



# In Pendant Smoke Evacuation System (IPSES)

## Overview:

The Cockatoo Blue IPSES is designed to service an individual operating theatre.

For convenience, multiple access points in each operating theatre may be connected to a common drive unit. Filter Boxes may be installed in the pendant (CB 503 IP) or remotely on a stand or diathermy trolley (CB 501 / 502).

When the system is working, smoke/plume is directed through an Ultra Low Penetration Air (ULPA) filter connected between the operating site and the access point. All filtered exhaust is directed outside the working environment. The drive unit is remotely mounted and capable of continuous operation from zero to maximum air flow.

The system is intrinsically safe as the drive unit has a maximum negative pressure limit of -100mmHg and reverse air flow is prevented by an electrically operated stop valve which automatically closes when the drive unit is de-energised.

Each system features a manually operated filter test facility which senses increased resistance to air flow when the ULPA filter requires replacement.

The system is silent during use allowing it to remain on during an entire procedure and continuous operation allows the air stream at the point of capture to form prior to smoke generation. Each access point has individual switching for maximum convenience and in facilities equipped with multiple access points, more than one may be utilised if additional filters are connected.

## Operation:

Each IPSES access point is identical with a self sealing inlet fitting on the left hand side. The SYSTEM ON/OFF switch is located on the top right hand side with an associated green indicator. The FILTER TEST switch is located on the lower right hand side with an associated red indicator.



Model: CB 501 / 502



Model: CB 503 IP

The CB 501 and 502 systems are designed to operate with a Remote moveable Filter Box, a hose connector fitted with a metal contact ring is plugged firmly into the inlet fitting and the unit switched on.

The CB 503 IP system has the filter box permanently fitted to the pendant.

## FILTER TESTING:

The FILTER TEST switch is activated with the system running and the filter inlet open prior to connection of any accessory items. As described on the panel, the filter will require replacement if the red indicator is illuminated. If the filter is ready for use, the red indicator will not illuminate as shown below.



If the filter requires replacement, the red indicator will illuminate as shown below.

**NOTE:** When the filter is connected to disposable tubing or an electrosurgery hand piece equipped for smoke evacuation use, the resistance to air flow in the IPSES system will increase. This will simulate a blocked filter with indication to replace the filter. It is important the filter test is applied prior to connection of any accessory items.

Shown below and outlined in red is an IPSES access point integrated into a new services boom. Depending on space availability, the panel may be mounted in a different position as a retrofit to an existing services boom.



Operation Manual V2.0