

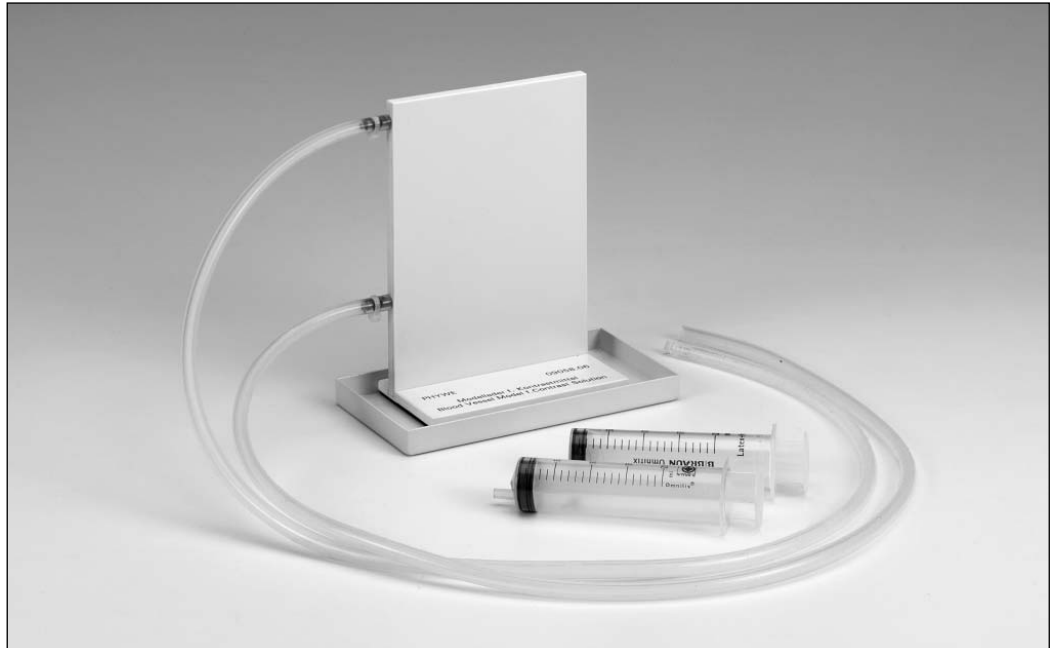


Blood vessel model

09058.06

PHYWE SYSTEME GMBH
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Operating Instructions

1. PURPOSE AND DESCRIPTION

This model (see Fig. 1) serves, together with Phywe X-ray basic unit 09058.99, for the demonstrative observation of the mode of action of a contrast medium.

It holds inside, hidden from sight, a model blood vessel into which a liquid contrast medium can be injected. On subsequently exposing the model to a bundle of X-rays, the course taken by the medium can be observed on the fluorescent screen.

The model is fitted with magnetic standing strips and fixed connection tubes. It is supplied complete with a safety trough, for holding it during experiments, two tube stoppers and two 20 ml plastic syringes.

2. HANDLING

A 50% potassium iodide solution is to be used as injection liquid. Prepare this by dissolving 50 g of potassium iodide in 100 ml of water.

With the goniometer removed, first place the blood vessel in the small safety trough provided, then position the trough directly in front of the fluorescent screen in the experimenting area. Lead the connecting tubes, closed with stoppers, through the working channel to the outside. Fill one of the two syringes with contrast medium, then connect the two syringes to the ends of the tubes, with the filled syringe connected to the lower inlet of the model.

Operate the X-ray tube with maximum operating values. No diaphragm tube is to be used, as the model is to be completely irradiated by a bundle of X-rays. Darken the room so that the course of the contrast medium can be observed on the fluorescent screen. Now carefully, and with feeling, press the contrast medium out of the filled syringe into the blood vessel model.

The contrast medium must be removed from the model before the model is taken out of the experimenting area. To do

this, remove only the syringe which was fitted on empty from the end of the one connecting tube, then lead the end of this tube into the storage container. Press the liquid out of the filled syringe. Subsequent to this, be sure to re-plug the free tube ends with stoppers! After dismantling, rinse the model, connecting tubes and syringes several times with water. The model is also to be emptied of water as far as possible.

Caution! Take great care to ensure that no liquid can run out and into the experimenting area. Also carefully check that the connecting tubes are always securely closed with stoppers before the tubes are drawn through the working channel.

3. LIST OF EQUIPMENT

X-ray basic unit, 35 kV	09058.99
Plug-in module with Cu x-ray tube	09058.50
Blood vessel model	09058.06
Potassium iodide, 50 g	30104.05
Glass beaker, short, 250 ml	36013.00
Reagent bottle, brown, 250 ml	46223.00
Glass rod, l = 200 mm, d = 6 mm	40485.04

4 GUARANTEE

We give a guarantee of 24 months on equipment that we have supplied; it does not include natural wear and tear and faults which are the result of improper handling.

The manufacturer can only be regarded as being responsible for the proper function and safety characteristics of the equipment if maintenance, repair and modifications have been carried out by the manufacturer or by agents expressly authorised by the manufacturer.