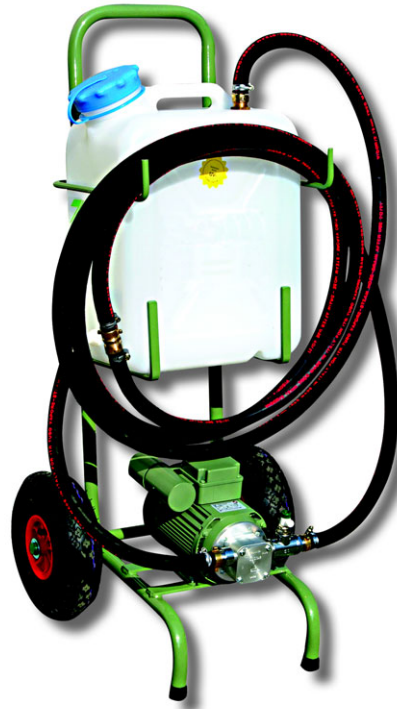


# RESOL <Solarcheck Proficenter>®

- ✓ powerful electronic pump allows an efficient and clean filling of solar systems with heating medium liquid
- ✓ pump with stainless steel shaft and glycol-resistant perbunan-impeller guarantees longevity
- ✓ high-temperature resistant tube
- ✓ convenient mounting allows easy arrangement of all tubes, a compatible coupler reduces uncontrolled emptying of liquid residues during transport
- ✓ blocking valve at the runout of the tank.
- ✓ unit installed on a robust and mobile trolley
- ✓ fine sieve for filtering soldering residues and dirt of the system
- ✓ the tank can be easily removed for cleaning
- ✓ drain valve at pump output allows clean evacuation of pressure tube after filling
- ✓ mixing on the spot (if no final product is available)



## The <Solarcheck-Proficenter>® contains:

- ✓ a robust trolley with integrated tube and cable mounting device
- ✓ a complete electronic pump unit with fine sieve for filtering soldering residues and dirt of the system
- ✓ removable 30-l tank with blocking valve and high temperature resistant pressure tube

## Technical data

### Solarcheck-Proficenter-trolley:

#### Material:

welded form tube frame

#### Size (without tubes):

H x B x T = 102 x 42 x 52 cm

#### Tank: 30 litre,

UV-stabilized PE with large, closeable filling hole and blocking valve at the outlet

#### Pump:

dry, self-sucking (max. dry runtime 1 minute) with suck-, pressure- and seed tube as well as screwings

**Impeller:** made of perbunan (exchangeable)

**Pump shaft:** stainless steel 1.4571

### Housing/cover: AL Mg Si 1

#### Motor:

230 V, therm. motor protection, power switch, power cable with plug

#### max. production quantity:

30 litre/min

#### max. pressure: 4 bar

#### Filling- and flushing

temperature: 80 °C

#### Pump speed: 2900 min<sup>-1</sup>

**Power:** 370 W

**Filter:** fine filter, possibility of emptying at the pressure side

## Order information

### <Solarcheck Proficenter>®

Full unit for filling- and flushing works of solar thermal systems

Price group B

**Article-No.: 280 000 89**



<Solarcheck Proficenter>®

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## Imprint

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your projects. We don't offer a guarantee for the completeness of the drawings and texts of this manual - they only represent some examples. They can only be used on own risk. No liability is assumed for incorrect, incomplete or false information and the resulting damages.

Editor: RESOL - Elektronische Regelungen GmbH

Errors and technical changes excepted

### Important notice

We took a lot of care over the texts and drawings of this manual and to the best of our knowledge and consent. As faults can never be excluded, please note:

Your own calculations and plans under consideration of the current norms and DIN-directions should only be basis for

### Security advice:

Please read the following information carefully before operating the Proficenter. In this way damage to the Proficenter or the solar system will be avoided. All electrical wiring must comply with the latest IEE regulations. The following technical rules must be carefully considered:

TRD 802	Steam boiler of the group III,	DIN 18339	Plumber's works
TRD 402	Equipment of steamboiler systems with hot water generators of the group IV	DIN 18451	Scaffolding works
DIN 1988, part 1 – 8	Technical rules for installation of drinking water	VDE 0100	Set up of electrical operating supplies
DIN 4708, part 3	Central warm water heating systems	VDE 0185	General rules for setting up overvoltage protection systems
DIN 4751, part 1 + 2	Water heating systems	VDE 0190	Main potential equalization of electrical systems
DIN 4753	Water heater and systems for drinkingwater	DIN 18381	Gas-, water- and sewage installation systems
DIN 4757, part 1 – 4	Solar heating- and solar thermal systems	DIN 18382	Electrical cable- and line systems in buildings
DIN 18338	Roofing and roof sealing works	HeizAnIV	Heating system regulations

## 1. Mounting

- Tighten up the screwings and clamps.
- Connect the tubes at the washing device, open the KFE-cocks and block the washing device so that the medium can run through the tubes.
- Open the screwing of the can in order to avoid negative pressure.
- After filling the can, open the blocking device and then switch-on the pump.
- The medium must be flushed until all air is out of the tube system, control possibility by flowmeter.

## 2. General information

2.1 The pump is only appropriated for liquids, which don't attack to aluminium, e.g. water, heating oil, diesel etc. The medium may not contain any abrasion substances, but it can be dirty.



2.2 The user must at any rate make sure that the pump is appropriated for the used medium.

2.3 **Danger !** It is absolutely forbidden to fill in petrol, solvents or other explosive substances with flaming point under 55 °C.

## 3. Electrical connection

3.1 When using pumps with three-phase-motor (400 Volt) you have to observe the rotation direction of the motor. A correctly adjusted motor protection switch must additionally be installed. Please follow the indication on the type label. No guarantee can be accepted for motor damages in case of non-following to the before-mentioned instructions.

3.3 For your own safety, please always use a differential-current switch, which immediately stops the pump in case of malfunction.

3.2 The cross section of the extension cables must at least have the same section as the pump cable. If the extension cable is longer than 20 m, it must be thicker than the pump cable. If you don't pay attention to these prescriptions, the motor windings can be disturbed.

No right to claim under guarantee !

## 4. Operation

4.1 Suction- and pressure tubes must be airtightly screwed -on. Please follow the flow and rotation direction of the motor.

4.2 A foot valve should be used for a suction depth of more than 3 meter. Fill in the suction tube. Maximum suction depth is 7 meter.

4.3 Switch-on the motor – the pump starts sucking.

4.4 The pump initially must be operated pressure-free (without injection tube) for pressure works (squirting) until it is regularly conveying.

4.5 The pump must only run dry for max. 60 seconds.

4.6 Squirt- or outflow tubes should only be blocked for a short time as otherwise the pump becomes overheated.

