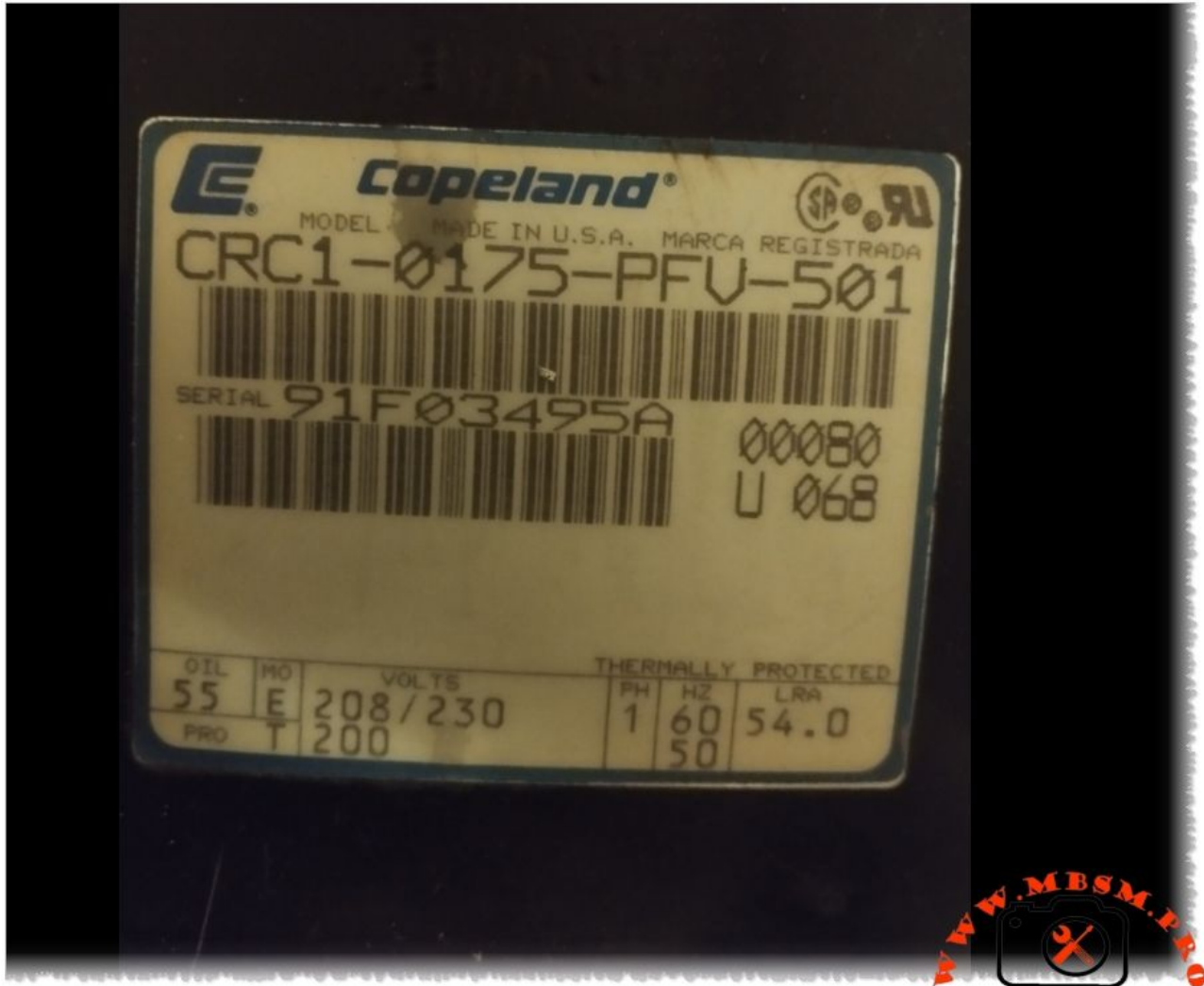


Mbsm.pro, Compressor, copeland,
CRC1-0175-PFU-501, 2 ton, 2.25 hp,
r22, compatible, ESAH-18CH, 18000
btu, 1920 w

Category: compressor

written by www.mbsm.pro | 10 February 2025



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The information you provided describes a **Copeland compressor** with the model number **CRC1-0175-PFU-501**, which is a **2-ton, 2.25 HP** unit designed for **R22 refrigerant**. It is compatible with an **ESAH-18CH** system, which is an **18,000 BTU (1.5-ton)** unit with a power input of **1920 watts**. Here's a breakdown of the details:

Compressor Specifications:

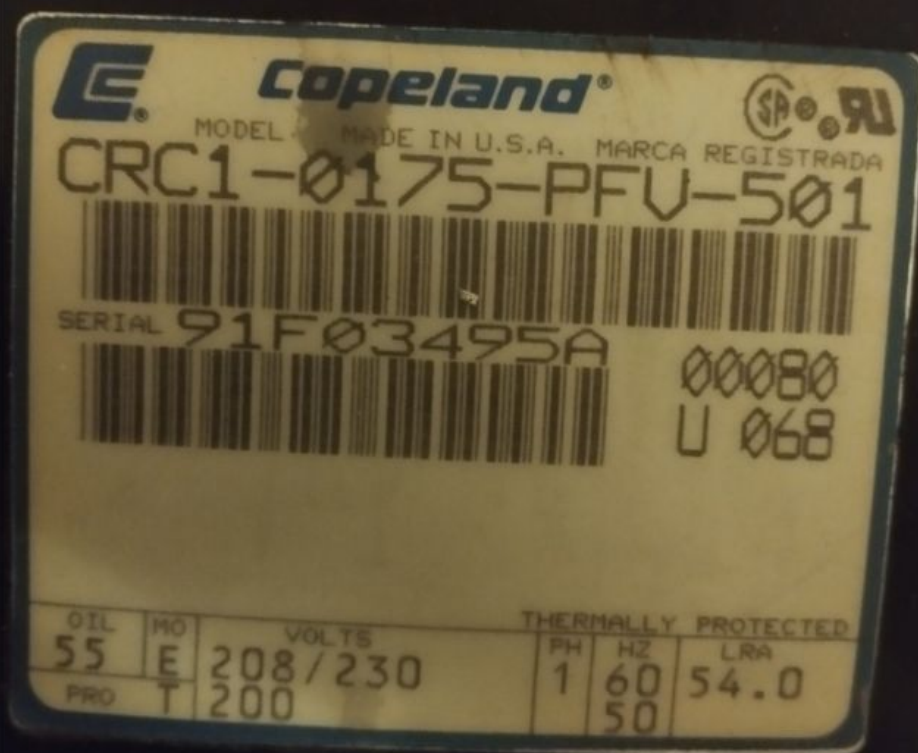
- **Model:** CRC1-0175-PFU-501
- **Brand:** Copeland
- **Cooling Capacity:** 2 tons (24,000 BTU)
- **Horsepower (HP):** 2.25 HP
- **Refrigerant Type:** R22 (note that R22 is being phased out due to environmental

regulations)

- **Compatibility:** ESAH-18CH (18,000 BTU system)
- **Power Input:** 1920 watts

Key Notes:

1. **R22 Refrigerant:** R22 is an older refrigerant that is no longer produced or imported in many countries due to its ozone-depleting properties. If this compressor or system uses R22, you may need to consider retrofitting or replacing it with a system that uses a more environmentally friendly refrigerant like R410A or R32.
2. **Compatibility:** The compressor is listed as compatible with the ESAH-18CH system, which is an 18,000 BTU (1.5-ton) unit. However, the compressor itself is rated for 2 tons (24,000 BTU). This mismatch in capacity could affect system performance, so it's important to ensure proper sizing and compatibility.
3. **Application:** This compressor is likely designed for residential or light commercial HVAC systems.
4. **Replacement Considerations:** If you're replacing this compressor, ensure the new unit matches the specifications and is compatible with the existing system. If upgrading to a newer refrigerant, additional modifications may be required.





ENGINEERING
GROUP

Room Air-conditioner

| | |
|---|-------------------------------|
| Model | ESAH-18CH |
| Model of indoor unit | ESAH-18CH |
| Model of outdoor unit | ESAH-18CH |
| Electric shock protection class | I |
| Rated volt | 220-240V~ |
| Rated frequency | 50Hz |
| Cooling capacity | 18000BTU/h |
| Heating capacity | 18000BTU/h |
| Cooling power input | 1925W |
| Cooling current input | 9.0A |
| Heating power input | 1850W |
| Heating current input | 8.5A |
| Indoor discharge air-flow | $\geq 900\text{m}^3/\text{h}$ |
| Rated power input | 2500W |
| Rated current input | 12.9A |
| Indoor/Outdoor noise | 42~46/54dB(A) |
| Refrigerant | R22/1230g |
| HP. PS | 2.7MPa |
| LP. PS | 0.7MPa |
| Indoor max operating pressure of heat exchanger | 2.45MPa |
| Indoor unit weight | 13kg |
| Date of manufacture | |
| Number of manufacture | |

