



**POOL & SPA HEATERS**



# IN-LINE ELECTRIC SPA HEATERS

Compact and efficient, Coates in-line spa heaters feature. Stainless steel tanks and replaceable incoloy elements.

## STANDARD FEATURES:

- ▲ Replaceable incoloy element
- ▲ Stainless steel tank
- ▲ Contractors (Mod. 6ILS)
- ▲ Pressure Switch
- ▲ Close differential thermostat
- ▲ Control box with powder coat finish
- ▲ Manual reset hi-limit
- ▲ Element "on" light
- ▲ 1-1/2 x 2 inch union connections for PVC pipe
- ▲ U.L. Listed

MODEL NUMBER	KW	VOLTAGE	PHASE	AMPS	BTUs PER HOUR	SHIPPING WEIGHT
1.5ILS	1.5	120	1	12	5,120	9 lbs.
6ILS	5.5	240	1	23	18,700	10 lbs.

## CONTROL BOX DIMENSIONS (inches):

1.5ILS ..... 12L x 5-1/2W x 5-1/2H  
 6ILS ..... 12L x 5-1/2W x 5-1/2H  
 Overall Length: ..... 19-1/2 inches  
 ..... 15 inches without unions

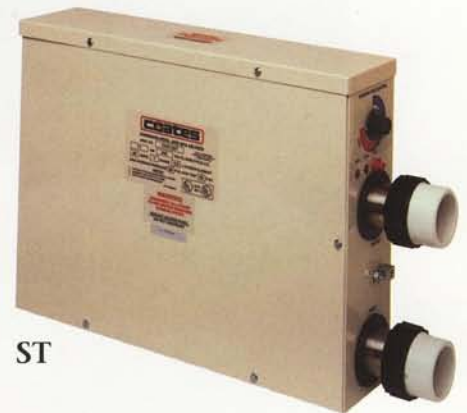


# COMPACT ELECTRIC SPA HEATERS

The pressure switch prevents operation when there is no water flow. Designed for operation at flow rates up to 70GPM. The stainless steel tank is designed to optimize heat transfer by directing the water flow over the incoloy elements efficiently.

## STANDARD FEATURES:

- ▲ Incoloy heating element
- ▲ Close differential thermostat
- ▲ Manual reset hi-limit
- ▲ Pressure switch
- ▲ Heavy duty contactors
- ▲ Element & flow "on" lights
- ▲ 1-1/2 x 2 inch union connections for PVC pipe.



ST

MODEL NUMBER	KW	VOLTAGE	PHASE	AMPS	BTUs PER HOUR	SHIPPING WEIGHT
12406ST	5.5	240	1	23	18,766	17 lbs.
12411ST	11.0	240	1	46	37,530	18 lbs.

DIMENSIONS (inches): 17-1/2L x 4W x 14-1/2H



INDOOR/OUTDOOR  
INSTALLATION

# COMPACT ELECTRIC POOL/SPA HEATERS

## With Exclusive Built-In Flow Switch

These pool and spa heaters feature a flow switch to prevent operation when there is no water flow. An all stainless steel tank for long life and corrosion resistance is also standard. Available in single phase and three phase configurations.

### STANDARD FEATURES:

- ▲ Incoloy heating elements
- ▲ Close differential thermostat
- ▲ Manual reset hi-limit
- ▲ Flow switch
- ▲ Stainless steel tank
- ▲ Heavy duty contactor
- ▲ Element & flow switch "on" lights
- ▲ Element fusing on units rated over 48 amps
- ▲ 1-1/2 inch male NPT connections



CE



INDOOR/OUTDOOR  
INSTALLATION

240V-SINGLE PHASE			208V-THREE PHASE			240V-THREE PHASE		480V-THREE PHASE	
KW	MODEL NUMBER	AMPS	KW	MODEL NUMBER	AMPS	MODEL NUMBER	AMPS	MODEL NUMBER	AMPS
12	12412CE	51	12	32012CE	34	32412CE	30	34812CE	15
15	12415CE	64	15	32015CE	42	32415CE	37	34815CE	19
18	12418CE	77	18	32018CE	50	32418CE	45	34818CE	22

DIMENSIONS (inches): 18-1/4L x 10-1/8W x 11-1/8H Shipping Weight 47 lbs.

# POOL/COMMERCIAL SPA HEATERS

## With Exclusive Built-In Flow Switch

These medium capacity pool and spa heaters feature a built-in flow switch to prevent operation when there is no water flow and allows operation at flow rates between 20GPM and 80GPM. An all stainless steel tank for long life and corrosion resistance is also standard.

### STANDARD FEATURES:

- ▲ Incoloy heating elements
- ▲ Close differential thermostat
- ▲ Manual reset hi-limit
- ▲ Flow switch
- ▲ Element & flow switch "on" lights
- ▲ Element sequencing of single phase heaters
- ▲ Internal protective fusing (units over 48 amps)

**NOTE** – All CPH/PHS models are also available in the following voltages: 220V, 346V, 380V, 415V & 600V.



PHS/CPH

PHS: 2 inch connections.  
CPH: 1-1/2 inch connections.



INDOOR/OUTDOOR  
INSTALLATION

240V-SINGLE PHASE			208V-THREE PHASE			240V-THREE PHASE		480V-THREE PHASE	
KW	MODEL NUMBER	AMPS	KW	MODEL NUMBER	AMPS	MODEL NUMBER	AMPS	MODEL NUMBER	AMPS
24	12424CPH	102	24	32024CPH	67	32424CPH	59	34824CPH	29
30	12430CPH	128	30	32030CPH	84	32430CPH	74	34830CPH	37
36	12436PHS	153	36	32036PHS	101	32436PHS	89	34836PHS	44
45	12445PHS	191	45	32045PHS	126	32445PHS	111	34845PHS	55
54	12454PHS-4	225	54	32054PHS-4	150	32454PHS-4	130	34854PHS-4	65
57	12457PHS-4	238	57	32057PHS-4	158	32457PHS-4	137	34857PHS-4	69

DIMENSIONS: CPH – 24L x 12W x 13H Shipping Weight 68 lbs.  
(inches) PHS – 28L x 16W x 15H Shipping Weight 100 lbs

# COMMERCIAL POOL ELECTRIC HEATERS

Designed for high capacity commercial pool installations, Coates heaters incorporate design features that increase service life, dependability and provide ease of servicing. Corrosion resistant all stainless steel tank surfaces and low watt density incoloy elements mounted on four-bolt stainless steel flanges provide long, trouble-free service life.

All electrical components are located at the heater top under the conveniently hinged cover for easy access. Terminal blocks are provided for simplified power supply wiring.



PHS-20

## STANDARD FEATURES:

- ▲ Stainless steel tank
  - ▲ 50psi design pressure ASME 'U' stamp
  - ▲ Flanged heating elements
  - ▲ Adjustable temperature control
  - ▲ Manual reset hi-limit
  - ▲ 120V control circuit
  - ▲ Lighted "on/off" switch
  - ▲ Heater status lights
  - ▲ Pressure/temperature guage\*
  - ▲ Pressure relief valve\*
  - ▲ Flow switch\*
  - ▲ U.L. Listed for indoor installation
- \* installation required



INDOOR INSTALLATION

MODEL NUMBER	KW	FLOW RATE		THREE PHASE AMPERAGE							
		MIN. GPM	MAX. GPM	208V	220V	240V	346V	380V	415V	480V	600V
PHS-8	60	40	175	167	157	144	100	91	83	72	58
	75	50	175	208	196	180	125	114	104	90	72
	90	60	175	250	235	216	150	137	125	108	86
	105	75	175	241	275	252	175	160	146	126	101
	120	75	175	332	314	288	200	182	167	144	115
	144	75	175	400	378	346	240	218	200	174	140
PHS-20	180	100	175	CONSULT FACTORY FOR AVAILABILITY				274	250	217	173
	210	100	175					319	292	253	202
	240	125	175					365	334	289	230
	270	125	175					410	375	325	260
	300	125	175					456	417	361	288

## DIMENSIONS (inches):

MODEL	A	B	C	APPROX. SHIPPING WT.
PHS-8	50	18	22	300 lbs.
PHS-20	54	26	28	550 lbs.

## PIPING SIZES: (PHS-8 & PHS-20)

- Inlet/Outlet ..... 3 in.
- Drain ..... 1/2 in.
- Relief Valve ..... 3/4 in.

## DESIGN PRESSURE:

- PHS-8 & PHS-20 ..... 50 psi

