

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 Lilianne | 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.

**Copeland** 

MODEL MADE IN U.S.A. MARCA REGISTRADA

**CRC1-0175-PFU-501**



SERIAL **91F03495A** **00080**



**U 068**

OIL		MO	VOLTS	THERMALLY PROTECTED		
PRO	T		PH	HZ	LRA	
55	E	208/230	1	60	54.0	
	T	200		50		





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	

