IHS103

DOMESTIC HOT WATER PRODUCTION USING AN ELECTRIC STORAGE CYLINDER



TRAINING APPLICATIONS

- **technological study,**
- **Commissioning and adjusting the complete system.**
- **Easy like-for-like replacement within existing installations.**
- **Comparison with the basic installation (energy balances, efficiencies and characteristics).**
- **measurement of characteristic magnitudes,**
- **preventive and corrective maintenance,**
- **Establishing energy balances, efficiencies and power ratings.**

DIDATEC – Zone d'activité du parc – 42490 FRAISSES – FRANCE
Tel. +33(0)4.77.10.10.10 – Fax +33(0)4.77.61.56.49 – www.didatec-technologie.com
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IHS103

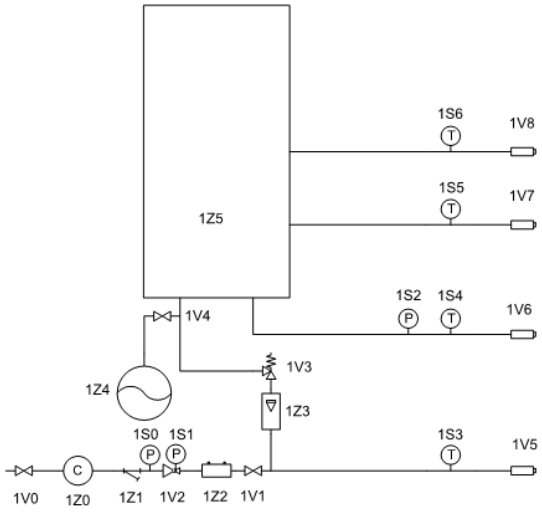
OPERATING PRINCIPLE

Example:

The IHS103 rig enables the study of a domestic hot water storage cylinder. It is instrumented for pressure, temperature, flow rate and electrical energy consumption to facilitate training activities.

The robust design of this equipment makes it particularly suitable for use in educational environments.
Its anodised aluminium frame on castors provides excellent strength and great flexibility for installation on your premises.
This equipment is manufactured in accordance with the European Machinery Directive.

Illustrations



Technical specifications

Numéro	Désignation
1Z0	Compteur d'eau
1Z1	Filtre à tamis en Y
1V0, 1V1, 1V4	Vannes plates manuelles
1V5, 1V6, 1V7, 1V8	Raccords type coupling
1S0, 1S2	Manomètres 0-10 bar
1V2	Réducteur de pression
1Z2	Clapet anti-pollution
1S1	Manomètre 0-6 bar
1V3	Groupe de sécurité
1Z4	Vase d'expansion
1Z5	Ballon ECS intérieur 150 L
1Z3	Débitmètres 100-1000 L/h
1S3, 1S4, 1S5, 1S6	Thermomètres 0-120°C

Installation requirements

- Power supply: 230 Vac – 50 Hz – 16 A
- Type of power supply: 1 phase(s) + Neutral + Earth.
- Water supply: 15 L/min – 3 bars
- Water discharge: at ground level
- Dimensions (L × W × H, mm): 1200 x 800 x 1600
- Weight (kg): 150

Note: If the equipment is installed by our team, all utility connections must be located within 2 m of the machine.

Documentation

- Instruction manual
- Technical documentation
- Practical exercises
- Electrical diagram
- Hydraulic diagram
- CE certificate of conformity

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ENGLISH TRANSLATION OF ILLUSTRATION TEXT

The original diagrams, photographs and software screens are retained. The English text below provides the corresponding technical information and labels.

Component key in the illustrated hydraulic diagram

1Z0	Water meter.
1Z1	Y-strainer.
1V0, 1V1, 1V4	Manual flat valves.
1V5, 1V6, 1V7, 1V8	Coupling connectors.
1S0, 1S2	Pressure gauges, 0–10 bar.
1V2	Pressure reducing valve.
1Z2	Backflow prevention check valve.
1S1	Pressure gauge, 0–6 bar.
1V3	Safety group.
1Z4	Expansion vessel.
1Z5	Internal domestic hot water cylinder, 150 L.
1Z3	Flowmeters, 100–1000 L/h.
1S3, 1S4, 1S5, 1S6	Thermometers, 0–120°C.

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