



# HEATPAK<sup>®</sup>

**HEATPAK**  
O'BRIEN CORPORATION



**O'BRIEN**

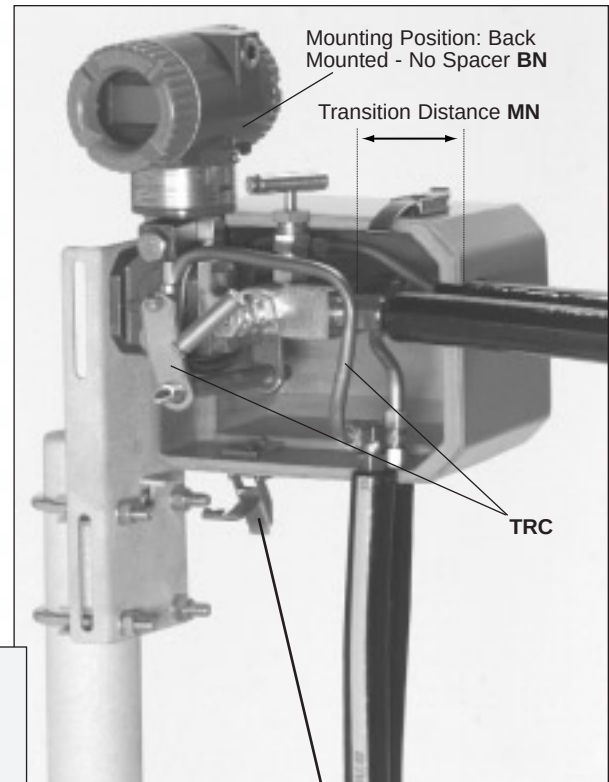
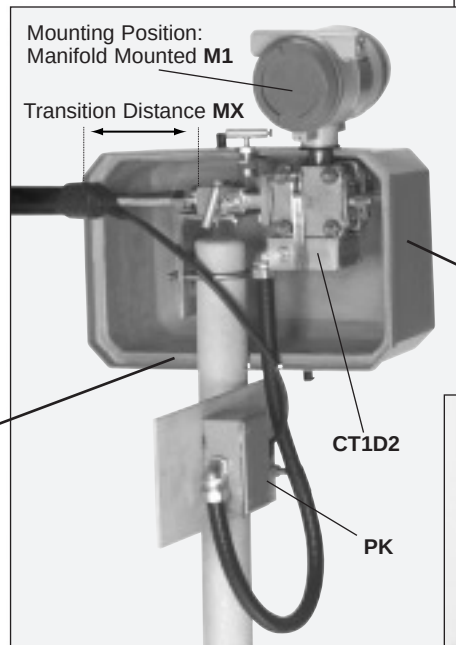
PROCESS ACCURACY THROUGH  
HEAT TRANSFER EXPERTISE

# INSTRUMENT FREEZE PROTECTION MADE EASY

## What is HEATPAK?

HEATPAK is an enclosure system that provides freeze protection and high pour point temperature maintenance for the process wetted portions of transmitter installations.

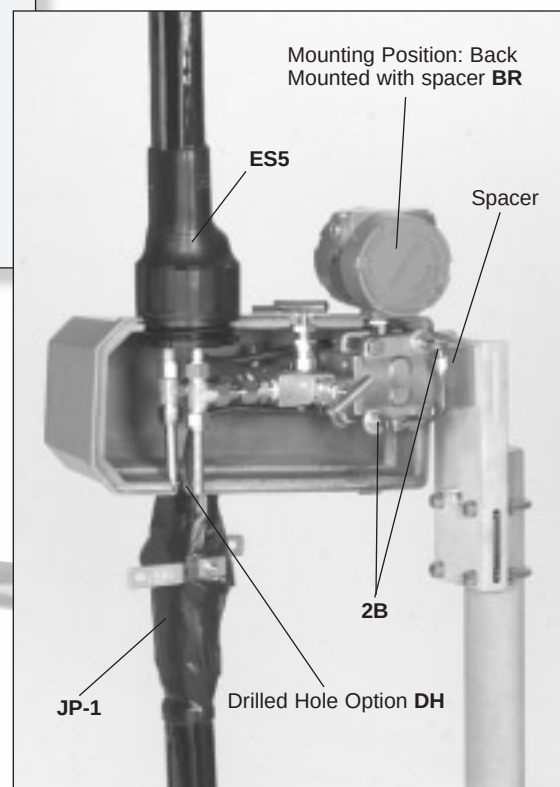
- Freeze protection or temperature maintenance
- Retrofit for existing applications
- Engineered system for new installations
- Low-cost alternative to disposable insulation
- Steam and electric heat
- Easy to install
- Low profile



Urethane insulation

Durable stainless steel latches

Rigid ABS shell



## HEATPAK is easy to order

- 1 Select a transmitter
- 2 Select a manifold
- 3 Add an electric or steam heater
- 4 Choose a mounting position
- 5 Choose a transition distance
- 6 Specify any options

# SELECT YOUR TRANSMITTER & MANIFOLD

## Step 1

### TRANSMITTERS

| TRANSMITTER                         | CODE   | STEAM STUDS |
|-------------------------------------|--------|-------------|
| <b>Foxboro</b>                      |        |             |
| 13A                                 | HPFX1  | ■           |
| 823DPX3                             | HPFX7  | □           |
| 843DPX0-8                           | HPFX11 | □           |
| 843DPX9                             | HPFX12 | □           |
| 863DPX0-8                           | HPFX13 | □           |
| 863DPX9                             | HPFX14 | □           |
| IDP10                               | HPFX15 | □           |
| IGP20                               | HPFX16 | □           |
| 11AM                                | HPFX9  | ■           |
| 11GM (Side mount)                   | HPFX18 | ■           |
| 821GM (Side mount)                  | HPFX19 | □           |
| 821DM (Side mount)                  | HPFX20 | □           |
| 821AM (Side mount)                  | HPFX21 | □           |
| 821AL (Side mount)                  | HPFX22 | □           |
| 821GH (Side mount)                  | HPFX23 | □           |
| <b>Rosemount</b>                    |        |             |
| 1151AP                              | HPRM1  | ■           |
| 1151DP                              | HPRM2  | ■           |
| 1151DR                              | HPRM3  | ■           |
| 1151GP                              | HPRM4  | ■           |
| 1151HP                              | HPRM5  | ■           |
| 3051CGXX0 (Traditional flange only) | HPRM8  | □           |
| 3051CDXX0 (Traditional flange only) | HPRM8  | □           |
| 3051CAXX0 (Traditional flange only) | HPRM8  | □           |
| 3051DP (Traditional flange only)    | HPRM7  | □           |
| <b>Honeywell</b>                    |        |             |
| STD120                              | HPHY15 | □           |
| STD130                              | HPHY16 | □           |
| STD170                              | HPHY17 | □           |
| STD624                              | HPHY18 | □           |
| STD924C,D,G,H,L                     | HPHY19 | □           |
| STD924A,B,E,F,J                     | HPHY20 | □           |
| STD930                              | HPHY21 | □           |
| STD974                              | HPHY22 | □           |
| STG944                              | HPHY23 | □           |
| STG974                              | HPHY24 | □           |
| STG140 (Side mount)                 | HPHY25 | □           |
| STG170 (Side mount)                 | HPHY26 | □           |
| STG180 (Side mount)                 | HPHY27 | □           |
| STG644 (Side mount)                 | HPHY28 | □           |
| STG674 (Side mount)                 | HPHY29 | □           |
| STA122 (Side mount)                 | HPHY30 | □           |
| STA140 (Side mount)                 | HPHY31 | □           |
| STA922 (Side mount)                 | HPHY32 | □           |
| STA940 (Side mount)                 | HPHY33 | □           |
| <b>Yokogawa</b>                     |        |             |
| EJA110                              | HPJY11 | □           |
| EJA430                              | HPJY43 | □           |

■ = Available

### How to construct a model number:

- Complete steps 1 thru 6, selecting one option from each list
- Combine the model code from each list to form a complete model number.

#### EXAMPLE:

A Rosemount model 1151DP with Hex manifold mount model HM-131.

**HPRM2-HM131**

#### Note:

HEATPAK is available only for transmitters and manifolds listed. Consult representative or factory for custom enclosures.

## Step 2

### MANIFOLDS

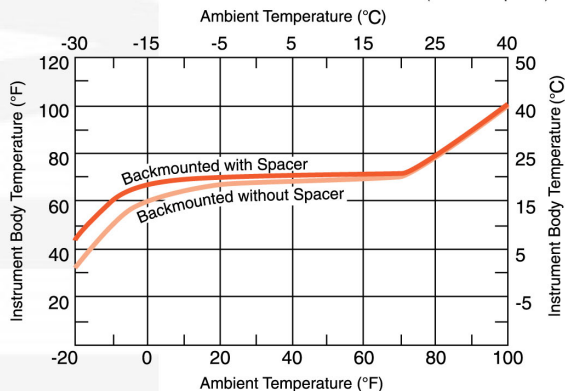
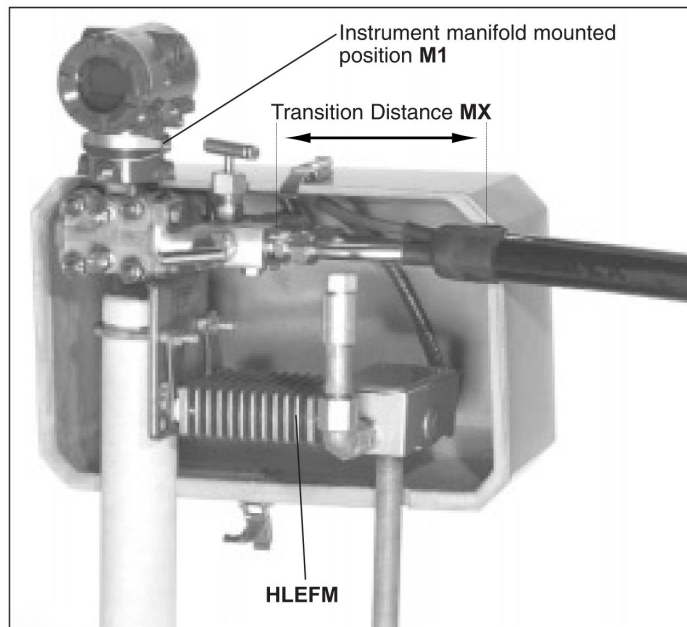
| MANIFOLD                  | CODE | MANIFOLD MOUNTED |
|---------------------------|------|------------------|
| <b>No Manifold</b>        |      |                  |
|                           | X    |                  |
| <b>Anderson Greenwood</b> |      |                  |
| M3A                       | AG07 |                  |
| M4A                       | AG19 |                  |
| M4A-AM                    |      | AG119            |
| M4T                       | AG01 |                  |
| M4T-AM                    |      | AG101            |
| M4TP                      | AG02 |                  |
| M4TP-AM                   |      | AG102            |
| <b>D/A Mfg. Co.</b>       |      |                  |
| BY-4F                     | DA10 |                  |
| BYK-4                     | DA07 |                  |
| BYK-4M                    | DA12 |                  |
| GP3T4C                    | DA03 | DA103            |
| GP3TC                     | DA03 | DA103            |
| GP3FC                     | DA03 | DA103            |
| GP2PTMT4C                 | DA02 | DA102            |
| GP2PTMTC                  | DA02 | DA102            |
| GP2PTMFC                  | DA02 | DA102            |
| GP2LLMT4C                 | DA01 | DA101            |
| GP2LLMTC                  | DA01 | DA101            |
| GP2LLMFC                  | DA01 | DA101            |
| MM-4B                     | DA06 |                  |
| MM-4BF                    | DA11 |                  |
| ZM-6                      | DA08 |                  |
| <b>Hex Mfg.</b>           |      |                  |
| HM-93                     | HM93 |                  |
| HM-94                     | HM94 |                  |
| HE-40                     | HM40 |                  |
| HE-44                     | HM44 |                  |
| HM-53                     | HM53 |                  |
| HM-54                     | HM54 |                  |
| HM-58                     | HM58 |                  |
| HM-131                    |      | HM131            |
| HM-141                    |      | HM141            |
| HM-181                    |      | HM181            |
| <b>Hoke</b>               |      |                  |
| HO8112F8YK1               |      | HO112            |
| HO8122                    | HO22 |                  |
| HO8123                    | HO23 |                  |
| HO8128                    | HO28 |                  |
| HO8132                    | HO32 |                  |
| HO8138                    | HO38 |                  |
| HO8221                    | HO21 |                  |
| HO8231                    | HO31 |                  |
| HO8733                    | HO33 |                  |
| <b>Imperial Eastman</b>   |      |                  |
| 700BYK                    | IE00 | IE100            |
| 714                       | IE14 | IE114            |
| 715                       | IE15 | IE115            |
| 716                       | IE16 | IE116            |
| 717                       | IE17 | IE117            |
| 724                       | IE24 | IE124            |
| 744                       | IE44 | IE144            |
| 745                       | IE45 | IE145            |
| 746                       | IE46 | IE146            |
| 754                       | IE54 | IE154            |
| 755                       | IE55 | IE155            |
| 756                       | IE56 | IE156            |
| <b>Precision General</b>  |      |                  |
| M618                      | PG18 | PG118            |
| M650                      | PG60 | PG160            |
| M651                      | PG61 | PG161            |
| M750                      | PG70 | PG170            |
| M751                      | PG71 | PG171            |
| <b>Oliver</b>             |      |                  |
| T34                       | OT34 | OT134            |
| Y34                       | OY34 | OY135            |
| Y24                       | OY24 | OY124            |
| <b>Whitey</b>             |      |                  |
| SS-M3**FL                 | WH01 | WH101            |
| SS-M3**F8-FL              | WH02 | WH102            |

# ADD AN ELECTRIC HEATER...

## An engineered and tested system

The HEATPAK system of insulating enclosures and electric or steam heaters guarantees dependable results. Like all O'Brien systems, HEATPAK designs have been tested in our in-house environmental chamber to simulate field conditions and validate design calculations.

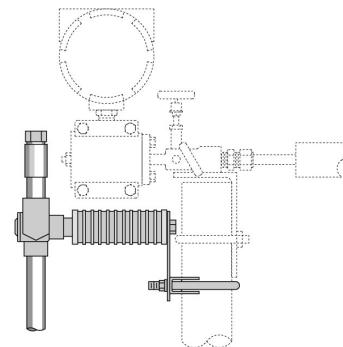
**Backmounted HEATPAK with LE Heater (75°F Setpoint)**



## LE Heater

The heavy-duty LE heater mounts directly under the instrument or manifold to provide reliable freeze protection to -20°F (-28°C). These heaters are recommended for any hazardous area where a durable, efficient and approved heater is required.

O'Brien LE heaters are FM approved and CSA certified for Cl. I Div. 2 Gp. A,B,C,D T2D 419°F (215°C) environments. (Cl. I Div. 1 available upon request.)

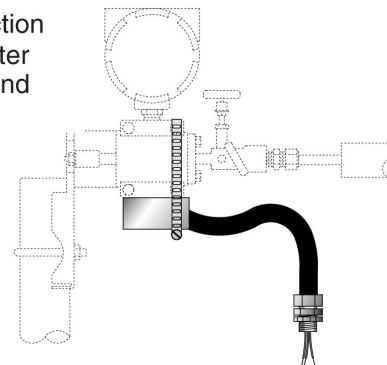


## CWA Heater

For mild climates, the CW heater provides freeze protection with an internal thermostat. The explosion-proof CW heater mounts in direct contact to the instrument or manifold and includes a 30" power connection of high temperature sealtight.

The CW Heater will maintain the instrument and manifold above 40° F (5°C) in ambient temperatures of 10°F (-12°C) if the instrument is back mounted and 10°F (-12°C) if manifold mounted. The instrument body will stay below 170°F (77°C) even in ambients up to 104°F (40°C).

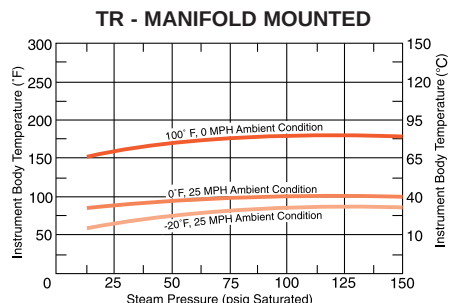
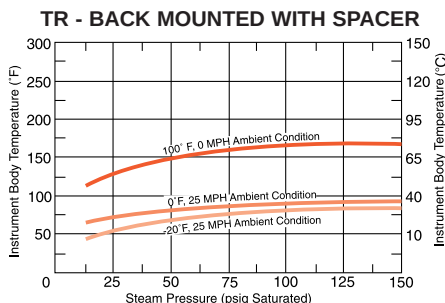
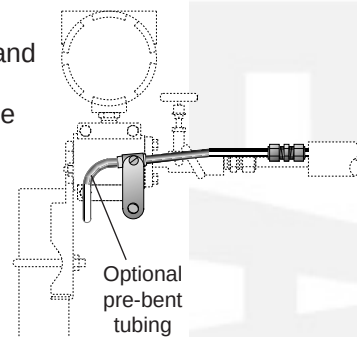
CW Heaters are CSA-US certified for Cl. I, Div. 1, Gp. A,B,C, and D areas with a T3 temperature rating.





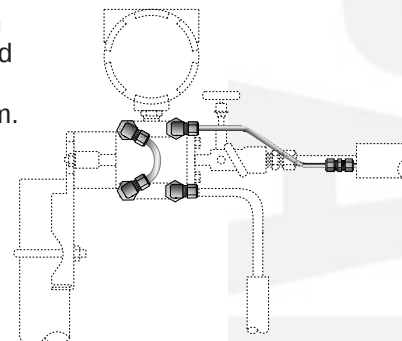
## TR TUBLOK

TUBLOK provides predictable and repeatable freeze protection over a wide range of ambient temperatures and steam pressures without overheating the instrument. Installed without taking the instrument out of service, the TR TUBLOK clamps a 3/8" or 1/4" steam tracer to the instrument body, insuring predictable performance.



## Steam Studs

By replacing one, two, or four body bolts with steam studs, the instrument temperature can be maintained between 90°F (32°C) and 220°F (105°C) at a 0°F (-18°C) ambient with 15 to 150 psig (2-11 bar) steam. Steam studs include 1/4" brass or optional stainless steel tube fittings and copper or stainless steel interconnecting tubing for multiple stud systems. Consult factory for performance information of steam stud systems.



## Step 3

### HEATERS (Select one)

|       |  | Description                                                    | Code          |
|-------|--|----------------------------------------------------------------|---------------|
| ELEC. |  | No heat required                                               | <b>X</b>      |
|       |  | LE Heater - FM Cl. I, Div. 2 Gp. ABCD, T2D (See note 2)        | <b>HLEFM</b>  |
|       |  | LE Heater w/PMKG-Y - FM Cl. I, Div. 2 Gp. ABCD (See note 2)    | <b>HLEFMY</b> |
|       |  | CT Heater - FM Cl. I, Div. 2, Gp. ABCD (See note 2)            | <b>CT1D2</b>  |
| STEAM |  | Thermal Resistor TUBLOK                                        | <b>TR</b>     |
|       |  | TR TUBLOK with 3/8" .032 wall copper preformed tubing          | <b>TRC</b>    |
|       |  | TR TUBLOK with 3/8" .035 wall stainless steel preformed tubing | <b>TRS</b>    |
|       |  | One steam stud - Brass fittings (See notes 1,2)                | <b>1B</b>     |
|       |  | One steam stud - Stainless steel fittings (See notes 1,2)      | <b>1S</b>     |
|       |  | Two steam studs - Brass fittings (See notes 1,2)               | <b>2B</b>     |
|       |  | Two steam studs - Stainless steel fittings (See notes 1,2)     | <b>2S</b>     |
|       |  | Four steam studs - Brass fittings (See notes 1,2)              | <b>4B</b>     |
|       |  | Four steam studs - Stainless steel fittings (See notes 1,2)    | <b>4S</b>     |

### How to construct a model number:

#### EXAMPLE:

A Rosemount model 1151DP with Hex manifold mount model HM-131 and CT heater.

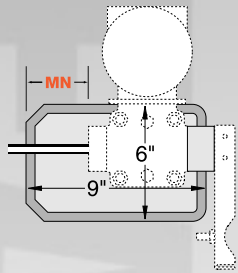
**HPRM2-HM131-CT1D2**

#### Notes:

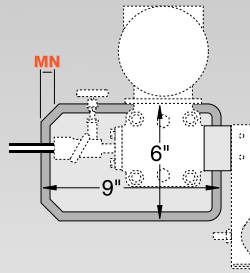
1. Steam studs are only available for instruments as indicated on instrument selection list.
2. Backmounted transmitter requires "BR" spacer when using LE or CT heaters.

# CHOOSE A MOUNTING POSITION, TRANSITION DISTANCE...

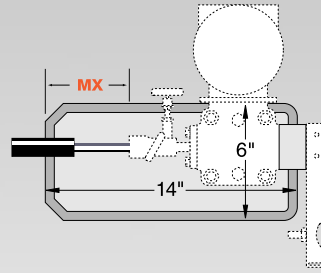
## BR - Back Mounted with spacer



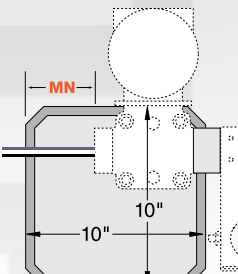
Available Heating Systems:  
X, TR, Steam Studs



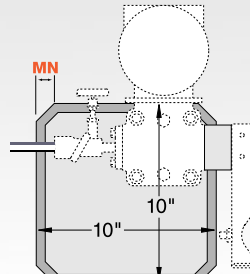
Available Heating Systems:  
X, TR, Steam Studs



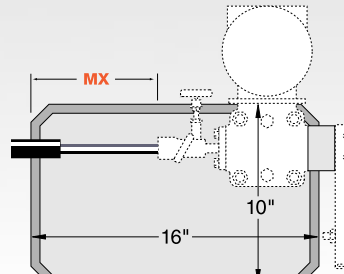
Available Heating Systems:  
X, TR, Steam Studs



Available Heating Systems:  
CT, LE

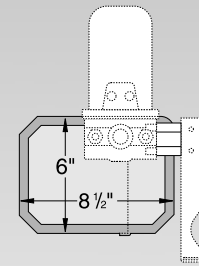


Available Heating Systems:  
CT, LE

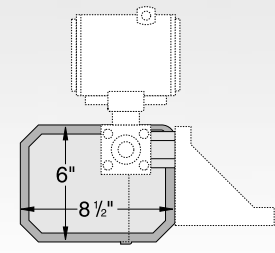


Available Heating Systems:  
CT, LE

## S - Side Mounted

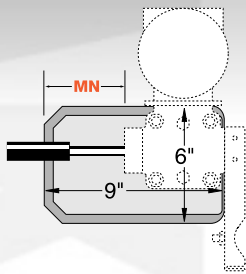


Available Heating Systems:  
X, CT, LE, TR, Steam Studs

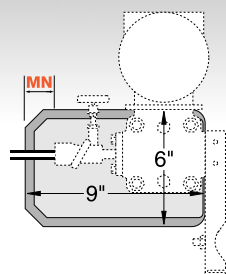


Available Heating Systems:  
X, CT, LE, TR

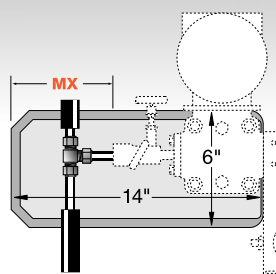
## BN - Back Mounted - no spacer



Available Heating Systems:  
X, TR, Steam Studs

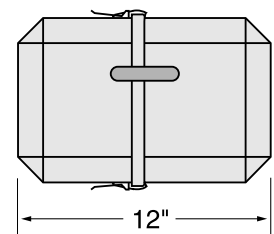


Available Heating Systems:  
X, TR, Steam Studs



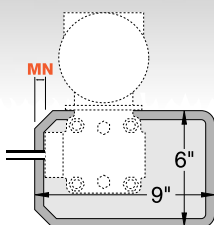
Available Heating Systems:  
X, TR, Steam Studs  
Non-standard process connection  
Consult factory

## ENCLOSURE WIDTH

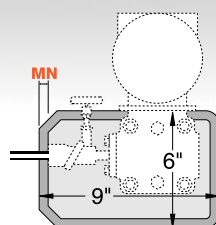


All enclosures 12" in width  
unless side mounted (8 1/2")

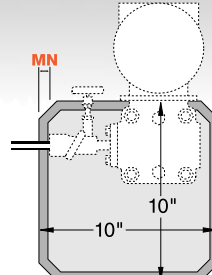
## P - Process Line Supported



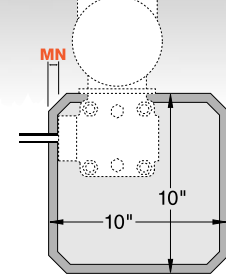
Available Heating Systems:  
X, TR, Steam Studs



Available Heating Systems:  
X, TR, Steam Studs



Available Heating Systems:  
CT, LE

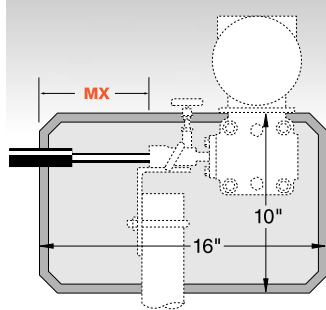


Available Heating Systems:  
CT

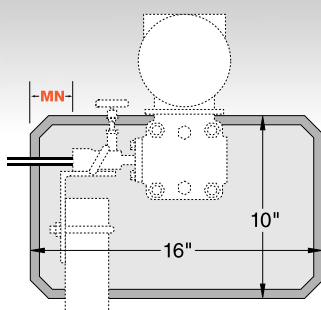
Common configurations shown - others available - consult factory

# ...AND ANY OPTIONS - TO COMPLETE A HEATPAK MODEL #

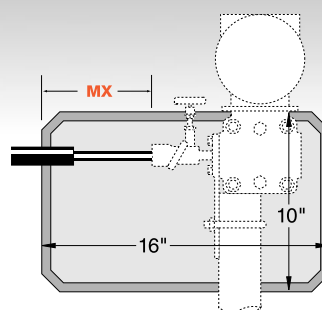
## M1 - Manifold Mounted - M1 Position



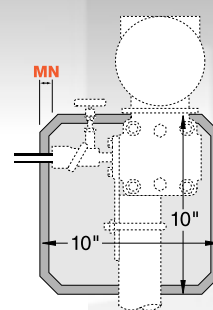
Available Heating Systems:  
X, TR, CT, LE, Steam Studs



Available Heating Systems:  
X, TR, CT, LE, Steam Studs

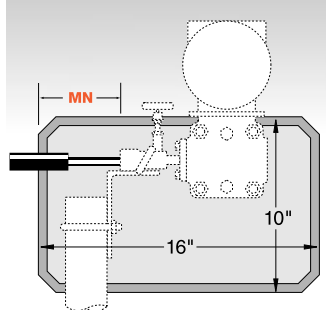


Available Heating Systems:  
X, TR, CT, LE, Steam Studs

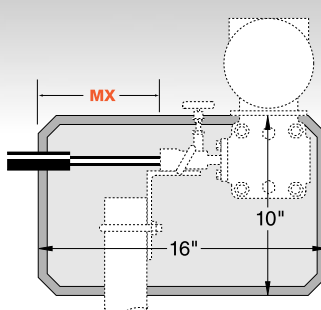


Available Heating Systems:  
X, TR, CT, Steam Studs

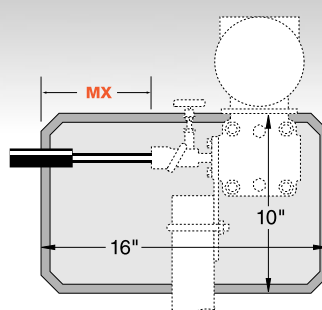
## M2 - Manifold Mounted - M2 Position



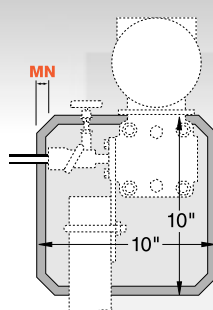
Available Heating Systems:  
X, TR, CT, LE, Steam Studs



Available Heating Systems:  
X, TR, CT, LE, Steam Studs



Available Heating Systems:  
X, TR, CT, LE, Steam Studs



Available Heating Systems:  
X, TR, CT, Steam Studs

## Step 4

### MOUNTING (Select one)

| Description                     | Code |
|---------------------------------|------|
| Back Mount                      | BN   |
| Back Mount with spacer          | BR   |
| Manifold Mount position M1      | M1   |
| Manifold Mount position M2      | M2   |
| Supported by process connection | P    |
| Side Mounted                    | S    |

## Step 5

### TRANSITION DISTANCE (Select one)

| Description                                                       | Code |
|-------------------------------------------------------------------|------|
| Minimum distance from transmitter/<br>manifold to process opening | MN   |
| Maximum distance from transmitter/<br>manifold to process opening | MX   |

### Completed model number:

#### EXAMPLE:

A Rosemount model 1151DP with Hex manifold mount model HM-131 and CT heater. Instrument is mounted on 2" pipe stand U-bolted to the back of the manifold bracket using the minimum distance from instrument to process opening. No options selected.

**HPRM2-HM131-CT1D2-M1-MN-X**

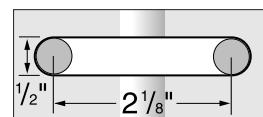
## Step 6

### OPTIONS (Select one or more)

| Description                              | Code |
|------------------------------------------|------|
| None                                     | X    |
| Power kit for TRACEPAK or CT Heater      | PK   |
| Plastic Latches                          | PL   |
| Entry Seal (for bundles 0.75" - 1.60")   | ES4  |
| Entry Seal (for bundles 1.43" - 2.75")   | ES5  |
| Jacket Patch Kit                         | JP-1 |
| Drilled Hole (Specify size and location) | DH   |

### Notes:

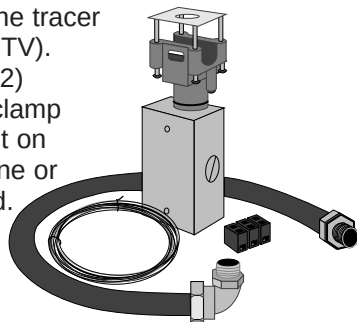
- HEATPAK is not used where the support pipe for manifold mounted transmitters is horizontal.
- Standard process opening is supplied unless otherwise specified with "DH" option.



## Options

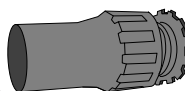
### PK

External junction box power connection kit for LE or CT heater and impulse line tracer (XTV or BTV). (Cl. I Div. 2) Includes clamp to mount it on process line or pipe stand.



### ES4/5

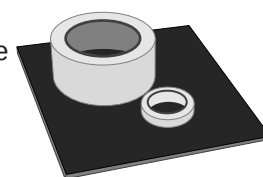
This heat-shrinkable entry seal provides a waterproof fitting where TRACEPAK enters HEATPAK. Available in two sizes, it has an O-ring and threaded jam nut for a superior seal. Includes mounting hole in standard location.



| Model Number | Max. Panel Thickness | Maximum I.D. Nose | Minimum I.D. Nose | Mounting Hole Diameter |
|--------------|----------------------|-------------------|-------------------|------------------------|
| ES4          | 0.50"                | 1.60"             | 0.75"             | 2.00"                  |
| ES5          | 1.00"                | 2.75"             | 1.43"             | 3.50"                  |

### JP-1

Used to insulate and weather protect impulse line piping at transition to HEATPAK. Includes 8" x 10" self-sealing patch, thermal insulation and fiberglass tape.



### Customer Service

Customer service takes on a whole new meaning at O'Brien Corporation. Our reputation as a customer-oriented problem solver has been long recognized.

O'Brien's customer-oriented approach offers these benefits:

- Responsive, knowledgeable personnel
- Quick delivery service
- Dependable, tested results of all product lines

### ISO 9002

#### Unparalleled Quality

Certified to current ISO 9002 standards. Our adherence to recognized international quality standards provides one of the strongest assurances of product and service quality available.

### Total solution

From Instrument to Process Line: Working together, we can develop installation details. Our total engineering package will reduce field installation costs and provide a dependable solution for your needs.

Process accuracy through heat transfer expertise.

**TRACEPAK   HEATPAK   VIPAK   SADDLEPAK   FLEXPAK**



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Specifications subject to change without notice.