

Refrigerants Identifier TA400A for HVAC



- R12
- R22
- R32
- R125
- R134a
- R143a
- R404A
- R407C
- R407E
- R408A
- R410A
- R507A

Refrigerants Identifier TA400A for HVAC

Identify the refrigerant in 2.5 minutes!

● Single Refrigerants

● Mixed Refrigerants

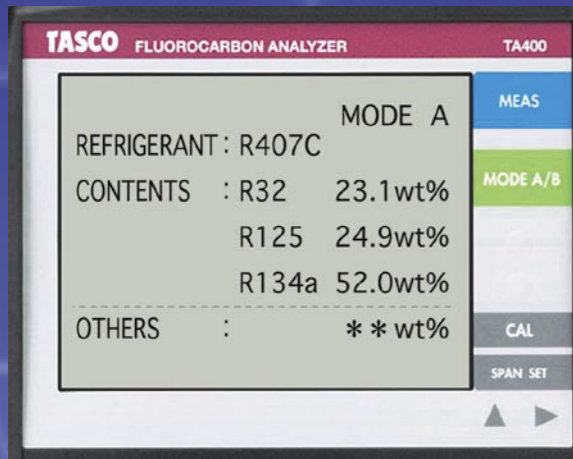
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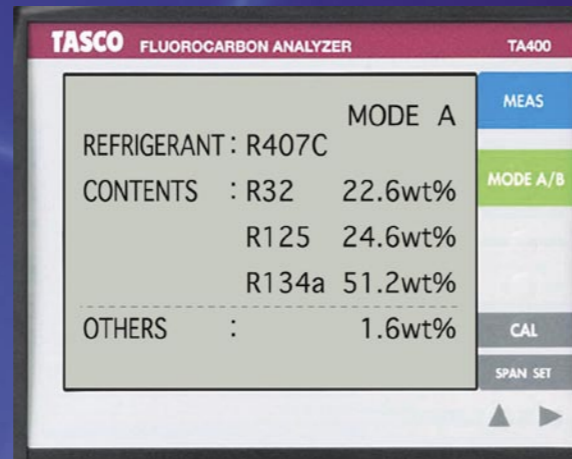
MODE A

Sample A-1



When the sample is any of the single or mixed refrigerants stated in the specifications, the display will show the mixed ratio or the purity of the refrigerant as is shown in Sample A-1.

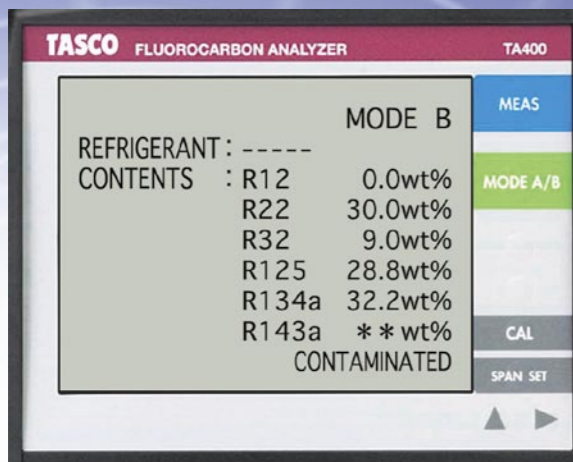
Sample A-2



When the sample is out of the specifications, it will be shown as "OTHERS" as is shown in Sample A-2.

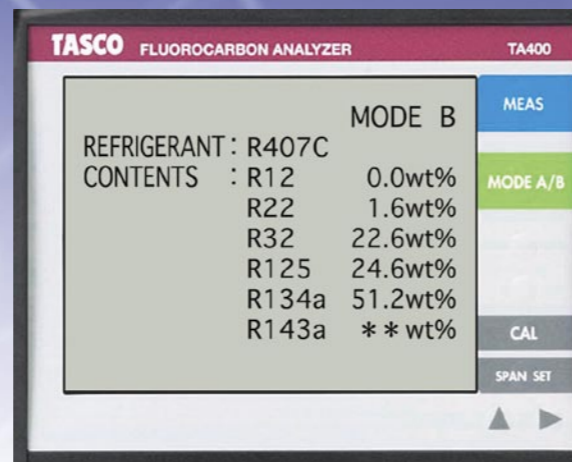
MODE B

Sample B-1



When the sample is a mixed refrigerant out of the specifications, the ratio of the fluorocarbon gases in the specifications will be shown in the display as is in Sample B-1.

Sample B-2



To check the fluorocarbon ratio, the display can be changed from Mode A to Mode B as is shown in Sample B-2.

NB: Combustible gases such as hydrocarbon should not be applied to TA400A. As no sensor for the combustible gases is built in TA400A, there is a high risk of a possible explosion of the exhausted combustible gases on contact with air after measurement. TA400A is designed to detect the single and mixed refrigerants listed in the brochure. When refrigerants other than the listed are contained in a sample, the ratio of the refrigerants will be automatically divided proportionally among the detected single refrigerants so that the total percentage of 100% may be obtained as the result. There is also a possibility that the interference of the non-identified gas would affect the measured results.

The specifications are subject to change without a prior notice.

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- For single refrigerants (CFC - R12, HCFC - R22, HFC - R32, R125, R134a and R143a) and mixed refrigerants (R404A, R407C, R407E, R408A, R410A and R507A)
- Portable. Convenient in field use
- Only 2.5 minutes approximately from sampling to data displaying
- Ideal for mixed refrigerant production, collection and recycle

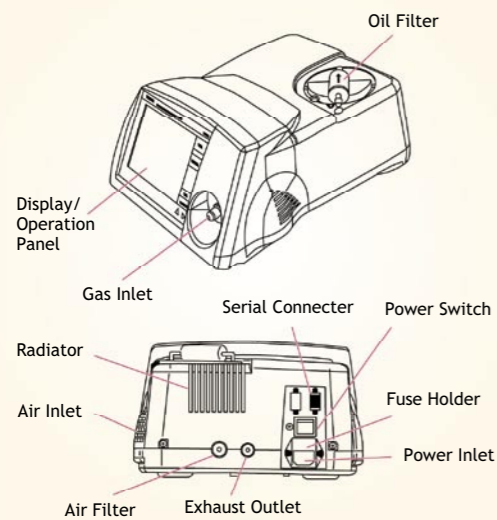
TA400A is simple in operation. It does not call for a skilled operator unlike a sophisticated gas chromatography equipment. All you will need to take care in use will be replacements of air and oil filters when the color has changed.

Specifications

Article Number	TA400A
Measuring Principle	NDIR (Non Dispersive Infrared Absorption) Method
Objective Refrigerants	Single Refrigerant : R12, R22, R32, R125, R134a, R143a Mixed Refrigerant : R404A, R407C, R407E, R408A, R410A, R507A
Minimum Display Digit	0.1 wt %
Display	Liquid Crystal Display
Measurement Time	Within 2.5 minutes / sample
Accuracy	+/- 0.5 wt % The measurement accuracy digit is the accuracy after the unit is calibrated. The measurement accuracy is within +/- 0.5 wt %.
Contamination Display	Measurable if the purity of the refrigerant is above 98 wt % or if the discrepancy of the component ratio is within +/- 2 wt %. When purity is less than 98 wt %, the display will show "CONTAMINATED".
Warm-up Time	5 minutes
Influence of Electric Alteration	+/- 1 % against 100 to 230 VAC +/- 10 %
Inlet	1/4 FL (5/16 UNF - 20)
Amount of Flow	2 L / min (25 °C, intake 40 seconds at 1 atm)
Pressure Intake of Refrigerant	0.3 ~ 2.5 Mpa
Operating Temperature	15 ~ 35 °C
Operating Humidity	90 % or lower RH
Power Supply	AC100 V ~ 240 V +/- 10 % (50 / 60 Hz)
Energy Consumption	About 150 VA
Outside Measurement	260 (W) x 357 (D) x 157 (H) mm
Total Weight	5 kg
Data Input / Output	Digital Input / Output RS232C, Printer Output RS232C
Contents	1) TA400A Unit x 1 2) Electric Cord (3 m) x 1 3) Oil Filter x 1 4) Earth (3 m) x 1 5) Cover for Unit x 1 6) Air Cap Filter x 20 7) Fuse 2 A (T) x 1 8) Regulator x 1 9) Quick Coupler Ball Valve x 1 10) Charging Hose x 1

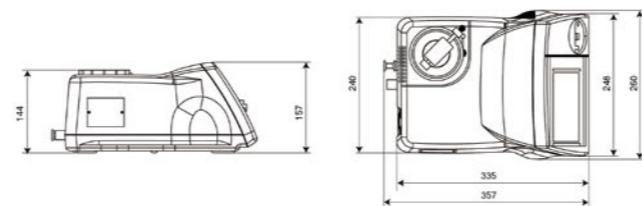
Parts Description and Functions

TA400A





- MEAS** Push, and the measurement will start.
- MODE A/B** To change the mode display from A to B.
- CAL** To change to calibration selection display.
- SPAN SET** To change the display from the calibration selection display to mixed refrigerant ratio display.
- ▶** To select calibration gas • To select mixed gas ratio • To set contrast of the display darker
- ▲** To select calibration gas • To select mixed gas ratio and to change the digits in the calibration display • To set contrast of the display brighter

NB: This unit does not include a personal computer, printer and cable connector. The accuracy of the measurement depends on the calibration refrigerant. The calibration refrigerant is needed for both single and mixed refrigerants. The calibration is required prior to every analysis of R408A. Please procure the general grade calibration gases which are sold in sealed packages of disposable cylinders locally. For the gases other than R408A, the unit has already been calibrated before shipment from Japan. The unit will switch itself back to AUTO ZERO after each measurement, but please avoid sudden temperature change. The display is in English.



Unit: mm

TA400-10 Spare Oil Filter	TA400-11 Spare Air Filter
	
Replacement will be required when the original white color has changed to pink.	Replacement will be required when the original white color has changed to gray.