



# Monarch IP – Stainless Steel

## Industrial Enclosure & Switchboard Building System – IP66

brenclosures.com.au/ipss.htm



### Features

- Many mounting options, providing the flexibility to install equipment in almost any position
- Wide range of accessories available for added versatility in equipment application
- Reversible doors (right hand hinging as standard)
- Approvals
  - CE marked
  - Lloyds
- Materials
  - Body – 316 stainless steel
  - Body thickness – 1.2/1.5mm
  - Gasket – FIP polyurethane
- Surface finish – N4
- Protection rating – IP66

The Monarch IP is a premium enclosure and switchboard building system designed to be the ultimate in flexibility. The Monarch IP is the top of the range modular, robust enclosures with accessories to suit almost every requirement. The Monarch IP range is suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.

### Inclusions

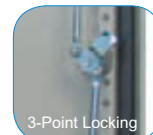
- 'C' rail mountings (4 rails on heights up to 800mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally on units 400mm or deeper)
- 7mm square turnbuckle lock (black powdercoated lock with stainless steel insert) on units below 1600mm high and lockable 'L' handles (IP050) on others.
- 3 point locking on units of 600mm high and above
- Removable back on units 400mm deep and above
- Door rails
- Earth strap kit



C Rail



Gland Plate



3-Point Locking

## Selection Guide

| Catalogue No. | Dimensions (mm) |       |       |              | Material Thickness (mm) | Weight (kg) |
|---------------|-----------------|-------|-------|--------------|-------------------------|-------------|
|               | Height          | Width | Depth | Usable Depth |                         |             |
| IP09051/S*    | 300             | 200   | 175   | 135          | 1.2                     | 4.2         |
| IP13091/S*    | 400             | 300   | 175   | 135          | 1.2                     | 6.5         |
| IP13132/S*    | 400             | 400   | 270   | 230          | 1.5                     | 12.1        |
| IP21132/S*    | 600             | 400   | 270   | 230          | 1.5                     | 16.0        |
| IP13212/S*    | 400             | 600   | 270   | 230          | 1.5                     | 16.0        |
| IP21212/S*    | 600             | 600   | 270   | 230          | 1.5                     | 20.9        |
| IP29212/S*    | 800             | 600   | 270   | 230          | 1.5                     | 25.8        |
| IP37212/S*    | 1000            | 600   | 270   | 230          | 1.5                     | 30.7        |
| IP45212/S*    | 1200            | 600   | 270   | 230          | 1.5                     | 35.6        |
| IP21292/S*    | 600             | 800   | 270   | 230          | 1.5                     | 25.8        |
| IP13214/S     | 400             | 600   | 400   | 360          | 1.5                     | 19.8        |
| IP21214/S     | 600             | 600   | 400   | 360          | 1.5                     | 25.4        |
| IP29214/S     | 800             | 600   | 400   | 360          | 1.5                     | 31.0        |
| IP45214/S     | 1200            | 600   | 400   | 360          | 1.5                     | 42.2        |
| IP61214/S     | 1600            | 600   | 400   | 360          | 1.5                     | 53.4        |
| IP69214/S     | 1800            | 600   | 400   | 360          | 1.5                     | 59.0        |
| IP77214/S     | 2000            | 600   | 400   | 360          | 1.5                     | 64.6        |
| IP25254/S     | 700             | 700   | 400   | 360          | 1.5                     | 31.3        |
| IP37254/S     | 1000            | 700   | 400   | 360          | 1.5                     | 40.4        |
| IP21294/S     | 600             | 800   | 400   | 360          | 1.5                     | 31.0        |
| IP29294/S     | 800             | 800   | 400   | 360          | 1.5                     | 37.6        |
| IP37294/S     | 1000            | 800   | 400   | 360          | 1.5                     | 44.3        |
| IP45294/S     | 1200            | 800   | 400   | 360          | 1.5                     | 50.9        |
| IP61294/S     | 1600            | 800   | 400   | 360          | 1.5                     | 64.3        |
| IP69294/S     | 1800            | 800   | 400   | 360          | 1.5                     | 70.9        |
| IP77294/S     | 2000            | 800   | 400   | 360          | 1.5                     | 77.6        |
| IP29215/S     | 800             | 600   | 500   | 460          | 1.5                     | 35.0        |
| IP45215/S     | 1200            | 600   | 500   | 460          | 1.5                     | 47.3        |
| IP61215/S     | 1600            | 600   | 500   | 460          | 1.5                     | 59.5        |
| IP69215/S     | 1800            | 600   | 500   | 460          | 1.5                     | 65.6        |
| IP77215/S     | 2000            | 600   | 500   | 460          | 1.5                     | 71.8        |
| IP21295/S     | 600             | 800   | 500   | 460          | 1.5                     | 35.0        |
| IP45295/S     | 1200            | 800   | 500   | 460          | 1.5                     | 56.5        |
| IP61295/S     | 1600            | 800   | 500   | 460          | 1.5                     | 70.9        |
| IP69295/S     | 1800            | 800   | 500   | 460          | 1.5                     | 78.1        |
| IP77295/S     | 2000            | 800   | 500   | 460          | 1.5                     | 85.3        |
| IP29216/S     | 800             | 600   | 600   | 560          | 1.5                     | 39.0        |
| IP45216/S     | 1200            | 600   | 600   | 560          | 1.5                     | 52.3        |
| IP61216/S     | 1600            | 600   | 600   | 560          | 1.5                     | 65.6        |
| IP77216/S     | 2000            | 600   | 600   | 560          | 1.5                     | 78.9        |
| IP77296/S     | 2000            | 800   | 600   | 560          | 1.5                     | 93.0        |

\* These models do not come with gland plate as standard

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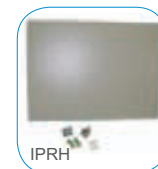
# Monarch IP – Accessories

## Rainhoods, Gland Plates & Plinths

### Rainhoods

Rainhoods are designed to shed water from the top on the enclosure, and to prevent water from pooling on the enclosure top. They include an overhang of 14mm.

| Description                    | Catalogue No. | Dimensions (mm) |       |       | Slope Angle (Degrees) | To suit enclosure (mm) |       |
|--------------------------------|---------------|-----------------|-------|-------|-----------------------|------------------------|-------|
|                                |               | Height          | Width | Depth |                       | Width                  | Depth |
| Rainhood – zinc coated steel   | IPRH132       | 30              | 400   | 284   | 2.0                   | 400                    | 270   |
|                                | IPRH211       | 30              | 600   | 189   | 2.0                   | 600                    | 175   |
|                                | IPRH212       | 30              | 600   | 284   | 2.0                   | 600                    | 270   |
|                                | IPRH214       | 30              | 600   | 414   | 1.5                   | 600                    | 400   |
|                                | IPRH215       | 30              | 600   | 514   | 1.0                   | 600                    | 500   |
|                                | IPRH216       | 30              | 600   | 614   | 1.0                   | 600                    | 600   |
|                                | IPRH254       | 30              | 700   | 414   | 1.5                   | 700                    | 400   |
|                                | IPRH292       | 30              | 800   | 284   | 2.0                   | 800                    | 270   |
|                                | IPRH294       | 30              | 800   | 414   | 1.5                   | 800                    | 400   |
|                                | IPRH295       | 30              | 800   | 514   | 1.0                   | 800                    | 500   |
|                                | IPRH296       | 30              | 800   | 614   | 1.0                   | 800                    | 600   |
| Rainhood – 316 stainless steel | IPRH051/S     | 30              | 200   | 189   | 3.0                   | 200                    | 175   |
|                                | IPRH091/S     | 30              | 300   | 189   | 3.0                   | 300                    | 175   |
|                                | IPRH132/S     | 30              | 400   | 284   | 2.0                   | 400                    | 270   |
|                                | IPRH212/S     | 30              | 600   | 284   | 2.0                   | 600                    | 270   |
|                                | IPRH214/S     | 30              | 600   | 414   | 1.5                   | 600                    | 400   |
|                                | IPRH215/S     | 30              | 600   | 514   | 1.0                   | 600                    | 500   |
|                                | IPRH216/S     | 30              | 600   | 614   | 1.0                   | 600                    | 700   |
|                                | IPRH254/S     | 30              | 700   | 414   | 1.5                   | 700                    | 400   |
|                                | IPRH292/S     | 30              | 800   | 284   | 2.0                   | 800                    | 270   |
|                                | IPRH294/S     | 30              | 800   | 414   | 1.5                   | 800                    | 400   |
|                                | IPRH295/S     | 30              | 800   | 514   | 1.0                   | 800                    | 500   |
|                                | IPRH296/S     | 30              | 800   | 614   | 1.0                   | 800                    | 600   |



### Gland Plates

Gland plates are designed for efficient and flexible fitting and installation of cable glands.

| Description                       | Catalogue No. | Dimensions (mm) |       |                | To suit enclosure (mm) |
|-----------------------------------|---------------|-----------------|-------|----------------|------------------------|
|                                   |               | Height          | Width | Thickness (mm) | Width                  |
| Gland Plate – zinc coated steel   | IPGP31        | 320             | 110   | 1.6            | 400                    |
|                                   | IPGP41        | 480             | 160   | 1.6            | 600                    |
|                                   | IPGP52        | 530             | 210   | 1.6            | 700 or 800             |
| Gland Plate – 316 stainless steel | IPGS31        | 320             | 110   | 1.5            | 400                    |
|                                   | IPGS41        | 480             | 160   | 1.5            | 600                    |
|                                   | IPGS52        | 530             | 210   | 1.5            | 700 or 800             |
| Gland Plate – brass               | IPGB31        | 290             | 160   | 6              | 400                    |
|                                   | IPGB41        | 480             | 160   | 6              | 600                    |
|                                   | IPGB52        | 530             | 210   | 6              | 700 or 800             |



## Plinths

Plinths are designed for use when mounting enclosures on the floor.

| Description                           | Catalogue No.       | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|---------------------------------------|---------------------|-----------------|-------|-------|------------------------|-------|
|                                       |                     | Height          | Width | Depth | Width                  | Depth |
| Plinth – access – steel               | IPPH214             | 200             | 600   | 374   | 600                    | 400   |
|                                       | IPPH215             | 200             | 600   | 474   | 600                    | 500   |
|                                       | IPPH216             | 200             | 600   | 574   | 600                    | 600   |
|                                       | IPPH294             | 200             | 800   | 374   | 800                    | 400   |
|                                       | IPPH295             | 200             | 800   | 474   | 800                    | 500   |
|                                       | IPPH296             | 200             | 800   | 574   | 800                    | 600   |
| Plinth – access – 316 stainless steel | IPPH214/S           | 200             | 600   | 374   | 600                    | 400   |
|                                       | IPPH215/S           | 200             | 600   | 474   | 600                    | 500   |
|                                       | IPPH216/S           | 200             | 600   | 574   | 600                    | 600   |
|                                       | IPPH294/S           | 200             | 800   | 374   | 800                    | 400   |
|                                       | IPPH295/S           | 200             | 800   | 474   | 800                    | 500   |
|                                       | IPPH296/S           | 200             | 800   | 574   | 800                    | 600   |
| Plinth – channel iron                 | IPPC212             | 75              | 600   | 241   | 600                    | 270   |
|                                       | IPPC214             | 75              | 600   | 371   | 600                    | 400   |
|                                       | IPPC215             | 75              | 600   | 471   | 600                    | 500   |
|                                       | IPPC216             | 75              | 600   | 571   | 600                    | 600   |
|                                       | IPPC294             | 75              | 800   | 371   | 800                    | 400   |
|                                       | IPPC295             | 75              | 800   | 471   | 800                    | 500   |
|                                       | IPPC296             | 75              | 800   | 571   | 800                    | 600   |
| Neoprene gasket                       | IPPC/G <sup>▲</sup> | 4000            | 20    | –     | all                    | all   |
| Plinth clamp bracket (4)              | IPPCB               | –               | –     | –     | all                    | all   |

▲ Available on request



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## Vent Kits

Ensure that the enclosure does not become excessively hot by allowing natural circulation of air. The vent kit includes a gasket, insert filter and fittings. Note that by the nature of this item, the enclosure will then not be rated to IP66. Ripple orange powdercoat available on request (add "/RO" to end of zinc coated steel or "RO" to stainless steel and aluminium part numbers).

| Description                               | Catalogue No.       | Dimensions (mm) |       | To suit cutout (mm) |
|-------------------------------------------|---------------------|-----------------|-------|---------------------|
|                                           |                     | Height          | Width |                     |
| Vent kit – external – zinc coated steel   | IPVK                | 130             | 130   | 80 x 80             |
| Vent kit – external – stainless steel     | IPVK/S              | 130             | 130   | 80 x 80             |
| Vent kit – external – aluminium (RAL7035) | IPVK/A <sup>▲</sup> | 130             | 130   | 80 x 80             |

▲ Available on request



## Vent Hoods

Vent hoods have been designed for B&R's range of fans and filters and ensure that the fan is protected mechanically, and further help protect from water and dust ingress. Ripple orange powdercoat available on request (add "/RO" to end of zinc coated steel or "RO" to stainless steel part numbers).

| Description                     | Catalogue No. | Dimensions (mm) |       |       | To suit              |
|---------------------------------|---------------|-----------------|-------|-------|----------------------|
|                                 |               | Height          | Width | Depth |                      |
| Vent hood – zinc coated steel   | IPVH12        | 300             | 200   | 50    | FAN/FIL12            |
|                                 | IPVH25        | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
|                                 | IPVH35        | 475             | 375   | 75    | FAN/FIL35            |
| Vent hood – 316 stainless steel | IPVH12/S      | 300             | 200   | 50    | FAN/FIL12            |
|                                 | IPVH25/S      | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
|                                 | IPVH35/S      | 475             | 375   | 75    | FAN/FIL35            |





# Monarch IP – Accessories

## Mounting Pans, Insulating Panels & Escutcheons

### Metal Mounting Pans

Mounting pans are very simple to install using the existing rails supplied as part of the Monarch IP enclosure. They are manufactured from 2 mm thick pretreated mild steel with a gloss white powdercoat finish.

| Catalogue No.         | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|-----------------------|-----------------|-------|-------|------------------------|-------|
|                       | Height          | Width | Depth | Height                 | Width |
| IPMP0905              | 250             | 150   | 2     | 300                    | 200   |
| IPMP1309              | 350             | 250   | 2     | 400                    | 300   |
| IPMP1313              | 320             | 340   | 2     | 400                    | 400   |
| IPMP1321              | 320             | 540   | 2     | 400                    | 600   |
| IPMP2113              | 520             | 340   | 2     | 600                    | 400   |
| IPMP2121              | 520             | 540   | 2     | 600                    | 600   |
| IPMP2129              | 520             | 740   | 2     | 600                    | 800   |
| IPMP2525              | 620             | 640   | 2     | 700                    | 700   |
| IPMP2921 <sup>#</sup> | 720             | 540   | 2     | 800                    | 600   |
| IPMP2929 <sup>#</sup> | 720             | 740   | 2     | 800                    | 800   |
| IPMP3721 <sup>#</sup> | 920             | 540   | 2     | 1000                   | 600   |
| IPMP3725 <sup>#</sup> | 920             | 640   | 2     | 1000                   | 700   |
| IPMP3729 <sup>#</sup> | 920             | 740   | 2     | 1000                   | 800   |
| IPMP4521 <sup>#</sup> | 1120            | 540   | 2     | 1200                   | 600   |
| IPMP4529 <sup>#</sup> | 1120            | 740   | 2     | 1200                   | 800   |
| IPMP6121 <sup>*</sup> | 1520            | 540   | 2     | 1600                   | 600   |
| IPMP6129 <sup>*</sup> | 1520            | 740   | 2     | 1600                   | 800   |
| IPMP6921 <sup>*</sup> | 1720            | 540   | 2     | 1800                   | 600   |
| IPMP6929 <sup>*</sup> | 1720            | 740   | 2     | 1800                   | 800   |
| IPMP7721 <sup>*</sup> | 1920            | 540   | 2     | 2000                   | 600   |
| IPMP7729 <sup>*</sup> | 1920            | 740   | 2     | 2000                   | 800   |

\* Mounting pan features double return on sides and single return on top for extra rigidity.

# Mounting pan features single return on sides.



IPMP

### Insulated Mounting Pans

Insulated mounting pans are suitable where use of a metallic pan is not acceptable. Manufactured from black laminated phenolic material, and supplied with all fixings, the insulated mounting pan is easy to install and use.

| Catalogue No. | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|---------------|-----------------|-------|-------|------------------------|-------|
|               | Height          | Width | Depth | Height                 | Width |
| IPFP0905      | 250             | 150   | 6     | 300                    | 200   |
| IPFP1309      | 350             | 250   | 6     | 400                    | 300   |
| IPFP1313      | 320             | 340   | 6     | 400                    | 400   |
| IPFP1321      | 320             | 540   | 6     | 400                    | 600   |
| IPFP2113      | 520             | 340   | 6     | 600                    | 400   |
| IPFP2121      | 520             | 540   | 6     | 600                    | 600   |
| IPFP2129      | 520             | 740   | 6     | 600                    | 800   |
| IPFP2525      | 620             | 640   | 6     | 700                    | 700   |
| IPFP2921      | 720             | 540   | 6     | 800                    | 600   |
| IPFP2929      | 720             | 740   | 6     | 800                    | 800   |
| IPFP3721      | 920             | 540   | 6     | 1000                   | 600   |
| IPFP3725      | 920             | 640   | 8     | 1000                   | 700   |
| IPFP3729      | 920             | 740   | 8     | 1000                   | 800   |
| IPFP4521      | 1120            | 540   | 8     | 1200                   | 600   |
| IPFP4529      | 1120            | 740   | 8     | 1200                   | 800   |



IPFP

## Double Hinged Insulating Panels

Double hinged insulating panels are mainly used for metering applications. They are a functional mounting solution for equipment installation that provides full access to the rear of the panel.

| Catalogue No. | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|---------------|-----------------|-------|-------|------------------------|-------|
|               | Height          | Width | Depth | Height                 | Width |
| IPHP1313      | 320             | 325   | 6     | 400                    | 400   |
| IPHP1321      | 320             | 525   | 6     | 400                    | 600   |
| IPHP2113      | 520             | 325   | 6     | 600                    | 400   |
| IPHP2121      | 520             | 525   | 6     | 600                    | 600   |
| IPHP2129      | 520             | 725   | 6     | 600                    | 800   |
| IPHP2421      | 595             | 525   | 6     | partial height         | 600   |
| IPHP2429      | 595             | 725   | 6     | partial height         | 800   |
| IPHP2525      | 620             | 625   | 6     | 700                    | 700   |
| IPHP2921      | 720             | 525   | 6     | 800                    | 600   |
| IPHP2929      | 720             | 725   | 6     | 800                    | 800   |
| IPHP3221      | 795             | 525   | 6     | partial height         | 600   |
| IPHP3229      | 795             | 725   | 6     | partial height         | 800   |
| IPHP3721      | 920             | 525   | 6     | 1000                   | 600   |
| IPHP3725      | 920             | 625   | 8     | 1000                   | 700   |
| IPHP3729      | 920             | 725   | 8     | 1000                   | 800   |
| IPHP4521      | 1120            | 525   | 8     | 1200                   | 600   |
| IPHP4529      | 1120            | 725   | 8     | 1200                   | 800   |



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## Hinged Escutcheons

For mounting internal controls and accessories, B&R provides a comprehensive range of hinged escutcheons. They can be mounted singularly or with two or more fitted into the enclosure. Fitting requires universal rail kit.

| Catalogue No. | Dimensions (mm) |       |       | Required (rail kit) | To suit enclosure (mm) |       |
|---------------|-----------------|-------|-------|---------------------|------------------------|-------|
|               | Height          | Width | Depth |                     | Height                 | Width |
| IPHE1313      | 324             | 319   | 18    | IPRK1313            | 400                    | 400   |
| IPHE1321      | 319             | 524   | 18    | IPRK1321            | 400                    | 600   |
| IPHE2113      | 524             | 319   | 18    | IPRK2113            | 600                    | 400   |
| IPHE2121      | 524             | 519   | 18    | IPRK2121            | 600                    | 600   |
| IPHE2129      | 524             | 719   | 18    | IPRK2129            | 600                    | 800   |
| IPHE2421      | 599             | 519   | 18    |                     | partial                | 600   |
| IPHE2429      | 599             | 719   | 18    |                     | partial                | 800   |
| IPHE2525      | 624             | 619   | 18    | IPRK2525            | 700                    | 700   |
| IPHE2921      | 724             | 519   | 18    | IPRK2921            | 800                    | 600   |
| IPHE2929      | 724             | 719   | 18    | IPRK2929            | 800                    | 800   |
| IPHE3221      | 799             | 519   | 18    |                     | partial                | 600   |
| IPHE3229      | 799             | 719   | 18    |                     | partial                | 800   |
| IPHE3721      | 924             | 519   | 18    | IPRK3721            | 1000                   | 600   |
| IPHE3725      | 924             | 619   | 18    | IPRK3725            | 1000                   | 700   |
| IPHE3729      | 924             | 719   | 18    | IPRK3729            | 1000                   | 800   |
| IPHE4521      | 1124            | 519   | 18    | IPRK4521            | 1200                   | 600   |
| IPHE4529      | 1124            | 719   | 18    | IPRK4529            | 1200                   | 800   |
| IPHE6121      | 1524            | 519   | 18    | IPRK6121            | 1600                   | 600   |
| IPHE6129      | 1524            | 719   | 18    | IPRK6129            | 1600                   | 800   |
| IPHE6921      | 1724            | 519   | 18    | IPRK6921            | 1800                   | 600   |
| IPHE6929      | 1724            | 719   | 18    | IPRK6929            | 1800                   | 800   |
| IPHE7721      | 1924            | 519   | 18    | IPRK7721            | 2000                   | 600   |
| IPHE7729      | 1924            | 719   | 18    | IPRK7729            | 2000                   | 800   |



Hazardous Areas

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Technical Information



# Monarch IP – Accessories

## Escutcheons & General Accessories

### Fixed Escutcheons

Fixed escutcheons are used for fitting internal controls and accessories. They form a second tier mounting arrangement, in front of the mounting pan. They can be mounted singularly or with two or more fitted into the enclosure. Fitting requires universal rail kit.

| Catalogue No. | Dimensions (mm) |       |       | Required (rail kit) | To suit enclosure (mm) |       |
|---------------|-----------------|-------|-------|---------------------|------------------------|-------|
|               | Height          | Width | Depth |                     | Height                 | Width |
| IPFE1308      | 324             | 199   | 18    | –                   | –                      | –     |
| IPFE1313      | 324             | 324   | 18    | IPRK1313            | 400                    | 400   |
| IPFE1316      | 324             | 399   | 18    | –                   | –                      | –     |
| IPFE1321      | 324             | 524   | 18    | IPRK1321            | 400                    | 600   |
| IPFE1329      | 324             | 724   | 18    | –                   | 400                    | 800   |
| IPFE1616      | 399             | 399   | 18    | –                   | –                      | –     |
| IPFE2108      | 524             | 199   | 18    | –                   | 600                    | –     |
| IPFE2113      | 524             | 324   | 18    | IPRK2113            | 600                    | 400   |
| IPFE2116      | 524             | 399   | 18    | –                   | 600                    | –     |
| IPFE2121      | 524             | 524   | 18    | IPRK2121            | 600                    | 600   |
| IPFE2129      | 524             | 724   | 18    | IPRK2129            | 600                    | 800   |
| IPFE2408      | 599             | 199   | 18    | –                   | –                      | –     |
| IPFE2413      | 599             | 324   | 18    | –                   | –                      | –     |
| IPFE2416      | 599             | 399   | 18    | –                   | –                      | –     |
| IPFE2421      | 599             | 524   | 18    | –                   | –                      | –     |
| IPFE2429      | 599             | 724   | 18    | –                   | –                      | –     |
| IPFE2525      | 624             | 624   | 18    | IPRK2525            | 700                    | 700   |
| IPFE2908      | 724             | 199   | 18    | –                   | 800                    | –     |
| IPFE2916      | 724             | 399   | 18    | –                   | 800                    | –     |
| IPFE2921      | 724             | 524   | 18    | IPRK2921            | 800                    | 600   |
| IPFE2929      | 724             | 724   | 18    | IPRK2929            | 800                    | 800   |
| IPFE3208      | 799             | 199   | 18    | –                   | –                      | –     |
| IPFE3213      | 799             | 324   | 18    | –                   | –                      | –     |
| IPFE3216      | 799             | 399   | 18    | –                   | –                      | –     |
| IPFE3221      | 799             | 524   | 18    | –                   | –                      | –     |
| IPFE3229      | 799             | 724   | 18    | –                   | –                      | –     |
| IPFE3708      | 924             | 199   | 18    | –                   | –                      | –     |
| IPFE3713      | 924             | 324   | 18    | –                   | –                      | –     |
| IPFE3716      | 924             | 399   | 18    | –                   | –                      | –     |
| IPFE3721      | 924             | 524   | 18    | IPRK3721            | 1000                   | 600   |
| IPFE3725      | 924             | 624   | 18    | IPRK3725            | 1000                   | 700   |
| IPFE3729      | 924             | 724   | 18    | IPRK3729            | 1000                   | 800   |
| IPFE4508      | 1124            | 199   | 18    | –                   | –                      | –     |
| IPFE4513      | 1124            | 324   | 18    | –                   | 1200                   | 400   |
| IPFE4516      | 1124            | 399   | 18    | –                   | –                      | –     |
| IPFE4521      | 1124            | 524   | 18    | IPRK4521            | 1200                   | 600   |
| IPFE4529      | 1124            | 724   | 18    | IPRK4529            | 1200                   | 800   |



### Escutcheon Rails

Escutcheon rails are used where two escutcheons meet in the enclosure.

| Catalogue No. | Dimensions (mm) |
|---------------|-----------------|
|               | Height          |
| IPEJ          | joining bracket |
| IPER05        | 525             |
| IPER07        | 725             |
| IPER19        | 1975            |



## Rail Kits

Universal rail kits are used to install both fixed and hinged escutcheons and come complete with 4 rails and fixings.

| Catalogue No. | Dimensions (mm) |       | To suit enclosure (mm) |       |
|---------------|-----------------|-------|------------------------|-------|
|               | Height          | Width | Height                 | Width |
| IPRK1313      | 375             | 325   | 400                    | 400   |
| IPRK1321      | 375             | 525   | 400                    | 600   |
| IPRK1329      | 375             | 725   | 400                    | 800   |
| IPRK2113      | 575             | 325   | 600                    | 400   |
| IPRK2121      | 575             | 525   | 600                    | 600   |
| IPRK2129      | 575             | 725   | 600                    | 800   |
| IPRK2525      | 675             | 625   | 700                    | 700   |
| IPRK2921      | 775             | 525   | 800                    | 600   |
| IPRK2929      | 775             | 725   | 800                    | 800   |
| IPRK3721      | 975             | 525   | 1000                   | 600   |
| IPRK3725      | 975             | 625   | 1000                   | 700   |
| IPRK3729      | 975             | 725   | 1000                   | 800   |
| IPRK4521      | 1175            | 525   | 1200                   | 600   |
| IPRK4529      | 1175            | 725   | 1200                   | 800   |
| IPRK6121      | 1575            | 525   | 1600                   | 600   |
| IPRK6129      | 1575            | 725   | 1600                   | 800   |
| IPRK6921      | 1775            | 525   | 1800                   | 600   |
| IPRK6929      | 1775            | 725   | 1800                   | 800   |
| IPRK7721      | 1975            | 525   | 2000                   | 600   |
| IPRK7729      | 1975            | 725   | 2000                   | 800   |



Introduction

General Purpose

Special Purpose

Multiple Applications

## Mounting Brackets

For ease of installation and fixing to the mounting surface. Mounting brackets ensure optimum installation and safety.

| Catalogue No. | Description         | Qty | To suit enclosure width (mm) |
|---------------|---------------------|-----|------------------------------|
| MEB/S         | Stainless steel     | 4   | all                          |
| IPWM          | Zinc coated steel   | 4   | all                          |
| IPWM/A*       | Aluminium (RAL7035) | 4   | all                          |
| IPWM/S        | Stainless steel     | 4   | all                          |

\* Available on request



Hazardous Areas

Data & Communications

## Door Stays

The door stay ensures the door remains open even in windy weather, for the safety of people working on the equipment.

| Catalogue No. | Qty | To suit enclosure width (mm) |
|---------------|-----|------------------------------|
| IPDS          | 1   | all                          |



Ancillary Items

## Eye Bolts

For ease of installation and where the enclosure may be moved. Eye bolts ensure that the enclosure is not damaged when lifted, and is moved safely.

| Catalogue No. | Qty | Rating         | To suit enclosure width (mm) |
|---------------|-----|----------------|------------------------------|
| LEB/12        | 2   | 125kg per bolt | all                          |

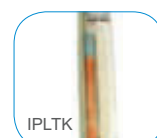


Technical Drawings

## Light Kits

For safety and to ensure easy installation and maintenance of equipment. The light kit comes complete with on-off switch, bracket, rail and fittings required for installation.

| Catalogue No. | Qty | Includes                         | To suit enclosure width (mm) |
|---------------|-----|----------------------------------|------------------------------|
| IPLTK06       | 1   | door switch and mounting bracket | 600                          |
| IPLTK08       | 1   | door switch and mounting bracket | 800                          |



Technical Information





# Monarch IP

## Shelves, Rails & Door Accessories

### Shelves

White powdercoat shelving made from 1.6mm zinc coated steel, complete with knockouts for cabling and all fittings. Shelves are designed for use as segregation panels for switchboard applications or mounting fixed equipment.

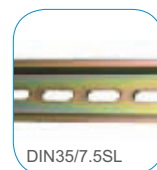
| Catalogue No. | Dimensions (mm) |       | To suit enclosure (mm) |       |
|---------------|-----------------|-------|------------------------|-------|
|               | Width           | Depth | Width                  | Depth |
| IPSH211       | 563             | 105   | 600                    | 175   |
| IPSH212       | 563             | 160   | 600                    | 270   |
| IPSH214       | 563             | 280   | 600                    | 400   |
| IPSH215       | 563             | 380   | 600                    | 500   |
| IPSH216       | 563             | 480   | 600                    | 600   |
| IPSH254       | 663             | 280   | 700                    | 400   |
| IPSH292       | 763             | 160   | 800                    | 270   |
| IPSH294       | 763             | 280   | 800                    | 400   |
| IPSH295       | 763             | 380   | 800                    | 500   |
| IPSH296       | 763             | 480   | 800                    | 600   |



### Din Rail

DIN rails are used for mounting DIN switchgear and accessories into the enclosure. It is available for all models in aluminium, steel and slotted designs.

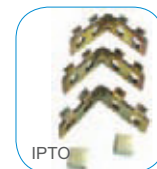
| Description                          | Catalogue No. | Dimensions (mm) |       |
|--------------------------------------|---------------|-----------------|-------|
|                                      |               | Length          | Depth |
| Aluminium                            | IPDN03        | 360             | 15    |
|                                      | IPDN05        | 560             | 15    |
|                                      | IPDN07        | 760             | 15    |
|                                      | DIN35/15AL    | 3000            | 15    |
| Steel                                | DIN35/7.5     | 2000            | 7.5   |
| Steel slotted                        | DIN35/7.5SL   | 2000            | 7.5   |
| Mounting kit, angle support brackets | DINSB         |                 |       |



### Standard Rails – C Section Rail

C section rails can be used to fit additional accessories, rails etc. into the enclosure.

| Description          | Catalogue No. | Dimensions (mm) | To suit enclosure (mm) |
|----------------------|---------------|-----------------|------------------------|
|                      |               | Height          | Depth                  |
| C Rail               | IPCR          | 3400            |                        |
|                      | IPCR01        | 137             |                        |
|                      | IPCR02        | 232             | 270                    |
|                      | IPCR03        | 360             | 400                    |
|                      | IPCR04        | 460             | 500                    |
|                      | IPCR05        | 560             | 600                    |
| takeoff bracket (10) | IPTO          |                 |                        |



### Universal Rail

Universal rails are designed for mounting equipment inside an enclosure. Either fixed lengths or can be cut to suit.

| Description | Catalogue No. | To suit enclosure |        |
|-------------|---------------|-------------------|--------|
|             |               | Length (mm)       | Height |
| 25 pitch    | IPUV          | 1975              | all    |
| 20 pitch    | UV1           | 1984              | all    |



## 19" Mounting Rail

Suitable for installation of 19" rack mounted equipment.

| Catalogue No. | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|---------------|-----------------|-------|-------|------------------------|-------|
|               | Height          | Width | Depth | Height                 | Width |
| UV19          | 1946            | 58.5  | 76    | –                      |       |
| IPRU11        | 536             | –     | –     | 600                    |       |
| IPRU15        | 758             | –     | –     | 800                    |       |
| IPRU24        | 1158            | –     | –     | 1200                   | 600   |
| IPRU32        | 1469            | –     | –     | 1600                   |       |
| IPRU38        | 1736            | –     | –     | 1800                   |       |
| IPRU42        | 1958            | –     | –     | 2000                   |       |
| IPRU11/800    | 536             | –     | –     | 600                    |       |
| IPRU15/800    | 758             | –     | –     | 800                    |       |
| IPRU24/800    | 1158            | –     | –     | 1200                   | 800   |
| IPRU32/800    | 1469            | –     | –     | 1600                   |       |
| IPRU38/800    | 1736            | –     | –     | 1800                   |       |
| IPRU42/800    | 1958            | –     | –     | 2000                   |       |



Introduction

General Purpose

Special Purpose

## Laptop Lectern

The IP hinged laptop lectern has been designed to allow fast and easy access when using a laptop computer. The Laptop Lectern protrudes 45mm inside the door. Mounting requires door rails (purchased separately).

| Description    | Catalogue No.      | Dimensions (mm) |       | To suit door (mm) |             |
|----------------|--------------------|-----------------|-------|-------------------|-------------|
|                |                    | Width           | Depth | Height            | Width       |
| Laptop Lectern | IPLL <sup>▲</sup>  | 440             | 300   | 600 & above       | 600 & above |
| Door Rails (2) | IPRD6 <sup>▲</sup> | –               | –     | –                 | 600         |
|                | IPRD8 <sup>▲</sup> | –               | –     | –                 | 800         |

<sup>▲</sup> Available on request



Multiple Applications

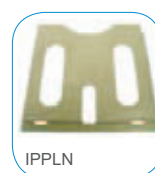
Hazardous Areas

## Plan Holder

Designed to hold a standard A4 document to ensure that it is kept clean and conveniently placed. Typically this would hold detailed procedures, diagrams etc.

| Description       | Catalogue No.          | To suit enclosure (mm) |
|-------------------|------------------------|------------------------|
|                   |                        | Width                  |
| A4 Plastic        | IPPLN                  | all                    |
| A4 Metal          | IPPH04/35 <sup>▲</sup> | 400 & above            |
| A4 Metal – Folder | IPPH04/80 <sup>▲</sup> | 400 & above            |
| A4 Metal          | IPPH06/35 <sup>▲</sup> | 600 & above            |
| A4 Metal – Folder | IPPH06/80 <sup>▲</sup> | 600 & above            |

<sup>▲</sup> Available on request



Data & Communications

Ancillary Items

## Schedule Holder

To ensure that maintenance schedules are always displayed prominently.

| Description | Catalogue No. | Mounting       | Colour      | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|-------------|---------------|----------------|-------------|-----------------|-------|-------|------------------------|-------|
|             |               |                |             | Height          | Width | Depth | Height                 | Width |
| 150 line    | IPLC150       | Door rail      | Pebble grey | 255             | 210   |       | 400                    | 300   |
| 40 line     | IPLC40        |                |             | 230             | 110   |       | 300                    | 200   |
| 40 line     | LCH40         | Tape or rivets | Light grey  | 230             | 110   | 8     | 300                    | 200   |
| 60 line     | LCH60         |                |             | 260             | 210   | 8     | 400                    | 300   |
| 78 line     | LCH78         |                |             | 380             | 110   | 8     | 500                    | 200   |



Technical Drawings

Technical Information



# Monarch IP

## General Accessories & Locks

### Backmount Frame

| Product                | Description | Catalogue No. | Height (RU) |
|------------------------|-------------|---------------|-------------|
| 15 way backmount frame | 19 inch     | FCCD15/19*    | 3           |

\* 19" mounting rails required (see page 125)



FCCD

### Load Centre

| Product             | Description | Catalogue No. | Height (RU) |
|---------------------|-------------|---------------|-------------|
| 19 pole load centre | 19 inch     | FCLC19/19*    | 5           |

\* 19" mounting rails required (see page 125)



FCLC

### Touch Up Paint

| Product               | Description | Catalogue No.        |
|-----------------------|-------------|----------------------|
| Pebble Grey – RAL7032 | 300g        | TUP/P20              |
| Light Grey – RAL7035  | 150g        | TUP/P29              |
| Mist Blue – B33       | 150g        | TUP/P23              |
| Orange – X15          | 150g        | TUP/P24              |
| Smoke Blue – T33      | 150g        | TUP/P33 <sup>▲</sup> |

<sup>▲</sup> Available on request

### General Accessories

| Product                                    | Description                                      | Catalogue No. | To suit enclosures |
|--------------------------------------------|--------------------------------------------------|---------------|--------------------|
| Night Latch Kit                            | Bracket to enable Lockwood deadbolt to be fitted | IPNLK         |                    |
|                                            | M6                                               | IPP06         |                    |
| Hole plug (20)                             | M10                                              | IPP10         |                    |
|                                            | M13                                              | IPP13         |                    |
|                                            | M6 x 12 mm                                       | IPBO612       |                    |
|                                            | M6 x 25 mm                                       | IPBO625       |                    |
| Bolt – hex head (20)                       | M8 x 12 mm                                       | IPBO812       |                    |
|                                            | M8 x 25 mm                                       | IPBO825       |                    |
|                                            | M8 x 30 mm                                       | IPBO830       |                    |
|                                            | hex head (20) – M6                               | IPN06         |                    |
|                                            | hex head (20) – M8                               | IPN08         |                    |
| Nuts                                       | cage (20) – M6                                   | IPCG06        |                    |
|                                            | cage (20) – M8                                   | IPCG08        |                    |
|                                            | foam back (20) – M6                              | IPCN06        |                    |
|                                            | foam back (20) – M8                              | IPCN08        |                    |
| Screws taptite (20)                        | M6 x 16 mm                                       | IPTO616       |                    |
| Accessory kit seal screw (10)              | M8 x 40                                          | IPBO0840/D    |                    |
| Tamper proof screws with security bit (10) | M6 x 16 mm                                       | IPTPO616/S    |                    |
|                                            | flat (20) – M6                                   | IPWF06        |                    |
|                                            | flat (20) – M8                                   | IPWF08        |                    |
|                                            | seal (20) – Small                                | IPWG06        |                    |
|                                            | seal (20) – Large                                | IPWG08        |                    |
| Washers                                    | star (20) – M6                                   | IPWS06        |                    |
|                                            | star (20) – M8                                   | IPWS08        |                    |
|                                            | spring (20) – M6                                 | IPWSP06       |                    |
|                                            | spring (20) – M8                                 | IPWSP08       |                    |
| Sealing Ring (20)                          | M6                                               | IPOR06        |                    |
| D handle                                   | Chrome                                           | IPCDH         |                    |
| Earth strap kit                            | –                                                | ECESK         |                    |
| Z Rail                                     | 760mm                                            | IPZRLG        |                    |

All

## Standard Locks on Monarch IP Enclosures

| Enclosure Height (mm) | SH                                                 | SS                                                                        | AI                                                 |
|-----------------------|----------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------|
| <1600                 | IP020 – chromed steel with 7mm square steel insert | IP020/PS – black powdercoated lock with 7mm square stainless steel insert | IP020 – chromed steel with 7mm square steel insert |
| 1600+                 | IP050 – lockable L handle keyed to 92268           | IP050 – lockable L handle keyed to 92268                                  | IP050 – lockable L handle keyed to 92268           |

## Locks Options for Monarch IP Enclosures

| Product                   | Description     | Catalogue No.         | Standard Lock/Insert                 | Alternative insert | Keys             |                |                  |
|---------------------------|-----------------|-----------------------|--------------------------------------|--------------------|------------------|----------------|------------------|
|                           |                 |                       |                                      |                    | Lockable handles | Plastic, 3-way | Aluminium, 3-way |
| Turnbuckle                | chromed steel   | IP020                 | 7 mm square – steel                  | See below          |                  | SKU            | SKZ              |
|                           | powdercoated    | IP020/PS <sup>▲</sup> | 7 mm square – stainless steel        | See below          |                  | SKU            | SKZ              |
|                           | stainless steel | IP020/S               | 7 mm square – stainless steel        | See below          |                  | SKU            | SKZ              |
|                           |                 | IP028/S <sup>▲</sup>  | 8mm square slotted – stainless steel |                    |                  | SKU            | SKZ              |
| Wing knob                 | lockable        | IP030                 | Key code 92268                       |                    | SK3              |                |                  |
|                           | non-lockable    | IP111                 |                                      |                    |                  |                |                  |
| T handle                  | lockable        | IP040                 | Key code 92268                       |                    | SK3              |                |                  |
| L handle                  | lockable        | IP050                 | Key code 92268                       |                    | SK3              |                |                  |
|                           | padlockable     | IP052                 |                                      |                    |                  |                |                  |
|                           | padlockable     | IP052/S               |                                      |                    |                  |                |                  |
| Swing handle, padlockable | chrome          | IP060                 |                                      |                    |                  |                |                  |
|                           | stainless steel | IP060/S               |                                      |                    |                  |                |                  |

<sup>▲</sup> Available on request

## Lock Inserts for IP020 Locks

| To suit lock style       | Description                 | To suit lock | Standard Insert               | 3mm double bit pin |                 | 8mm square |                 | 8mm square slotted | 8mm triangle |                 |
|--------------------------|-----------------------------|--------------|-------------------------------|--------------------|-----------------|------------|-----------------|--------------------|--------------|-----------------|
|                          |                             |              |                               | Steel              | Stainless Steel | Steel      | Stainless Steel | Stainless Steel    | Steel        | Stainless Steel |
| Turnbuckle               | chromed steel               | IP020        | 7 mm square – steel           | LKINS3P            |                 | LKINS8S    |                 | LKINS8SS/S         | LKINS8T      |                 |
|                          | powdercoated with SS insert | NI020/PS     | 7mm square – stainless steel  |                    | LKINS3P/S       | LKINS8S/S  |                 | LKINS8SS/S         |              | LKINS8T/S       |
|                          | stainless steel             | IP020/S      | 7 mm square – stainless steel |                    | LKINS3P/S       | LKINS8S/S  |                 | LKINS8SS/S         |              | LKINS8T/S       |
| Key required – aluminium |                             |              | SKZ                           | SKZ                | SKZ             | SK8        | SK8             | SK8                | SKZ          | SKZ             |
| Key required – plastic   |                             |              | SKU                           | SKU                | SKU             |            |                 |                    | SKU          | SKU             |

