

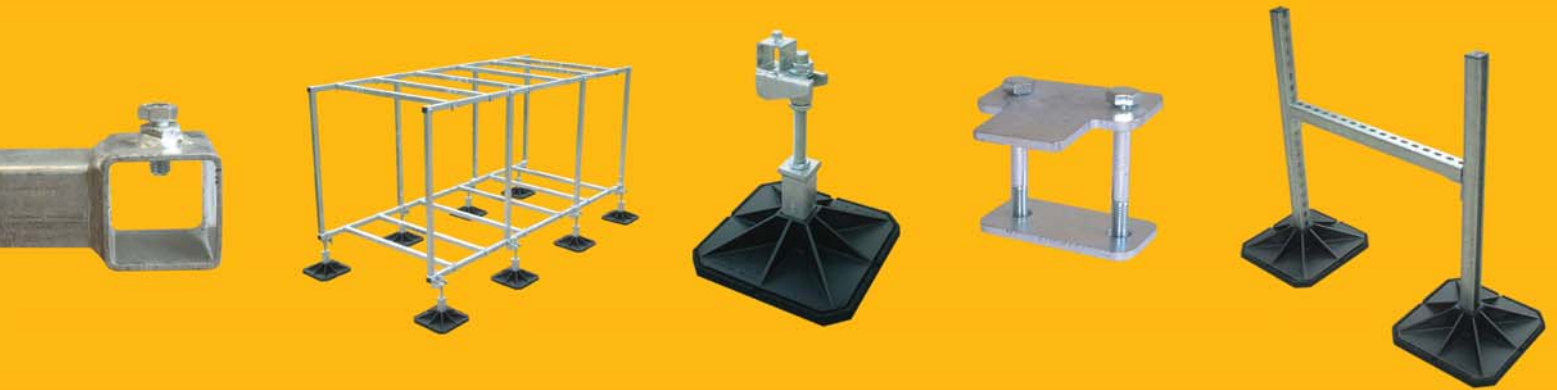


**BIG FOOT**  
**SYSTEMS**  
FOR TOTAL SUPPORT



THE COMPLETE SOLUTION TO SUPPORTING  
ANY SYSTEM ON A FLAT ROOF

# COMPLETE ON-SITE FLEXIBILITY



**The Big Foot Support System** is a simple and universal framework which can be used to support anything on a flat roof. It is designed to spread the weight of plant on delicate roof surfaces and enables maintenance of the roof without the costly removal of equipment from it.

The Big Foot is ideal for:

- **Condensers and packaged units of all sizes**
- **Split or VRV air conditioning systems**
- **Ventilation units**
- **Pipework & ductwork**

At BBJ Engineering we can advise you on the most suitable option for your site.

In some situations the basic modular framework is an adequate solution. Alternatively, with a plan of your roof and dimensions/weights of your units, we can specify a complete Big Foot system, tailored to meet your needs.

For any advice regarding the Big Foot System please call:

**tel: 01323 848842**



# BENEFITS FOR YOU

■ **Complete on-site flexibility to suit different sized condenser units.**

■ **Simple and quick to assemble and adjust.**

■ **Framework intersections are tightened into position to provide a rigid and sturdy structure.**

■ **Easy maintenance of roof surface without removing units.**

■ **Offers a neat and tidy support solution.**

■ **Cost effective.**

■ **Convenience:**

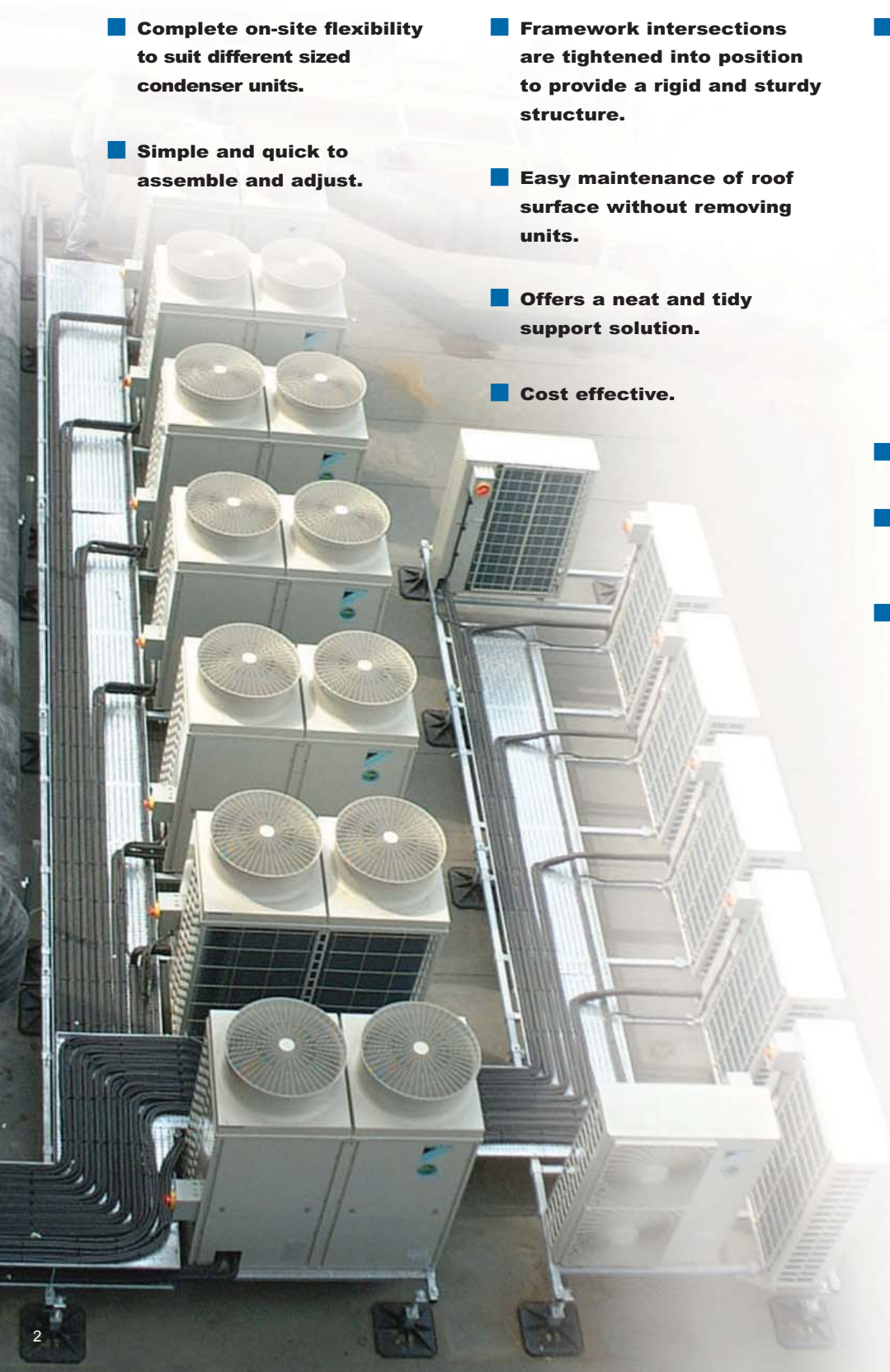
■ Doesn't penetrate the waterproof membrane, thus eliminating any difficult detailing and reducing the risk of leaks.

■ Each leg can be removed individually to allow access to the membrane below during re-roofing or refurbishment, without decommissioning or moving the equipment.

■ **Saves specification time.**

■ **Flatpack system for easy transport.**

■ **Hot dipped galvanized metalwork.**

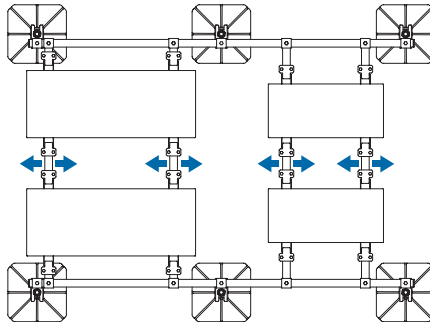




easy removal of legs

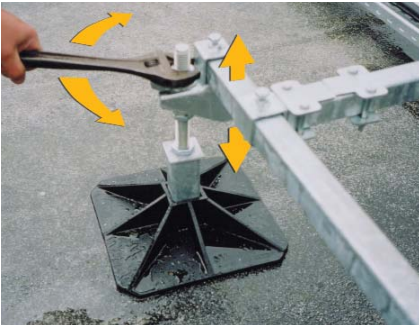
### RE-ROOFING

The Big Foot System legs may be removed individually for re-roofing/refurbishment, without decommissioning or removing the equipment.



### LINEAR ADJUSTMENT

The cross-bars which support the condenser units can be slid along the plain bars into the position required, then locked securely in place.



flexible height adjustment

### HEIGHT ADJUSTMENT

The legs incorporate over 100mm of vertical height adjustment, to take up variations in the roof.

(300mm: stepped roof option).

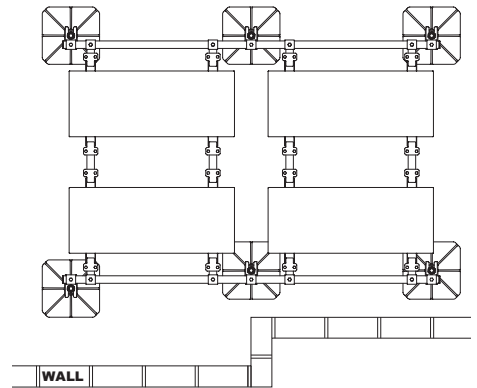


easy clamp adjustment

### CONDENSER CLAMPS

The repositionable clamps locate on both sides of the cross-bars, and as they are tightened, lock down onto the feet of the condenser units.

The clamps allow for A/V strips under the condenser feet.



### LEG & BRACKET POSITIONING

The leg & bracket are usually positioned outside the framework, but can be positioned inside if there is an obstruction.

# SIMPLE INSTALLATION

# BASIC MODULAR FRAMEWORKS

**Three basic modular frameworks are available for supporting 2, 4 or 6 small condenser units.**

For flexibility, all leg assemblies and cross-bars on the modular frameworks slide up and down to the required location.

For special requirements these frameworks may be double-stacked.

Modular frameworks come with either 305mm or 450mm feet (specify on order) which are provided with anti-vibration mats to fit underneath.

- **2 Unit system framework: 1m x 1.3m (42kg)**
- **4 Unit system framework: 2m x 1.3m (70kg)**
- **6 Unit system framework: 3m x 1.3m (97kg)**

**Total leg height:** 375mm (575mm: stepped roof option)

**Height adjustment:** 245mm - 350mm: floor to framework  
(245 - 550mm: stepped roof option)

**Maximum load conditions:** 120Kg per 305mm foot  
220Kg per 450mm foot



2 Unit system framework



4 Unit system framework

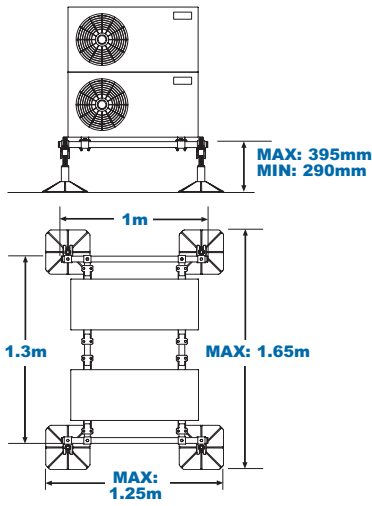


6 Unit system framework

## IMPORTANT

The purchaser or installer of these products must satisfy themselves that the roof structure is of sufficient strength to take the combined weight of the Big Foot System and units.



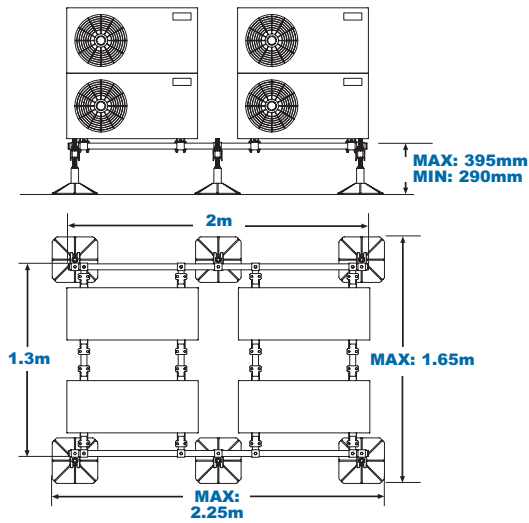


## IN THE BOX

### 2 Unit system framework:

approximate system weight: 42kg

- 2 x 1 m plain bars (40x40 section)
- 4 x end inserts
- 2 x 1.3m cross-bars (40x40 section)
- 4 x leg brackets
- 4 x feet
- 4 x legs (50x50 section)
- 4 x M24 studding
- 16 x M24 half nuts
- 8 x M24 washers
- 4 x M24 nuts (45mm)
- 8 x flat clamp tops
- 8 x flat clamp bases (inc hank-bushes)
- 16 x M8 bolts (70mm)
- 8 x M10 bolts (20mm)

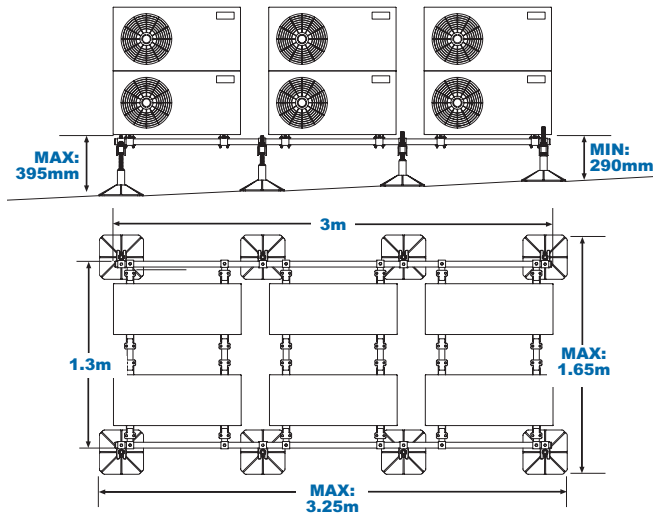


## IN THE BOX

### 4 Unit system framework:

approximate system weight: 70kg

- 2 x 2 m plain bars (40x40 section)
- 4 x end inserts
- 4 x 1.3m cross-bars (40x40 section)
- 6 x leg brackets
- 6 x feet
- 6 x legs (50x50 section)
- 6 x M24 studding
- 24 x M24 half nuts
- 12 x M24 washers
- 6 x M24 nuts (45mm)
- 16 x flat clamp tops
- 16 x flat clamp bases (inc hank-bushes)
- 32 x M8 bolts (70mm)
- 14 x M10 bolts (20mm)



## IN THE BOX

### 6 Unit system framework:

approximate system weight: 97kg

- 2 x 3 m plain bars (40x40 section)
- 4 x end inserts
- 6 x 1.3m cross-bars (40x40 section)
- 8 x leg brackets
- 8 x feet
- 8 x legs (50x50 section)
- 8 x M24 studding
- 32 x M24 half nuts
- 16 x M24 washers
- 8 x M24 nuts (45mm)
- 24 x flat clamp tops
- 24 x flat clamp bases (inc hank-bushes)
- 48 x M8 bolts (70mm)
- 20 x M10 bolts (20mm)

# BASIC MODULAR DIMENSIONS

# DESIGN YOUR OWN...

With our selection of parts, we offer you the flexibility to create your own Big Foot System or alternatively we can plan and specify it for you!

## PARTS TO MAKE UP BESPOKE FRAMES:

### Cross bars (between 50x50mm box sections)

600
700
800
900
1000
1100
1200
1500
1900



### Plain bars (with end inserts)

500
1000
1500
2000
2500
3000



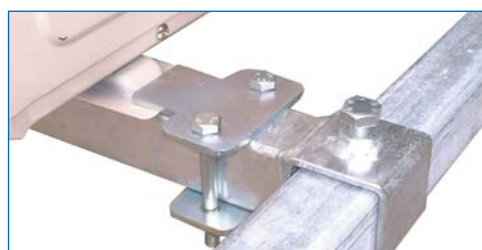
### Straight Connector

one size (150mm)



### 4x clamp sets for c/unit

Allows space for A/V strips under condenser feet





Big Foot installed to support extractor system

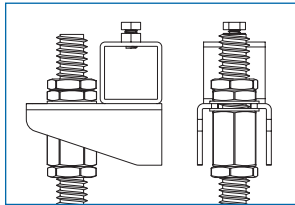


Installed by SBH Design & Installation Services Ltd, London

**Complete Leg Assembly (inc AV mat & 220mm studding)**

**305 X 305**

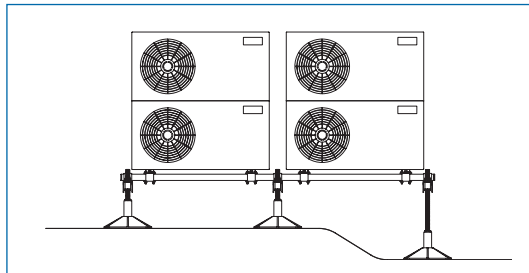
**450 X 450 (for greater load distribution)**



**Large Stud (440mm studding only)**

This can be purchased as an extra individual component if required.

**an example:**



**...PICK 'N' MIX  
OPTION**

# MULTI-PURPOSE SUPPORT...

## H Frame set for pipe or duct support

The H Frame set is supplied with either 305mm<sup>2</sup> feet or 450mm<sup>2</sup> feet.

It offers a quick and economical solution to supporting pipework and ductwork.

### **KIT INCLUDES:**

- 2x AV mat
  - 2x L-Brackets
  - 2x feet
  - 4x M10 bolts
  - 2x unistrut inserts
  - 4x square channel nuts
- **KIT DOES NOT INCLUDE UNISTRUT**



A unistrut insert pushed into the top of a 305mm or 450mm Big Foot, allows the use of off-the-shelf 41mm x 41mm Unistrut, which can be easily fabricated on-site into the framework required.



Big Foot H frame supporting pipework  
(both installations for Essex County Council Buildings, Chelmsford, Essex)

## Multi Foot for multi-purpose support

The Multi Foot comes in two different sizes:

SMALL: 400 x 180mm

LARGE: 600 x 220mm

For supporting small or large pipework systems, cable trays, ductwork or any combination you require.

- **MULTI FEET ARE NOT SUPPLIED WITH CHANNEL/UNISTRUT/THREADED ROD**
- **OPTIONAL AV MAT AVAILABLE FOR SMALL & LARGE MULTI FOOT**

**A** Multi Foot can accommodate 40mm wide channel horizontally



**B** Multi Foot can accommodate 40x40mm unistrut



**C** Multi Foot can accommodate vertical 12mm threaded rod



## Walkway paving blocks

Lightweight blocks which protect the walkway of the roof surface from continuous use.



# ...FOR PIPEWORK DUCTWORK



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