

PRODUCT CHANGE NOTIFICATION

Document Reference: SM-D00084

Product Group: redPOWER QUBE Fiber Lasers

Effective Date: 1st January 2018

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Letter of Notice

This Product Change Notification (PCN) informs of changes made to the Coolant Manifold fitted to the rear of redPOWER QUBE Cased Lasers.

These changes do not affect the function of the QUBE lasers, but do reduce the overall size of the QUBE laser. As there is an overall size reduction, it is not expected that this change will have any adverse affects on the laser Fit, but may well improve the range of situations where it can be accepted.

The connections from the User coolant supply are unchanged, as are the requirements on the cooling system.

The change may apply to any laser shipped since the effective date of this Product Change Notice (approximately from SPI Serial Number 5018000)

Products Affected

All Red POWER QUBE Fiber Lasers, with product codes of form:

SP - 0300 - C - W - 020 - 05 - PIQ - xxx - yyy - zzz
0500 050 10
0750 100 15
1000 300 20
1500

Scope

This change is being introduced to improve the Fit of the laser when integrated into larger systems by reducing the amount of clearance space need to the rear of the unit. The reduced number of inter-connect hose connections will have the added benefit of reducing the opportunities for leaks within the coolant system.

Change Details

Photographs of a QUBE Case laser with old and new variants of the coolant manifold are shown below for comparison. It can be clearly seen that the new manifold uses less hose interconnects, leading to a more compact overall product.

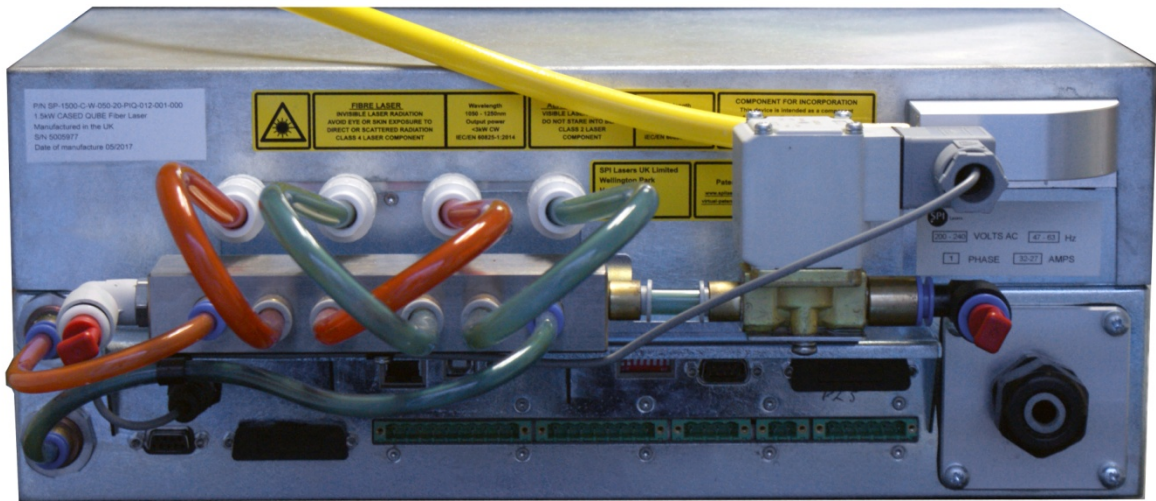


Figure 1: QUBE Case with original Manifold

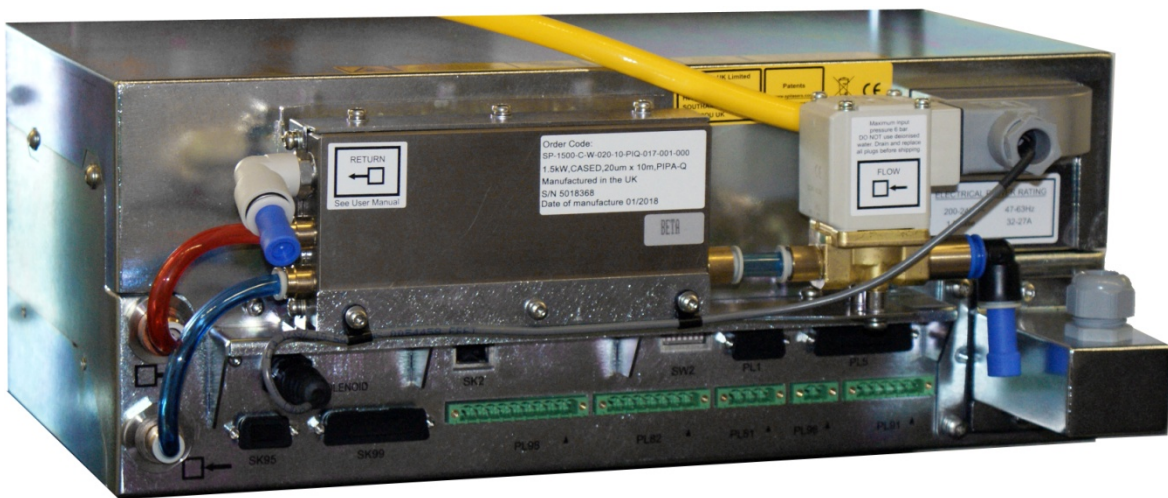
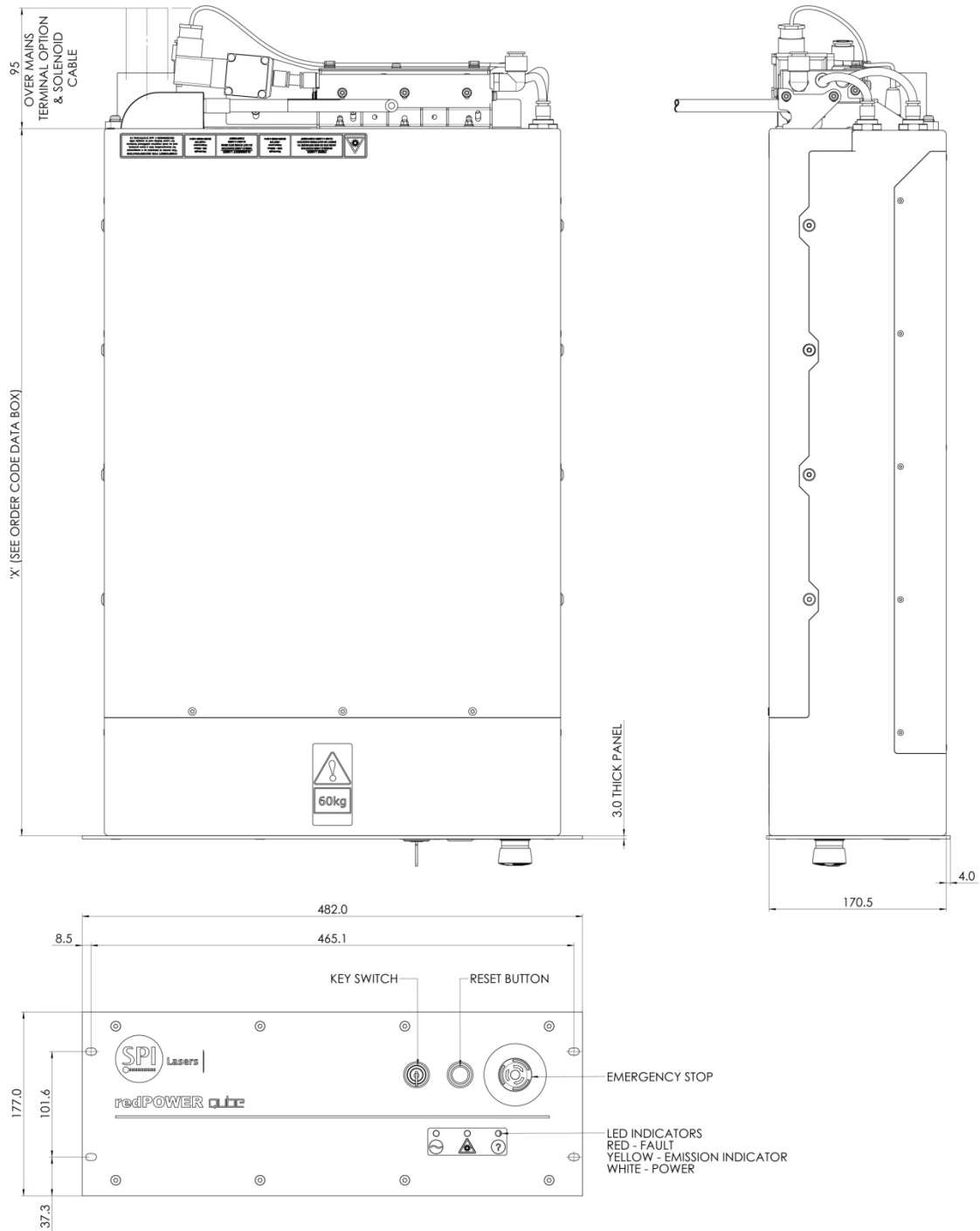


Figure 2: QUBE Case with revised (Version 2) Manifold

A portion of the revised installation drawing (FS-S00138) is given below to clarify the new overall dimensions, showing the reduction in clearance needed at the rear of the QUBE case from 200mm to 95mm.



Documentation

The new coolant manifold details are incorporated into:

- FS-S00138 QUBE Case Installation Drawing (Rev D onwards).



N.B. A portion of this drawing is reproduced above for reference.

- SM-S00500 redPOWER QUBE 300W – 2kW Fiber Lasers Instructions for Use (Rev F onwards)

Verification & Validation

The requirements on the cooling system and coolant specification are unchanged between the old and new variants of the manifold. This has been confirmed by in-house testing of flow rates and operation of the laser with the new manifold.