





CONFORMS TO UL STD. 197 CONFORMS TO NSF/ANSI STD. 4





351GCPG12M, 351GCPG24M, 351GCPG36M, 351GCPG48M, 351GCPG60C, 351GCPG60E, 351GCPG72C, 351GCPG72E



351GUCPG24M, 351GUCPG36M, 351GUCPG48M, 351GUCPG60C, 351GUCPG60E, 351GUCPG72C, 351GUCPG72E

**REVISED 04/2025** 



## **Pre-Installation Checklist**

It is required to check each box once task has been completed.

- Inspect for shipping damage. If damage is Confirm all required tools and parts are found. reach out to customer service. available. Confirm all parts have been delivered. Ensure permits are obtained and on-site. If parts are missing, confirm tracking, Verify shutdown procedures for then reach out to customer service. existing systems. Review user manual before continuing. Photograph pre-installation condition. If combustible surface clearance is required Install any legs or feet provided with the unit by the manual: (unless manual states otherwise). Confirm surrounding surface types (combustible vs. non-combustible). Verify power requirements match data tag: Ensure necessary clearance based Confirm voltage. on surface type. Confirm phase. If ventilation is required: Verify wire gauge requirements. Check clearances. Ensure breaker is properly sized. Confirm ventilation requirements. Refer to local regulations for disconnect Verify site conditions:
  - Ensure installation surface is level.
  - Ensure structural support.
  - Install indoors (if required in the manual).

### **Installation Checklist**

It is required to check each box once task has been completed. Please reference the load charts and wiring diagrams on pages 5-12.

- Disconnect and lockout/tagout power source (we highly recommend both at the local disconnect and the building level).
- Confirm power is off using a multimeter.
- Mount equipment according to manufacturer specifications found in the user manual.
- Connect grounding conductors if present.
- Make connections per wiring diagrams.
- Secure all connections and terminals.

Label all circuits and connections.

requirements for equipment.

- Use restraint device for equipment on casters.
- We highly recommend having 2 feet of excess wire to allow for future servicing.
- All wire must be protected in a flexible or metal coated conduit.
  - Refer to local codes for specific requirements.



### **Post-Installation Checklist**

It is required to check each box once task has been completed.

- Verify all connections are tight and secure.
- Check for proper grounding.
- Complete system startup per manufacturer user manual.
- Verify operation through complete cycle.
- **Stress test:** Using an amp clamp, verify proper amp draw on each leg:
  - Attach amp clamp.
  - Compare amp draw to data tag.
  - If amp draw does not properly align with the data plate, please verify all previous steps.

### **Required Calibration Checklist**

It is required to check each box once task has been completed.

#### **REQUIRED EQUIPMENT**

- Weighted surface thermocouple (Fig. 1).
- Straight slot flathead micro screwdriver.



#### INSTALLATION VERIFICATION

#### Set Temperature:

- Set each griddle zone to 350°F.
- Verify surface temperature using weighted surface thermocouple:
  - a. If griddle heats and reaches  $350^{\circ}F + 10^{\circ}F$ , the process can end here.
  - b. If it fails to reach set temperature on scale, perform calibration process on page 4.

**NOTE:** If griddle does not heat at any set temperature or constantly heats in all positions, contact RKW.



#### **CALIBRATION PROCESS**

Set and Measure:

- 1. With griddle powered on, set thermostat for the first zone to 350°F.
- 2. Note what temperature it stabilizes at using the thermocouple.
- Remove Knob:
  - 1. Pull thermostat knob from the zone you are calibrating straight off, avoid twisting or angled pulling (Fig. 2).
  - 2. Once the knob is removed, a metal shaft will be visible (Fig. 3).
- Insert Screwdriver:
  - 1. Place straight slot flathead micro screwdriver into hollow center of shaft and engage the slot (Fig. 3).
- Make Adjustment:
  - 1. Hold outer metal portion of shaft with one hand, and initially turn the center adjustment screw a quarter turn to test change amount.
  - 2. Increase Temperature: Clockwise turns will raise the temperature setting.
  - 3. Decrease Temperature: Counterclockwise turns will lower the temperature.

#### Verify Changes:

- 1. Allow griddle to heat or cool several minutes to verify new temperature with thermocouple.
- 2. Note that the indicator light remains on when thermostat is set above zero.
- Further Adjustment: Based on test results, turn screw further if needed to reach set 350°F temperature.
- Confirm Setting: Allow element to heat or cool several minutes to verify new temperature.
- Replace Knob: Once set temperature is correct, place knob back on thermostat shaft.
- Align Properly:
  - 1. Ensure knob's flat side in mounting hole aligns with thermostat shaft (Fig. 4). Do not force; it should fit with minimal effort.





Adjustment screw is inside the shaft.



Align the flat spot on the knob mounting hole with the shaft on the griddle.



### **Load Charts**

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Copper wire only, suitable for minimum 194°F / 90°C. Wire sizes shown are the minimum size allowable. Connection work to be completed to applicable federal, state, and local codes.

5			-											Single Phase								
51GCPG12N	Voltage						-											208		240		
	Rated Wattage						-												3000		400	0
	Wire Connect						-											-		-		
	Nominal Amps Per Line						-											15		17		
ო	Minimum Wire Size						-											AWG 2	.6	AWG 14		
Σ		Pha	ise				Three Phase													Single Pl	nase	
24	Voltage						208 240											208		240		
D d	Rate	ed V	Vattag	e				(	6000		8					00			6000		8000	
С Ю	Wi	re Co	onnec	t			Х	Y			Z		Х		Y		Z		X-Z		X-Z	
351	Nomina	l Am	ps Pe	r Line	2		15	25			15		17		29	)	17		29		34	
,	Minim	um \	Wire S	Size		_		A١	NG 12	2					AWG	10			AWG 10 AWG 8			
Σ		Pha	ise				Three Phase												Single P	Phase		
i36	Voltage				_	208								24	240			208		240		
БЧ	Rated Wattage							9000						1		12000			9000		12000	
บัย	Wi	Wire Connect					Х		Y		Z	Х			Y		Z		X-Z		X-Z	
351	Nominal Amps Per Line						25		25		25		29		29	29 29			44		50	
	Minimum Wire Size						AVVG 12 AVVG 10									AWG	6					
5	Phase Three Phase 1-Break					aker	Three Phase 2-Breaker									Single Phase 2-Breaker						
48	Voltage	age 208				240		208 (Left)			208 (Right)			) 240		/ (Left) 240 (F		(Right)	208 (Left)	(Right)	(Left)	(Right)
Ъ	Rated Wattage	12000				16000	6000		6000		6	000			8000	3000		000	6000	6000	8000	8000
СC	Wire Connect	Х	Y	Ζ	х	Y	Ζ	Х	Y	Z	х	Y	Z	Х	Υ	Z	х	Y Z	X-Z	X-Z	X-Z	X-Z
351	Nominal Amps Per Line	39	39	25	45	45	29	15	25	15	15	25	15	17	29	17	17	29 17	29	29	34	34
	Minimum Wire Size	AWG 6				AWG 6	/G 6 AWG 12 AWG 12 AWG 10 AWG								/G 10	0 AWG 10 AWG 8						
	Phase						Three Phase 2-Breaker											Single Phas	ise 2-Breaker			
¥00	*C=208v *E=240v	208 (Left)					20	08 (Right)				240 (L	.eft)			24	40 (Right		208 (Left)	208 (Right)	240 (Left)	240 (Right)
ЪĞ	Rated Wattage	6000			6000			9000				800	8000			12			6000	9000	8000	12000
С С С	Wire Connect	х		Y	Z	:	×	Y	Z		Х	Y		Z		x	Y	Z	X-Z	X-Z	X-Z	X-Z
351	Nominal Amps Per Line	15	5	25	15	2	5	25	25		17	29	)	17	1	29	29	29	29	44	34	50
	Minimum Wire Size		AW	/G 12			A	WG 12	2			AWG	10				AWG 10		AWG 10	AWG 6	AWG 8	AWG 6
	Phase						Three Phase 2-Breaker										Single Phase 2-Breaker					
72*	*C=208v *E=240v	208 (Left)				208 (Right)					240 (Left)					2	40 (Righ	:)	208 (Left)	208 (Right)	240 (Left)	240 (Right)
PG.	Rated Wattage	9000			)		90		9000				12000				12000		9000	9000	12000	12000
1GC	Wire Connect	Х		Y	Z	2	×	Y	Z		х	Y		Z		Х	Y	Z	X-Z	X-Z	X-Z	X-Z
351	Nominal Amps Per Line	25	5	25	25	2	5	25	25		29	29	)	29	:	29	29	29	44	44	50	50
	Minimum Wire AWG Size 12					AWG 12				AWG 10						AWG 10		AWG 6		AWG 6		



### **Load Charts**

Copper wire only, suitable for minimum 194°F / 90°C. Wire sizes shown are the minimum size allowable. Connection work to be completed to applicable federal, state, and local codes.

Σ	Phase						Three Phase											Single Phase						
51GUCPG24		Voltage					208 240									208			240					
	Rated Wattage					6000					80					3000			6000		8000			
	Wire Connect					Х	K Y Z		Х	X Y			Z		X-Z		X-Z							
	Nominal Amps Per Line						15 25 15				17	7 29			17		29		34					
ä	Minimum Wire Size						A	WG 12	2	AV				AWG :	WG 10			AWG 10			AWG 8			
Σ	Phase						Three Phase												Single Phase					
336		Volt	tage	e			208 240											208		240				
Å,	Rat	ed V	Wat	tage				1	9000						1200	C			9000			12000		
	Wi	re C	Conr	nect			Х	ХҮ			Ζ	z X			Y		Z		X-Z		X-Z		Z	
51(	Nomina	Nominal Amps Per Line					25	25			25	5 29		29	29 29		)	44		50		)		
m	Minimum Wire Size					AWG 12					AWG 10								AWG 6		AWG 6			
51GUCPG48M	Phase	Three Phase 1-Brea				aker						Thre	e Phas	e 2-Bre	eaker					Single Phase 2-Breaker				
	Voltage	208		208 2		240		208 (Left)			208 (Ri		ght) 240		40 (Left)	(Left) 240 (Rig		ht)	208 (Left)	208 (Right)	240 (Left)	240 (Right)		
	Rated Wattage	12000			16000			6000		600		0 8		8000	000 8000			6000	6000	8000	8000			
	Wire Connect	х		Y Z	х	Υ	Z	х	Y	z	х	Y	z	х	Υ	Z	х	Y	Z	X-Z	X-Z	X-Z	X-Z	
	Nominal Amps Per Line	39	3	39 25	45	45	29	15	25	15	15	25	15	17	29	17	17	29	17	29	29	34	34	
m	Minimum Wire Size	AWG 6 A				AWG 6	NG 6 AWG				2 AWG			12 AW			A	WG 1	.0 AWG 10			AW	/G 8	
	Phase						Three Phase 2-Breaker									Single Phase 2-Breaker								
<b>60</b> *	*C=208v *E=240v		208 (Left)				208 (Right)					240	(Left)		24	40 (Righ	it)	208 (Left)		208 (Right)	240 (Left)	240 (Right)		
ЪЧ	Rated Wattage	6000					9000				8	8000			12000				6000	9000	8000	12000		
DUE	Wire Connect	×	<	Y	Z		x	Y	Z		х		Y	Z	х		Y	Z	2	X-Z	X-Z	X-Z	X-Z	
51	Nominal Amps Per Line	1	5	25	15	2	25	25	25	;	17		29	17	29		29	2	9	29	44	34	50	
(1)	Minimum Wire Size	AWG 12					AWG 12					AW	/G 10			AWG 10				AWG 10	AWG 6	AWG 8	AWG 6	
	Phase						Three Phase 2-Breaker									Single Phase 2-Breaker								
:PG72*	*C=208v *E=240v	3v 208 (Left)					208 (Right)				240 (Left)				240 (Right)				208 208 (Left) (Rig!		240 (Left)	240 (Right)		
	Rated Wattage		9000		)				9000		1		12000					12000		9000	9000	12000	12000	
BUG	Wire Connect	×	<	Y	Z		x	Y	Z		х		Y	Z	Х		Y		Z	X-Z	X-Z	X-Z	X-Z	
51	Nominal Amps Per Line	2	5	25	25	2	25	25	25	;	29		29	29	29		29		29	44	44	50	50	
ŝ	Minimum Wire Size	AWG 12					AWG 12				AWG 10				AWG 10				AW	/G 6	AWG 6			



### Wiring Diagram

CPG12M

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351GC	CPG12M 12" GRIDDLE								
ITEM	DESCRIPTION								
JB	JUNCTION BOX								
IL1	INDICATOR LIGHT 1								
EL1	ELEMENT 1								
TS1	THERMOSTAT 1								

NOTE: DEVICES ARE NUMBERED FROM LEFT TO RIGHT FACING THE FRONT OF THE UNIT ON THIS DIAGRAM.



## Wiring Diagram

CPG24M

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NOTE: DEVICES ARE NUMBERED FROM LEFT TO RIGHT FACING THE FRONT OF THE UNIT ON THIS DIAGRAM.

TS2	EL2	IL2	TS1	EL1	IL1	JB	ITEM	351GC	
THERMOSTAT 2	ELEMENT 2	INDICATOR LIGHT 2	THERMOSTAT 1	ELEMENT 1	INDICATOR LIGHT 1	JUNCTION BOX	DESCRIPTION	CPG24M 24" GRIDDLE	



## Wiring Diagram

CPG36M

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## Wiring Diagram

CPG48M

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### Wiring Diagram

CPG60E & CPG60C

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### Wiring Diagram

CPG72E & CPG72C

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