



Heat transfer medium test kit – SOLHTTK

Operating instructions

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2 Before you start

General

Thank you for choosing a Dimplex product. We ensure you that every effort was made at design, manufacture and delivery stages of this product to meet your expectations and we ensure you of our best possible support throughout the product's lifespan.

As part of ongoing product development and improvement Dimplex reserves the right to undertake changes to the product without prior notice. Great care has been taken to ensure this manual was correct at the time of print. Should you however discover any issues with the information contained therein please do not hesitate to contact your vendor.

We strongly recommend you read the whole contents of this manual before commencing the work.

Competence

Dimplex products have been designed and manufactured to the current relevant standards and under stringent quality control. It is therefore imperative that the product is only installed by a:

- trained and
- competent

person as defined in the relevant regulations. Dimplex does not accept any liability for damage done to persons or property resulting from undue handling and usage of this product.

All regulations current at the time of installation are to be considered alongside the content of this manual as they form the code of best practice.

The warranty of this product is linked to the ability of proving that the product was installed, commissioned and maintained:

- by a competent person
- in accordance with Dimplex instructions and the current relevant regulations and legislation
- the product being registered with Dimplex at the time of installation using the form in the Dimplex On Site Guide
- records showing the date of maintenance in accordance with the maintenance schedule as detailed in the On Site Guide

Health and Safety

The installation of this product is subject to the Health and Safety at Work Act. It is your responsibility to ensure that the transport, storage, installation and operation of the product is carried out in a safe manner.

Dimplex will not accept any liability due to damage caused to people or property resulting from negligence or not adhering to the relevant Health and Safety practises.

3 Scope of delivery

Please check the contents and condition of you delivery before signing the delivery documentation against the content shown in Figure 1 and mark as appropriate. Contact your supplier immediately for any missing or damaged parts. Claims for missing or damaged parts after signing the delivery documentation will not be accepted.

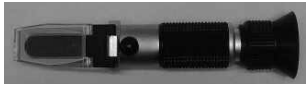







Pyranometer	x1	<input type="checkbox"/> / <input type="checkbox"/>	
pH – test strips	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Carrying case	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Cleaning cloth	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Distilled water	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Pipette	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Screw driver	x1	<input type="checkbox"/> / <input type="checkbox"/>	
Manual	x1	<input type="checkbox"/> / <input type="checkbox"/>	

Figure 1 – Scope of delivery

4 Operation

4.1 FROST PROTECTION

Calibrating Procedure

- 1 Open the illuminating plate, apply 1 – 2 drops of distilled water onto the prism surface and press the plate onto the prism surface.
- 2 Turn the pointy end of the tester to the light and look into the eyepiece. Adjust the eyepiece such that the graduation appears in focus.
- 3 The borderline now appears in the field of vision, which separates the light part from the dark part. By turning the adjusting screw (with the assistance of a screw driver), turn the borderline such that it is congruent with the lower most line.
- 4 After carrying out the adjustment, carefully dry the prism surface.

Measuring procedure

- 1 Apply 1 – 2 drops of test liquid onto the prism surface. Then press the illuminating plate onto the prism surface.
- 2 Hold the pointy end against the light and turn the eyepiece such that the borderline is visible. The borderline shows the value for the measured medium.

Instructions for care for measuring

- 1 Apply the liquid to be tested such that it is spread over the entire prism surface. The borderline can not be clearly seen if there is too little of too much fluid.
- 2 After measuring, the liquid should be carefully removed from the prism surface. An incorrect reading can result from a poorly dried prism surface.
- 3 If the prism surface is contaminated by oil, grease or similar, an accurate measurement is not possible, since the sample will be repelled from the surface. In such a case, the prism surface is to be wiped clean with a white spirit rag and dried.
- 4 Avoid damaging the prism surface.
- 5 This refractometer is to be handled with care, since it is a precision instrument.
- 6 Do not clean the refractometer under running water. It is splashproof, but not waterproof.

Read off at the propylene glycol scale only:

Tyfocor® LS		
Ready-to-use % vv	Freezing Point	Read-off value = Frost Protection
100	-25°C	-28°C

Freezing point: initial formation of ice crystals occur at this temperature.

Frost protection: arithmetic average value of freezing point and pour point.

TYFORCOR® LS IS A READY-TO-USE FORMULATION AND **MUST NOT BE** FURTHER DILUTED BY THE USER.

4.2 pH – VALUE

Measuring procedure

- 1 Completely immerse the coloured end of the pH – stick in heat transfer medium which was drawn off from the system.
- 2 Read off while still moist and compare the colour with the scale printed on the packaging of the pH – sticks.
- 3 A pH – Value <9 indicates that the medium has started to deteriorate and the assessment intervals should be reduced to ensure the medium is changed when the pH – Value is equal to or below 7.8 Maintenance

5 Maintenance

To ensure the proper measurements are being taken at all times it is strongly recommended to:

- store the refractometer and associated components in the carry case provided
- clean the glass surface after each use with distilled water
- avoid scratches and other damage to the product

