

STOCK CATALOG



Your source for industrial heating and temperature control systems

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Phone: 800-321-8007 www.hiwattinc.com





As a leading distributor of industrial heaters, we understand the critical connection between high quality equipment and on-time operations. Our thermal products and custom designed control systems perform dependably in the most demanding applications.

With a wide variety of industrial electric heaters, temperature sensors, process controllers and accessories we have the ability and inventory to keep your systems up and running.

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MICA NOZZLE BAND HEATERS



- High temperature oxidation resistant metal sheath
- Highest grade mica insulation provides excellent electrical insulation at high temperatures and is resistant to moisture.
- Nickel/Chromium resistance wire evenly wound for uniform heat distribution and reliable accuracy.
- Standard 10" fiberglass leads are UL rated and provide protection up to 850 degrees F.

I.D in.	Width in.	Watts	Part Number 120V	Part Number 240V
	1	100	NZ1010-10100	NZ1010-20100
		125	NZ1010-10125	NZ1010-20125
1	1 1/2	150	NZ1015-10150	NZ1015-20150
•	2	200	NZ1020-10200	NZ1020-20200
	3	300	NZ1030-10300	NZ1030-20300
	4	400	NZ1040-10400	NZ1040-20400
	1	150	NZ1510-10150	NZ1510-20150
	1 1/2	275	NZ1515-10275	NZ1515-20275
	2	300	NZ1520-10300	NZ1520-20300
1 1/2	2 1/2	400	NZ1525-10400	NZ1525-20400
1 1/2	3	450	NZ1530-10450	NZ1530-20450
	4	550	NZ1540-10550	NZ1540-20550
	5	700	NZ1550-10700	NZ1550-20700
	6	900	NZ1560-10900	NZ1560-20900
	1 1/2	300	NZ1715-10300	NZ1715-20300
1 3/4	2	350	NZ1720-10350	NZ1720-20350
	3	500	NZ1730-10500	NZ1730-20500

Need a different or custom size? Give us a call we can help!

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I.D. In.	Width In.	Watts	Part Number 120V	Part Number 240V
	1	200	NZ2010-10200	NZ2010-20200
	I	300	NZ2015-10300	NZ2015-20300
2	2	400	NZ2020-10400	NZ2020-20400
	2 1/2	500	NZ2025-10500	NZ2025-20500
	3	600	NZ2030-10600	NZ2030-20600
	1 1/2	350	NZ2215-10350-EZ	NZ2215-20350-EZ
	2	400	NZ2220-10400	NZ2220-20400
	2 1/4	500	NZ2222-10500	NZ2222-20500*
2 1/4	2 1/2	600	NZ2225-10600-EZ*	NZ2225-20600-EZ
	3	700	NZ2230-10650	NZ2230-20700-EZ
	1	300	NZ2510-10300	NZ2510-20300
2 1/2	1 1/2	350	NZ2515-10350	NZ2515-20350
2 1/2	2	500	NZ2520-10500	NZ2520-20500
	3	700	NZ2530-10700	NZ2530-20700
2 3/4	1 1/2	400	NZ2715-10400	NZ2715-20400-EZ
	2	500	NZ2720-10500	NZ2720-20475
	1	300	NZ3010-10300	NZ3010-20300
3	1 1/2	400	NZ3015-10400	NZ3015-20400
3	2	600	NZ3020-10600	NZ3020-20600
	3	1000	NZ3030-11000	NZ3030-21000
3 1/2	1	400	NZ3510-10400*	NZ3510-20400-EZ

^{*}Available on a made to order basis. Need a different or custom size? Give us a call we can help!

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I.D. In.	Width In.	Voltage	Watts	Lead Type	Part Number
4"	1.5"	240	550	Post Terminals	BA040-015H
4"	2"	240	500	36" SSOB	BA040-020C-MA
4.5"	1.5"	240	650	Post Terminals	BA045-015G
5"	1.5"	240	750	Post Terminals	BA050-015E
5.25"	1.5"	240	650	Post Terminals	BA052-015B
5.5"	1.5"	240	800	Post Terminals (2-PC)	BA055-015E
6"	1.5"	240	900	Post Terminals (2-PC)	BA060-015G
6.5"	1.5"	240	950	Post Terminals (2-PC)	BA065-015B
6.5"	1"	220	850	36" Fiberglass	BA065-010-A301
7"	1.5"	240	950	Post Terminals (2-PC)	BA070-015B
8"	2"	480	1500	Post Terminals (2-PC)	BA080-020A
9"	1.5"	240	1300	Post Terminals (2-PC)	BA090-015B
11"	3-5/16"	460	3500	Post Terminals (Expandable)	BA110-039-M226
13"	4"	460	4500	Post Terminals (2-PC)	BA130-040-M445
14"	3"	480	3000	Post Terminals	BA140-030-M226

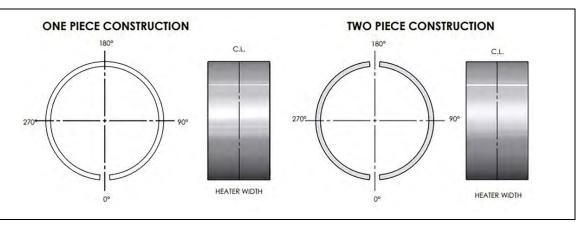
Need a different or custom size? Give us a call at 800-321-8007, we can help!

Our stock inventory is constantly growing and Hi-Watt offers a variety off expedite options for Mica, Mineral Insulated and Ceramic band heaters. Want to ensure your thermal system products are on hand when you need them? Ask about our Inventory Stocking Program.

MICA BAND HEATER CONFIGURATION FORM

Dimensions	Specifications	Construction
I.D = IN / = MM Width = IN / = MM	Wattage □ Dual Voltage □ 3-Phase	 □ One Piece (Standard) □ Two Piece Voltage Per Half Wattage Per Half = Expandable (>3" Width) □ Hinged
Clamping	Terminations	Additional Options
 Standard Strap Full Strap Welded on Barrel Nut Flange Wedge Lock Up Spring Loaded 	□ Standard Hi-Temp Fiberglass Leads (specify options below) □ SS Overbraid □ SS Conduit /Armored □ Right Angle Cap □ Ground Wire □ Spring Guard □ Strain Relief □ Lead Length:	SS Sheath Internal Thermocouple Type J Type K Bayonet Adapter Custom Holes/Slots # Of Holes Hole Diameter Hole Diameter

Please specify lead exit locations and placement of any custom holes.



CARTRIDGE HEATERS



- High Temperature Lead Wires for temperatures up to 550° C.
- High Impact Ceramic Cap retards contamination and is suitable for high vibration applications. Deep holes in cap prevent fraying of leads.
- Nickel-Chromium Resistance Wire for maximum cartridge heater life, evenly wound for even heat distribution.
- High Purity Magnesium Oxide fill selected for maximum dielectric strength and thermal conductivity, highly compacted for maximum heat transfer.

All heaters listed have 10" fiberglass leads and SS Sheath

Diameter	Part Number	Length	Volts	Watts
	HR50020V	2"	240V	400W
	HR50030W	3"	240V	500W
	HR50040Z	4"	240V	750W
	HR50050T	5"	240V	1000W
	HR50060BZ	6"	240V	1000W
	HR50070H	7"	240V	1000W
	HR50080Z	8"	240V	1000W
	HR50090H	9"	240V	1000W
1/2"	HR50100Q	10"	240V	1000W
	TD50110A-14S	11"	240V	1000W
	HR50120L	12"	240V	1000W
	TD50130A-14S	13"	240V	1000W
	HR50140C	14"	240V	1000W
	HR50150K	15"	240V	1000W
	HR50160N	16"	240V	1000W
	TD50180A-14S	18"	240V	1000W
	TD50200A-14S	20"	240V	1000W

Factory Stock Diameters - 1/8", 1/4", 3/8", 5/8" & 3/4"

Need a different size? Custom sizes, terminations and fittings are available.

PROCESS AIR HEATERS

Air heaters are used for heat staking, plastic welding, laminating, drying, heat sealing, and any other operation where air needs to be heated up 1000°F.

- Exit air to 1000° F. At 10 CFM
- 1/2"D SS Sheath
- Max 10 CFM / Min 5.5 CFM
- Pressure Rating 80 PSIG
- Use Dry, Clean Air
- DO NOT OPERATE WITHOUT AIR FLOW





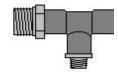
36" FIBERGLASS LEADS

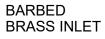
QUICK DISCONNECT LEAD "QD"

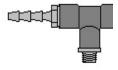
Part Number	Volts	Watts	Lead Type	Inlet	Outlet
PA024	120	600	QD	NONE	NONE
PA024-L36	120	600	36"FG	NONE	NONE
PA036	120	400	QD	NONE	NONE
PA036-L	120	400	36"FG	NONE	NONE
PA036TI	120	400	QD	3/8" NPT	NONE
PA036LTI	120	400	36"FG	3/8" NPT	NONE
PA036LTITO	120	400	36"FG	3/8" NPT	3/8" NPT
PA036TITO	120	400	QD	3/8" NPT	3/8" NPT
PA139	240	400	QD	NONE	NONE
PA139L	240	400	36"FG	NONE	NONE
PA139LTI	240	400	36"FG	3/8" NPT	NONE
PA139LTITO	240	400	36"FG	3/8" NPT	3/8" NPT
PA150	240	600	QD	NONE	NONE
PA150TI	240	600	QD	3/8" NPT	NONE

INLET / OUTLET OPTIONS

3/8" NPT BRASS INLET (TI)







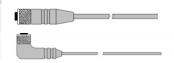
3/8" NPT BRASS OUTLET (TO)



1/2" diameter is standard with other sizes available.

QUICK DISCONNECT CABLES

Part Number	Length	Config.
PARK30-18/5M	5M	Straight
PARR30-18/5M	5M	90°



THERMOLATOR FLANGE IMMERSION HEATERS

These tubular flanged immersion heaters are designed for use in tanks and pressurized vessels to heat liquids or gases. Easy to install by mating to a companion flange on a tank wall or to a pipe for circulating heaters. Use this direct immersion method of heating for easy monitoring and control and increased energy efficiency.

Tempco Non-pressure Rated Flanged Heater

• Enclosure Type: NEMA 1

 Includes: *240V 3 Phase Conversion Kit, Gasket

• Flange Material: Steel

• Common Thermolator Brand: Conair



Part Number	Volts	Watts	Phase	Flange Size	Overall Length	Min. Immersion Depth
TPN01416—9KW	240*/480	9000	3	6" x 6"	18 1/8"	15 1/2"
TPN01422—12KW	240*/480	12000	3	6" x 6"	18 1/8"	15 1/2"



Hi-Watt carries a selection of process heaters with a variety of custom construction and mounting options to best suit your application.



Watlow Non-pressure Rated Flanged Heater

Enclosure Type: NEMA 1Flange Material: Steel

Common Thermolator Brands: Advantage

Engineering, Temptek

Part Number	Volts	Watts	Phase	Flange Size	Overall Length	Min. Immersion Depth
6-21-299-1	240/480	10000	3	5" x 5"	10 1/8"	7 11/16"
6-21-299-2	240/480	16000	3	5" x 5"	15 1/4"	12 11/16"

HEATER HOOK UP WIRE

Hi-Temperature MGT & TGGT Wire is a must for wiring hot barrels, heaters, ovens, dryers and other high temperature uses. Our quality wiring features the industrial grade materials that are required for standard or high temperature installations.

Type TGGT(Standard)

Wire with a fiberglass outer and PTFE inner insulation is also known as TGGT wire. It resists chemicals and is suitable for use in damp or dry applications.

- Stranded Nickel Coated Copper
- Teflon Insulation Covered by Wrapped Fiberglass Yarn with an Outer Fiberglass Braid Jacket
- Maximum Volts: 600
- UL & CSA Approval to 250° C / 482° F

Wrapped fiberglass yarn	Fiberglass Braid Jacket
Stranded Nickel Coated Teflon Copper Conductor	insulation

Part Number	Gauge	Ampacity
W20	20	16
W18	18	23
W16	16	29
W14	14	40
W12	12	55
W10	10	75
W8	8	95

Type MG (Hi-Temp)

Wire with a fiberglass outer and mica inner insulation is also known as MG wire. It's often used to wire equipment in steel mills, iron mills, and glass manufacturing.

- Stranded Nickel Coated Copper Conductor
- Glass Reinforced Mica Tape with Outer fiberglass Braid
- Maximum Volts: 600

Copper Conductor

- UL Approval to 450° C / 842° F
- Non UL Temperature to 538°C / 1,000°F

Glass Reinforced	Fiberglass Braid Jacket
Mica Tape	1
-	

Part Number	Gauge	Ampacity
W20M	20	23
W18M	18	31
W16M	16	40
W14M	14	55
W12M	12	75
W10M	10	100

Call for pricing & additional sizes.

HEATER ACCESSORIES

Part

Number

6755K18

Part

Mini Twist Lock

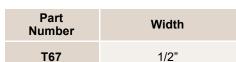
Mini 3 Blade Twist Lock, 240V, 15 AMP *Can be Added by Hi-Watt to Any Heater

WatLube®

An Electrically Non-Conductive Lubricant Acting as a Barrier Against High-Temperature Oxidation, Thus Making Heater Removal Easier.

High Temperature Tape

- Used to Cover Butt Splices
- Glass Cloth Construction
- Temperature up to 302° F
- 66FT Long Rolls



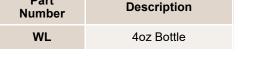
T69	3/4"

Part Number	Stud Size	
СТС	10-24	
CTC2	10-32	



Part Number	Wire Size	Stud Size
WCR12-10	12 to 10	#10
WCR12-10Q	12 to 10	1/4"
WCR16-14	16 to 14	#10
WCR22-18	22 to 18	#10

Part Number	Wire Size
WCB12-10	12 to 10
WCB16-14	16 to 14
WCB22-18	22 to 18



Description

3 Blade Twist Lock

Part Number	Width
T67	1/2"

1/2"	Clair II Stendages Rufon isolant en brits de la Jordon de claise B Cieta de fela de ribro pera aplicaciones sido tenda a secolo tenda a secol
3/4"	Alter and Colonia, and Colonia









Ceramic Post Terminal Covers

• High Temperature Protection from Electrical Shock

Cerami	c Wire	Nuts

 Used To Connect Wires in Extremely High Heat Areas

High Temp Terminal Rings (WCR) / **Butt Splice Connectors (WCB)**

- Used to Connect Heater Hook Up Wire to Band **Heater Post**
- Nickel Plated Steel
- Corrosion Resistant
- Continuous Temperature Use to 650°F

Vinyl insulated connectors options also in stock.

Consult Hi-Watt for higher temperature connectors. 9

THERMOCOUPLES

Hi-Watt offers general purpose thermocouples, mineral insulated thermocouples, and RTDs. In addition to keeping the most common configurations in stock, we offer hundreds of additional models with factory quick turnaround, usually 48 hours or less. Have a specific application and need a custom design? We can assist with specialty and custom configurations as well.



Adjustable Armor Thermocouple

- 3/16" Diameter Probe w/ Bayonet Cap
- Fits Standard Bayonet Adapters
- Spade Lug Termination
- Grounded
- 24 GA. Fiberglass Leads w/ SS Armor

Part Number	Cal Type	Lead Length
JAC36-G1-24R1	J	36"
JAC48-G1-24R1	J	48"
JAC72-G1-24R1	J	72"
JAC96-G1-24R1	J	96"



Adjustable Spring Thermocouple

- 3/16" Diameter Probe
- Fits Standard Bayonet Adapters
- 12" Spring with Bayonet Cap
- Spade Lug Termination
- Grounded
- 24 GA. Fiberglass leads w/ SSOB

Part Number	Cal Type	Lead Length
JBS36-G1-24R1	J	36"
JBS48-G1-24R1	J	48"
JBS72-G1-24R1	J	72"
JBS96-G1-24R1	J	96"
KBS72-G1-24R1	K	72"
KBS96-G1-24R1	K	96"



Call for Pricing, Additional Sizes, Styles, & Terminations

Combine quantities to save.

THERMOCOUPLES

Under Band Thermocouple

- Stainless Steel Shim
- 24 GA. Fiberglass Leads w/ SSOB
- Spade Lug Termination
- Grounded

Part Number	Cal Type	Lead Length
JSH48-G1-24R1	J	48"
JSH72-G1-24RI	J	72"
KSH48-G1-24R1	K	48"
KSH72-G1-24R1	K	72"



Washer Style Thermocouple

- 24 GA Fiberglass Leads w/ SSOB
- Spade Lug Termination
- Grounded

Part Number	Cal Type	Lead Length	Stud Size
JWN36-G1-24R1	J	36"	#10
JWN48-G1-24R1	J	48"	#10
JWN60-G1-24R1	J	60"	#10
JWN72-G1-24R1	J	72"	#10
KWN36-G1-24R1	K	36"	#10
JWQ72-G1-24R1	J	72"	5/16"



Nozzle Style Thermocouple

- 1/4-28 N F Thread
- 24 GA Fiberglass Leads w/ SSOB
- Spade Lug Termination
- Grounded

Part Number	Cal Type	Lead Length
JNZ48-G1-24R1	J	48"
JNZ72-G1-24R1	J	72"
KNZ48-G1-24R1	K	48"
KNZ72-G1-24R1	K	72"



Call for Pricing, Additional Sizes, Styles, & Terminations
Combine quantities to save.

THERMOCOUPLE WIRE

All wire is manufactured under rigid quality controls following ISO 9001 standards. In addition, all electromotive force (EMF) versus temperature calibration procedures follow one or more of the following standards: ASTM E 207, ASTM E 220 and AMS 2750. All testing has NIST traceability. Unless otherwise specified, all SERV-RITE thermocouple wire and extension wire are supplied to meet standard tolerances of ASTM E 230.

Fiberglass

- 20GA.
- Braided FB Insulation For Heat Protection: Max Temp 900°F
- Types Available J,K
- Stainless Steel Overbraid option

Part Number	Calibration Type	Wire type	Pola	rity
			+	-
J20-1-304	J	Solid	White	Red
J20-3-304	J	Stranded	White	Red
J20-3-S-304	J	Stranded	White	Red
K20-3-304	K	Stranded	Yellow	Red



FEP (Teflon)

- 20GA.
- Insulation Good up to 400°F
- Types Available J,T
- Moisture Resistant

Part Number	Calibration Type	Wire Type	Pola	rity
			+	-
J20-3-507	J	Stranded	White	Red
T20-1-507	Т	Solid	Blue	Red



PVC

- 20GA.
- Polymer Insulation Good Up to 220°F
- Types available J,K

Part Number	Calibration Type	Wire Type	Pola	arity
			+	-
J20-7-502	J	Stranded	White	Red
J20-7-505	J	Stranded	White	Red
K20-5-502	K	Solid	Yellow	Red



Call for pricing & additional sizes.

THERMOCOUPLE ACCESSORIES

Bayonet Adapters

Fastening mechanism consisting of a cylindrical male side with one radial pin. Mates with female Receptor cap on thermocouple to keep the two parts locked together.

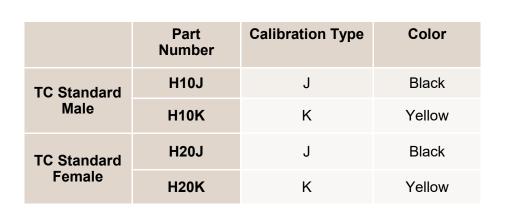
Part Number	NPT	Length
H440	1/8"	7/8"
H441	1/8"	1 1/2"
H441-3-1	1/8"	1 1/8"
H442-4-1	1/8"	2 1/2"
H443-4-1	1/8"	3 1/2"
H444-4-1	1/8"	4 1/2"



Standard Connectors

Round pin style standard connectors are ideal for connecting thermocouple sensors and extension wire.

- Temperature Rating of 350 F. (400 F. Max.)
- Hollow Pins Rolled from .020" Sheet
- Solid Pins Machined from Solid Bar Stock
- Polarity and Calibration Marked
- Compatible with Similar Standard Connectors





THERMOCOUPLE ACCESSORIES

Add these connectors to thermocouple wire for easy attachment to thermometers and control panels. Connectors with exposed screw terminals let you quickly attach wire leads without disassembling the connectors.

TC Mini Connectors

	Part Number	Calibration Type	Color
	H110J	J	Black
TC Mini Male	H110K	K	Yellow
	H110T	Т	Blue
TC Mini Female	H120J	J	Black
	H120K	К	Yellow
	H120T	Т	Blue



TC Standard Circular Panel Female

Part Number	Calibration Type	Color
H32J	J	Black
H32K	K	Yellow



TC Standard Panel Female Connectors

Part Number	Calibration Type	Color
H30J	J	Black
H30K	K	Yellow



TC Mini Circular Panel Female

Part Number	Calibration Type	Color
H132J	J	Black
H132K	K	Yellow
H132T	T	Blue



Listed Components Good to 350°F; High Temp Good to 500°F

High Temp Options Available for Most Connectors

Need a special thermocouple connector?

We can help. Hi-Watt offers a complete line of thermocouple connectors and related temperature measurement accessories.

FLEXIBLE TUBULAR HEATERS

6.5MM, 8MM, 8.5MM FACTORY STOCK

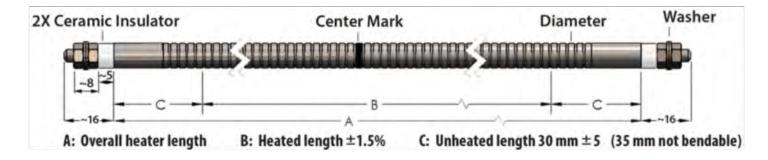
Technical Data — 8.0mm

- Min. bending radius: R = 10 mm
- Expansion Factor: See Chart
- Standard Connection Screw Term.
- Wattage tolerance ±10%
- High Volt Resistance (cold): 1000 VAC
- Leakage Current (cold): < 0.5 mA @ 253 VAC
- Insulation resistance (cold): > =5M @ 500 VDC
- Max. Sheath Temperature: 700°F
- Dia. Tolerance: ±0.10 mm
- Length Tolerance: ±1.5%



Expansion Factor

DIAMETER	R10	R12.5	R15	>R15
6.5MM	0.83	0.85	0.88	0.92
8MM	0.92	0.93	0.94	0.96
8.5MM	0.94	0.95	0.95	0.96



FACTORY STOCK-SAME DAY SHIP AVAILABLE 240 Volt, 30 MM Unheated Ends

Length A mm (inches)	Watt	Part #
400 (16")	795	80R-0400
450 (18")	910	80R-0450
500 (19")	1025	80R-0500
550 (21")	1145	80R-0550
600 (23")	1260	80R-0600
650 (25")	1380	80R-0650
700 (27")	1495	80R-0700
750 (29")	1615	80R-0750

Length A mm (inches)	Watt	Part #
800(31")	1730	80R-0800
850 (33")	1845	80R-0850
900 (35")	1960	80R-0900
950 (37")	2080	80R-0950
1000 (39")	2195	80R-1000
1050 (41")	2316	80R-1050
1100 (43")	2430	80R-1100
1150 (45")	2545	80R-1150

SLIDE PRODUCTS

Mold Release

Slide mold release agents are available as aerosol sprays and bulk liquids, in a variety of formulations from light duty to heavy duty, food-grade and NSF-certified, medical part molding, paintable, non-silicone, and specialty releases, Slide's array of high-quality formulations ensures the best results for every application.



Part Number	Description	Food Grade Approved	Non-Silicone	Paintable
S-46612	Knock Out	Χ	X	Χ
S-41012	Zinc Stearate		X	Χ
S-40112	Silicone Mold Release Agent	X*		
S-40012	Paintable Mold Release			Χ
S-40510	Econo-Spray #1	X*		
S-40810	Econo-Spray #3	Χ	X	Χ

Mold Cleaner

Mold cleaners are designed for removing tough resin deposits, silicone and other contaminants, with some formulations customized for the temperature at which they are used and by the products being molded.



Part Number	Description	Food Grade Approved	Quick Evaporation	Removes Resin
S-46910	Mold Cleaner 4	NSF (P1)	X	
S-40910	Quick Mold Cleaner		Χ	
S-46410	NEXGEN	NSF (P1)		X
S-46370	Wipes			
S-45612	Econo-Spray Mold Cleaner	X*		
S-41914	The Stripper			X
S-46370	Mold Cleaner Wipes			1

Need a Slide product not listed? Please contact us, Hi-Watt carries the complete line of Slide Products.

^{*}Indirect food contact

SLIDE PRODUCTS

Rust Preventatives

Rust takes advantage of small opportunities to create big problems. Even the acid left behind by a fingerprint can be an invitation to rust. Vapor residue or moisture trapped inside a stored mold can lead to rust, even during short periods of inactivity.



Part Number	Description	Food Grade Approved	Dry Formulation	Protection
S-42910	Mold Shield		X	2-year**
S-40212	No Rust			5-Year**
S-46710	White Rhino	NSF (H1)		2-Year**
S-42810	Quick RP w/ Red Indicator Dye		Χ	2-Year**

High Temperature Grease

Super Grease will not separate, run or fall out and has exceptional load-bearing properties. A clear, clean, non-yellowing grease, Super Grease is ideal for injection molds, mold assemblies, and especially medical and food grade plastic parts.

NSF category H1

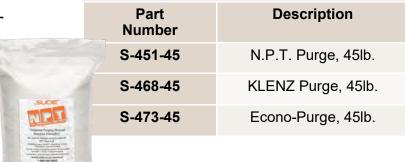
Product	Part Number
Super Grease Tube, 3oz.	S-43900-3
Super Grease Container, 7lb.	S-43900-7
Super Grease Spray	S-43911
Super Grease Tub, 16oz	S-43900C



Purging Compounds

Slide's purging compounds speed up resinto-resin and color-to-color changes, maximizing your productivity and decreasing the costs.

We can help you find the right product for your purging problem and help you start re-capturing purge time and turn it back into time spent molding.



HOT RUNNER CABLES

These cables are designed to handle the unique rigors and requirements of injection molding systems. Our cables and other accessories are the keys to getting the best performance from your hot runner temperature controllers.

Туре	Part Number	Zone	Lead Length	
POWER	CBL-PWC-12-10-ST	12	10'	
POWER	CBL-PWC-12-20-ST	12	20'	
THERMOCOUPLE	CBL-THC-12-10-ST	12	10'	
THERWOCOUPLE	CBL-THC-12-20-ST	12	20'	
СОМВО	PTC1-10	1	10'	

Hot Runner Cable Accessories



16 PIN			
Part Number Description			
10.0729	BASE		
10.0829 HOOD			
10.1940	INSERT MALE		
10.1950	INSERT FEMALE		



25 PIN



24 PIN			
Part Number	Description		
10.1029	BASE		
10.1119	HOOD		
10.1960	INSERT MALE		
10.1970	INSERT FEMALE		

Part Number Description 70.4740 **BASE** 10.5652 HOOD INSERT/MALE 11.2600 11.2610 INSERT/FEMALE 11.2235 PIN 11.2285 SOCKET 11.1610 REMOVAL TOOL

Many of our standard power connectors feature compatibility with controllers/main frames. Contact Hi-Watt with questions about connector kits and mainframe accessories for hot runner systems.

Call for accessories and additional cable options. Ask about our cable repair service.

HOT RUNNER CUSTOM CABLE CONFIGURATION FORM

Cable Specifications				
Туре	Length	Number of Zones	Amperage	
□ Power□ Thermocouple	D FT			
Provide Pinout (pos	sition and number for each z	zone)		
Special Requireme	ents (if applicable)			
Mold End				
Ins	sert	Hood Style	Number of Contacts	
 Male Female		□ Top Entry□ Side Entry	□ 16A □ 16B	
Number of Positions or	n Insert:	Hood Clamp	□ 24 □ 25	
	_	☐ Single Lever☐ Double Lever	□ 32 □ 48	
Mainframe End				
In	sert	Hood Style	Number of Contacts	
☐ Male ☐ Female		□ Top Entry□ Side Entry	□ 16A □ 16B	
Number of Positions or	n Insert:	Hood Clamp	□ 24 □ 25	
	_	☐ Single Lever☐ Double Lever	□ 32 □ 48	

Please ensure all information provided is accurate and all necessary information noted. If you have any questions regarding your cable assembly, please contact Hi-Watt for assistance.

PLEASE CALL HI-WATT FOR ALL CUSTOM CABLE SOLUTIONS (E.G., ROBOT CABLES)

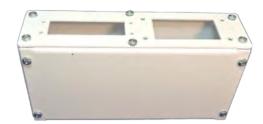
HOT RUNNER MOLD ACCESSORIES

Mold Junction Boxes

Mold Wiring Junction Boxes are the most convenient and economical method of mounting power the thermocouple connectors to the mold. These boxes are made of heavy gauge steel, anodized for protection and pre-cut, pre-drilled for hassle free mounting on the mold. These boxes utilize bolted construction for convenient access and installation of connectors.

MJB-12: 12 Zone Mold Box

• Easy to mount mold box for accepting power (PWC) and thermocouple (THC) cables.



Mold Junction Connectors

Designed to mount on the mold or mold junction box and accept mold power cable from the main frame. All power connectors are compatible with industry standard control modules and mainframes. The difference is the number of pin pairs installed in the connector, which determines the number of zones a connector will operate.

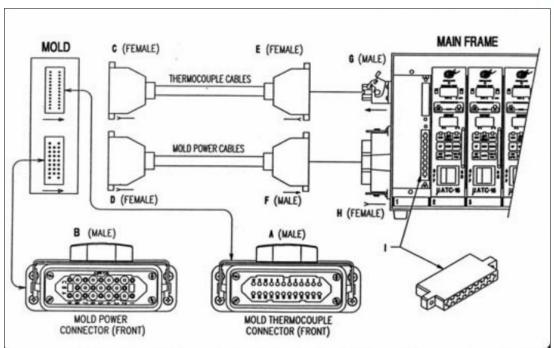
MPC-12: 12 Zone Power Connector

- Mounts on mold accepts mold power cable (CBL-PWC-12-XX-ST)
- 6" pigtails



MTC-12: 12 Zone Thermocouple Connector

Mounts on mold accepts mold thermocouple cable (CBL-THC-12-XX-ST)





CONTROLS

HWHRC Hot Runner Control Card

- Wide power supply range, AC85~400V
- Soft-start mode, avoid the humidity
- Thermocouple input protection
- Thermocouple & heater inverse protection
- J and K type thermocouple options
- Over voltage power alarm
- Ultra-high or ultra-low temperature alarm
- Output device damage alarm
- Displays amp draw and power used



Power Supply	AC85~ 265V,50/60Hz	Consumed Power	< 2.5W
Control Mode	Auto-PID / Manual	•	Zero Cross / Phase Angle
Sensor Type	Thermocouple J or K	Measurement Range	0~450°C(32~842°F)
Measurement Accuracy	±0.25% FS	Setting Range	0~450°C(32~842°F)
Control Accuracy	±0.25% FS	Display Resolution	1 unit / 0.1unit
Working Temperature	0~50°C(32~122°F)	Load Capacity	15A,3600W @ 240Vac
Storage Temperature	-20~70°C(-4~158°F)	Switching Mode	Tact Switch
Working Humidity	10~80%RH (No condensing)		

EZ ZONE PM Control

- Integrated PID and Limit Controller Options
- High Amperage Power Control Output Drives
 15 Amp Heater Load
- Touch Safe Package
- Type J or K Thermocouple/ F or C Control
- Programmable Menu System
- Bluetooth Programming
- 1/32 And 1/16 Din Stock Options

WATLOW EX-TONE 25 (25)

TSC-1 Single Zone Control

The Hi Watt single zone industrial control console is a full feature PID temperature control. Industrial control consoles are also available in **dual zone** configuration.

- Pre-wired output
- User selectable soft start function
- PID and manual mode capability
- Auto Tune for increased control accuracy
- J or K type thermocouple user selectable
- Zero Cross power control



LINEAR TRANSDUCERS



Ideal for applications on **plastic injection molding presses**, vertical presses, and on many other processing machines.

Main features:

- The transducer has been improved in order to guarantee greater reliability under all conditions
- Mechanical linkage using joint with take up of play, M5 thread
- Installation is made simpler by the absence of electrical signal variation in output, outside the Theoretical Electrical Stroke
- The new grooves provide an excellent alternative to the usual system of fastening with brackets
- Ideal for applications on plastic injection presses, vertical presses, and on many other processing machines
- Grade of protection IP40

Part Number	Stroke	Novotechnik Cross
PK-M-175	175MM	TLH-175
PK-M-225	225MM	TLH-225
PK-M-300	300MM	TLH-300
PK-M-360	360MM	TLH-360
PK-M-450	450MM	TLH-450
PK-M-500	500MM	TLH-500
PK-M-600	600MM	TLH-600
PK-M-750	750MM	TLH-750
PK-M-1000	1000MM	TLH-1000
PK-M-1500	1500MM	TLH-1500

PKM series is a direct cross to Novotechnik TLH series

Hi-Watt carries the complete line of Gefran Melt Pressure Transducers and Transmitters, Linear and Position Transducers, Industrial Pressure Sensors, Pressure and Temperature Controllers and Indicators.

Call For Pricing & Additional Accessories

TEMPERATURE CONTROL CONSOLES

The **Hi-Watt Control Console** offers a complete control solution consisting of the temperature control, sensor input, power switching device and heater connection in a small package. Installation is quick and easy in as few as 3 easy connections. Each unit is supplied with a line cord as well as the mating connectors for the thermocouple and power connections.

Main features:

Single Zone



- Series are fitted with Watlow Series EZ Zone PM controls.
- The heater output and control circuit are fused to protect the internal components from damage.
- The heater output is pre-wired making installation quick and easy.
- Each zone utilizes a solid state relay for longer heater life and a lower cost than other power switching devices.
- Control Consoles are ordered with your choice of thermocouple (J,K or T) or 2 wire RTD.
- The heater output connectors can be ordered as either an Amp Mate-n-Lok or twist and lock connector.
- Also available in **Dual Zone** and **Quad Zone**.

Dual Zone



Quad Zone



Call For Pricing & Custom Options

INVENTORY STOCKING PROGRAM



Hi-Watt stock programs ensure that you have your industrial heater and thermal system products when you need them. With a stocking program, Hi-Watt assists with your inventory management to certify you have the appropriate amount of stock on hand to avoid suffering costly downtime.

If your company is looking for ways to save money and improve profitability, a stocking program might be right for you.

YOUR TIME IS CRITICAL,

We can stock your required products before you need them.

Benefits of a Stocking Program

Eliminate Down Time

On-time manufacturing is critical and supply chain integrity is unpredictable, despite obstacles suppliers must still deliver products on a tight schedule. Implementing a stocking program can help protect your business from delivery volatility and keep your operations running more smoothly.

Minimized Inventory Carrying Costs

We will work with you to set the appropriate minimum and maximum levels of inventory stocked. This will allow for suitable stock to be on-hand while for reducing the need for excess inventory and allocation of warehouse space.

Relationship Building

It's important to us that our clients see us as their industry partner. We want you to rely on us for stock items, design services and in-house repairs. When it comes to the thermal industry, we want to give you the complete, full-service experience.

Stocking programs aren't one size fits all, we will develop a program that meets your specific needs. Contact your account manager or our customer service team at 800-321-8007 for more information on how we can support your inventory stocking initiatives.

Just a few of the product lines we can assist with stocking programs for:

- Band/Nozzle Heaters
- Cartridge Heaters
- Air Heaters
- Mold Cleaners / Releases Thermal Components
- Rust Preventatives
- Hot Runner Cables
- Thermocouples
- Wire and Accessories