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REFTUNE

Item Number 4689546

Automatic energy optimisation for refrigeration systems

REFTUNE is the world's first automatic energy optimiser for thermostatic expansion valves. In combination with the REFMASTER digital manifold, the device enables fully automatic valve adjustment and can increase the energy efficiency of a refrigeration system by up to 10%.

Based on measurement data from REFMASTER and the Danfoss SH Tuner™ algorithm, REFTUNE automatically adjusts the thermostatic expansion valve to its optimal position. This optimises superheat without requiring the refrigeration technician to repeatedly readjust the valve manually. It saves valuable working time and reduces operating errors and subjective judgements during adjustment.

During the optimisation process, REFMASTER monitors the measurement data and informs the refrigeration technician as soon as the optimal setting has been reached. This allows the technician to focus on other tasks in the meantime.

The optimised valve setting supports energy-efficient and stable system operation. Existing refrigeration systems can also benefit: refrigeration technicians can offer automatic energy optimisation as an additional service, helping their customers reduce energy consumption and operating costs.

- Fully automatic adjustment of the thermostatic expansion valve
- Saves working time by eliminating repeated manual readjustments
- Increases the energy efficiency of a refrigeration system by up to 10%
- Optimises superheat settings and supports stable system operation
- Reduces operating errors and subjective judgements during valve adjustment



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- REFMASTER provides a notification once the optimal setting has been reached
- Additional service to help reduce energy consumption and operating costs
- Optimisation based on the Danfoss SH Tuner™ algorithm
- Compatible with expansion valves using a suitable adapter
- Wireless BLE connection to REFMASTER
- BLE range of up to 80 m
- IP54 protection rating

Technical Data

Material	Stainless steel Aluminium ABS Polycarbonate FR-4 Steel
Colour	yellow (RAL 1023) green (RAL 6026) black (RAL 7021) bare
Standards	CE FCC IC RCM RoHS REACH
RoHS Conformity	Yes
Ingression Protection	IP54
Signal Range	80 m
Operating Temperature Range	-20 °C - 50 °C
Storage Temperature Range	-40 °C - 60 °C
Capacity	800 mAh
Scope of Supply	REFTUNE Adapters Adapter wrench
Battery type	Lithium-ion

Accessories

4689702	REFMASTER-4-BASIC	Intuitive digital 4-way manifold basic kit for targeted expansion with REFTUNE and additional measurement and service components
4689700	REFMASTER-2-BASIC	Intuitive digital 2-way manifold basic kit for targeted expansion with REFTUNE and additional measurement and service components
4688733	REFCLAMP-SET	Wireless temperature clamp with humidity sensor