

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

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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	Boiling Point (°F)	Boiling Point (°C)	Standing Pressure (PSI)	Suction Pressure (PSI)	Discharge Pressure (PSI)	Specific Gravity	Specific Heat
R22	104.4	40	100.0	100.0	100.0	1.000	0.500
R134a	107.6	42	100.0	100.0	100.0	1.000	0.500
R32	107.6	42	100.0	100.0	100.0	1.000	0.500
R404A	107.6	42	100.0	100.0	100.0	1.000	0.500
R407C	107.6	42	100.0	100.0	100.0	1.000	0.500
R410A	107.6	42	100.0	100.0	100.0	1.000	0.500
R290	107.6	42	100.0	100.0	100.0	1.000	0.500
R600a	107.6	42	100.0	100.0	100.0	1.000	0.500
R417A	107.6	42	100.0	100.0	100.0	1.000	0.500

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.