CLEVELAND

Technical Training Handbook and Reference Guide

WELBILT

CLEVELAND

Technical Training Handbook
and
Reference Guide

Section 1 :
General Information

Start up List for Cleveland Range
Steamers, Kettles and Skillets Rev 1-2020
(Please Print)

Location Name:_____ Contact:_____

Address:_____City_____St_____ZIP:_____

Phone:_____E-Mail:_____FAX:_____

Authorized Service Agency:_____Phone_____

Model Number: _____ Serial Number:_____ Date:_____

Install Date: _____

Warning: Start up/Performance check must be completed by a Factory Authorized Service Agent.

TOOLS NEEDED-Standard Hand tools, digital voltmeter, amp meter, water pressure gauge, water test kit #115036O, manometer and camera.

NOTE: Describe any variations if installation in "NOTES:" section. Complete entire form. Include copy of Water test form sent to Optipure and pictures

1.	Does the Customer have the Operation Manual?	Yes	No
2.	Is the equipment level and properly secured as per manual?	Yes	No
3.	Are clearances as stated in the installation manual?	Yes	No
4.	Is there sufficient clearance for service and away from a high heat source?	Yes	No
5.	Gas type and pressure to the equipment?		
	Gas type =Natural / LP Pressure= _____ inch W.C.		
	Gas connection size (inlet I.D. has not been reduced)		
6.	The voltage supplied to the unit is within 10% of the data tag?	VAC _____	
	Is there a proper ground?	Yes	No
7.	Does the breaker size meet national, state and local codes for the data plate?	Yes	No
8.	Record the Amperage:.		AMPS
9.	Take pictures of location. Include front , left, back, and right. Include pictures of utilities including drain and any water treatment. Are the Pictures included?	Yes	No
	STEAMERS ONLY		
10.	Is the door aligned properly and does the door switch activate?	Yes	No
11.	Is cold potable water supplied to both water inlet connections? Min I.D. 3/8"	Yes	No
12.	Use test kit #115036O. Send vials of water to Optipure and include copy of water test form sent to Optipure. Note: If the form is not complete this will affect payment. Are copies of the water test form included?	Yes	No
13.	Record the manufacturer of water treatment. Water treatment:		
14.	Is the drain size reduced? Note: Must have a gravity flow from combi to floor drain with minimum 1" air gap. Do not manifold to other equipment. If not please elaborate in Comments.	Yes	No
15.	What is the incoming steam pressure? Note: For direct and steam coil steamers only.	_____PSI	
16.	Does the steamer heat properly?	Yes	No
17.	Are there any leaks in:		
	Gaskets?	Yes	No
	Water lines?	Yes	No
	Door?	Yes	No
	Describe all leaks in detail in Comments		

	Kettles Only		
18.	Is the Kettle in a vacuum when cold?	Yes	No
19.	Check calibration on surface inside the kettle (265 degrees at setting 10)	Temp _____	
20.	Are there any leaks in:		
	Trunnion?	Yes	No
	Steam lines?	Yes	No
	Draw off valve?	Yes	No
	Describe all leaks in detail in Comments		
	Skillets Only		
21.	Are there any leaks in:		
	Hydraulic system?	Yes	No
	Draw off valve?	Yes	No
	Describe all leaks in detail in Comments		

22.	Check calibration		
23.	Does the skillet tilt smoothly?	Yes	No

Comments:

NOTE: START UP FORM MUST BE FILLED OUT COMPLETELY. INCLUDE COPY OF WATER QUALITY FORM AND PICTURES OF INSTALL WITH INVOICE WHEN SUBMITTING TO MANUFACTURER .

Technician:_____ **Service Agency:**_____ **SVC Inv.**_____

CUSTOMER *(Store Manager)* SIGNATURE Date

**** INCLUDE ABOVE WITH STANDARD WARRANTY SUBMISSION****

Model Number Legend

(Model number legend not valid for options and accessories)

1	–	2	3	4	–	5	–	6

POSITION 1 (followed by dash [-])

Width of cabinet base in metric size symbol- "6", "9", "10", "11", - multiplied by 100 equals millimeters.

or: width of unit in inches for Counter Type Convection Steamers, Convection Steamers, **ConvectionPros** and **SteamPros**

POSITION 2

Type of equipment:

- C = Convection Steamer
- CK = Convection Steamer w/kettle combined
- K = Kettle
- S = Skillet
- P = Pressure Steamer
- PC = Pressure/Convection Steamer
- MFS = Metering Filling Station
- MK = Mixer Kettle
- TMK = Twin Mixer Kettle

POSITION 3

Type of power or energy source:

- D = Direct Steam (connected to a separate source)
- E = Electricity
- G = Gas-Natural-other, if specifically identified
- S = Steam Coil Generator-uses where steam available from another source is not clean enough to use on food. (Only one size exists)

POSITION 4

Type of mount:

- L = Legs, open stand or frame
- P = Pedestal
- M = Modular; cabinetized; enclosed
- T = Table top mounted on stand cabinet, table, counter, etc.

POSITION 5

Designation of capacity or input. For Kettles, it will indicate "gallons". For gas and electric generators, it will indicate input of energy in either "KW" or "MBTU". (has a dash [-] before number.)

POSITION 6 (following last dash [-])

Additional detailed information or action.

- F = Indicates a full steam jacket or a kettle.
- T = Indicates a tilting kettle, manual or power pour.

Example:

"TMKEL-100-T" is a Twin Mixer Kettle, Electric, Leg Mounted, 100 Gallon, Tilting. But, being a twin kettle model it has two 100 Gallon Kettles.

or: 36-CGM-200 is a 36 inch wide base, Convection Steamer, Gas powered, Modular cabinet mounted, 200M BTU.

0600

Cleveland Range, LLC
Ph: 1-216-481-4900 Fx: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

Cleveland Range, LLC.
1333 East 179 th Street
Cleveland, OH 44110
Phone: (216) 481-4900
Fax: (216) 481-3782
http://www.clevelandrange.com

Format of Cleveland Range Serial Numbers

Prior to December 2008

1	2	3	4	5	6	7	-	8	9	10	-	11	12
W	C	8	9	3	2	5	-	0	3	A	-	0	1
W	T		3	2	8	7	-	0	3	C	-	0	3

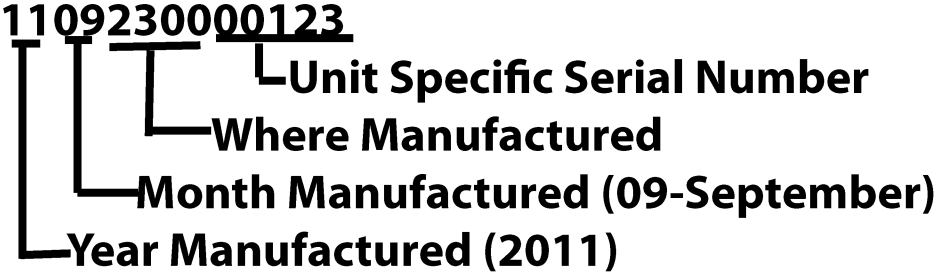
Positions 1 and 2 are the location at which the unit was manufactured
WC =Welbilt Cleveland-build in Cleveland, Oh., steamers
WT =Welbilt Toronto-build in Concord, Canada, kettles, skillets
Positions 3 through 7 are either four or □ve numbers representing the manufacturing batch number

Positions 8 and 9 are the last two numbers of the year the unit was built.

Position 10 will always be an alpha character. **A**=January **L**=December

Positions 11 and 12 Refers to each unit out of the manufacturers batch number.

Serial numbers AFTER December 2008 look something like:



Steam Generator Application Chart

	①			②		③	
	KETTLES ONLY	CONVECTION STEAMERS		PRESSURE STEAMERS		*ConvectionPro® XVI* or *SteamPro® XVI*	
Steam Generator Data	**Maximum Total Capacity**	**Including Kettles(s)**	**Without Kettle**	**Including Kettle(s)**	**Without Kettle**	**Including Kettle(s)**	**Without Kettle**
Gas							
Input 200,000 BTU/hr. Output per hr. 3.6 Bo.hp 125 lbs. Steam/hr.	70 Gal. *	2 Compt. +40 Gal. *	4 Compt.	2 Compt. +55 Gal. *	4 Compt.	N/A	N/A
Input 250,000 BTU/hr. Output per hr. 4.4 Bo.hp 150 lbs. Steam/hr.	85 Gal. *	2 Compt. +50 Gal. *	5 Compt.	2 Compt. +70 Gal. *	5 Compt.	N/A	N/A
Input 300,000 BTU/hr. Output per hr. 5.2 Bo.hp 180 lbs. Steam/hr.	100 Gal. *	2 Compt. +70 Gal. **	6 Compt.	2 Compt. +85 Gal. *	6 Compt.	2 Compt. No kettles	2 Compt.
Electric							
Input per hr. 24 KW Output per hr. 2.0 Bo.hp 70 lbs. Steam/hr.	40 Gal. *	N/A	N/A	2 Compt. +20 Gal. *	2 Compt.	N/A	N/A
Input per hr. 36 KW Output per hr. 3.5 Bo.hp 120 lbs. Steam/hr.	70 Gal. *	2 Compt. +35 Gal. *	4 Compt.	2 Compt. +50 Gal. *	4 Compt.	N/A	N/A
Input per hr. 48 KW Output per hr. 4.3 Bo.hp 150 lbs. Steam/hr.	85 Gal. *	2 Compt. +50 Gal. *	5 Compt.	2 Compt. +70 Gal. *	5 Compt.	2 Compt. No kettles	2 Compt.
Steam Coil							
30 psi supply	Connect kettles directly to building steam	Connect kettles directly to building steam	None	Connect kettles directly to building steam	2 Compt.	N/A	N/A
35 psi supply			2 Compt.		2 Compt.	N/A	N/A
40 psi supply			2 Compt.		2 Compt.	Connect kettles directly to building steam	2 Compt.
45 psi supply			2 Compt.		3 Compt.		2 Compt.
50 psi supply			2 Compt.		3 Compt.		2 Compt.
SteamCraft Power 10 Input 240,000 BTU 180 lbs. Steam/hr.	100 Gal. *	2 Compt. +70 Gal.	6 Compt.	N/A	N/A	N/A	N/A

*In these units, all equipment should not be turned on simultaneously. Operation must be sequential. As an example, with a multiple kettle combination or a steam kettle combination, if more than one piece of equipment must be used at the same time, heat one kettle first. Then, when the steam pressure returns, another kettle or steamer compartment may be started, and so on.

** Not applicable for kettles when using 36 CGM16300.

① KETTLE(S), CALCULATED FOR MEDIUM SPEED COOKING.

② PRESSURE STEAMERS, CALCULATED WITH STEAM FLOW RATE REQUIRED DURING COOKING.

③ ***SteamPro® XVI,*** CALCULATED WITH STEAM FLOW RATE REQUIRED IN CONVECTION MODE.

Cleveland Range, LLC
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Ph: 1-216-481-4900 Fx: 1-216-481-3782
Visit our Web Site at www.clevelandrange.com

Steam Requirement Data

Use these charts to determine the steam flow rate requirements for any combination of Cleveland Kettles or any combination of Cleveland Kettles and/or Steamers.

Steam Flow Rate Requirements for Cleveland Kettles; lbs. per hour with 10-15 psig steam at the kettle

Capacity		Fast	Medium Speed	Stock
Gallon*	Liter	Cooking	Cooking	Kettle
5	17	11	9	6
10	42	22	18	11
25	95	55	44	28
40	151	88	70	44
60	227	132	105	66

*U.S. Gallons

The use of higher steam pressures (20-50 psig) will reduce heat up time 5 to 20%

Example: Select a gas-fired steam generator which will supply steam to a steam jacket kettle and a Convection Steamer.

First, determine the total steam flow requirement as illustrated below:

		Steam flow required – lbs. per hour
(1)	60 gallon kettle (medium speed cooking)	105
(1)	2 compartment Convection Steamer	60
	Total	165

Then run down the list of gas steam generator sizes until you find one rated at 165 lbs. per hour or more.

In this example the selection would be 300,000 BTU gas-fired steam generator. If, instead of a small self contained steam generator, this particular steamer combination was operated with steam from a direct connection to the building's steam mains, the steam flow requirement would be the same, plus 33% more. Therefore, there should be 220 lbs. per hour of steam available just for these two cookers. It is good practice to recommend 33% more steam flow to compensate for steam condensation in the supply piping.

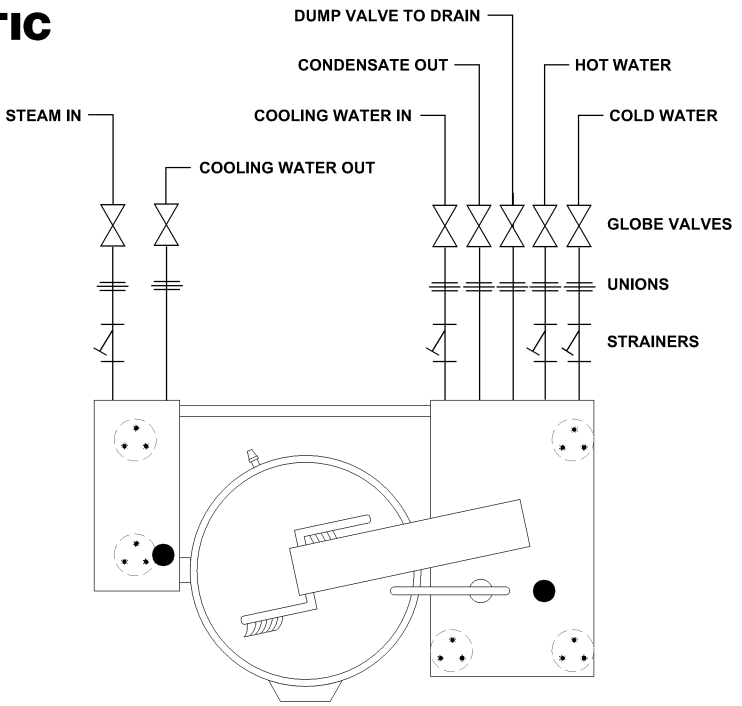
Steam Flow Rate Requirements of Steamers: lbs. per hour

Cleveland Model (Series)	Rate required at start-up per compartment	Rate req'd during cooking per compartment
Convection Steamers	30	30
Pressure Steamers	30	15
ConvectionPro® XVI	75	75
SteamPro® XVI		
(Pressure Mode)	75	38
(Convection Mode)	75	75

Steam Flow Rating of Cleveland Steam Generators

Gas Input BTU per Hour	Steam Output lbs. per hour	Steam Generator
200,000	125	3.6
250,000	150	4.4
300,000	180	5.2
Electric KW Input		
24KW	70	2.0
36KW	120	3.5
48KW	150	4.4

PIPING SCHEMATIC



STEAM REQUIREMENTS FOR KETTLES

Kettle Cap. U.S. Gal.	Kettle Dia.	25 psi Steam 265°F Lbs./Hr.	25 psi Steam 265°F Hp./Hr.	40 psi Steam 287°F Lbs./Hr.	40 psi Steam 287°F Hp./Hr.	80 psi Steam 302°F Lbs./Hr.	80 psi Steam 302°F Hp./Hr.
40	26"	100	3	120	4	150	4.5
60	29.5"	150	4.5	190	5.5	230	7.0
80	33"	210	6.0	260	7.5	300	9.0
100	36"	260	7.5	320	9.5	390	11.0
125	40"	320	9.5	400	11.5	470	14.0
150	40"	390	11.0	480	14.0	570	17.0

- Steam requirements are maximum per hour.
- If more than one unit is on the same line then add the steam usage for each one to reach a total.

STEAM PIPE SIZING

Required pipe length in feet/meters

Steam Required Lbs./Kg. per hour	200 Ft. 60 Meters	400 Ft. 125 Meters	600 Ft. 185 Meters
100/45 Kg.	3/4"	1"	1 1/4"
200/91 Kg.	1"	1 1/4"	1 1/2"
300/136 Kg.	1"	1 1/4"	1 1/2"
400/182 Kg.	1"	1 1/2"	1 3/4"
500/227 Kg.	1 1/4"	1 1/2"	1 3/4"
700/318 Kg.	1 1/2"	1 3/4"	2"
900/409 Kg.	1 1/2"	1 3/4"	2"

NOTES:

- Pipe size in inches.
- Less than 50 PSI (3.4 BAR) pressure, increase pipe size by 1/4".
- 80 to 100 PSI (5.5 to 6.8 BAR), Decrease pipe size by 1/4".

Cleveland Range Solenoid Coil Resistance Ratings

Cleveland Part #	Where used	Voltage/Hz	Resistance ± 10%
22244	NO 3/4" Parker Drain solenoid in older units	120/60	220
22218	NC 1/4"Condensate in all convection steamers and fill in atmospheric	120/60	350
22223	NC 1/4" Water fill on pressure boilers	120/60	165
22193	3/4" steam solenoid	120/60	100
22224	3/8" steam solenoid	120/60	100
22236	3-way solenoid on PCL	120/60	60
22241	2-way solenoid on PCL	120/60	100
22214	1/2" water solenoid	120/60	165
22115	1/2" Steam solenoid	120/60	165
22199	NO 1/4" steam solenoid	120/60	100
22221	NO 1/2" drain solenoid	120/60	55

Service Hoses

ALL HOSE PART NUMBERS ARE SOLD BY THE FOOT ONLY

Technicians must measure the Hose ID and length for field replacement

The hoses listed below are used as water lines:

1/8" I.D. HOSE reinforced silicone condenser lines on older table top steamers. Part # 106664
Hose Clamp part #106526

1/4" I.D. HOSE reinforced silicone fill lines & condenser lines Part # 105850
Hose Clamp part # 106526

1/2" I.D. HOSE reinforced silicone fill lines on 10 pan steamer Part # 08515
Hose Clamp part # 03206

The hoses listed below are used as steam lines or drain lines

1/4" I.D. HOSE silicone vent lines for atmospheric probe and float housings Part # 104379
Hose Clamp Part #104383

3/8" I.D. HOSE silicone convection compartment lines Part # 105279
Hose Clamp Part #107293

1/2" I.D. HOSE silicone vent lines for atmospheric probe and float housings Part # 108820
Hose Clamp Part #1073122

1/2" I.D. HOSE reinforced white EPDM pressure steam line Part # 08504
Hose Clamp Part #03206

3/4" I.D. HOSE reinforced white EPDM pressure steam line Part # 08511
Hose Clamp Part #107312 (spring clamp), 03204 (Worm clamp)

3/4" I.D. HOSE reinforced silicone pressure steam line Part #106093
Hose Clamp Part #03207

1" I.D. HOSE reinforced white EPDM pressure steam line Part # 08510
Hose Clamp Part #03204

1" I.D. HOSE reinforced black EPDM line for compartments *only* Part# 105469
Hose Clamp Part #03204

1 1/4" I.D. HOSE norprene steam and drain lines Part #112317
Hose Clamp Part #102018

BOILER PART NUMBER FOR VARIOUS MODELS

MODEL #	PART #	DESCRIPTION
24CGM100/200	44173001	2 PROBE 100/200,000 BTU GAS
36CGM250/300	44172001	2 PROBE 250/300,000 BTU GAS
24CEM24/36/48 KW	438942	2 PROBE ELECTRIC
24CGP10	107317	VERTICAL PRESSURE GAS
36CSM16	109565	2 PROBE ROUND STEAM COIL
24CGA10	1070251	VERTICAL ATMOSPHERIC GAS
24CGA10.2	FK108015	VERTICAL TWIN ATMOSPHERIC GAS
24CGA6.2	FK108015	VERTICAL TWIN ATMOSPHERIC GAS
21CET8 HINGED LEFT	FK104089	TABLE TOP ATMOPHERIC 8KW
21CET8 HINGED RIGHT	FK1040891	TABLE TOP ATMOSPHERIC 8KW
21CET16 HINGED LEFT	FK104195	TABLE TOP ATMOSPHERIC 16KW
21CET16 HINGED RIGHT	FK1041951	TABLE TOP ATMOSPHERIC 16KW
21CGA5	FK110195	TABLE TOP ATMOSPHERIC GAS

VARIABLE OPTION - ALTITUDE (orifice part number in bold text)					
CGT - NAT (qty 3)		CGP - NAT (qty 8)	CLASSIC - NAT200 (qty 4)	CLASSIC - NAT300 (qty 12)	
Blank - 111820	Blank – 1057052 CGA Blank – 1064028 CGA5	Blank 1057052	Blank - 15451	Blank 111820	
0-1999' - 3 **111849** 0-1999' - 6 **111844** 0-1999' - 3.1/6.1 **1118521**	0-1999' -CGA5 **106402** 0-1999' - A10 **110932** 0-1999' - 6.2,6.2ES,10.2ES **110939** 0-2999' - 10.2 **110929**	0-2999' - P10 **110930**	0-2999' - 200 classic **15453**	0-2999' - 300 classic **111842**	
2000-4999' - 3 **111850**	2000-3999' - CGA5 **107530**	3000-6999' - P10 **110931**	3000-6999' - 200 classic **154511**	3000-5999' - 300 classic **111843**	
2000-4999' - 6 **111845** 2000-6999' - 3.1/6.1 **111853**	2000-2999 - A10 **110933** 2000-2999 - 6.2,6.2ES,10.2ES **110940** 3000-6999 - 10.2 **110930**				
5000-5999' - 6 **111846** 5000-7999' - 3 **111851**	4000-4999' - CGA5 **10640224** 3000-3999' - A10 **110934** 7000-9999' - 10.2 **110931** 3000-4999' - 6.2,6.2ES,10.2ES **110941**	7000-8999' - P10 **110932**	7000-9999' - 200 classic **154513**	6000-7999' - 300 classic **111844**	
8000-10999' -3 **111852** 6000-7999' - 6 **111847** 7000-9999' - 3.1/6.1 **111854**	5000-5999' - CGA5 **107534** 4000-5999' - A10 **110935** 10000-11000' - 10.2 **110932** 5000-6999" - 6.2 **110942**	9000-9999' - P10 **110933**	10000-10999' - 200 classic **154514**	8000-8999' - 300 classic **111845**	
8000-9999' - 6 **111848**	6000-6999' - CGA5 **10640226** 6000-7999' - A10 **110936** 7000-8999' - 6.2,6.2ES,10.2ES **110943**	10000-11000' - P10 **110935**	11000'+ - 200 classic **154515**	9000-9999' - 300 classic **111846**	
10000-10999' - 6 **111849** 10000-12000' - 3.1/6.1 **111855**	7000-7999' - CGA5 **107531** 8000-8999' - A10 **110937** 9000-11000 - 6.2,6.2ES,10.2ES **110944**			10000-10999' - 300 classic **111847**	
	8000-9999' - CGA5 **10640228** 9000-9999' - A10 **110938**				
	10000-11000- CGA5 **10640229** 10000-12000 - A10 **110940**				
CGT - LP (qty 3)	CGA- LP	CGP- LP (qty 8)	CLASSIC - LP200 (qty 4)	CLASSIC - LP300 (qty 12)	
0-2999' - 3 **1118561** 0-4999' - 6 **111855** 0-3999' 3.1/6.1 **1118551**	0-1999' - CGA5 **1064021** 0-1999' - 6.2,6.2ES,10.2ES **110953** 0-1999' - 10.2 **1109491** 0-2999' - A10 **110952**	0-2999'- P10 **110951**	0-1999' - 200 classic **15450**	0-2999' - 300 classic **1118531**	
3000-5999' - 3 **111857** 5000-9999' - 6 **111856** 4000-7999' 3.1/6.1 **111856**	2000-4999' - CGA5 **107533** 3000-7999' - A10 **110953** 2000-3999' - 10.2 **110950** 2000-7999' - 6.2,6.2ES,10.2ES **110954**	3000-6999' - P10 **110952**	2000-2999' - 200 classic **154519**	3000-4999' - 300 clasic **111854**	
6000-6999' - 3 **111858** 10000-10999' - 6 **111857** 8000-9999' 3.1/6.1 **111857**	5000-6999' - CGA5 **107532** 8000-11000' - A10 **110954** 8000-11000' -6.2,6.2ES,10.2ES **110955** 4000-6999' - 10.2 **110951**	7000-9999' - P10 **110953**	3000-5999' - 200 classic **1545110**	5000-8999' - 300 classic **111855**	
7000-8999' - 3 **111859**	7000-8999' - CGA5 **106402144** 7000-9999' - 10.2 **110952**	10000-11000' - P10 **110954**	6000-7999' - 200 classic **1545111**	9000-10999' - 300 classic **111856**	
9000-9999' - 3 **111860**	9000-9999' - CGA5 **106402145**		8000-9999' - 200 classic **1545112**		
10000-10999' - 3 **111861** 10,000-12,000' 3.1/6.1 **111858**	10000-11000' - CGA5 **106402146** 10000-11000' - 10.2 **110953**		10000-10999' - 200 classic **1545050**		
VARIABLE	11000'+ - CGA5 **106402147**		11000'+ - 200 classic **1545051**		

Heating Element Ohms Chart

10-Jan-02

Model #	Part Number	Voltage	Ph	Kw	Ohms	Location	NOTES
3.1,5.1, CEA	103881	208	1 or 3	8	16		
3.1,5.1, CEA	1038811	240	1 or 3	8	20		
3.1,5.1, CEA	1038814	480	1 or 3	8	83		
3.1,5.1, CEA dry	104306	208	1 or 3	300W	145		
3.1,5.1, CEA dry	1040592	460		500W	386		
3.1,5.1, CEA dry	1040594	415V		500W	366		
3.1,5.1, CEA dry	1043061	240	1 or 3	300W	190		
3.1,5.1, CEA dry	1043062	480	1 or 3	300W	760		
BMW Water	108063 see 108259						
BMW Water n/s	108350	120		600-625W	23		
BMW Water o/s	108259	120		625W	23		
BMW-Air	108059	120		1250W	11		
BMW-Air		240			45		overseas
Boiler Base	08165	208/220	3	12	8		
Boiler Base	08166	230/240	3	12	10.6		
Boiler Base	08167	440/480	3	12	40		
Boiler Base	08214	208/220	1	12	4		
Boiler Base	08215	230/240	1	12	5.4		
Boiler Base	08216	440/480	1	12	20		
Boiler Base	08234	600	3	9	39		
Boiler Base	08235	208	3	9	10		
Boiler Base	08236	220/24	3	9	12.5		
Boiler Base	08237	440/480	3	9	50		
Boiler Base	08241	208	1	9	5		
Boiler Base	08242	220/240	1	9	6.5		
Boiler Base	08243	440/480	1	9	26		
Boiler Base	08244	600	1	9	40		
CET-16	101223	208		2666W	16		
CET-16	101224	208		5300W	8		
CET-16	1012231	220-240		2666W	19		
CET-16	1012232	440-480		2666W	78		
CET-16	1012241	220-24		5300W	9		
CET-16	1012252	440-480		5300W	38		
CET-8	101225	208		2.6KW	15		
CET-8	1012251	220-240		2.6KW	20		
CET-8	1012252	460-480		2.6KW	74		
COMBI AIR	65011210	240		9KW	16		
COMBI AIR	65011540	230		7500	22		
COMBI AIR	65015910	208			24		
COMBI AIR	65016070	208			20		
COMBI AIR	65016120	480			30		
COMBI AIR	65016190	208V			16.5		
COMBI AIR N/S	65010565	208		7500	17		
COMBI AIR N/S	65011200	208		9000	15		
COMBI AIR N/S	65011230	480		9000	27		
COMBI AIR N/S	65011300	208		15000	9		
COMBI AIR N/S	65011330	480		15000		TOPSTK70	
COMBI BLR	65020240	208			25		
COMBI BLR	65020350	240		7500	16		
COMBI BLR	65020350				22		

COMBI BLR	65020370				17.5		
COMBI BLR	65025090				25.5		
COMBI BLR	65025110	480V			37.5		
COMBI BLR N/S	65020310	208		7500	17		
COMBI BLR N/S	65020340	480		7500	30		
COMBI BLR N/S	65020380	220		15000	9		
COMBI BLR N/S	65020410	480		15000	15		
Cub	109144	240		1	55		
Cub	1091441	208		1	42		
SC-2	08225	240		5KW	35		
SC-2	08226	208/220		5	28.5		
SC-2	08228	208v		5	26		
SC-2	08229	220-240		5KW	33		
SEL	2231499	230V		2.4KW	24		
SEL-30/40-T4	2491400	480V		6000w	110		
SEL-30/40-T4	2491401	408V		8.0KW	85		
SEL-30/40-T4	2491402	240V		6.0KW	27.4		
SEL-30/40-T4	2491403	240V		8		N/A	
SEL-30/40-T4	2491404	208V		6		J-FL	
SEL-30/40-T4	2491405	208V		8	16		
SEL30-R CTR	2356302	240v		4.8	11.5		
SEL-30-R CTR	2356300	208V		4.8	9		
SEL-30-R CTR	2356305	480V		4.8	48		
SEL30-R SIDE	2373000	208		4.8	8.6		
SEL-30-R SIDE	2373002	240V		4.8	11		
SEL-30-R SIDE	2373005	480V		4.8		K-6FL	
SEL-30-T	077176-1	208V		4	11		
SEL-30-T	077176-2	240V		4	10		
SEL-30-T	077176-3	220V		4	12		
SEL-30-T	077186-1	480V		4	56	SG-0504	
SEL-30-T	077186-2	600V		4		N/A	
SEL-40-R	2373905	480V				N/A	
SEL-40-R CTR	2356200	208V		6	7		
SEL-40-R CTR	2356202	240V		6	9		
SEL-40-R CTR	2356205	480V		6	36		
SEL-40-R SIDE	2372900	208V		6	7		
SEL-40-R SIDE	2372902	240V		6	9		
SEL-40-R SIDE	2372905	480v		6k	36.5		
SEL-40-R SIDE	2373003	380V		4.8	28		
SEL-40-T	077177-1	208V		6	7		
SEL-40-T	077177-2	240V		6	9		
SEL-40-T	077177-3	220V		6	8		
SEL-40-T	077187-1	480V		6	37		
SEL-40-T	077187-2	600V		6		N/A	
SET-10	2231499	230V		2.4KW	24		
SET-15	2276097	230V		7.20KW	22		
SET-15	2276098	230V		9.0KW	17.5		
SET-15	2276099	460V		7.2KW	84		
SET-10	2231498	208		1.9			
SET-10	2231498	230		2.4	23		

Cleveland Training Notes