



HEATER TEST STAND



MODEL:

VHTS-89-102M (NSN 4910-01-504-3502)

FEATURES:

- TEST OR TROUBLESHOOT OVER 20 DIFFERENT HEATERS
- FUEL SUPPLY SYSTEM AND ELECTRICAL CONTROL SYSTEM IN ONE UNIT
- MOST ACCESSORIES PROVIDED
- OPERATED FROM 24 VDC OR 120/240 VAC, 50/60 Hz
- VOLTMETER, AMMETER, TEMPERATURE METER CONTINUITY TESTER AND OTHER DIAGNOSTIC AIDS PROVIDED

VHTS-89-102M HEATER TEST STAND

EQUIPMENT DESCRIPTION:

The Valcom Heater Test Stand (VHTS) is a portable unit enclosed in an aluminum chest assembly. The chest assembly is removed to reveal the actual VHTS unit inside.

The VHTS was designed to allow convenient operation and troubleshooting of heaters on top of a standard workbench with no permanent mounting required.

Included with the VHTS are detachable brackets for mounting any of the heaters listed below, a complete fuel supply system, a complete electrical control system and several diagnostic aids including a voltmeter, ammeter, continuity test indicator and temperature meter. The fuel system includes a fuel tank to contain diesel fuel or JP-8 for use during testing.

The electrical control system controls the operation of the heater, the fuel pump and solenoid valves. Operation of the heater using the VHTS is identical to operating the heater using the electrical control system in the vehicle.

The VHTS is supplied with all heater fuel inlet adapters, fuel lines, cable assemblies and exhaust adapters required for testing the heaters. All ancillary items are stored in either the built-in or removable partitioned trays in the chest assembly.

The operator must provide exhaust disposal facilities which fit the exhaust adapters provided. Any flexible metal tubing attached to these adapters must meet the exhaust requirements of the heater under test.

In order to test the coolant heaters, the operator must provide a coolant reservoir filled with the appropriate coolant, the appropriate size inside diameter radiator hoses and clamps for the coolant circuit. A coolant circulation pump may also be required for the test.

To operate the heater, mount the heater on the VHTS using the mounting brackets provided. Interconnect the VHTS to the heater's fuel and electrical systems. Connect the exhaust and coolant systems using the accessories provided. Operate the heater using the same starting procedures found in the heater operator's manual.

HEATER TESTING CAPABILITY

HEATER TYPE	HEATER MODEL NUMBER
WEBASTO	HL-10011.A05, HL-10011.11
HUNTER / GLOBAL THERMOELECTRIC	A20
ESPAR	V7S
HUPP	MF60A, MF60B, MF60B2, MF510A, MF510B, MF510C
STEWART-WARNER	10530A, 10530B, 10560G, 10560C, 10560M, 10560M24B1, 10560M24B2, 939-J24, 1030-CC-24, 10530A-24, 978MH-24
BENMAR	CP-3050, AP-3050
PERFECTION	MF500, MF510

EQUIPMENT DATA

DIMENSIONS	32 in (813 mm) Long x 25 in (635 mm) High x 19 in (483 mm) wide
WEIGHT	146 lbs (66 kg)
ELECTRICAL REQUIREMENTS	+24 VDC (30 Amp min) OR 120/240 VAC, 50/60 Hz, Single Phase
ENVIRONMENTAL LIMITS	Operating Temperature Range: 32°F to 100°F (0°C to 38°C) Storage Temperature Range: -55°F to 160°F (-48°C to 71°C)
SHOCK	2 drops from 12 inches onto concrete floor
VIBRATION	MIL-STD-810E, Method 514.4, Category 1
FUEL TANK CAPACITY	2 U.S. quarts (2.3 litres)

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