



## **MAC9032/34 SPECIFICATION GUIDE**

Unit shall be a NorthWind portable, self-contained, packaged air cooled air conditioner/spot cooler. Unit shall have a capacity of 89,400 BTU/HR at 95°DB/83°WB at 60% RH and 90,750 BTU/HR at 115°DB/95°WB at 50% RH, with an operating temperature range of 50°F to 115°F or greater. Unit shall be able to operate at altitudes to 6000 feet above sea level without evaporator icing at both high and low fan speeds.

Cabinet shall utilize “corner post” construction with 11 gauge galvanized base pan, corner posts and secondary partition, support beams and internally lined with sound absorbent thermal insulation where required. 18 gauge panels shall be attached to framing with machine screws and threaded (PEM) fasteners, easy to remove for internal servicing. Cabinet shall contain an electric service cord storage compartment, and an easy to remove electrical access panel. Finish shall consist of UL Recognized, smooth glossy, weather resistant, exterior, non-photo chemically reactive, lead free, TGIC Polyester Powder Coating. Attached to cabinet base pan are four, 6 inch diameter cushioned wheel swivel casters with brakes. Rear casters to have pin lockable swivels for safer handling and mobility.

Refrigeration system shall include a balanced, cleanable, 4 row, 10 circuit, enhanced fin, rifled tube, 14 FPI evaporator coil with a matched thermostatic expansion valve (externally equalized) for precise refrigerant control, and a hot gas bypass valve to prevent coil icing and extend operating range to 50°F. The condenser coil shall include enhanced fin, rifled tube, 4 row, 8 circuit, headered design, 14 FPI, cleanable with easy access for servicing. The compressor shall be a hermetic scroll and equipped with a thermal overload, time delay relay, and a manual reset high pressure switch. A phase monitor shall provide phase reversal and phase loss protection to the compressor, evaporator and condenser blower. If the supply wiring is correctly phased, the green power ready light on the control panel and phase monitor will illuminate. If the supply wiring is incorrectly phased, the green power ready light will not illuminate, the red light on the phase monitor will illuminate, and the unit will not operate.

Unit shall be equipped with a condenser fan cycle switch mounted in the liquid line to cycle condenser blower based on demand (pressure). The switch shall turn the condenser blower on at 260 PSIG liquid line pressure and turn it off at 160 PSIG. The high pressure control shall open (turn off) the compressor/condenser blower if the high side pressure reaches 425 PSIG and shall require manual resetting. Both controls shall be mounted on schrader access valves allowing replacement without recovering the refrigerant. Additional schrader access valves are provided on the liquid and suction lines for gauges /servicing located in the compartment behind the front access door. Unit shall operate up to 115°F ambient temperature.

Upstream of each coil, behind the aluminum grille, is a 1/4 inch low pressure drop, UV protected, electrostatic filter. A lift out filter and frame assembly provides easy accessibility for cleaning.



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Unit shall be equipped with a condensate pump, located behind a hinged and latched front access door. The pump shall be capable of 20 ft vertical lift with a built-in check valve, high float safety switch and pre-wired to unit electrical system. A red indicator light on the control panel shall light if the pump safety float is actuated. 20 feet of 3/8 I.D. drain hose shall be supplied with unit. Drain hose shall exit the cabinet through the base pan, next to the pump for easy installation and service. No additional electrical wiring or switching shall be required.

Operator controls shall include an electromechanical thermostat with dial, number graduations, and a remote sensing bulb located in front of the evaporator coil to read space temperature. Operating range of the thermostat shall be from approximately 50°F to 95°F. A two position rocker switch shall control high and low speed evaporator fan operation. Unit shall be equipped with a switch to provide the user the choice to cycle the evaporator fan with the compressor, or run constant on. It shall be located in the service compartment behind the front access door.

Unit shall have a dedicated evaporator blower assembly utilizing a 2 speed, belt drive, drip proof motor with overload protection . Low speed shall be a reduction of 40%. Static capacity shall be capable of delivering discharge air through the standard grille, or through 2, 10-inch semi-rigid ducts 100 equivalent feet.

Unit shall have a dedicated condenser blower assembly utilizing a single speed, belt drive, drip proof motor with overload protection. Static capacity shall be capable of delivering air through the standard 16 inch diameter discharge flanges or through 2, 16 inch flex ducts up to 100 equivalent feet.

Power supply cord shall be 10 gauge 4 conductor, 6 feet long, strain relief equipped and must be hard wired to power source.