



Bolt Heaters/ Flexible Bolt Heaters



Certificate No. 013867

Heatrex has over thirty-five years experience in the design and manufacture of high quality bolt heaters. The Heatrex Bolt Heater is specifically designed to provide maximum watt density rating on the heated tube length.

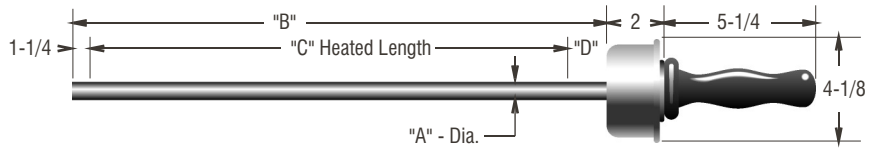
Heatrex uses the highest quality materials commonly available to manufacture these heaters and maintains rigid quality control procedures to insure a reliable product. Each heater is energized at rated voltage and electrically tested at full heat prior to shipment.

Applications

Heatrex Bolt Heaters are used to preheat large, hollow holding bolts or studs where a high concentration of heat is critical for bolt expansion in a short period of time. As an insertion type unit, the bolt heater is widely used in the manufacture and servicing of heavy duty steam or other pressure equipment. It is also used to heat die blocks and large platens and to expand adjusting bolts on mechanical or hydraulic presses.

In general, most applications attempt to produce an expansion (or stretch) of .0015 inches per inch of length on alloy bolts. This will produce a bolt stress of 45,000 psi at the root of the thread. The portion of the bolting member to be heated, excluding threads, is usually approximately 65% of the total length.

The following chart outlines suggested heater diameters for some common hole sizes to produce the above stretch using standard Heatrex Bolt Heaters.



| Clearance Hole | Heater Diameter |
|----------------|-----------------|
| .500 | .438 |
| .625 | .553 or .565 |
| .750 | .688 |
| .813 | .781 |
| .875 | .813 |
| 1.000 | .938 |
| 1.125 | 1.047 |
| 1.250 | 1.188 |
| 1.500 | 1.324 |

Standard Features

- Alloy sheath swaged tubular construction
- Grade "A" magnesium-oxide filled and swaged
- 80/20 Nickel chrome alloy resistance wire
- Standard 4" octagon electrical enclosure, with knock-outs for easy wiring
- Insulating handle
- Wide range of standard (stock) diameters and lengths

Optional Features

- Special watt densities, wattages, lengths and diameters available
- Three conductor power leads and plug assemblies
- Two conductor power leads with grounding clip and plug assemblies
- Replaceable element bolt heaters feature cast boxes for convenient screw-in interchangeability
- Flexible Bolt Heaters available

Benefits

- Fast response, large bolts can be heated to full expansion in 15-30 minutes
- May be used in multiples, for uniform heating of matching bolts

Installation

Heatrex Bolt Heaters can be portable with plug disconnect. When multiple heaters are used, all must be energized simultaneously. Check service to determine that the line will carry the heater load at rated voltage. For insertion applications, hole diameter should be as close to heater diameter as possible (1/16" maximum clearance). Close tolerance will permit maximum heat transfer and prolong heater life. For applications other than bolt heating contact the factory.

Operating Instructions

Warning: Do not operate bolt heater at rated voltage in open air. Insert heater into bolt before energizing. Heater must be properly fused and grounded.

In view of the fact that bolt heaters operate at high temperatures with a relatively short life, ultimate failure should be anticipated and precautions taken to prevent an electrical or shock hazard.

Heaters should be connected to a power supply of rated voltage on the nameplate. All field wiring should be in accordance with NEC and local codes.

BOLT HEATERS

Adequate wire size for total amperage and length of run should be determined from standard code tables. Where more than one heater is used on a circuit, it is recommended that each heater be individually fused to prevent damage to the equipment and possible shock hazard to operating personnel.

Storage

Care should be taken to store heaters properly prior to use. Heaters must be stored inside in dry heated locations. Do not store in wet humid locations.

If heaters have been stored for more than sixty days or have not been used for over thirty days between operations, insulation tests should be conducted to check for moisture absorption (see Field Test Instructions included with shipment).

Bolt Heater Selection Guide

| Watts | Dimensions (in.) | | | | Catalog Number | | Wt. lbs. (approx.) |
|-------|------------------|--------|----------|----------|----------------|----------|--------------------|
| | "A" | "B" | "C" | "D" | 120 V | 240 V | |
| 825 | .438 | 19 1/4 | 12 | 6 | 200001-1 | 200001-2 | 1 |
| 1240 | | 25 1/4 | 18 | | 200002-1 | 200002-2 | 2 |
| 1650 | | 31 1/4 | 24 | | 200003-1 | 200003-2 | 2 |
| 2475 | | 43 1/4 | 36 | | 200004-1 | 200004-2 | 2 |
| 1050 | .553 | 19 1/4 | 12 | 6 | 200005-1 | 200005-2 | 1 |
| 1560 | | 25 1/4 | 18 | | 200006-1 | 200006-2 | 2 |
| 2085 | | 31 1/4 | 24 | | 200007-1 | 200007-2 | 3 |
| 3125 | | 43 1/4 | 36 | | 200008-1 | 200008-2 | 3 |
| 4175 | | 55 1/4 | 48 | | 200056-1 | 200056-2 | 4 |
| 1300 | .688 | 19 1/4 | 12 | 6 | 200009-1 | 200009-2 | 2 |
| 1950 | | 25 1/4 | 18 | | 200010-1 | 200010-2 | 3 |
| 2600 | | 31 1/4 | 24 | | 200011-1 | 200011-2 | 3 |
| 3900 | | 43 1/4 | 36 | | 200012-1 | 200012-2 | 4 |
| 5185 | | 55 1/4 | 48 | | 200048-1 | 200048-2 | 5 |
| 6485 | | 67 1/4 | 60 | | 200054-1 | 200054-2 | 6 |
| 1535 | .813 | 19 1/4 | 12 | 6 | 200013-1 | 200013-2 | 2 |
| 2300 | | 25 1/4 | 18 | | 200014-1 | 200014-2 | 4 |
| 3065 | | 31 1/4 | 24 | | 200015-1 | 200015-2 | 5 |
| 4600 | | 43 1/4 | 36 | | 200016-1 | 200016-2 | 6 |
| 6135 | | 55 1/4 | 48 | | 200046-1 | 200046-2 | 6 |
| 7665 | | 67 1/4 | 60 | | 200053-1 | 200053-2 | 8 |
| 1770 | | .938 | 22 1/4 | | 12 | 9 | 200017-1 |
| 2650 | 28 1/4 | | 18 | 200018-1 | 200018-2 | | 5 |
| 3540 | 34 1/4 | | 24 | 200019-1 | 200019-2 | | 5 |
| 5300 | 46 1/4 | | 36 | 200020-1 | 200020-2 | | 7 |
| 7075 | 58 1/4 | | 48 | 200049-1 | 200049-2 | | 8 |
| 8850 | 70 1/4 | 60 | 200055-1 | 200055-2 | 9 | | |
| 1975 | 1.047 | 22 1/4 | 12 | 9 | 200021-1 | 200021-2 | 5 |
| 2960 | | 28 1/4 | 18 | | 200022-1 | 200022-2 | 6 |
| 3950 | | 34 1/4 | 24 | | 200023-1 | 200023-2 | 6 |
| 5925 | | 46 1/4 | 36 | | 200024-1 | 200024-2 | 8 |
| 7900 | | 58 1/4 | 48 | | 200025-1 | 200025-2 | 10 |
| 9870 | | 70 1/4 | 60 | | 200047-1 | 200047-2 | 11 |
| 4995 | | 1.324 | 37 1/2 | | 24 1/4 | 12 | 200026-1 |
| 7490 | 49 1/2 | | 36 1/4 | 200027-1 | 200027-2 | | 11 |
| 9985 | 61 1/2 | | 48 1/4 | 200028-1 | 200028-2 | | 15 |
| 12490 | 73 1/2 | | 60 1/4 | 200029-1 | 200029-2 | | 16 |

| Watts | Dimensions (in.) | | | | Catalog Number | | | | |
|-------|------------------|-------|-----|--------|----------------|--------|--------|--------|--------|
| | "A" | "B" | "C" | "D" | 115 V | 230 V | 240 V | | |
| 845 | .565 | 14 | 10 | 2.75 | - | - | 540223 | | |
| 1350 | | 20 | 16 | | - | - | 540224 | | |
| 1850 | | 26 | 22 | | - | - | 540225 | | |
| 2360 | | 32 | 28 | | - | - | 540058 | | |
| 2865 | | 38 | 34 | | - | - | 540092 | | |
| 270 | .565 | 7 | 3 | 2.75 | 540180 | - | - | | |
| 440 | | 9 | 5 | | 540181 | - | - | | |
| 620 | | 11 | 7 | | 540042 | - | - | | |
| 790 | | 13 | 9 | | 540079 | - | - | | |
| 960 | .565 | 15 | 11 | 2.75 | 540182 | 540183 | - | | |
| 1140 | | 17 | 13 | | 540184 | 540018 | - | | |
| 1310 | | 19 | 15 | | 540185 | 540115 | - | | |
| 1500 | | 21 | 17 | | 540116 | 540076 | - | | |
| 1660 | | 23 | 19 | | 540186 | 540187 | - | | |
| 1850 | | 25 | 21 | | 540188 | 540136 | - | | |
| 2015 | .565 | 27 | 23 | 2.75 | - | 540189 | - | | |
| 2200 | | 29 | 25 | | - | 540190 | - | | |
| 2375 | | 31 | 27 | | - | 540191 | - | | |
| 2540 | | 33 | 29 | | - | 540192 | - | | |
| 2800 | | 36 | 32 | | - | 540193 | - | | |
| 960 | | .781 | 10 | | 6 | 2.75 | - | 540168 | - |
| 1215 | | | 14 | | 10 | | 540203 | 540111 | - |
| 1460 | 16 | | 12 | 540112 | 540043 | | - | | |
| 1700 | 18 | | 14 | 540113 | 540040 | | - | | |
| 1960 | 20 | | 16 | 540151 | 540114 | | - | | |
| 2200 | .781 | 22 | 18 | 2.75 | 540152 | 540153 | - | | |
| 2430 | | 24 | 20 | | 540154 | 540078 | - | | |
| 2550 | | 25 | 21 | | - | 540169 | - | | |
| 2680 | | 26 | 22 | | 540155 | 540156 | - | | |
| 2915 | | 28 | 24 | | 540157 | 540158 | - | | |
| 3160 | | .781 | 30 | | 26 | 2.75 | 540159 | 540051 | - |
| 3400 | 32 | | 28 | 540160 | 540161 | | - | | |
| 3650 | 34 | | 30 | 540162 | 540163 | | - | | |
| 3900 | 36 | | 32 | 540164 | 540019 | | - | | |
| 4140 | .781 | 38 | 34 | 2.75 | - | 540165 | - | | |
| 4375 | | 40 | 36 | | - | 540166 | - | | |
| 4625 | | 42 | 38 | | - | 540015 | - | | |
| 4860 | | 44 | 40 | | - | 540093 | - | | |
| 5110 | | .781 | 46 | | 42 | 2.75 | - | 540077 | - |
| 5350 | 48 | | 44 | - | 540039 | | - | | |
| 5590 | 50 | | 46 | - | 540167 | | - | | |
| 6075 | 54 | | 50 | - | 540052 | | - | | |
| 2670 | .813 | | 26 | 22 | 2.75 | | - | - | 540050 |
| 3400 | | 32 | 28 | - | | - | 540118 | | |
| 4125 | | 38 | 34 | - | | - | 540060 | | |
| 4850 | | 44 | 40 | - | | - | 540053 | | |
| 5580 | | 50 | 46 | - | | - | 540054 | | |
| 6305 | .813 | 56 | 52 | 2.75 | - | - | 540049 | | |
| 7035 | | 62 | 58 | | - | - | 540117 | | |
| 7760 | | 68 | 64 | | - | - | 540205 | | |
| 8610 | | 75 | 71 | | - | - | 540207 | | |
| 4970 | | 1.188 | 32 | | 28 | 2.75 | - | - | 540209 |
| 6025 | 38 | | 34 | - | - | | 540210 | | |
| 7090 | 44 | | 40 | - | - | | 540119 | | |
| 8150 | 50 | | 46 | - | - | | 540212 | | |
| 9215 | 56 | | 52 | - | - | | 540214 | | |
| 10275 | 62 | | 58 | - | - | | 540215 | | |
| 11340 | 68 | | 64 | - | - | | 540217 | | |
| 12580 | 75 | | 71 | - | - | | 540219 | | |

*SPECIAL SIZES AND RATING AVAILABLE - CONSULT FACTORY

Standard Heaters Provided with Box and Handle Only. For Additional Accessories Add Correct Suffix to Catalog Number
 "0" - Lead wires only "1" - Lead wire with ground clip "2" - Twist lock plug with ground clip "3" - Twist lock plug with integral ground
 Standard lead length on above options is 2 feet. Longer lead lengths available.

FLEXIBLE BOLT HEATERS

Applications

Heatrex Flexible Bolt Heaters are designed to allow easy access to stud bolts with overhead clearance restrictions. Heatrex Flexible Bolt Heaters incorporate a time proven design of 50 watts of heat per square inch. The flexible sheath allows the heater to be flexed or bent to almost any required configuration.

Standard Features

- Alloy sheath
- Element swaged to finished size
- Two high-temperature resistance wires
- Grade "A" magnesium-oxide insulation

Optional Features

- Three prong twist lock plug

Benefits

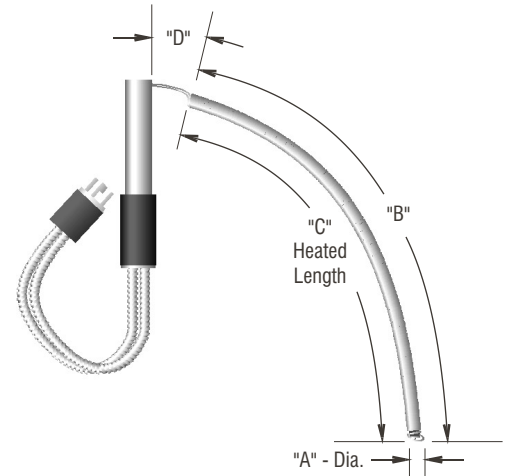
- A unique "Top Hat" design, retaining plug and cable, help with insertion while preventing unraveling of element.
- A special handle assembly incorporates a 90° offset, which increases the insertion clearance by 80%, allowing easy entry into studs with less than optimum clearance.

| Watts | Dimensions (in.) | | | | Catalog Number | | Wt. lbs. (approx.) |
|-------|------------------|-------|------|------|----------------|-----------|--------------------|
| | "A" | "B" | "C" | "D" | 120 V | 230/240 V | |
| 590 | .375 | 13 | 10 | 3 | 640001 | N/A | .75 |
| 1060 | | 21 | 18 | | 640002 | N/A | 1.00 |
| 825 | | 15 | 12 | | 640003 | N/A | 1.00 |
| 1650 | .438 | 27 | 24 | 3 | 640004 | N/A | 1.00 |
| 2475 | | 39 | 36 | | 640005 | N/A | 1.50 |
| 820 | .500 | 16.5 | 13 | 3.5 | * | 640057 | 1.50 |
| 1050 | | 15 | 12 | | 640006 | 640007 | 1.50 |
| 2090 | .553 | 27 | 24 | 3 | N/A | 640008 | 2.00 |
| 4180 | | 51 | 48 | | N/A | 640009 | 2.75 |
| 1414 | .560 | 16 | 11 | 5 | * | 640015 | 1.00 |
| 1300 | .688 | 16 | 12 | 4 | 640010 | 640011 | 1.75 |
| 1950 | .688 | 24.25 | 18 | 6.25 | * | 640055 | 2.00 |
| 3900 | .688 | 43.25 | 36 | 7.25 | * | 640056 | 3.00 |
| 4000 | .688 | 54.25 | 48 | 6.25 | * | 640054 | 3.00 |
| 1800 | .724 | 29.5 | 26.5 | 3 | * | 640059 | 3.00 |
| 3564 | .750 | 36 | 33 | 3 | * | 640043 | 3.00 |
| 1800 | .762 | 29.5 | 26.5 | 3 | * | 640058 | 3.00 |
| 2700 | .781 | 24 | 21 | 3 | * | 640037 | 2.50 |
| 3510 | .781 | 30 | 27 | 3 | * | 640038 | 2.75 |
| 1540 | .813 | 16 | 12 | 4 | 640012 | 640013 | 2.00 |
| 1770 | .938 | 17 | 12 | 5 | N/A | 640014 | 2.75 |

*SPECIAL SIZES AND RATINGS AVAILABLE - CONSULT FACTORY

Standard Heaters Provided with Handle and Leads. For Additional Accessories Add Correct Suffix to Catalog Number

"1" - Lead wire with ground clip "2" - Twist lock plug with ground clip "3" - Twist lock plug with integral ground
Standard lead length on above options is 2 feet. Longer lead lengths available.



ADDITIONAL PRODUCTS FROM HEATREX, INC.



Portable Distribution Center



The "Outage Master" Distribution Center



Bolt Heater Storage Cart

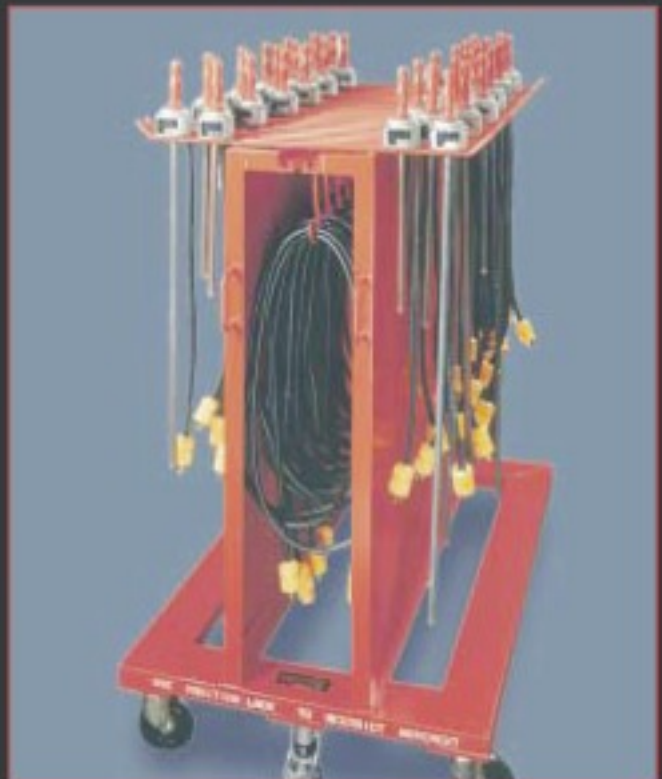


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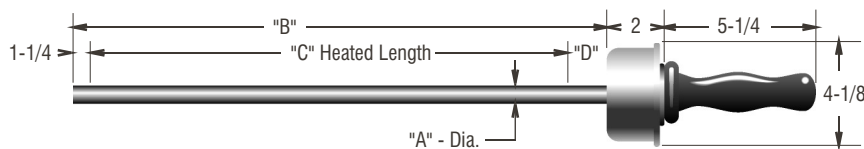
*THE OUTAGE MASTER
POWER DISTRIBUTION LOAD CENTER*



UPCOMING OUTAGE? TEARING DOWN YOUR TURBINE? NEED BOLT HEATERS?

CHECK YOUR STOCK OF BOLT HEATERS FOR CORRECT SIZES AND WORKING CONDITION.

- Heatrex Stocks Hundreds of Standard GE, Westinghouse and Other OEM Style Electric Bolt Heaters Ready for 48-Hour Shipment
- Heatrex Can Build to Your Specifications and Ship to You Within 2-3 Weeks After Receipt of Order
- Heavy Duty Construction
- In Addition to Standard Design (See Diagram), Heatrex has Flexible and Replaceable Element Style Bolt Heaters
- **NEW Selection!** Gas Bolt Heaters
- Heatrex Manufactures Portable Load Centers and Carts to Assist You With Your Outage



| Watts | "A" Diameter | "B" Sheath Length | "C" Heated Length | "D" Cold Length | Volts | P/N | Quantity |
|-------|-----------------|----------------------|----------------------|--------------------|-------|-----|----------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

***SPECIAL SIZES AND RATING AVAILABLE - CONSULT FACTORY**

Standard Heaters Provided with Box and Handle Only. For Additional Accessories Add Correct Suffix to Catalog Number

"0" - Lead wires only "1" - Lead wire with ground clip "2" - Twist lock plug with ground clip "3" - Twist lock plug with integral ground
Standard lead length on above options is 2 feet. Longer lead lengths available.

POWER GEN CO. NAME: _____

STATION NAME: _____

CONTACT NAME: _____

OUTAGE START DATE: _____

PH: _____ **FAX:** _____

CALL HEATREX AT (814) 724-1800 FOR A QUOTATION AND QUICK DELIVERY.

FAX: (814)333-6580 • E-Mail: sales@heatrex.com. Visit www.heatrex.com for additional information on our complete tubular heater product line. Custom built heaters used for service and repair throughout the power generation plant.

THE OUTAGE MASTER POWER DISTRIBUTION LOAD CENTER

QUOTATION REQUEST SPECIFICATION SHEET:

CUSTOMER _____ CONTACT _____
 ADDRESS _____ TITLE _____
 CITY _____ PHONE# _____
 STATE _____ ZIP CODE _____ FAX# _____

PRIMARY (INPUT) VOLTAGE _____ SINGLE PHASE _____ OR 3 PHASE _____

MAIN BREAKER AMPS _____
 POWER CORD? YES _____ OR NO _____ LENGTH of CORD? _____
 WITH PLUG? YES _____ OR NO _____
 MAIN DISCONNECT? YES _____ OR NO _____

| | QTY | VOLTS | AMPS | PHASE | RECEPTACLE TYPE & MODEL NO. |
|---|-----|-------|------|-------|-----------------------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

SECONDARY CIRCUIT SPECIFICATIONS:

G.F.C.I. (GROUND FAULT CIRCUIT INTERRUPTER) YES _____ OR NO _____

ENCLOSURE TYPE: NEMA 1 _____ OR NEMA 3 _____ OR OTHER _____

MOBILE _____ OR STATIONARY? _____

LIFTING EYES: YES _____ OR NO _____

CABLE STORAGE COMPARTMENT: YES _____ OR NO _____

HEATER STORAGE COMPARTMENT: YES _____ OR NO _____

NOTES:



HEATREX will make recommendations, if not specified by customer. If you have any questions or would like assistance in customizing your load center, please call. We look forward to being of service to you.



THE OUTAGE MASTER POWER DISTRIBUTION SPECIFICATION SHEET 25 KVA UNIT (EXAMPLE)

Electrical Specifications

- Power input 480V, single phase, three wire
- Power output: 240V/120V, single phase
- Transformer: 25 KVA continuous rating
- Primary "Main" circuit breaker. Two pole 480V, with door mounted, rotary "on-off" handle mechanism
- Secondary "Main" circuit breaker: Two pole 240V
- Receptacle circuit breakers are located behind a front mounted, hinged door
- Six (6) circuit breakers: 15 amps, 120 volts
- Three (3) circuit breakers: 20 amps, two pole, 240 volts
- Nine (9) "On-off" lights, one per receptacle, indicate if voltage is present at the outlets
- One (1) "On-off" light, indicates if the voltage is present at the load side of the primary 480 volt circuit breaker
- Unit is completely wired and tested prior to shipment

Note: All receptacles may be operated simultaneously at their full rated load.

Outlet Circuit Specifications

- Qty. 2 @ 240 Volts, 30 Amps, single phase, standard flanged twist lock receptacles
- Qty. 2 @ 240 Volts, 15 Amps, single phase, standard flanged twist lock receptacles
- Qty. 4 @ 120 Volts, 15 Amps, single phase, standard duplex GFCI (ground fault circuit interrupter) straight blade receptacles

(Total Amps Available 100)

Mechanical Specifications

- Enclosures: NEMA 1 (for indoor use in dry areas only)
- Heater storage rack for up to 5 heaters (3/4" dia. or less) in a vertical position
- Brackets for load center power cord storage when not in use
- Compact "vertical" design will fit into a 2' X 3' floor area storage space when not in use
- Assembly: Mobile, heavy duty hand truck mounted with large diameter wheels
- Finish; International Orange, industrial enamel

Note: Three phase input is available on the larger 4 wheeled load centers.

Please call or fax Heatrex for answers to your portable load center questions.

We stand ready to assist you in customizing a "Heatrex" Outage Master to meet your plant's specific requirements.



THE OUTAGE MASTER POWER DISTRIBUTION SPECIFICATION SHEET 50 KVA UNIT (EXAMPLE)

Electrical Specifications

- Power input: 480 volt, single phase
- Power output: 240/120 volt single phase
- Transformer rating: 50 KVA - 200 amps maximum output at 240 volts
- Primary circuit breaker: Two pole, 100 amp, 480 volts
- Secondary main breaker: Two pole, 200 amp, 240 volts
- Eight (8) single phase 240 volts, 20 amp receptacles, individually protected with two pole 10 amp circuit breakers
- Four (4) single phase 240 volts, 20 amp receptacles, individually protected with two pole 20 amp circuit breakers
- Two (2) single phase, 120 volts, 20 amp, GFCI, duplex receptacles, individually protected with 15 amp circuit breakers
- One (1) single phase, 480 volt, 50 amp, protected by the primary two pole circuit breaker
- Fifteen (15) On-off lights, one per receptacle, indicate if voltage is present at outlet
- Primary circuit breaker is provided with a front mounted rotary handle operator mechanism
- Secondary circuit breakers are located behind a front mounted, hinged door
- All receptacles and breakers are located in a compartment separate from the transformer
- Unit is completely wired and tested prior to shipment

Mechanical Specifications

- Finish: Heatrex orange enamel
- Framework: Heavy gauge square and rectangular steel channel, welded construction
- Exterior: Covered with heavy gauge steel sheet metal
- Enclosure: NEMA 1 for use indoors in dry areas
- Ventilation: Entire bottom is covered with perforated steel sheet metal. Sides and back are louvered sheet metal
- Front panel: Entire panel face hinges down to allow access to internal wiring
- Wheels: Four (4) large, ball bearing equipped, 8" diameter wheels. Two are fixed position while two are casters for easy maneuverability.
- Floor position lock: Spring loaded, cast iron device is foot operated to help limit movement of the load center
- Lifting eyes: Four (4) heavy duty eyes for use in lifting equipment
- Push bar: Heavy duty bar is mounted to allow the center to be manually pushed from place to place

Note: Internal storage compartment, bolt heater storage, and cord wrap bracket can also be provided on this unit.

Note: Specific receptacle types and model # to be determined at time of order.

Please call or fax Heatrex for answers to your portable load center questions.

We stand ready to assist you in customizing a "Heatrex" Outage Master to meet your plant's specific requirements.



THE OUTAGE MASTER POWER DISTRIBUTION SPECIFICATION SHEET 75 KVA UNIT (EXAMPLE)

Electrical Specifications

- Power input: 480 volt, three phase
- Power output: 240/120 volt single phase
- Transformer rating: 75 KVA - 540 amps maximum total output at 240 volts
- Primary circuit breaker; Two pole, 480 volts
- Three (3) - Secondary main breakers: Two pole, 240 volts
- Three (3) - Single phase, 240 volt, 50 amp twist lock style receptacles, individually protected with two (2) 50 amp circuit breakers
- Six (6) - Single phase, 240 volt, 30 amp twist lock style receptacles, individually protected with two pole 30 amp circuit breakers
- Nine (9) - Single phase, 120 volt, 20 amp, GFCI (ground fault current interrupter), duplex receptacles, individually protected with 20 amp circuit breakers
- Three (3) - Single phase, 120 volt, 30 amp receptacles, individually protected with 30 amp circuit breakers
- Twenty one (21) - On-off lights, indicate if voltage is present at the outlet
- Primary circuit breaker is provided with a front mounted rotary handle operator mechanism
- Secondary circuit breakers are located behind front mounted, hinged doors
- All receptacles and breakers are located in a compartment separate form the transformer
- Unit is wired and tested prior to shipment

Mechanical Specifications

- Finish: Heatrex orange enamel
- Framework: Heavy gauge square and rectangular steel channel, welded construction
- Exterior: Covered with heavy gauge steel sheet metal
- Enclosure: NEMA 1 for use indoors in dry areas
- Ventilation: Entire bottom is covered with perforated steel sheet metal. Sides and back are louvered sheet metal
- Front panel: Entire panel face hinges down to allow access to internal wiring
- Wheels: Four (4) large, ball bearing equipped, 8" diameter wheels. Two are fixed position while two are casters for easy maneuverability.
- Floor position lock: Spring loaded, cast iron device is foot operated to help limit movement of the load center
- Lifting eyes: Four (4) heavy duty eyes for use in lifting equipment
- Push bar: Heavy duty bar is mounted to allow the center to be manually pushed from place to place.

Note: Internal storage compartment, bolt heater storage, and cord wrap bracket can also be provided on this unit.

Note: Specific receptacle types and model # to be determined at time of order.

Please call or fax Heatrex for answers to your portable load center questions.

We stand ready to assist you in customizing a "Heatrex" Outage Master to meet your plant's specific requirements.