MONTEC
Digital Manifold

For installation and service in the field of refrigeration and air conditioning.

MONTEC
uncompromising quality

Developed for demanding applications in the field of refrigeration and air conditioning:

- Integrated, robust vacuum sensor
- All refrigerants, incl. A3, like Propane R290
- Strong battery for long-term measurements
- Bluetooth-accessories (temperature-clamp, external pressure sensor)
- App for unit- and accessories-control, softwareupdate and measuring protocol

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Large 4" IPS-TFT graphic display for optimal readability, even in sunlight
- all measuring values at a glance
- clearly structured "Hot" and "Cold" indications in red and blue
- self-explanatory menu structure

Very large rechargeable battery for more than 20 h operating time at 100 % display brightness

Large unit memory for many measurements. Quite suitablet for long-term measurements.

During long-term measurements the display switches off into the energy saving mode. A blinking LED informs well visibly about the units status.

Robust, fiberglas reinforced housing with protection class IP54

Industrial keyboard, also suitable for glove handling

Softgrip

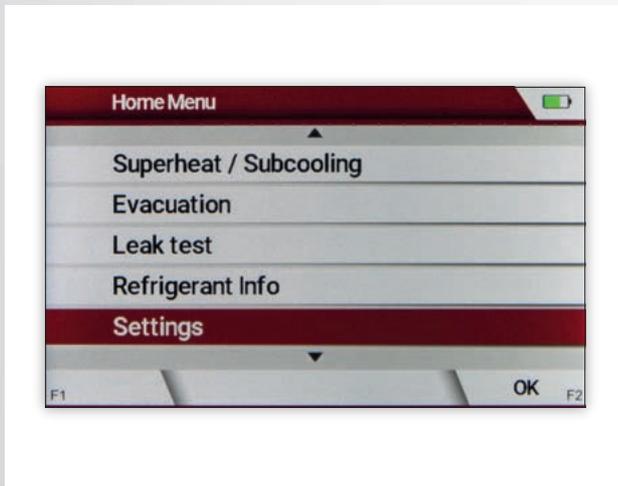Integrated vacuum sensor pressure resistand up to 60 bar

Sight glas made of genuine glas

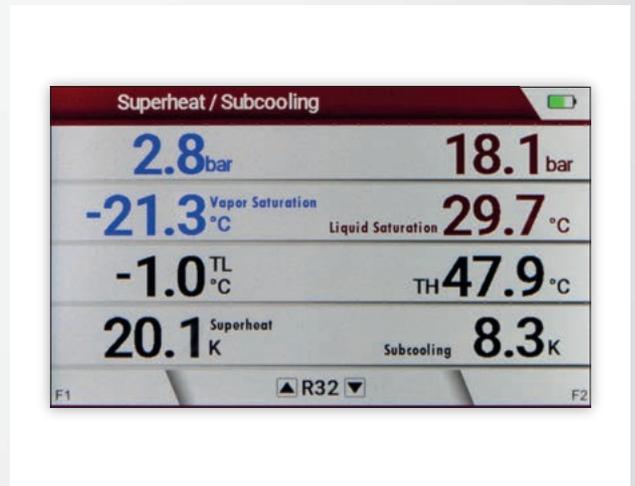Front area of the connection plate: Clear assignment of the 4 connections for hose parking

Rear area of the connection plate: Assignment of the 4 connections (3x filling hose + 1x vacuum hose)

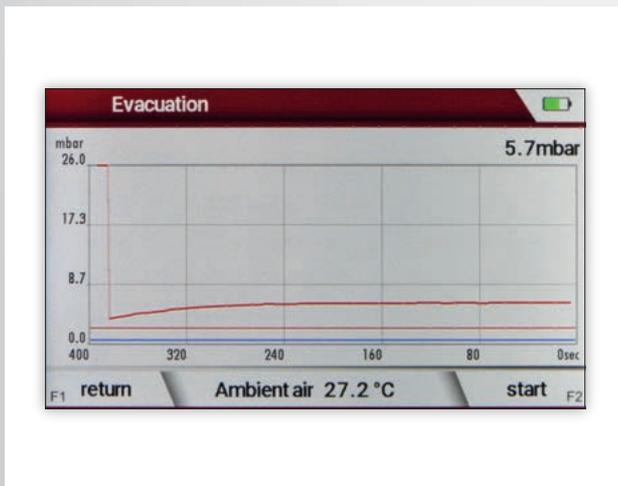Softgrip

The unit in detail
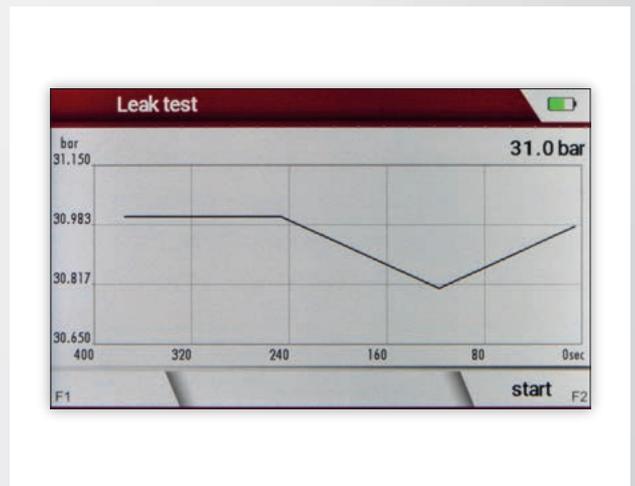## Screenshots of typical display outputs

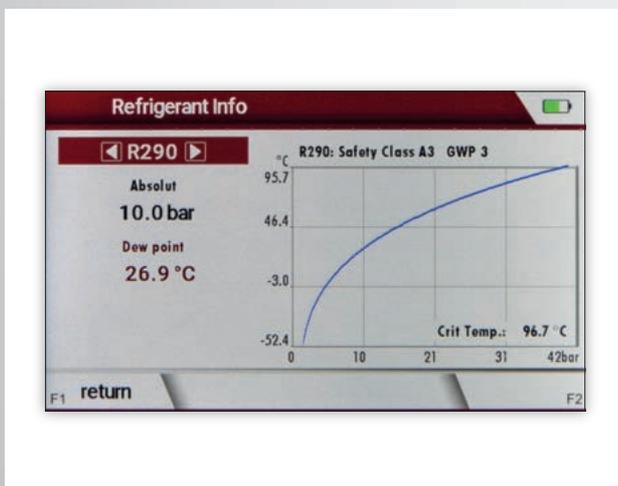Clearly structured basic menu

Up to 8 measuring values on one screen.
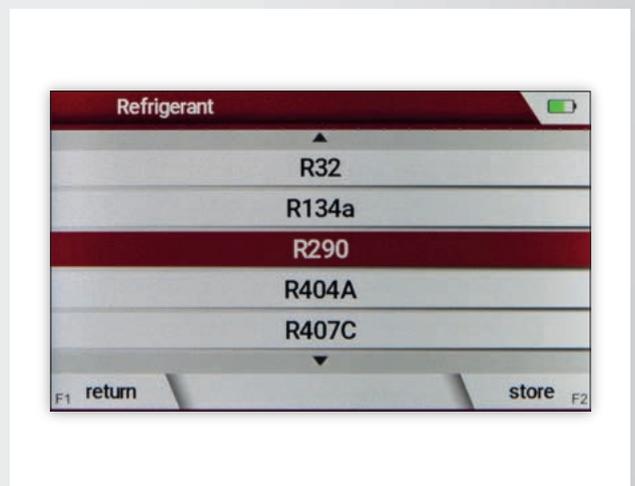All important values at a glance.

Measuring value evacuation, including graphical
progression curve

Measuring value leak test, including graphical
progression curve

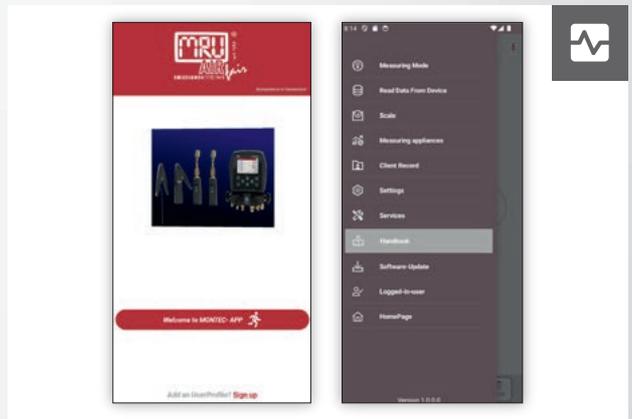Important information about refrigerants stored in unit

Large selection of refrigerants

A concept overview

High quality, robust valve block as well as hose connectors

Separate areas for functional- and parking connections. Separate parking connections prevent soiling of the hose set.

MRU App
for refrigerant updates and measuring protocols

Temperature clamps

For measurments at metal- or plastic pipes, wired or wireless with Bluetooth-technology inAppor at MONTEC

Refrigerant scale
Capacity up to 100 kg and bottle bottoms up to Ø 250 mm

Pressure transmitter

With Bluetooth for wireless use, simple measurement of high- and low pressure, connection SAE ¼"

Modular transportation case

With foam inserts for unit, accessories or scale, optional adapterplate for system „Sortimo LBOXX and Tanos Systainer"

MONTEC
Technical Data

Measured values	Measuring range	Accuracy
Temperature measurement T1 / T2	–40 ... 999 °C with thermo couple Typ K	±1° C or 0.5 % reading*
Pressure	1.00 ... 50.00 bar	±0,5 % reading* + 0.1 bar
Vacuum	0 ... 26.00 mbar	±10 % reading* + 0.010 mbar

Temperature clamp	Measuring range	Accuracy	Connections	Service life	Dimensions	Weight
WLT	40 ... +150° C	± 2°/0.5 %	2 x Typ K	160 h	38 x 145 x 90 mm	0.17 kg

Pressure transmitter	Measuring range	Accuracy	Connections	Service life	Dimensions	Weight
WLP	0 ... 50 bar	± 0.3 bar / 2 %	SAE 1/4" male	160 h	38 x 193 x 36 mm	0.28 kg

Refrigerant scale	Measuring range	Accuracy	Power supply	Housing	Dimensions	Weight
Scale	0 ... 100 kg	±(0.05 % V. MW + 10 g)	5 x 1.5 V AA for 80 h	Aluminium	280 x 75 x 280 mm	3.17 kg

General Technical Data	
Operating temperature	–20 ... +50 °C, max. 95 % RF, non condensing
Storing temperature	–20 ... +50 °C
Data memory	256 MB
Interfaces	USB.C, Bluetooth™, (Data transfer to Smartphone, Tablet or PC)
Internal power supply	Lithium-Ion, >20 h (100 % brightness), up to 40 h at 50 %, up to 150 h at display off
External power supply	Charger 100 ... 240 V AC / 5 V DC, 1.200 mA
Connections	Valve block: 7 mm, Port SAE 3/8": 7 mm, Port SAE 1/4": 5 mm
Weight	appr. 1.75 kg
Dimensions	(W x H x D) 190 x 208 x 89 mm
Housing	PA6GF30, IP 54
Refrigerants	R11, R12, R13, R22, R23, R32, R114, R123, R124, R125, R134A, R236FA, R245FA, R290, R401A, R401B, R402A, R402B, R403B, R404A, R406A, R407A, R407C, R407F, R407H, R408A, R409A, R410A, R413A, R414B, R416A, R417A, R417C, R420A, R421A, R422A, R422B, R422C, R422D, R424A, R427A, R428A, R434A, R438A, R442A, R444B, R448A, R449A, R450A, R452A, R452B, R453A, R454A, R454B, R454C, R455A, R458A, R500, R502, R503, R507, R508B, R513A, R600, R600A, R601, R601A, R718, R744, R1233ZD(E), R1234YF, R1234ZE(E)

*Data subject to change without notice | *which ever is larger*

MRU – Competence in gas analysis. Since 1984.

MRU representative: