

Device Theory.

Oxygen Hoods are flat sheets of Amber 300 Perspex shaped to cover an Oxygen Hood, usually used to surround a neonate's head, to allow a greater concentration of oxygen to be achieved.

For use to retain heat and humidity and supply supplementary oxygen to infants

O₂ / humidified gas is introduced into the Oxygen Hood through the 22mm cut out using standard fittings.

It is recommended that the supplied gas should be warmed and humidified before introduction. And that oxygen-sensors should be placed as near to the infant's mouth as possible.

When using all types of Viamed Oxygen Hoods, at least 6 litres / minute of supplied gas should be used.

They are normally manufactured from Amber 300 Acrylic (Perspex), and are shaped to cover an Oxygen Hood, some are shaped with a neck opening. The neck opening on Amber 300 Oxygen Hoods has a sliding front, which can be adjusted to reduce the opening around the neck and therefore reduce the gas and heat loss.

Flat sheets of Amber Acrylic 300 (Perspex), shaped to form small enclosures designed to surround the head, to reduce the intensity of light falling on an infant's eyes during photo-therapy. Standard sizes are available covering a range of patients; neonate, infant & paediatric. Specials are manufactured to order.

The Spectral Response curve, which has been checked by the National Physics Laboratory, shows the Amber 300 material removes almost all the Ultra Violet and Blue Lights in the 300-500 nm region.

There are several versions of Photo-therapy Light Shield available:

The open Light Shield consists of one panel formed to cover an existing Neonatal or Paediatric Oxygen Hood. This is most suitable for Photo-therapy units which direct light through a 180 degree plane at right angles to the device, as neither the front nor the rear is shielded. The Semi-Head Box is a range of covers with one end enclosed with a neck aperture allowing for the siting of the device over the infant's head, thus allowing the head box to follow the baby's movements whilst still preventing the Ultra Violet light from entering from the front, sides and top. The complete Oxygen Hood version reduces the need for a separate shield over the transparent Oxygen Hood. It is also the most efficient and safest, as it allows the photo-therapy light to be used at any angle without any having the chance to enter the Hood.