



CC-31 (UK)      JAV-1069 (EU)  
CC-141 (UK)    JAV-1065 (EU)  
CC-231 (UK)    JAV-1067 (EU)

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# CC SERIES VACCUM PUMP

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Ⓔ Safety Instructions & Operation Manual

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# CC SERIES VACCUM PUMP

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**Thank you for purchasing a JAVAC product.**

Please read this operation manual carefully before use.  
Only suitably qualified personnel should operate this equipment.

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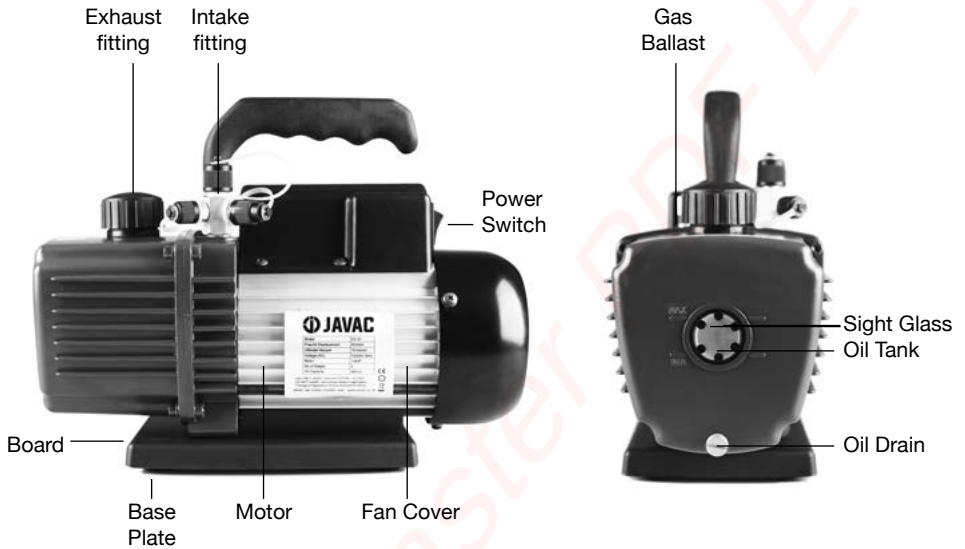
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## 1.0 APPLICATION

CC - Series two-stage oil sealed rotary vane vacuum pumps are basic equipment to evacuate domestic, automotive and light commercial refrigeration and AC equipment. They are suitable for use with R134A, R22 and compatible refrigerants.

## 2.0 PUMP COMPONENTS



MODEL	CC-31	CC-141	CC-231
VOLTAGE	110 V / 240 V 50 Hz		
FREE AIR DISPLACEMENT (CFM / L/M)	1.4 / 40	5.3 / 140	9, 225
ULTIMATE VACUUM	15 Microns	15 Microns	12 Microns
MOTOR	1/4 HP	1/3 HP	2/3 HP
MOTOR SPEED	1440 r/m	2880 r/m	2880 r/m
OIL CAPACITY	380 ml	450 ml	500 ml
DIMENSIONS	330 x 135 x 255 mm (130" x 53" x 100")	350 x 135 x 255 mm (138" x 53" x 100")	380 x 160 x 285 mm (150" x 63" x 112")
NET WEIGHT	9.8 Kg (21.6 lbs)	12 Kg (21.6 lbs)	15.5 Kg (34 lbs)



### 3.0 BEFORE STARTING

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Add vacuum pump oil and always check the oil level before use. Low oil level or poor quality oil will result in premature wear and poor performance.

Install on a flat surface with adequate ventilation; allow 5cm on all sides of the pump.

Remove the intake and exhaust fitting cap and connect via a suitable hose to a manifold or suitable circuit.

Connect to a suitable safe power source using earth leakage devices when using extension cords.

**CAUTION:**

- Do not use with combustible, explosive, poisonous or reactive/corrosive gases.
- Do not allow dust particles to enter the pump.
- Do not allow the pump to run to open air / atmosphere for more than 3 minutes.
- Do allow the inlet temperature of gases to exceed 80°C. Do not use in environments over 50°C.
- Not suitable for use as a compressor, transfer pump or recovery pump.
- Do not operate without oil.
- Pump surface may be hot.
- Do not block air outlet when pump is in use.
- Suitable for indoors use only.

## 4.0 TROUBLE SHOOTING

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PROBLEM	CAUSE	ACTION
<b>POOR VACUUM</b>	4.1 Oil insufficient	Add oil to centre line of oil scale
	4.2 Pump oil emulsified, not clean	Replace with new oil
	4.3 Oil inlet blocked or oil feeding inadequate	Clean oil inlet and filtering screen
	4.4 Pump hose or vessel leak	Check hose and vessel for leakage and repair
	4.5 Improper pump chosen	Pump too small - use larger pump
	4.6 Worn oomponents	Repair or replace with a new pump
<b>OIL LEAKAGE</b>	4.7 Oil seal damaged	Replace with a new oil seal
	4.8 Oil casing gasket loose or damaged	Tighten screws or replace O-type ring
<b>OIL DISCHARGE</b>	4.9 Too much oil	Drain oil to oil base line on sight glass
	4.10 Inlet pressure too high	Use recovery pump to remove pressure
<b>OVER-HEATING</b>	4.11 Temperature below +5C	Allow temperature to rise
	4.12 Motor overloaded	Wait 5 minutes, re start, or press motor reset if installed
	4.13 Foreign matter falling in the pump	Check and eliminate the foreign matter
<b>DIFFICULT STARTING</b>	4.14 Low voltage	Avoid long extension leads
	4.15 Overheated	Check fan, ventilation and repair
	4.16 Safety if in any doubt	Consult JAVAC