Acknowledged globally



REFMASTER-4-BASIC

Item Number 4689702

The intuitive digital manifold that guides you through every step

REFMASTER intuitively guides refrigeration and air conditioning technicians through their work processes and provides a clear overview of relevant measurement data. The large 5" TFT touchscreen and additional control buttons make navigation straightforward. Thanks to its slim design, the digital manifold can be comfortably operated with one hand.

In combination with REFTUNE, REFMASTER enables fully automatic optimisation of thermostatic expansion valves. Based on measurement data from REFMASTER and the Danfoss SH Tuner™ algorithm, REFTUNE automatically adjusts the valve to its optimal position. This saves valuable working time by eliminating repeated manual readjustments and can increase the energy efficiency of a refrigeration system by up to 10%.

As the central hub of the REFMESH network, REFMASTER connects compatible measuring devices wirelessly and brings their measurement data together in one place. This gives you a clear view of important system data directly on the display. Live graphs visualise measurement trends and help you identify and assess changes in system operation.

With a pressure measurement range of −0.95 to +60 bar and support for more than 100 refrigerants, REFMASTER is designed for a wide range of service applications. The powerful 8500 mAh LiPo battery, BLE range of up to 300 m and IP54 ingress protection complete its features for professional everyday use.

- Intuitive menu navigation guides you through every step

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Certificate
ISO 9001 / ISO 14001

- Comfortable one-handed operation thanks to the slim design and additional control buttons
- Large 5" TFT touchscreen for a clear overview and easy operation
- Automatic energy optimisation in combination with REFTUNE
- Central hub of the REFMESH network – measurement data from compatible devices in one place
- Live graphs visualise measurement trends and simplify system analysis
- Supports more than 100 refrigerants with free updates
- Pressure measurement range from −0.95 to +60 bar
- BLE range of up to 300 m
- Powerful 8500 mAh LiPo battery
- Ingress protection IP54

Technical Data

Material	Aluminium | Brass | ABS | TPE | FR-4
Colour	bare | yellow (RAL 1023) | green (RAL 6026) | black (RAL 7021)
Standards	CE FCC IC RCM RoHS REACH
RoHS Conformity	Yes
Accuracy Class	0.5 (+/-0.5%)
Gas Connection	1/4" SAE | 3/8" SAE
Pressure Scale	MPa | bar | kPa | kg/cm2 | psi
Number of Ways	4-way
Operating Temperature Range	-20 - 50 °C
Pressure Range	-0.95 - 60 bar
Ingression Protection	IP54
Operating Hours	>100 h at low operation
Signal Range	300 m
Functions	ThermostaticExpansionValve-Optimizer (REFTUNE) Recovery - Weight Pressure Test Evacuation Charging Charging with Target Superheat Superheat / Subcooling Digital / analogue display, Slave pointer, Pressure zeroing, Data logging,

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	Tube error compensation, Refrigerant favorites Refrigerant update, Firmware update, Set pressure reference, Unit and language settings, Display brightness, Wireless connections, Commissioning date,
Scope of Supply	Case | Quick Guide | Calibration Certificate | 2 wired temperature sensors
Packaging	Sturdy plastic case
Sensor Type	K-type | Piezo Sensor
Temperature measuring range	-40 - +125 °C
Temperature Units	°C | °F
Temperature Accuracy	+/- 1K
Temperature Resolution	0.1 °C / 0.1 °F
Capacity	8500 mAh
Battery type	Lithium-ion

Accessories

4689546	REFTUNE	Energy Optimizer for Thermostatic Expansion Valves increases energy efficiency by up to 10% using measurement data from REFMASTER, REFCLAMP and the Danfoss SH Tuner™ algorithm
4688733	REFCLAMP-SET	Wireless temperature clamp with humidity sensor
4688291	REFVAC-RC	Wireless digital vacuum gauge connection 1/4"SAE male, Units: Micron, mbar, Pa, Torr, mTorr, psi and inHg
4688867	REFSCALE-S	Electronic charging scale
4689024	REFVALVE	Switching Valve for REFSCALE-S/-C
4689387	REFNRG	Digital multimeter

Spare Parts

4681394	K-TYPE-SENSOR	External temperature sensor for digital manifolds

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