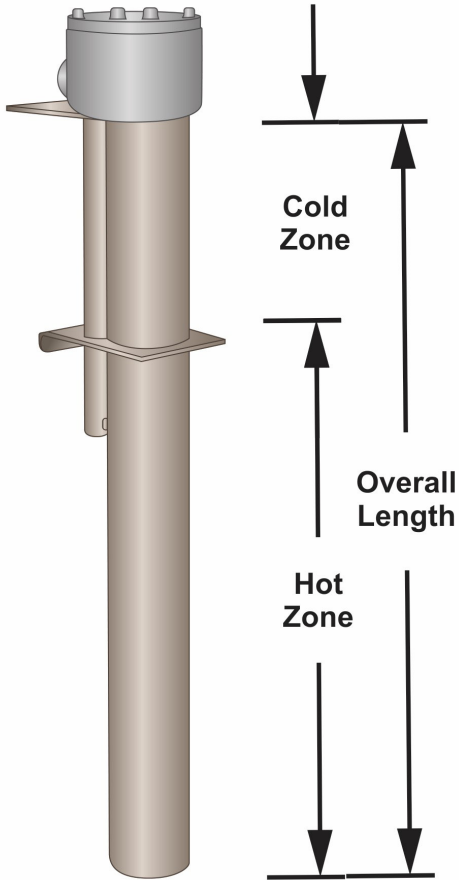


**PHOSPHATE HEATER**



**INFORMATION**

- Designed for phosphate coating applications
- Suitable for use in iron, zinc, and manganese phosphate tanks
- Check solution recommendation chart with chemical supplier for proper sheath material selection
- Available in single or three phase
- Power range: 1000-10000 watts
- Operates on 120-480 volts

**FEAUTRES**

- Suitable for use in iron, zinc, and manganese phosphate tanks
- Schedule 40, heavy wall, 316 stainless steel sheath resists scaling better than traditional heaters
- Low watt densities up to 23 watts/square inch (3.5 w/cm<sup>2</sup>) minimize scaling while only using the space required for a full watt density heater
- Rugged cast steel terminal enclosure with 3 ft (.9m) flexible Teflon liquid tight conduit
- Grounded construction
- Built-in thermal protector
- Standard replaceable P4 protector for solutions up to 230°F(110°C)



**PROTECTOR / FUSE OPTIONS**

CODE	TYPE OF FUSE	DESCRIPTION
P4	REPLACEABLE	For solutions up to 230°F (82 to 110°C)
P5	REPLACEABLE	For solutions from 230 to 300°F (110 to 150°C)
P6	RESETTABLE	For solutions up to 230°F (82 to 110°C)
P7	RESETTABLE	For solutions from 230 to 300°F (110 to 150°C)

STANDARD PARTS				
MPI P/N	WATTS	VOLTS	HOT ZONE	OVERALL LENGTH
IM-DAS1111-P4	1000 W	120 V	7 "180 mm	11 "280 mm
IM-DAS1211-P4	1000 W	240 V	7 "180 mm	11 "280 mm
IM-DAS2217-P4	2000 W	240 V	12 "305 mm	17 "430 mm
IM-DAS2417-P4	2000 W	480 V	12 "305 mm	17 "430 mm
IM-DAS3223-P4	3000 W	240 V	18 "460 mm	23 "585 mm
IM-DAS3423-P4	3000 W	480 V	18 "460 mm	23 "585 mm
IM-DAS3.5229-P4	3500 W	240 V	21 "535 mm	29 "735 mm
IM-DAS3.5429-P4	3500 W	480 V	21 "535 mm	29 "735 mm
IM-DAS4235-P4	4000 W	240 V	28 "710 mm	35 "890 mm
IM-DAS4435-P4	4000 W	480 V	28 "710 mm	35 "890 mm
IM-DAS5241-P4	5000 W	240 V	33 "840 mm	41 "1040 mm
IM-DAS5441-P4	5000 W	480 V	33 "840 mm	41 "1040 mm
IM-DAS6247-P4	6000 W	240 V	39 "990 mm	47 "1195 mm
IM-DAS6447-P4	6000 W	480 V	39 "990 mm	47 "1195 mm
IM-DAS8259-P4	8000 W	240 V	49 "1245 mm	59 "1500 mm
IM-DAS8459-P4	8000 W	480 V	49 "1245 mm	59 "1500 mm
IM-DAS10271-P4	10000 W	240 V	62 "1575 mm	71 "1805 mm
IM-DAS10471-P4	10000 W	480 V	62 "1575 mm	71 "1805 mm

\*Single phase standard, 3-phase available.

## 3-4 Week Lead Time for Standard & Custom Products!

### ORDER CODE

IM-DAS XX X XX - XX						
SERIES	WATTAGE	VOLTAGE	LENGTH (in)	OPTIONS	TYPE OF PROTECTOR	WIRE & CONDUIT LENGTH
DAS	1 1000	1 120V	11 1kW	No Designator = Single Phase Power (std)	REPLACEABLE FUSE	blank - 36" TEFLON CONDUIT
	2 2000	2 240V	17 2kW		P4 <sub>(std)</sub> - SOLUTIONS UP TO 230°F	
	3 3000	3 380V	23 3kW	-3 = three Phase Power	P5 - SOLUTIONS 230°F TO 300°F	SPECIFY LENGTH - EX. X84 = 84" TEFLON CONDUIT
	3.5 3500	4 480V	29 3.5kW		RESETTABLE FUSE	
	4 4000	5 415V	35 4kW		(Additional control components required)	
	5 5000	6 600V	41 5kW		P6 - SOLUTIONS UP TO 230°F	
	6 6000	7 400V	47 6kW		P7 - SOLUTIONS 230°F TO 300°F	
	8 8000	8 208V	59 8kW			
	10 10000	9 220V	71 10kW			
		0 200V				

1inch = 25.4mm

EX. IM-DAS1211-3-P4 PHOSPHATE Immersion Heater, 1kW, 240V, 3PH, 11" Overall Length, P4 Replaceable Fuse for Solutions up to 230degF, 36" Teflon Conduit