

Ref: OI - 001

INSTRUCTIONS ON THE INSTALLATION OF BLOWN FIBRE (Point to Point Blowing Only)

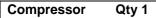
Description

- This document details the user instructions for the installation of MK2 Blown Fibre Units using the Sirocco Blowing head. This document details the operation of Point-to-Point blowing only.
- When installing 2 or 4 fibre EPFU the same fibre guides within the blowing head can be used. When installing an 8 or 12 fibre unit it is necessary to change the fibre guides.
- All operators must comply with any local statutory Health & Safety regulations.
- Working with Compressed Air is potentially dangerous and any operator following these procedures must have successfully completed a Prysmian Cables & Systems UK Ltd approved training course.

Equipment Required

Equipment Required:	Part No.
Sirocco Compressor (Petrol) or	XBFSC00002
220/240v DC (Electric)	XBFSC00013
Air Hose	XBFSC00005
Air Pressure Indicator/Valve	XBFSC00004
Sirocco Blowing Head	XBFSC00010
Fibre Unit Dispenser Pan	XBFSC00028
Fibre Unit Pan Guide	XBFSC00007
Fibre Unit Blowing Bead	XBFSC00001
Air Flow Meter (part of kit 820/5)	XBFSC00011
Air Stone (part of kit 820/5)	XBFSC00011
Tube Cutter (part of kit 820/5)	XBFSC00011
Tube End Stop	XBFSC00076
5 -5 mm Tube Connector	XBFSC00075
Sirocco Tube Integrity & Length Tester	XBFSC00030
(STILT)	

Equipment





Air Pressure Indicator/Valve Qty 1



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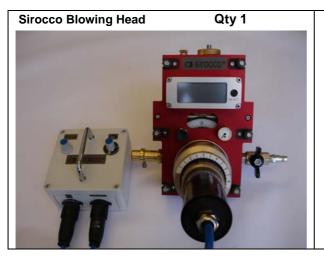
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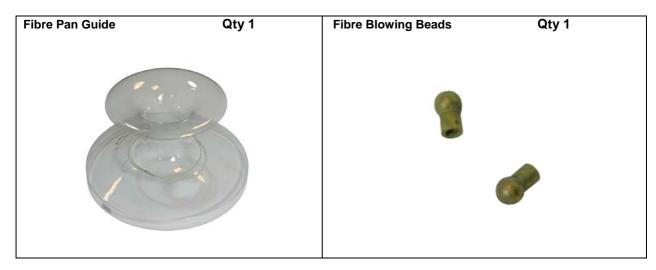


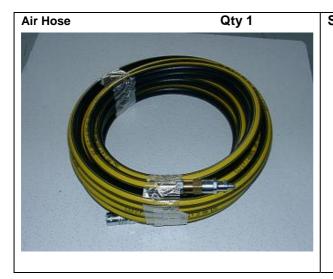
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Equipment (contd)











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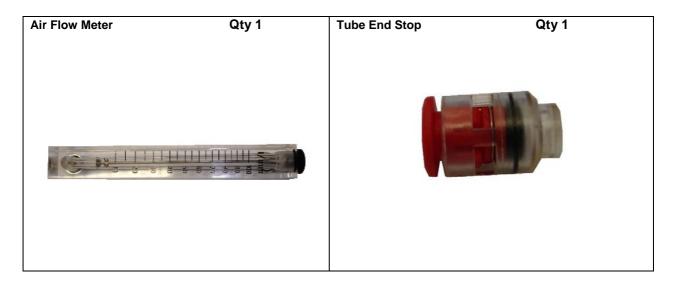
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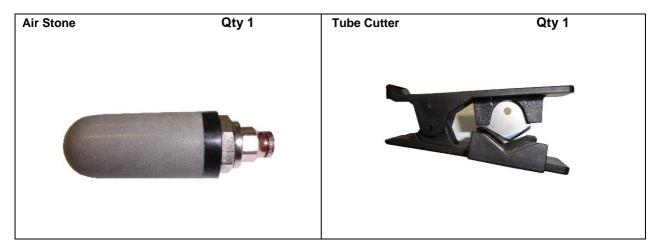


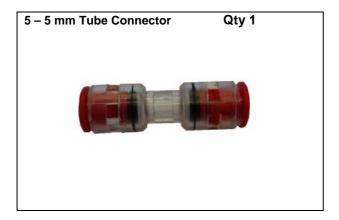


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Ancillary Equipment







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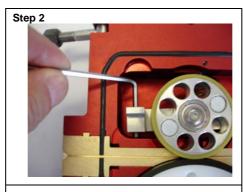


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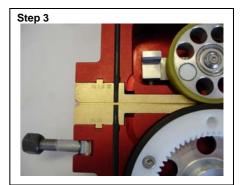
Blowing Head Preparation



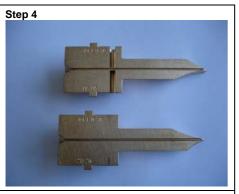
 Ensure that the large knurled knob at the top of the blowing head is fully wound out.



Using the Allen key adjust the position of the idle roller so that it just starts to rotate when the drive wheel is spun.



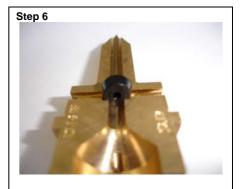
Ensure that the correct fibre guides are located within both halves of the blowing head.



2 & 4 fibre unit guide.



8 & 12 fibre unit guide



 8 & 12 fibre unit guide showing correct orientation of fibre unit seal.

Step 7



 Using the electrical leads connect the blowing head to the speed control and the speed control to the power socket on the compressor.



Set the clutch control to zero.



Set the speed control to zero.

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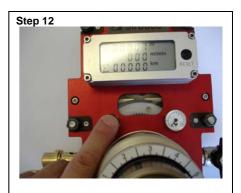
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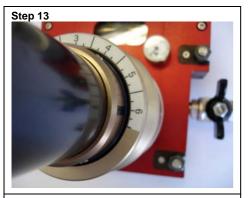
• Start the compressor. Do not switch on the air supply.



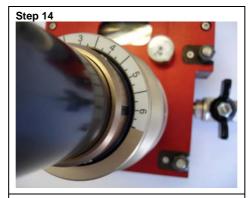
Set direction of motor and increase the speed control to maximum.



Hold in the drive wheel stop.



 Increase the clutch setting to maximum and then back to minimum.



Repeat this operation twice more.



Change the direction of the motor and repeat steps 13 & 14



Switch off the compressor.

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Fibre Unit Preparation



Remove the lid and the retaining ring from the fibre unit Storage Pan.

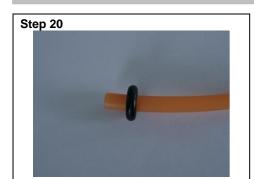


Locate the top end of the fibre unit and remove from the pan. Ensure that the unit is unwinding freely from the pan.

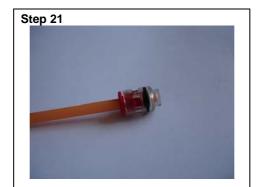


Pass the fibre unit through the centre of the Pan Guide. Locate the Pan Guide over the Storage Pan.

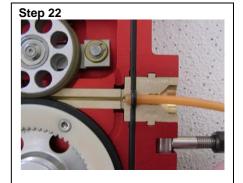
Clutch Setting



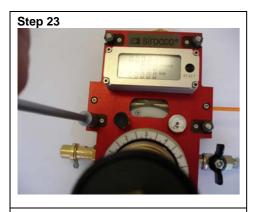
Place a split 'O' ring over a 5 mts length of blown fibre tubing.



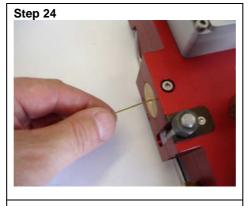
Fit a tube end stop over the other end of the blown fibre tube.



Position the blown fibre tube into the blowing head. Ensure that the split in the 'O' ring is in the bottom of the



Close the blowing head and tighten nuts holding the blowing head together.



With the motor running slowly thread the fibre unit into the blowing head.



Set the clutch setting to 2.5.

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 Increase the speed control to the maximum installation speed of the fibre unit.



When the fibre unit reaches the tubesealing cap the clutch will operate thus ensuring that no damage occurs to the fibre unit.



Reverse the direction of the motor and recover the fibre unit for 4 mts.



 Increase the clutch setting and repeat steps 25 to 27 until the operation of the clutch fails to prevent the fibre unit from being damaged. <u>Note:</u> the figure in the photo is for demonstration purposes only.



A clutch setting 0.25 below the figure determined in step 26 is the maximum setting that can be used. Note: the figure in the photo is for demonstration purposes only.



 Set the clutch setting to a figure (typically 0.25) below that determined in step 26. <u>Note:</u> the figure in the photo is for demonstration purposes only.



 Lock the clutch setting figure using the grub screw.

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Testing the Route



Determine the length and the integrity of the route using the STILT. Refer to operating instruction OI-002 for the detailed method.

Step 34



Having proved the integrity of the route it is necessary to determine the airflow through the route.

Step 35



Connect the airflow gauge onto the correct tube at the far end of the route.

Step 36



Connect the air hose from the air pressure indicator/valve direct onto the tube into which the fibre unit is to be installed.

Step 37



Connect the airflow gauge onto the correct tube at the far end of the route.

Step 38



Start on the compressor and open the air valve.

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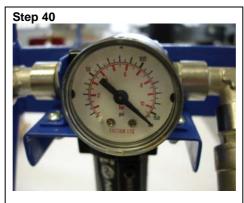




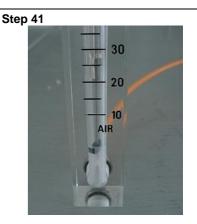
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Open the air valve on the air pressure indicator/valve.

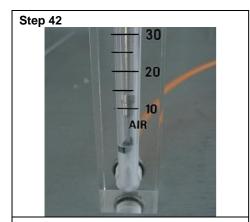


Ensure that the air pressure is at a minimum value of 9.5 bars.



After 5 minutes record the airflow. The reading should be above 18l/min.

If the airflow is above this value then the fibre unit can be installed.



 If the airflow is below 18l/min then the installation route should be inspected for air leaks.



Turn off the air supply and switch off the compressor.



When the airflow drops to 0 remove the air flow meter from the end of the tube and replace it with the air stone.

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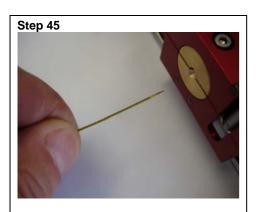
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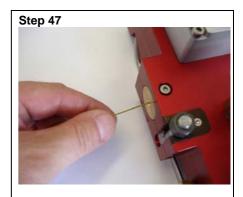
Installing The Unit



Using the motor in the reverse direction remove the blown fibre unit from the blowing head.



Cut the blown fibre tube approx. 100mm from the blowing head and fit a tube connector.



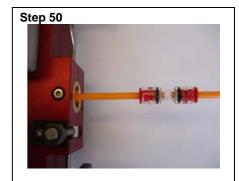
With the motor running slowly thread the fibre unit into the blowing head.



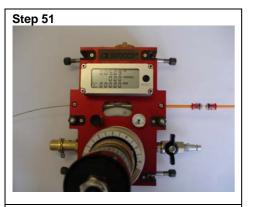
When the fibre unit emerges from the connector stop the motor and using a pair of pliers crimp a Blown Fibre Bead onto the end of the fibre unit.



Gently shake the fibre unit to ensure that the Blown Fibre bead is fixed to the fibre unit. If it falls off fit a new Blown Fibre Bead.



Connect the tube into which the fibre unit is to be blown to the connector.



Position the Blowing head assembly in line with the Blown Fibre Cable. The route between the Blowing Head and the cable should be as straight as possible.



Connect the air hose from the pressure regulator to the blowing head



Connect the air hose from the compressor to the pressure regulator.

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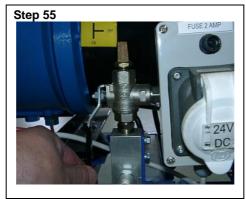




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Zero the length counter on the blowing head. This is achieved by pressing the reset button down for 5 seconds.



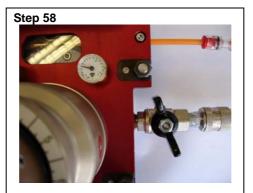
Start the compressor and open the air valve on the compressor.



Open the air valve on the air pressure indicator/valve. Check that the pressure gauge indicates approx. 10



Increase the speed control to approximately 10 m/min. Check to see if the fibre unit is being installed correctly. If not, stop and rectify any problems.



After approx. 20 mts of fibre unit has been installed turn on the air supply to the blowing head. Regulate the air pressure to 4 bar using the valve on the blowing head.



Increase the installation speed to approx. 15 m/min.



After approx. 75 mts of fibre unit has been installed increase the air pressure to maximum and increase the installation speed to between 25 - 30 m/min.

Step 61



Continue to monitor the installation process. If in any doubt about the process STOP THE INSTALLATION AND **INVESTIGATE**



When the fibre reaches the end of the route reduce the installation speed to 0 and turn off the air at the compressor valve.

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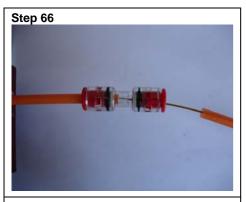
Switch off the compressor.



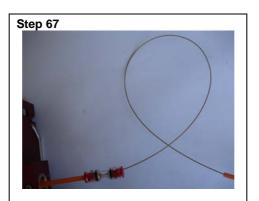
Allow 5 minutes for the air pressure within the route to reduce to 0.



Disconnect the air hose from the blowing head.



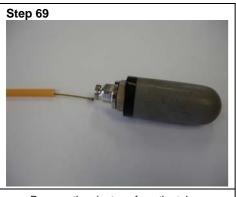
 Disconnect the tube connector just in front of the blowing head.



 Using the blowing head drive out the required quantity of fibre unit required for joint/rack configuration



Cut the fibre unit and coil this length of fibre unit and store safely.



Remove the air stone from the tube.

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Replacement Part Numbers

Item	Prysmian Part No.	Plumettaz Part No.
Tube Clamp	XBFSC00032	N273.112
2 & 4 Fibre Guide	XBFSC00056	N.273.120
8 & 12 Fibre Guide	XBFSC00057	N.273.057
8 & 12 Fibre Seal	XBFSC00050	N273.132
8 Fibre Brass Guide	XBFSC00174	N273.147
5mm Duct Insert	XBFSC00058	N273.084
5mm Duct 'O' Ring	XBFSC00097	N273.066
Drive Wheel	XBFSC00059	P273.230
Idle Wheel	XBFSC00060	N273.123
Blowing Head Control Unit	XBFSC00109	TBD
Air Stone	XBFSC00052	n/a

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