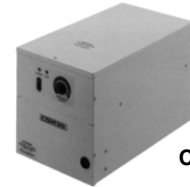


COATES ELECTRIC POOL/SPA HEATERS

- * With Built-In Flow Switch
- * Incoloy Heating Elements
- * Close Differential Thermostat
- * Manual Reset Hi-Limit Switch



CE Model Heater



PHS/CPH Model Heaters

CPH 1-1/2" Connections
PHS 2" Connections

SIZING GUIDES:

Spa Water

$KW \text{ Required} = \frac{\text{Gallon Capacity} \times 8.3 \text{ (lbs./gal.)} \times \text{temperature rise in (F Degree)}/\text{Hour}}{\text{Divided by } 3413^*}$

Pool Water

$KW \text{ Required} = \frac{\text{Pool Surface Area (Sq. Ft.)} \times \text{Temperature Differential (F Degree)} \times 12}{\text{Divided by } 3413^*}$

*(1KW = 3,413 BTU/Hour)



COMPACT POOL/SPA HEATERS - CE Series

These pool & spa heaters feature a flow switch to prevent operations when there is no water flow. An all stainless steel tank for long life & corrosion resistance is also standard. 1-1/2" male connections.

240 Volt Single Phase

Model 12412CE	12 KW*	
Model 12415CE	15 KW	J3102*
Model 12418CE	18 KW	J3104*

208 Volt Three Phase

Model 32012CE	12 KW*	
Model 32015CE	15 KW	J3122*
Model 32018CE	18 KW	J3124*

240 Volt Three Phase

Model 32412CE	12 KW*	
Model 32415CE	15 KW	J3142*
Model 32418CE	18 KW	J3144*

480 Volt Three Phase

Model 34812CE	12 KW	J3160*
Model 34815CE	15 KW	J3162*
Model 34818CE	18 KW	J3164*

*SPECIAL ORDER ONLY
*F.O.B. Kent, WA.

POOL/COMMERCIAL SPA HEATERS - CPH & PHS Series

Medium capacity pool & spa heaters with built-in flow switch to prevent operation when there is no water flow. Allows operation at flow rates between 20 GPM & 80 GPM. All stainless steel for long life is standard.

240V Single Phase

Model 12424CP	24 KW	J3106*
Model 12430CP	30 KW	J3108*
Model 12436PH	36 KW	J3110*
Model 12445PHS	45 KW	J3112*
Model 12454PHS-4	54 KW	J3114*
Model 12457PHS-4	57 KW	J3116*

208 Volt Three Phase

Model 32024CPH	24 KW	J3126*
Model 32030CPH	30 KW	J3128*
Model 32036PHS	36 KW	J3130*
Model 32045PHS	45 KW	J3132*
Model 32054PHS-4	54 KW	J3134*
Model 32057PHS-4	57 KW	J3136*

*SPECIAL ORDER ONLY
*F.O.B. KENT, WA.

240 Volt Three Phase

Model 32424CPH	24 KW	J3146*
Model 32430CPH	30 KW	J3148*
Model 32436PHS	36 KW	J3150*
Model 32445PHS	45 KW	J3152*
Model 32454PHS-4	54 KW	J3154*
Model 32457PHS-4	57 KW	J3156*

480 Volt Three Phase

Model 34824CPH	24 KW	J3166*
Model 34830CPH	30 KW	J3168*
Model 34836PHS	36 KW	J3170*
Model 34845PHS	45 KW	J3172*
Model 34854PHS-4	54 KW	J3174*
Model 34857PHS-4	57 KW	J3176*

**RAYPAK
COMMERCIAL
GAS HEATERS**



NOTE - CSD-1 CODE (Control & Safety Devices) apply to Md., Va., Wash D.C. & other regional states.

- For Sizes: P-514 to P-824 Add \$250.50
- For Sizes: P-926 to P-1223 Add \$159.00
- For Sizes: P-1287 to P-2500 Add \$127.50
- For Sizes: P-3001 to P-4001 Add \$396.00

- (1) Select the desired swimming temperature of the pool water.
- (2) Determine the mean (average) temperature of the coldest month in which the pool will be used.
- (3) Subtract the mean temperature from the desired swimming temperature. The difference is the temperature rise.
- (4) Calculate the surface area of the pool in square feet.
- (5) Under the column headed by the temperature rise determined in Step 3, find the number close to, but not less than, the pool surface area from Step 4. On that line will be the correct indoor and outdoor heater.

Desired Temperature Rise in Degrees F.				DEALER NET PRICE F.O.B. WESTLAKE VILLAGE, CA. SPECIFY NATURAL OR PROPANE	
20	25	30	35		
Pool area in square feet				Indoor Model	Outdoor Model
1700	1360	1135	970	P-514 *	P-514 *
2090	1670	1390	1190	P-624 *	P-624 *
2420	1935	1610	1380	P-724 *	P-724 *
2750	2200	1830	1570	P-824 *	P-824 *
3085	2465	2055	1760	P-962 *	P-926 *
3610	2885	2405	2060	P-1125 *	P-1083 *
3925	3140	2615	2240	P-1223 *	P-1178 *
4250	3430	2860	2450	P-1336 *	P-1287 *
4710	3765	3140	2690	P-1468 *	P-1414 *
5230	4185	3485	2990	P-1631 *	P-1571 *
5860	4685	3905	3345	P-1826 *	P-1758 *
7000	5600	4665	4000	P-2100 *	-----
8330	6660	5550	4760	P-2500 *	-----
10000	8000	6665	5710	P-3001 *	-----
11665	9330	7775	6665	P-3500 *	-----
13330	10665	8885	7615	P-4001 *	-----

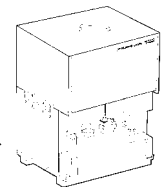
*Call for quotes

LAARS COMMERCIAL HEATERS

- *Greater Energy Efficiency 82% * One-Year/Five-Year Double Warranty
- *Complete Control System * Includes CSD-1 Code
- * Built-in Flow Control Valve * Includes In-field Start Up Fee

Mighty Therm AP Indoor Heaters

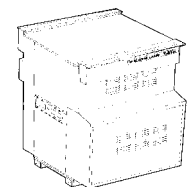
MODEL NO.	INPUT BTH/HR	OUTPUT BTU/HR	
500 I	500,000	405,000	*
715 I	715,000	579,000	*
850 I	850,000	689,000	*
1010 I	1,010,000	818,000	*
1200 I	1,200,000	972,000	*
1825 I	1,825,000	1,478,000	*



Mighty Therm AP Outdoor Heaters

* F.O.B. FACTORY

MODEL NO.	INPUT BTH/HR	OUTPUT BTU/HR	
500 E	500,000	410,000	*
715 E	715,000	579,000	*
850 E	850,000	697,000	*
1010E	1,010,100	828,000	*
1200 E	1,200,000	984,000	*
1825 E	1,825,000	1,497,000	*



**EXTRA FOR BRONZE HEADERS MODELS 500 - 1825 *CALL FOR QUOTES