SchwankCore



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Canada

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Schwank
Heating. Design. Comfort.

www.schwankgroup.com

Heating Solutions

Outdoor/Patio Heaters

Outdoor Heaters

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General Information

Outdoor/Patio Heater Models

Outdoor heater selection guidelines

Schwank Design Forms

Outdoor & patio layouts and conditions differ widely and usually require a unique heating solution for each space. Below are some guidelines to assist in the selection of heaters for your outdoor project. Schwank offers design services for outdoor & patio projects.

Product warranty

Since 1951 Schwank has maintained a reputation of building quality industrial heaters. For this reason, and for our customer's protection, Schwank is prepared to support its heating equipment with the most comprehensive warranties in the industry.

Schwank warrants to the Purchaser that Schwank gas fired infra-red radiant heaters and all parts, are free from defects in material or workmanship under normal use and service for the periods of time listed on each product page.

Optional accessories and replacement parts are covered by the part manufacturer's warranty: typically 1-year. Product warranties consist only of providing a like replacement part for any defective part during the term of the warranty, F.O.B. Schwank.

Fuel Type and Field Conversion

1. Gas fired infrared radiant heat is ideal for "spot comfort" applications like patios, waiting lines, and smoking areas.
2. Regardless of temperature, wind-chill has a great impact on comfort and heater performance. Any wind break will improve outdoor comfort.
3. Heating customers from at least two sides is much more effective than heating from only one side.
4. If a project faces budget constraints, it is most effective to heat only a portion of a patio. Spreading too few heaters over a larger area will not satisfy customers nor the owner.
5. An investment in patio heating results in additional comfortable seating more cost-effectively than any other renovation.
6. 24-volt control patio heater models can be centrally operated from a patio panel, or by remote control.

	STP	2300	SPW- Z	STW-JZ	ES ESD
Open Patio Area	▯	▯			
Canopy / Roof Over	▯	▯	▯	▯	▯
Enclosed Area	▯	▯	▯	▯	▯
Coastal Salt-Air Location	▯	▯		▯	
Perimeter Mount	▯	▯	▯	▯	▯
Permanent Mount	▯	▯	▯	▯	▯
Central Panel Control	▯	▯	▯	▯	▯
Remote Hand Set Control		▯	▯	▯	

Notes:
▯ = High-intensity approved for indoor and covered areas provided sufficient exhaust:
CAN: B149.1 requires 300 cfm interlocked exhaust for each 100,000 Btuh input

USA: National Fuel Gas Code (NFPA 54) requires 4 cfm for each 1,000 Btuh input

▯▯ = Two Stage 2152-SS is available NG Only

phantomSchwank STP Series

Outdoor Patio Tube Heater

www.schwankgroup.com/products/tube-heaters/phantomschwank



Features

The phantomSchwank offers intuitive smart wireless control, versatile mounting options, wind resistance, and EC Motor ultra-quiet operation.

- 35,000 – 115,000 input BTU/HR models
- 12'and 17' heater lengths
- Available in NG 2-stage models, with optional LP conversion kit
  Mounting options range from 8' to 16' heights
- Built-in wireless smart controls, with easy use from mobile app or web browser
- Screwless swing-down cabinet for improved serviceability
- High-efficiency EC Motor
- Warranty includes; 10-year burner, 10-year tubes, 3-year components
-

2-Stage Complete Tube Heater Systems

ORDER BY KIT PART #	CAPACITY INPUT: High	CAPACITY INPUT: Low	TUBE LENGTH	FUEL	Conversion Kit #
STP-TA05-10-BN	50,000	35,000	10	NG	JS-0554-LL-TP
STP-TA08-10-BN	80,000	60,000	10	NG	JS-0554-NL-TP
STP-TA11-15-BN	115,000	80,000	15	NG	JS-0554-PL-TP

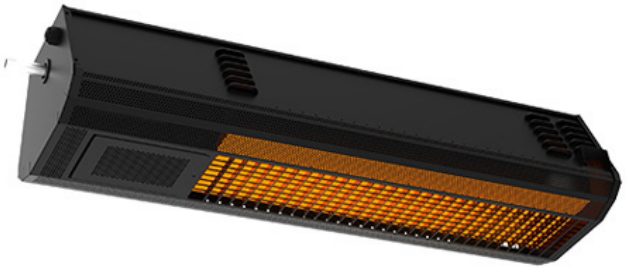
phantomSchwank Accessories

PART #	DESCRIPTION
JS-0507-BA-K10	STP mounting kit, 0 degree, 10 ft tube
JS-0507-BA-K15	STP mounting kit, 0 degree, 15 ft tube
JS-0507-BB-K10	STP-TA05/08 mounting kit, 30 degree, 10 ft tube
JS-0507-BF-K15	phantomSchwank STP mounting kit, 30 degree, 15 ft tube
JS-0507-BC-K10	STP-TA05/08 mounting kit, 45 degree, 10 ft tube
JS-0507-BH-K15	phantomSchwank STP mounting kit, 45 degree, 15 ft tube
JM-0225-XX	Two-stage rotary control
JL-0771-RC	Type 1 Hose connector - 1/2" x 30"
JS-0554-LL-TP	Conversion kit, two-stage STP 50/35 MBH, NG to LP
JS-0554-NL-TP	Conversion kit, two-stage STP 80/60 MBH, NG to LP
JS-0554-PL-TP	Conversion kit, two-stage STP 115/80 MBH, NG to LP

supremeSchwank 2300 Series

Outdoor Patio High-Intensity Heater

www.schwankgroup.com/supremeschwank



Features

- Best suited for open patios and outdoor spaces
-
- Single-stage: 23,000 and 35,000 Btuh: NG/NP
- Two-stage 50,000/35,000: NG
- 30. 5", 43.5", and 48.25" heater lengths
- 8ft minimum mounting heights
- 2 electrical supply & ignition
- All models have a black emissive coated (316) marine grade stainless steel lens - does not oxidize even in harsh environments - lens is black emissive coated.
- Warranty includes; 3-year ceramic burner, 1-year components

Single-stage supremeSchwank

ORDER BY PART #	MODEL	INPUT	GAS	FINISH
MO-2312-NG	2312	23,000	NG	Marine Grade S/S BLACK - High Temperature
MO-2312-LP	2312	23,000	LP	Marine Grade S/S BLACK - High Temperature
MO-2313-NG	2313	35,000	NG	Marine Grade S/S BLACK - High Temperature
MO-2313-LP	2313	35,000	LP	Marine Grade S/S BLACK - High Temperature

Two-stage supremeSchwank

ORDER BY PART #	MODEL	INPUT	GAS	FINISH
MO-2352-NG	2352	50/35000	NG Only	Marine Grade S/S BLACK - High Temperature

Outdoor/Patio Heater

Accessories

Gas Conversion Kits

Models	Part #	Description
supremeSchwank 2313	JX-0253-XF	NG to LP
supremeSchwank 2313	JX-0252-XF	LP to NG

NOTES: Models 2352 & 2312 are NG Only, and Not Convertible to LP

supremeSchwank Gas Connection

Description	Part #
Stainless Steel Flexible Gas Connector 1/2" x 24"	JL-0771-XX
Black Flexible S/S Gas Connector - 3/8"x 24" (1/2"Mx1/2"M)	JL-0771-OD



Wall Mount Bracket



Pole Mount Bracket



Wall Mount Arm Kit



Universal Mount Kit

Mounting options

Part #	Model	Item
JP-2100-MB	2352 Series	Wall mount brackets: Painted steel black
JP-2100-MB-SS	2352 Series	Wall mount brackets: Stainless steel
JP-2300-MB	2312 & 2313 Series	Wall mount brackets: Painted steel black
JP-2300-MB-SS	2312 & 2313 Series	Wall mount brackets: Stainless steel
JP-2300-PK	2300 Series	4” Pole Mount Assembly: Painted steel black
JP-2300-PK-SS	2300 Series	4” Pole Mount Assembly: Stainless steel
JP-2300-MK	2300 Series	Wall mount arm kit: Painted steel black
JP-2300-MK-SS	2300 Series	Wall mount arm kit: Stainless steel
JP-2100-CB-K	2300 Series	Universal mount kit: Stainless steel black

Notes:
1. Wall Mount: Mount heater at 30° angle, 11.5” from wall and combustible clearance from wall.
2. Wall Mount: 11” x 7” minimum mounting surface footprint.
3. Pole mount: comes with Pole Clamp + Heater Bracket.
4. Wall mount arm kit: locates heater 30 inches from mounting surface at 30° Angle, and hardware needed for fastening to structure is field supplied.

Wireless Control for Single-stage Heaters

Order Items Seprately Part #	Description
JP-1236-RK	Remote Control Receiver Kit field installs in burner: REQUIRED Order one for each heater - High-intensity or Tube type
JP-1236-HS	Hand Set Control (four On/Off buttons): REQUIRED - Order one for every four zones: a zone is 1 or more heaters - Control up to 4 individual heaters or up to 4 zones
JP-1236-KT	Wireless Remote Control Keypad Transmitter: OPTIONAL - JP-1236-HS Required for master code programming - Control up to four patio zones - 3 Zones with unique 4 digit pin & 1 zone with direct push button - Weather resistant: Outdoor or indoor installation


JP-1236-RK


JP-1236-HS


JP-1236-KT

Patio Panel - Central Control of Single-Stage Heater Systems

Part #	Model	# of Heaters
JM-0204-NT	PCP-4	Up To 4
JM-0208-NT	PCP-8	Up To 8
JM-0212-NT	PCP-12	Up To 12



Notes:
1.Single heater per each patioPanel switch is recommended for best comfort control
2.Panel switches have 24 volt capacity
3.24V transformer not included

Two-Stage Controls: Illuminated Switch Gang


JM-0201-TS


JM-0202-TS


JM-0203-TS

Part #	24VAC Switch	Control
JM-0201-TS	Single Switch Gang	1 Zone of 1 To 4 Heaters
JM-0202-TS	Double Switch Gang	2 Zones: 2 To 8 Heaters
JM-0203-TS	Triple Switch Gang	3 Zones: 3 To 12 Heaters
JM-0225-XX	2-stage rotary control	

Notes:
1. Switch gangs have special “Off, On, On” sequence required for heater operation
2. Do not use a switch with “On, Off, On” sequence

Zone Transformers 24Vac

Part #	Size	# of Heaters	Type
JL-0776-XX	40 VA Transformer	1	4”x 4” Electrical Box Mount
JL-0778-XX	100 VA Transformer	Up to 4	Closed Type
JL-0779-XX	150 VA Transformer	Up to 6	Closed Type
JL-0780-XX	200 VA Transformer	Up to 9	Closed Type
JL-0781-XX	250 VA Transformer	Up to 11	Closed Type
JL-0781-AA	350 VA Transformer	Up to 16	Closed Type

Notes for all 2300 Series Models:
1. Each zone transformer is sized to suit the total number of heaters being controlled in the zone.
2. Remote control of 2300 Series heaters requires a 24 volt transformer sized to suit the total number of heaters installed.

Notes for 24V Transformer sizing guide:
1. sportSchwank & 2300 Series heaters
2. On a single heater use one 40 VA transformer.
3. On a zone with multiple heaters, use a transformer sized at 40 VA per first heater and a 20 VA per each additional heater.

eSchwank Titan Series

Indoor/Outdoor Electric Light Industrial Heater

www.schwankgroup.com/eschwank

Features



The eSchwank Titan Series offers a short wavelength for high-intensity heat output, and rapid ramp-up. With versatile mounting design with vertical and horizontal options for optimal heat distribution in high ceiling applications.

- 6kW wattage model
- 51" heater length
- Available in 208V ~3P
- Mounting options range from 10' to 20' heights
- Indoor or outdoor rated IP65
- Zero emissions - no direct CO2 or NOx emissions
- Unit comes equipped with wall/ceiling mount brackets. Optional grills and controls are sold separately.
- Surface mount only, no recess option
- Warranty includes; 2-year

eSchwank Titan Series Electric IR Heater

		Electrical		
Order by Part #	Description	Voltage	Current	Wattage
ESS-6051-20	eSchwank Titan Series Electric Infrared Heater: Black Aluminum, 6kW, 208V ~3P; 51" Length	208	16.7	6,000

On/Off Controls

Item number	Description
JM-4501-XX	1/3 PH Electric heater disconnect switch, wall mount, 600V, 40A

Contactor Panels

Item number	Description
ECP-C02-2030	2 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, Up To 30A Fuses
ECP-C02-2060	2 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, >30A To <60A Fuses
ECP-C03-2030	3 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, Up To 30A Fuses
ECP-C03-2060	3 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, >30A To <60A Fuses
ECP-C04-2030	4 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, Up To 30A Fuses
ECP-C04-2060	4 Contactors Control Panel, 1/3 PH Electric Heater, 208V, 24V Control, >30A To <60A Fuses

Accessories

Item number	Description
JE-0602-KT	3 pcs Kit, Front Protection Grille for ESS-XX51 Heater

eSchwank Ghost Series

Indoor/Outdoor Electric Patio Heater

www.schwankgroup.com/electricschwank

Features



The eSchwank Ghost Series offers a carbon fiber element for a longer lifespan, medium wavelength for fast heating, and rapid ramp-up for this electric infrared indoor/outdoor model. Plus, a space-saving mounting design with adjustable angles and a discreet low-profile design.

- and 6000W wattage models
- 25" heater length
- Available in 208V / 240V ~1P
- Mounting options range from 8' to 14' heights
- Indoor or outdoor rated IP65
- Zero emissions - no direct CO2 or NOx emissions
- Unit comes equipped with wireless remote control, protective grills and wall/ceiling mount brackets
- Surface mount only, no recess option
- **Each heater comes with a remote control. For fixed mount controls see page 5758**
  Warranty includes; 2-year
-

eSchwank Ghost Series Electric IR Heater

Order by Part #	Description	Electrical Voltage	Amps	Wattage
ESM-4043-24	eSchwank Ghost Series Electric Infrared Heater: Black Aluminum, 4kW, 240V ~1P; 43.25" Length	240	16.67	4,000
	eSchwank Ghost Series Electric Infrared Heater: Black Aluminum, 4kW; 208V~1P; 43.25" Length	208	14.42	3,000
ESM-6043-24	eSchwank Ghost Series Electric Infrared Heater: Black Aluminum, 6kW, 240V ~1P; 43.25" Length	240	25	6,000
	eSchwank Ghost Series Electric Infrared Heater: Black Aluminum, 6kW, 208V ~1P; 43.25" Length	208	21.63	4,500

eSchwank ES/ESD Series

Indoor/Outdoor Electric Heater

www.schwankgroup.com/electricschwank



Features

Best suited to enclosed or covered patios, sports venues, balcony or terrace, hobby and garage workshops, warehouse facilities, and small spaces where natural gas or propane supply is impractical.

- Available in 1500, 2000, 2600, 3000, 4000, 5000, and 6000 Watts
  120V, 208V, 240V, 277V, and 480V - 1 PH options
- 33", 39", 48", 61.25" heater length
- Available in single-stage, two-stage and variable heat options
- Single bulb or dual bulb, mediumwave quartz bulb
- Mounting heights 6ft – 14ft (ceiling, flush mount/recessed, and post mount options)
- Attractive stainless-steel finish – custom colors available in black, white, beige, and mineral bronze
- (custom colors have a longer lead time contact Schwank factory for pricing)
  Heaters greater than 1500 Watts are for "Commercial Use Only."
- Warranty includes; 2-year components
-

eSchwank ES/ESD Series IR Heater

Order by Part #	Application	Capacity	Electrical Voltage	Amps	Model
ES-1533-12	Outdoor / Indoor **	1500 Watts	120Vac	12.5	ES-1533
ES-2039-20	Outdoor / Indoor	2000 Watts	208Vac	9.6	ES-2039
ES-2039-24	Outdoor / Indoor	2000 Watts	240Vac	8.3	ES-2039
ES-2648-20	Outdoor / Indoor	2600 Watts	208Vac	12.5	ES-2648
ES-2648-24	Outdoor / Indoor	2600 Watts	240Vac	10.8	ES-2648
ES-3033-20	Outdoor / Indoor	3000 Watts	208Vac	14.4	ESD-3033
ES-3033-24	Outdoor / Indoor	3000 Watts	240Vac	12.5	ESD-3033
ES-3061-20	Outdoor / Indoor	3000 Watts	208Vac	14.4	ES-3061
ES-3061-24	Outdoor / Indoor	3000 Watts	240Vac	12.5	ES-3061
ES-4039-20	Outdoor / Indoor	4000 Watts	208Vac	19.2	ESD-4039
ES-4039-24	Outdoor / Indoor	4000 Watts	240Vac	16.7	ESD-4039
ES-4061-20	Outdoor / Indoor	4000 Watts	208Vac	19.2	ES-4061
ES-4061-24	Outdoor / Indoor	4000 Watts	240Vac	16.7	ES-4061

Order by Part #	Application	Capacity	Electrical Voltage	Amps	Model
ES-5248-20	Outdoor / Indoor	5200 Watts	208Vac	25	ES-5248
ES-5248-24	Outdoor / Indoor	5200 Watts		21.7	ES-5248
ES-6061-20	Outdoor / Indoor	6000 Watts	208Vac	28.8	ESD-6061

Notes:

2. Heaters greater than 1500 Watts are for “Commercial Use Only.

eSchwank ES/ESD Series

Controls & Accessories



On/Off Controls

Part #	Description	Electrical Voltage	Amps
JM-4400-XX	Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box	208/240/277V	20 Max
JM-4405-XX	Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box	208/240/277V	20 Max
JM-4410-XX	Single - Flush Mount c/w Weatherproof Cover	208/240/277V	20 Max
JM-4415-XX	Dual - Flush Mount c/w Weatherproof Cover	208/240/277V	20 Max
JM-4420-XX	Single - Surface Mount c/w Weatherproof Gang Box and Cover	208/240/277V	20 Max
JM-4425-XX	Dual - Surface Mount c/w Weatherproof Gang Box and Cover	208/240/277V	20 Max



Two-stage Controls

Designed for use with dual bulb ESD heaters ONLY. (Ability to turn each bulb on and off independently).

Part #	Application	Electrical Voltage	Amps
JM-4300-XX	Single Duplex - Flush Mount c/w S/S Wall Plate and Gang Box	208/240/277V	20 Per switch
JM-4305-XX	Dual Duplex - Flush Mount c/w S/S Wall Plate and Deep Box	208/240/277V	20 Per switch
JM-4310-XX	Single Duplex - Flush Mount c/w Weatherproof Cover	208/240/277V	20 Per switch
JM-4315-XX	Dual Duplex - Flush Mount c/w Weatherproof Cover	208/240/277V	20 Per switch
JM-4320-XX	Single Duplex - Surface Mount c/w Weatherproof Box and Cover	208/240/277V	20 Per switch
JM-4325-XX	Dual Duplex - Surface Mount c/w Weatherproof Box and Cover	208/240/277V	20 Per switch



Variable Controls

Designed for use with single bulb heaters up to 3000 watts ONLY (max 15 amps).

Part #	Application	Electrical Voltage	Amps
JM-4100-XX	Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box	120v	15 Max
JM-4105-XX	Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box	120v	15 Max
JM-4110-XX	Single - Flush Mount c/w Weatherproof Cover	120v	15 Max
JM-4115-XX	Dual - Flush Mount c/w Weatherproof Cover	120v	15 Max
JM-4120-XX	Single - Surface Mount c/w Weatherproof Gang Box and Cover	120v	15 Max
JM-4125-XX	Dual - Surface Mount c/w Weatherproof Gang Box and Cover	120v	15 Max
JM-4200-XX	Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box	240V	15 Max
JM-4205-XX	Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box	240V	15 Max
JM-4210-XX	Single - Flush Mount c/w Weatherproof Cover	240V	15 Max
JM-4215-XX	Dual - Flush Mount c/w Weatherproof Cover	240V	15 Max
JM-4220-XX	Single - Surface Mount c/w Weatherproof Gang Box and Cover	240V	15 Max
JM-4225-XX	Dual - Surface Mount c/w Weatherproof Gang Box and Cover	240V	15 Max



Solid State Relay Panel

The Solid State Relay Panel and Zone Analog Controller (with or without optional timer) work together. All Relay Panels are NEMA 4 RATED, and completely weather resistant. Maximum of 9,000 watts @ 240V or 8,000 watts @ 208V per relay.

Part #	Description
JM-4051-XX	1 Relay Control Panel
JM-4052-XX	2 Relay Control Panel
JM-4053-XX	3 Relay Control Panel
JM-4054-XX	4 Relay Control Panel
JM-4055-XX	5 Relay Control Panel
JM-4056-XX	6 Relay Control Panel



Zone Analog Controller

The ability to adjust heating intensity. All Controllers are NEMA 12 RATED, and can be exposed to mist, but not direct rain. Each Intensity Control Knob can control a maximum of three relays in the Relay Panel.

Part #	Description
JM-4045-XX	1 Zone Analog Controller with Digital Timer
JM-4046-XX	2 Zone Analog Controller with Digital Timer
JM-4047-XX	3 Zone Analog Controller with Digital Timer
JM-4048-XX	4 Zone Analog Controller with Digital Timer

Home Management Relay Panel

Integrate eSchwank ES/ESD Series heaters directly into your home management system. All Relay Panels are NEMA 4 RATED, and completely weather resistant. Note: Requires 0-10V DC Signal.



Part #	Description
JM-4061-XX	1 Relay Home Management Control Panel
JM-4062-XX	2 Relay Home Management Control Panel
JM-4063-XX	3 Relay Home Management Control Panel
JM-4064-XX	4 Relay Home Management Control Panel
JM-4065-XX	5 Relay Home Management Control Panel
JM-4066-XX	6 Relay Home Management Control Panel

Custom Control Panels

Custom Control Panels for the eSchwank ES/ESD Series heaters for larger quantities or zones of heaters than what our standard control panels can accommodate. Contact your Schwank representative for custom control panel configuration and pricing.

Recessed Mounting Options For ES/ESD models

ORDER BY PART #	DESCRIPTION
JE-0520-33	33” recessed mount frame S/S
JE-0520-39	39” recessed mount frame S/S
JE-0520-48	48" recessed mount frame S/S
JE-0520-61	61.25”recessedmount frame S/S

Color Options for ES/ESD models

Contact your Schwank representative for information on how to order colored heaters & frame kits.

Part #	Color
JE-0500-AL	Almond
JE-0500-BE	Beige
JE-0500-BK	Black Textured
JE-0500-BR	Mineral Bronze
JE-0500-BS	Biscuit
JE-0500-WH	White

Recessed Kits Custom Color Options For ES/ESD models

Part #	Color
JE-0520-BK	Black
JE-0520-WH	White



eSchwank ES/ESD Series

Electromechanical Relay Package

Features

Schwank offers a wide range of custom control options in our industry to meet the needs of any residential or commercial application. The Electromechanical Relay (EMR) package allows you to install and control your heaters using any 24/120V thermostat. It also provide you the capability to control one or more heaters in a specified zone (Zone Heating).

This package includes NEMA 4 rated enclosure kit and appropriate relay depending on the number of heater amp draw.

Note: All electrical parts will be shipped loose and the wiring should be completed in the field by an authorized electrician/contractor. It should be approved by the local jurisdiction







Control Panel Enclosure Kit - NEMA 4 RATED

Part #	Description
JM-4000-XX	Control Panel Enclosure Kit - NEMA 4 Rated Kit Includes: 1 x Enclosure - NEMA 4 RATED 1 x Terminal Block 1 x Transformer - 40VA

Electromechnical Relays (EMR)



Part #	Description
JM-4010-XX	18 Amp Relay - 18A/600VAC/24VAC
JM-4015-XX	32 Amp Relay - 32A/600VAC/24VAC
JM-4020-XX	50 Amp Relay - 50A/600VAC/24VAC
JM-4025-XX	75 Amp Relay - 75A/600VAC/24VAC

Notes:
1. Each relay can handle up to 3 heaters
2. Each control panel (enclosure) fits maximum of 2 relays
3. Please refer to the table on the following page to select the appropriate relay size

Heater Capacity (W)	Voltage 120/1	208/3	240/1	277/1	480/3
500	18A				
750	18A				
1000	18A				
1500	32A	18A	18A		
2000		32A	18A	18A	18A
2500		32A	32A	32A	18A
3000		32A	32A	32A	18A
4000		50A	50A	32A	32A
5000		75A	75A	50A	32A
6000		75A	75A	75A	32A