

MOD-TRONIC Anti-Condensation Motor Heaters

FEATURES

- Standard sizes in the most frequently requested dimensions for immediate delivery
- 120V and 240V standard
- Operating temperature range of -21°C to 204.4°C or -70°F to 400°F
- Resistant to many
 chemical substances
- Canadian and USA CSA
 Approved
- Custom sizes and wattages available

APPLICATIONS

Provide condensation build-up protection and freeze prevention in electric motors:

- Shipboard and marine equipment such as pumps
- Dockside equipment such as cranes and elevators



GENERAL INFORMATION

Motor Heaters have wire-wound heating circuits laminated between thin layers of fiberglass-reinforced, high temperature insulation, silicone rubber.

Motor Heaters help prevent moisture build-up in electrical motors by warming the motor's electrical windings. Condensation occurs when humid air comes in contact with the cool metal of the motor, which, if allowed to collect over a period of time, will corrode the windings, degrading motor performance and contributing to premature motor failure. Condensation prevention is especially critical for equipment operating in tropical environments where continuous humidity can quickly degrade an electric motor. Motor Heaters also provide warm start-ups, which helps extend motor life. To install, simply wrap the heater around the inside motor housing.

These heaters are not equipped with a temperature controller. If a Motor Heater is being used in a temperature-sensitive environment, a thermal device, such as a thermostat, should be used to ensure temperature control. They also do not have a grounding plane and must be grounded to prevent electrical build-up.

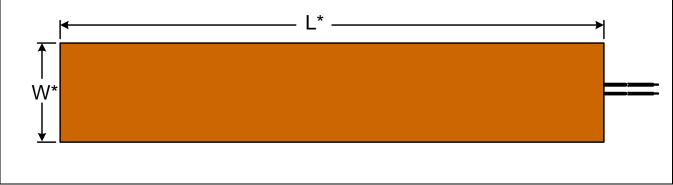
How to order:

- 1. Determine specifications desired (see Figure 1 and Table 2).
- 2. Contact us to check stock and order (see last page for contact information)

Table 1. General Specifications

Characteristic	Value			
Material and construction	Fully vulcanized fiberglass-reinforced silicone rubber encapsulating			
	a wire heating element			
Voltage	120V or 240V			
Power density (120V, 240V))	2.5W/in. ² or 5W/in. ²			
Operating temperature range	-21°C to 204.4°C (-70°F to 400°F)			
Exposure temperature range	-21°C to 204.4°C (-70°F to 400°F)			
Temperature rise potential	up to 345°F			
Resistance tolerance	±10%			
Thickness	0.055" +/05" (except at lead exit, 0.175" REF)			
Leads:				
Gauge	20 AWG			
Insulation	600V Teflon [®]			
Length	24.0in. min.			
Component approvals	CSA Approved for Canada and USA			
High-potential dielectric testing (115V)	1250V			
Serviceable parts	none			

Figure 1. Dimensions (For reference only. in.)



*See Table 2 for available widths and lengths.

Part #	Width	Length	Volts	Watts	Watts per sq inch	Ohms	Current Draw (Amps)
STANDARD 120 VAC POWERED MODELS							
HR1X6V120W30	1	6	120	30	5	480	0.25
HR1X10V120W25	1	10	120	25	2.5	576	0.21
HR1X10V120W50	1	10	120	50	5	288	0.42
HR1X12V120W60	1	12	120	60	5	240	0.50
HR1X15V120W75	1	15	120	75	5	192	0.63
HR1X20V120W50	1	20	120	50	2.5	288	0.42
HR1X20V120W100	1	20	120	100	5	144	0.83
HR1X24V120W120	1	24	120	120	5	120	1.0
HR1X30V120W75	1	30	120	75	2.5	192	0.63
HR1X30V120W150	1	30	120	150	5	96	1.25
HR1X40V120W100	1	40	120	100	2.5	144	0.83
HR1X40V120W200	1	40	120	200	5	72	1.67
HR1X60V120W150	1	60	120	150	2.5	96	1.25
HR1X60V120W300	1	60	120	300	5	48	2.50
STANDARD 240 VAC POWERED MODELS							
HR1X10V240W50	1	10	240	50	5	1152	0.21
HR1X12V240W60	1	12	240	60	5	960	0.25
HR1X20V240W50	1	20	240	50	2.5	1152	0.21
HR1X20V240W100	1	20	240	100	5	576	0.42
HR1X24V240W120	1	24	240	120	5	480	0.50
HR1X30V240W75	1	30	240	75	2.5	768	0.31
HR1X30V240W150	1	30	240	150	5	384	0.63
HR1X40V240W100	1	40	240	100	2.5	576	0.42
HR1X40V240W200	1	40	240	200	5	288	0.83
HR1X60V240W150	1	60	240	150	2.5	384	0.63
HR1X60V240W300	1	60	240	300	5	192	1.25

Table 2. Standard Models of Motor heaters (contact us if you don't see what you need)

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Oct 2019 ©2017 Mod-Tronic Instruments Limited