

Unionaire PUQ012HR5R0WPK 12000 BTU Heat Pump Compressor Technical Specifications and R22 System Overview

Category: Air Conditioner

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The Unionaire PUQ012HR5R0WPK is a robust 12,000 BTU reversible heat pump system designed for demanding climates. Utilizing an R22 rotary compressor, this unit balances efficiency and reliability. Our technical breakdown covers electrical parameters, pressure ratings, and compatible replacements, providing field workers with the essential data needed for professional maintenance, system repairs, and component sourcing.

Unionaire G+ ITWG 022 R5 Air Conditioner Specifications, 21500 BTU Cooling Capacity, Technical Manual and Installation Guide

Category: Air Conditioner, Mbsmpro

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The Unionaire G+ ITWG 022 R5 represents a robust cooling solution engineered for demanding Mediterranean and Middle Eastern climates. Delivering a potent 21,500 BTU/Hr cooling capacity, this Egyptian-manufactured indoor unit balances high-volume airflow with structural durability. Designed for 220-240V/50Hz systems, it features an IPX4 rating and a compact 12.5 kg chassis for versatile wall-mounted installation.

TECUMSEH, DAIKIN, MATSUSHITA, HITACHI & TOSHIBA MODELS

Category: Refrigeration

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Understanding refrigeration compressor specifications is essential for proper HVAC system selection and maintenance. This comprehensive guide covers five major compressor brands—Tecumseh, Daikin, Matsushita, Hitachi, and Toshiba—with detailed technical data on cooling capacity, displacement, voltage requirements, and applications.

Tecumseh Commercial Refrigeration Compressors

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Tecumseh commercial compressors range from 1/9 HP (230 W) to 3 HP (4,000 W), delivering refrigeration capacities from 278 W to 6,973 W across R404A, R134a, and legacy refrigerants. This complete technical guide provides exact horsepower, input wattage, evaporating ranges, and application types for all ten major models used in supermarkets, walk-ins, and retail coolers.

Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

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Refrigerant	Standing Pressure	Suction Pressure	Discharge Pressure	Boiling Point
R22	100-110 psig	50-60 psig	180-200 psig	-40.8°F
R134a	90-100 psig	40-50 psig	160-180 psig	-26.1°F
R32	110-120 psig	55-65 psig	190-210 psig	-50.7°F
R404A	100-110 psig	50-60 psig	180-200 psig	-45.5°F
R407C	100-110 psig	50-60 psig	180-200 psig	-45.5°F
R410A	120-130 psig	60-70 psig	210-230 psig	-51.6°F
R290	100-110 psig	50-60 psig	180-200 psig	-42.1°F
R600a	100-110 psig	50-60 psig	180-200 psig	-42.1°F
R417A	100-110 psig	50-60 psig	180-200 psig	-42.1°F

Explore a practical refrigerant pressure chart with typical standing, suction and discharge pressures plus boiling points for R22, R134a, R32, R404A, R407C, R410A, R290, R600a and R417A.