

# REFMESH™

BORN TO BE DIGITAL

The app consolidates all measured values of a refrigeration system and documents them in a report: the quantities of recovered and charged refrigerants, the proper evacuation process, the optimal setting of an installation and a professional leak detection. The data can be stored in the REFIMATE™, in the app and in the cloud. Afterwards, the personalized work report is sent to the customer as proof of performance. All REFMESH™ devices work both individually and connected to the REFMESH™. Unique to all devices is the real-time display of the measured values on the device itself, the REFIMATE™ and the REFMESH™, as well as the flexible power supply. This is how the next generation of refrigeration technicians works.

## THE REFMESH™ AT A GLANCE

All REFMESH™ devices combine the following features and benefits.

### Features:

- Stand-alone use or in combination with complementary REFMESH™ devices
- Display of measured values on each individual measuring device, REFIMATE™ and REFMESH™ app
- Consolidation, evaluation and documentation of the measured values in the REFMESH™ app
- Autonomous power supply with standard batteries or USB 2.0 Micro-B
- 100 m signal range

### Benefits of REFMESH™:

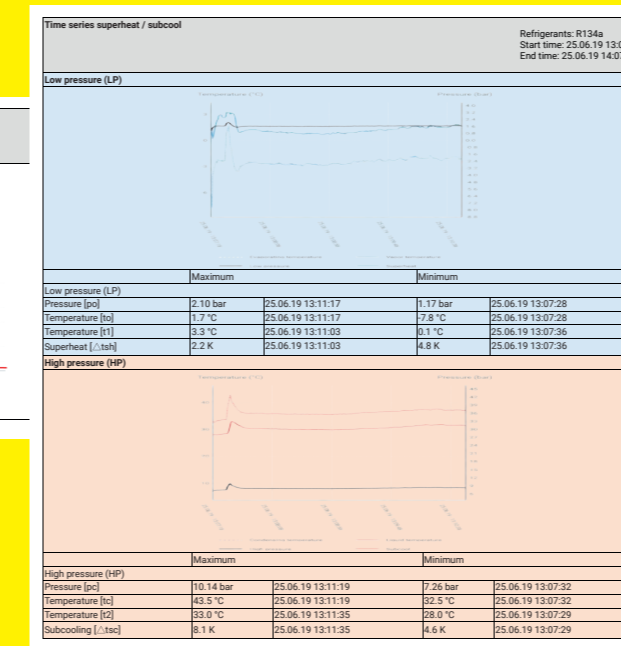
- Complete documentation of the recorded values as proof of an error free installation
- Intuitive, self-explanatory menu navigation
- Personalised report with company logo, installation details and photos
- Registration of the measuring devices used for complete traceability
- Transfer of master data from telephone book
- Installation location through GPS positioning

Customer Information		Service company	
Company		REFCO	
Name	John Doe	Lucien Lungeni	
Company address	Street	Industriestrasse 11	
Company's city	123 in the field, Switzerland	6285 Hitzkirch, Switzerland	
Tel. No.		null	
Email	J.Doe@Mail.com	l.lungeni@refco.ch	
Certification number		007	

 Below this, there is a 'Systems Information' section with fields for Contact name (John Doe), Location, and Notes. A 'Service Information' section includes Session name, Customer number, and Date. A 'Vacuum hold test' section shows a graph of pressure over time with values: Start vacuum: 753811.9 micron, End vacuum: 315.0 micron, Saturation temp. H2O: -30.1 °C.
 
| Refrigerant summary | | Refrigerants: | |
| --- | --- | --- | --- |
| Recovered Date: 27.05.21 | Charged Date: 27.05.21 |  |  |
| Time: 10:02:36 | Time: 10:02:45 |  |  |
| Mass msc: | 12.020 kg | Mass mch: | 12.100 kg |

 Below this is a 'Tightness test' section for Refrigerants: R134A. It shows:
 

Refrigerant for disposal	New refrigerant added	Total amount of refrigerant
12.020 kg	12.100 kg	12.100 kg

 The 'Reason for the test' section includes checkboxes for Repair, Leaktest, Maintenance, and Leakage existing (Yes/No).
 


Personalised report with company logo, installation details and photos



WTC  
Wireless  
temperature measurement

REFSCALE  
Documents the recovered  
and charged quantities

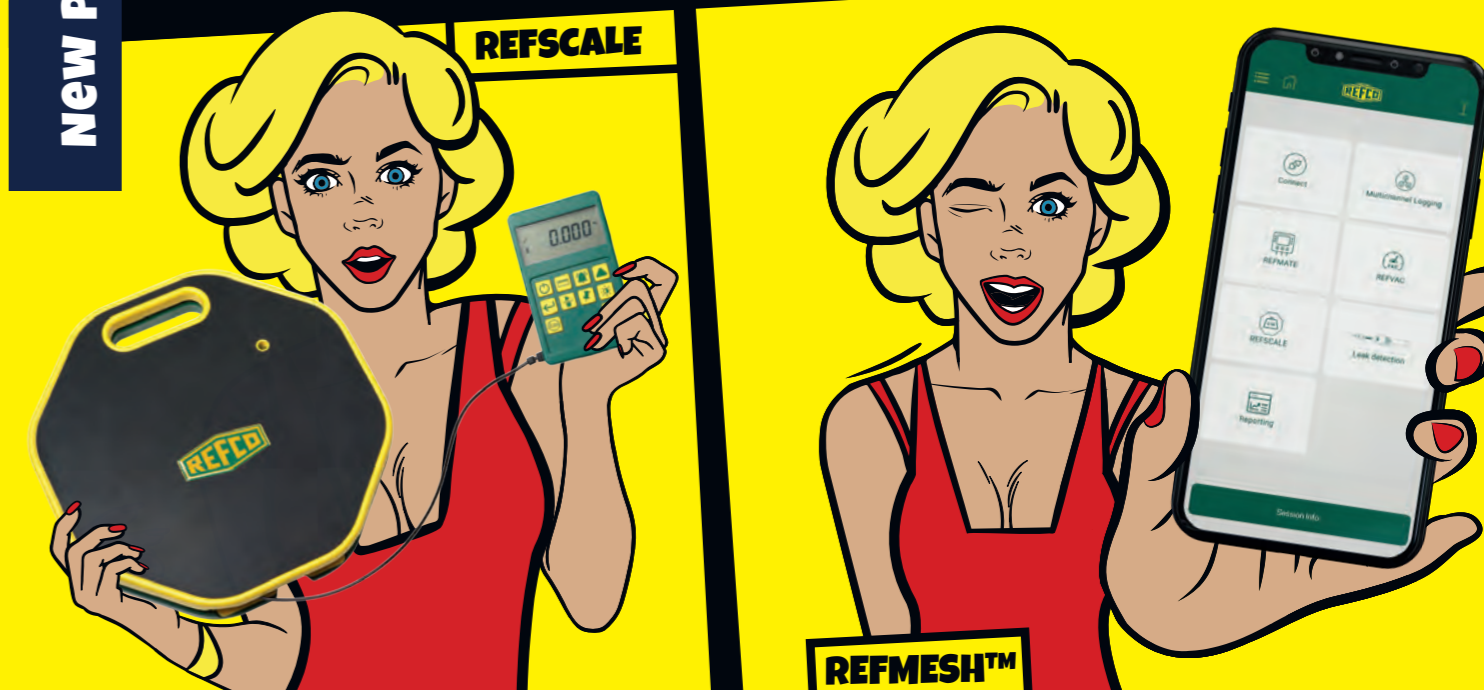
REFIMATE™  
Consolidates all  
measured values

REFVAC-RC  
Exact vacuum  
measurement

TRIRECTOR™  
3-in-1 leak  
detector

# Vol. IV Sophie's

## REFIMATE™ newsflash



Acknowledged globally



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REFMESH™ App

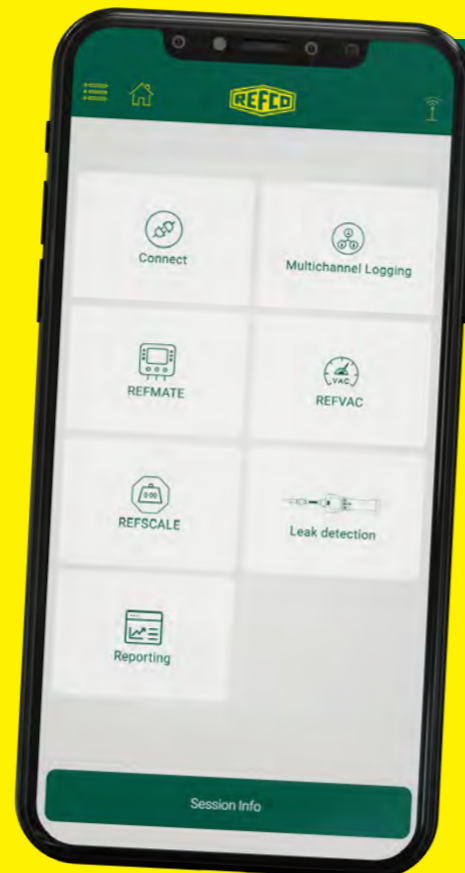
## WTC WIRELESS TEMPERATURE CLAMP

The measured temperatures are displayed on the temperature clamp, the REFIMATE™ and the REFESH™ app. The measured temperatures are used for Superheat and Subcool calculation (in the REFIMATE™).

### Features and Benefits:

- Wireless data transmission
- Strong springs for safe installation on pipes with 6 - 41 mm (1/4" - 1 5/8") diameter
- Ergonomic design for easy handling
- Simple operation with two buttons

More information



## REFESH™ IOT PLATFORM (FOR ANDROID AND IOS)

The REFESH™ app collects all data from the connected devices.

### Features and Benefits:

- Complete and simple documentation
- Intuitive menu navigation
- Clear representation of measured values and the devices
- 100 m signal range to all devices



REFESH™ App



## REFVAC-RC DIGITAL VACUUM GAUGE

The REFVAC-RC complements the REFESH™ devices to control the evacuation process. The entire navigation is done with only three buttons and is self-explanatory. The integrated display shows the vacuum achieved from atmospheric pressure.

### Features and Benefits:

- Accuracy: 5 % of reading / +/- 10 micron
- Resolution:
  - 0.1 micron (< 149.9 micron)
  - 1 micron (150 - 1'499 micron)
  - 10 micron (1'500 - 7'490 micron)
  - 100 micron (7'500 - 19'900 micron)
  - 10'000 micron (20'000 - 760'000 micron)
- Intuitive handling
- Handy and robust

More information



## REFSCALE ELECTRONIC CHARGING SCALE

The REFSCALE consists of two solid aluminium plates on which large refrigerant cylinders can be safely placed thanks to the octagonal shape. The highly sensitive measuring cell indicates the exact weight even with asymmetrically positioned cylinders. The required functions can be selected either via the remote control or via the REFESH™ app.

### Features and Benefits:

- Maximum capacity: 110 kg / 243 lb
- Accuracy 0,05 % of reading or 10 g
- Resolution:
  - 0 to 20 kg = 2 g
  - 20 to 50 kg = 5 g
  - 50 to 110 kg = 10 g
- Programmable alarm
- Integrated thread for small refrigerant cans
- Level indication in percent
- Can be calibrated on site

More information



## REFIMATE™ DIGITAL MANIFOLD

The REFIMATE™ serves as communication centre between all REFECO measuring devices in the refrigeration circuit. It communicates wirelessly with the temperature clamps, the vacuum gauge and the scale. The internal memory capacity allows long-term measurements of up to seven days on site, without having to leave a mobile phone or other recording devices on the construction site. The latest refrigerant- and firmware updates can be easily uploaded via a PC.

### Features and Benefits:

- Patented display of the measured values, optionally digital or analogue
- Large 4.3" TFT display
- Display of Superheat and Subcool
- Intuitive control with robust buttons
- High precision thanks to accuracy class 0,5
- Wireless communication with app and other devices
- All mechanical components are available as spare parts
- Lockable for long-term measurements

More information



## TRITECTOR™ 3-IN-1 LEAK DETECTOR

The TRITECTOR™ detects all common refrigerants, combustible gases and tracer gases. The adjustable sensitivity levels find even the smallest leaks, and the ambient concentration is continuously automatically or manually compensated. As soon as a leak is detected, a corresponding signal appears on the display and optionally a sound is emitted.

### Features and Benefits:

- Exchangeable sensors for refrigerants, combustible gases and tracer gases
- Automatic and manual reset of ambient concentration
- Intuitive handling
- Intelligent electronics that automatically detect the connected sensor
- High-quality LCD display

More information

