Empowering you to work smarter

MANIFOLD GAUGE

N2A4A
N2A4B

User Manual

Failure to follow warnings could result in death or serious injury.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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Dear User,

Thank you for choosing NAVAC Product. For best result and right way to use it, please read this operating manual carefully before using. We suggest that you'd better keep this manual with the product or a place where you can easily find for later reference.

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Safety Guide

⚠ WARNING

1.1 The mainfold has been designed specially to measure pressure in refrigeration equipment. The mainfold may only be used by trained technicians.

1.2 It must not be used for other than refrigeration applications. The manifold is not suitable for liquids or gases other than those indicated on the gauge.

1.3 It must not be used with pressures higher than the pressure scale indicated on the high-pressure gauge of the manifold.

1.4 Safe goggles and gloves must be worn at all time during the use of the mainfold.

1.5 The gauges are correctly calibrated at the factory before shipment. If calibration is required, remove the plastic plug on a sight glass and insert a small flat screwdriver into the opening to adjusting screw for calibration.

1.6 Clean up the connection interfaces in order to prevent contamination entering to refrigeration system.

1.7 The charging hoses must be checked with oil residue cleaned off before each use. A visible check is also necessary to ensure that the hoses and the connection are undamaged and tight.

1.8 Do not contact refrigerant directly as it may cause personal injury.

1.9 Do not vent refrigerant into the atmosphere.

1.10 The seals and gaskets of the manifold gauges are parts subject to the wear and tear of use, and must therefore be replaced from time to time. The manifold is to be tested regularly to ensure the valves are still tight.

1.11 Make sure to use the right pressure gauge.

1.12 Mainfolds are high precision measuring instruments. After use, disconnect all hoses from the system and open valves and then store the mainfold always in the carrying case.

1.13 Dispose of the used manifold gauges according to the local rules and regulations.

Parts and Specifications

NO.	Name	NO.	Name
1	Hook	6	High pressure valve
2	High pressure gauge	7	Low pressure valve
3	Cap	8	Hose connector
4	Zero adjusting screw	9	Low pressure gauge
5	Sight glass	10	Sheath

Technical parameter

Model	N2A4A	N2A4B
Refrigerant Type	R-32 R-410A R-22 R-410a	R-454B R-32 R-410A R-22
Gauge Diameter	Φ3-1/8"	Φ3-1/8"
Pressure Range	-30 inHg to 800 psi -30 inHg to 500 psi	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	No	No

Operation Instruciton

1. Pressure testing

1.1 Close both valves.
1.2 Connect blue hose to the low side of system, connect red hose to the high side of system.
1.3 Run the system, read the testing pressure indicated on manifold gauges.
1.4 After testing, turn off the system. Then disconnect the hoses from the system and open all valves, make sure not vent refrigerant into the atmosphere.
1.5 In order to prevent venting the refrigerant into the atmosphere, you can use a NAVAC recovery machine to recover any refrigerant remained in the hoses or mainfold gauges.

2. Evacuation of a system

2.1 Connect blue hose to the low side of system, connect red hose to the high side of system and connect yellow hose to vacuum pump.
2.2 Open both valves.
2.3 Turn on the vacuum pump.
2.4 Check pressure on low pressure gauge for 3 to 5 minutes, if the desired vacuum is reached, close the valves and turn off the vacuum pump.
2.5 Observe the pressure on the low-pressure gauge, if the pointer sticks to -30 inHg for 3 to 5 minutes, the system evacuation is completed. If not, repeat the steps from 2.2 to 2.4.

3. Charging a system after evacuation

3.1 Keep valve closed, disconnect the yellow hose from the vacuum pump and connect this hose to a refrigerant container.
3.2 Open valve on the refrigerant container.
3.3 Open the manifold valves. The system is now being charged with refrigerant. Check the correct quantity of refrigerant with a charging scale (such as a NAVAC NRS2i01 wireless scale), and observe the pressure on the gauge. If the refrigerant flow is too slow or insufficient, the system compressor can be turned on to speed up the process.
3.4 If the correct charging amount has been reached, close valves.
3.5 After testing, turn off the system. Then disconnect the hoses from the system and open all valves while making sure not to vent refrigerant into the atmosphere.

Maintenance

1.1 Do not apply excessive force when turning valves.
1.2 Manifolds are high precision measuring instruments. After use, always store the manifold gauges in the carry case.
1.3 For maintenance and repair of the manifold, contact authorized NAVAC distributors. Product warranty would be voided if it is disassembled by unauthorized individuals.

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