

PRO+
SERIES

NAVAC

Empowering you to work smarter

**N2A4
N2A4B
N2A4C
N2A4D
N2A4E
Pro Plus Manifold Gauge
User Manual**



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

**SAVE THIS MANUAL
FOR FUTURE REFERENCE**

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Dear User,

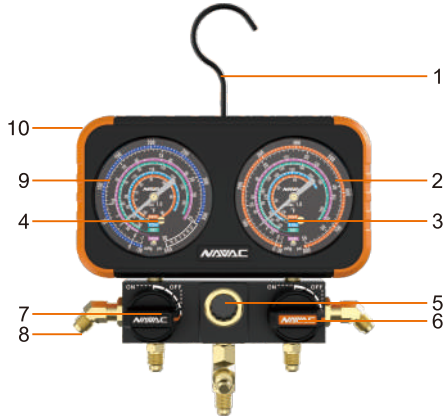
Thank you for choosing NAVAC Product. For best result and proper operation, please read this operating manual carefully before using. We suggest that keeping this manual with the product or a place where you can easily find for later reference.

Safety Guide

WARNING

- 1.1 The manifold has been designed specially to measure pressure in refrigeration equipment. The manifold may only be used by trained technicians.
- 1.2 It must not be used with pressures higher than the pressure scale indicated on the high-pressure gauge of the manifold.
- 1.3 Safety goggles and gloves must be worn at all time during the use of the manifold.
- 1.4 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.
- 1.5 Clean up the connection interfaces in order to prevent contamination entering to refrigeration system.
- 1.6 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.
- 1.7 Do not contact refrigerant directly as it may cause personal injury.
- 1.8 Do not vent refrigerant into the atmosphere.
- 1.9 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.
- 1.10 Make sure to use the right pressure gauge.
- 1.11 Manifolds are high precision measuring instruments. After use, disconnect all hoses from the system and open valves and then store the manifold always in the carrying case.
- 1.12 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	Calibration screw cap	8	Hose connector
4	Calibration screw	9	Low pressure gauge
5	Sight glass	10	Cover

Technical parameter

Model	Refrigerant Type	Gauge Diameter	Pressure Range
N2A4	R-410A R-22 R-134a R-404A	Φ3-1/8"	-30 inHg to 800 psi -30 inHg to 500 psi
N2A4B	R-454B R-32 R-410A R-22		
N2A4C	R-32 R-454B R-22		
N2A4D	R-22 R-410A R-404A		
N2A4E	R-134a R-404A R-410A		

Operation Instruction

Pressure test

- 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, refrigerant into the atmosphere.
- 1.5 To avoid de minimis, use NAVAC recovery machine to capture the remaining refrigerant in the hoses and manifold gauge.

Evacuation

- 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 until the desired vacuum is reached, close the valves and turn off the vacuum pump.
- 2.5 For decay test, observe the pressure on the low-pressure gauge to see if the pointer sticks to -30inHg for a desired decay test time.

