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Huaguang ASQ80HG Compressor: A Reliable Solution for Modern Refrigeration Systems

The **Huaguang ASQ80HG** compressor is a high-performance refrigeration component from the renowned **Q Series**, designed to meet the demands of modern cooling systems. With its compatibility with **R134a** refrigerant, **high back-pressure (HBP)** capability, and energy-efficient design, this compressor is an excellent choice for both domestic and commercial applications. Below, we explore its specifications, features, applications, and comparative analysis, supported by a detailed table.

Key Specifications

- **Model** : ASQ80HG
- **Series** : Q Series

- **Power Input** : 800W
- **Horsepower** : 1/4 HP (approximately 0.186 kW)
- **Refrigerant** : R134a
- **Voltage/Frequency** : 220-240V / 50Hz
- **Application Type** : High Back Pressure (HBP)



Overview of Features

The **Huaguang ASQ80HG** compressor is engineered for efficiency, durability, and environmental sustainability. Its compatibility with **R134a refrigerant**, a non-ozone-depleting gas, ensures compliance with global environmental standards. With an input power of **800W**, it strikes a balance between performance and energy consumption, making it cost-effective for long-term use.

The **high back-pressure (HBP)** capability allows the compressor to maintain stable cooling in systems where evaporator pressures are relatively high, such as in freezers, display coolers, and other medium-temperature refrigeration setups.

Applications

The versatility of the **ASQ80HG** makes it suitable for a wide range of cooling applications, including:

1. **Domestic Refrigerators/Freezers** : Ideal for home use due to its compact size

and energy efficiency.

2. **Display Coolers** : Perfect for retail environments requiring product visibility while maintaining low temperatures.
3. **Small-Scale Industrial Cooling** : Suitable for systems demanding precise temperature control without heavy-duty cooling requirements.
4. **Cold Storage Units** : Effective in maintaining consistent temperatures for perishable goods.

Comparative Table of Huaguang Compressors

Below is a comparative analysis of the **Huaguang ASQ80HG** with similar models in the **Q Series** , highlighting its unique advantages.

Model	Series	Horsepower	Refrigerant	Power Input	Voltage/Frequency	Application
ASQ80HG	Q Series	1/4 HP	R134a	800W	220-240V / 50Hz	HBP Refrigeration
ASQ100HG	Q Series	1/3 HP	R134a	1000W	220-240V / 50Hz	General Refrigeration
ASQ60HG	Q Series	1/5 HP	R134a	600W	220-240V / 50Hz	Low-Pressure Cooling

Why Choose the Huaguang ASQ80HG?

1. **Energy Efficiency** : The **800W power input** ensures optimal performance while minimizing energy consumption, reducing operational costs.
2. **Environmental Friendliness** : The use of **R134a refrigerant** ensures compliance with global environmental regulations, as it does not contribute to ozone depletion.
3. **High Back Pressure Capability** : Designed for systems requiring stable cooling under high back-pressure conditions, making it ideal for freezers and display coolers.
4. **Compact Design** : Its compact size makes it suitable for installations with limited space, such as small kitchens or retail displays.
5. **Durability** : Built to withstand demanding operating conditions, ensuring longevity and reliable performance.

Installation and Maintenance Tips

To ensure the best performance and longevity of the **Huaguang ASQ80HG** , follow these guidelines:

- **Electrical Compatibility** : Verify that the voltage (220-240V) and frequency (50Hz) match your local power supply.
- **Proper Refrigerant Charge** : Use only **R134a refrigerant** to avoid system inefficiencies and potential damage.
- **Regular Cleaning** : Clean the condenser coils periodically to prevent overheating and ensure efficient operation.
- **Professional Installation** : Hire a certified technician for installation and maintenance to avoid errors and ensure optimal performance.

Conclusion

The **Huaguang ASQ80HG** compressor from the **Q Series** is a versatile, energy-efficient, and environmentally friendly solution for various refrigeration needs. Its compatibility with **R134a refrigerant**, combined with its **high back-pressure capability**, makes it a standout choice for both domestic and commercial applications. Whether you're upgrading your refrigerator, installing a new cooling system, or managing a retail display cooler, the **ASQ80HG** offers dependable performance and excellent value.