



PRO+
SERIES

N4A4H

N4A4

N4A4B

**Pro Plus Manifold Gauge, 4-Valve
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,

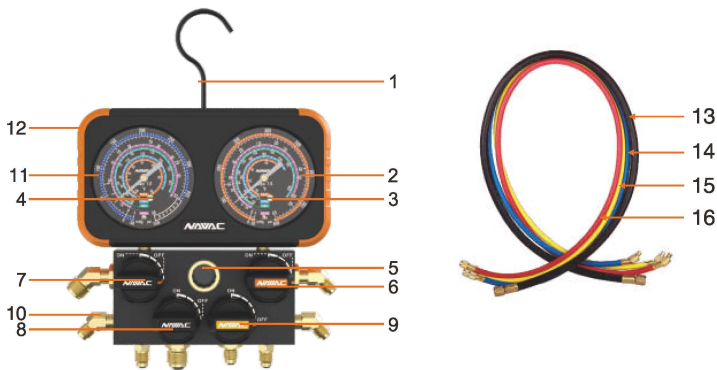
Thank you for choosing NAVAC Product. For best result and proper operation, please read this operating manual carefully before using. We suggest that keeping this manual with the product or a place where you can easily find for later reference.

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	9	Refrigerant tank valve
2	High pressure gauge	10	Hose holder
3	Calibration screw cap	11	Low pressure gauge
4	Calibration screw	12	Cover
5	Sight glass	13	3/8" Black hose (N4A4H)
6	High pressure valve	14	1/4" Blue hose (N4A4H)
7	Low pressure valve	15	1/4" Yellow hose (N4A4H)
8	Vacuum valve	16	1/4" Red hose (N4A4H)

Technical parameter

Model	Refrigerant Type				Gauge Diameter	Pressure Range
N4A4H	R-410A	R-22	R-134a	R-404A	Φ3-1/8"	-30 inHg to 800 psi
N4A4	R-410A	R-22	R-134a	R-404A		-30 inHg to 500 psi
N4A4B	R-454B	R-32	R-410A	R-22		

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, 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 manifold gauges.

Evacuation

- 2.1 Connect blue hose to the low side of system, connect red hose to the high side of system and connect black hose to vacuum pump.
- 2.2 Open three 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.

