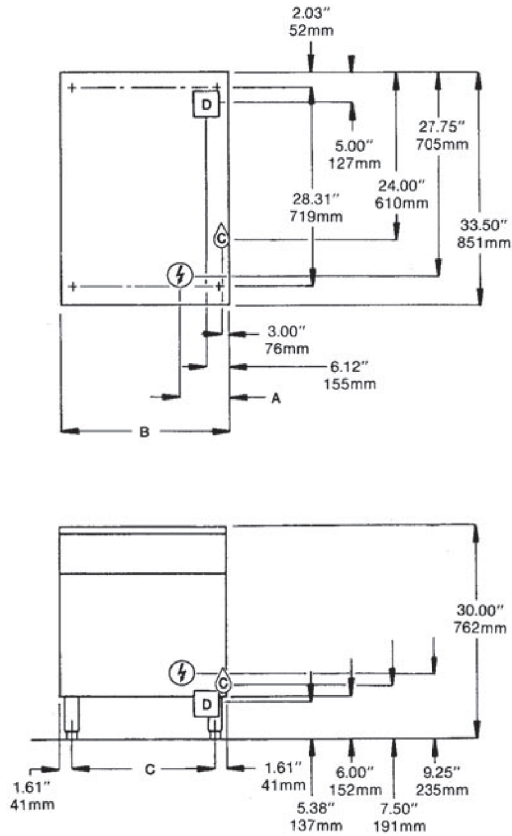
- Power Take-Off Kit (EPTO)

**Steam Flow Rating of  
Cleveland Steam Generators**

Electric KW Input	Steam Output lbs. per hour	Steam Generator H.P.
24 KW	70	2.0
36 KW	120	3.5
48 KW	150	4.3

**WATER QUALITY REQUIREMENTS  
(Boilers, Generators)**

TTDS:	50-250 ppm
Hardness:	50 - 200 mm (3 - 12 gpg)
pH value:	7.0 - 8.5
CL (Chloride):	max 50 ppm
Cl <sub>2</sub> (free chlorine):	max 0.1 ppm
SiO <sub>2</sub> (silica):	max 13 ppm
NH <sub>2</sub> Cl: (mono-chloramine)	max 0.1 ppm
Total Alkalinity:	50 - 100 ppm



		A	B	C
24-EM	IN	7.69	23.62	20.40
	mm	195	600	518

ELECTRIC ⚡					WATER 💧	DRAINAGE D	CLEARANCE
KW		208V	220V	240V 480V			
24	3 PHASE	AMPS	57	63	52	1 1/2" IPS common drain. Do not connect other units to this drain.  Do not use PVC pipe for drain.	Right - 3", Left - 3", Rear - 3" (12" on control side if adjoining wall or equipment is over 30" high for service access)  Contact factory for variances to clearances.
	1 PHASE	PER LINE	99	N/A	89		
36	3 PHASE	AMPS	100	80	87		
	1 PHASE	PER LINE	119	127	107		
48	3 PHASE	AMPS	119	127	107		
	1 PHASE	PER LINE	144	152	125		

For Power Supply, use copper wire only

**NOTES:**

Cleveland Range reserves right of design improvement or modification, as warranted.  
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.  
Cleveland Range equipment is built to comply with applicable standards for manufacturers. Included among those approval agencies are U.L./NSF#4 and CSA (AGA, CGA).

(NOT TO SCALE)