Acknowledged globally



# 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

**REFCO Manufacturing Ltd.**
Industriestrasse 11
6285 Hitzkirch

Phone +41 41 919 72 82
info@refco.ch

Certificate
ISO 9001 / ISO 14001

- 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 |

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