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REFRIGERANT HANDLING PRODUCTS



# HC-3

HYDROCARBON REFRIGERANT  
RECOVERY UNIT

Designed for  
use with HC  
refrigerant



The HC-3 refrigerant recovery / recycling unit is a simple to use, portable unit, suitable for use in all refrigerant transfer applications in the workshop or on site.

### Designed specifically for use with hydrocarbon refrigerants

Liquid and vapour recovery with automatic changeover

Self-discharging and Hot Gas / Cool Gas discharge switch

Suitable for A3 and A2L hydrocarbon refrigerants used on domestic, commercial and automotive refrigeration and air conditioning equipment

High efficiency heat exchanger and inlet oil separator with drain facility

Sealed automatic safety high and low-pressure switches with illuminated indicators

Manual low-pressure override switch

ATEX rated cooling fans

High electrical specification

Robust painted steel casework

5m hard wired mains lead with moulded plug

Available in 230v 50Hz and 110v 50Hz versions

Full technical support from UK manufacturer

# HC-3

**HYDROCARBON REFRIGERANT  
RECOVERY UNIT**



www.stevemiles.co.uk

## HC-3 REFRIGERANT RECOVERY / RECYCLING UNIT

Developed from the established Caresaver unit, the HC-3 is an advanced service tool, specifically designed for recovering and handling hydrocarbon refrigerants. Re-developed with the service engineer in mind, the unit is smaller and lighter, whilst retaining robustness and reliability.

The HC-3 is semi-automatic and is suitable for operation with A3 and A2L hydrocarbon refrigerants used in domestic, commercial and automotive equipment.

The HC-3 unit can recover refrigerant in either liquid or vapour phase and changeover is automatic. During operation the on-board oil separator removes the entrained oil in recovered refrigerant, preventing contamination in the recovery cylinder.

The heat exchanger and air-cooled condenser make the units particularly suitable for applications where the refrigerant can only be recovered as vapour, for example through access valves on packaged air conditioning equipment.

The low-pressure override switch enables the units to operate intermittently in a vacuum, as required on refrigerant recovery from domestic cabinets.

A self-discharge feature is incorporated in the HC-3 to avoid mixing of refrigerants.

**The HC-3 is designed for the service environment and is equipped with practical features, including:**

An inlet compound pressure gauge, to monitor the pressure in the system

A discharge gauge to monitor the pressure in the recovery cylinder

High and Low Pressure illuminated indicators

Manual LP over-ride switch to ensure complete evacuation of hoses

The robust steel case is ergonomically designed to protect the fascia and the central carrying handle provides storage for the 5m mains lead.

Comprehensive instructions included with the unit illustrate simple push-pull and pass through techniques and safety procedures.

When working with HC refrigerant it is recommended to use the HC-Air Fan Ventilation Module. This safety device ensures that the working area is well ventilated and any vapour, from a leak or release, will be rapidly dispersed.

Find details at: [www.rda-eng.com](http://www.rda-eng.com)

## TECHNICAL SPECIFICATIONS

Length	417 mm	
Width	232 mm	
Height	326 mm	
Weight	17 kg (230v) 19 kg (110v)	
Refrigerants	R290, R600a, R32, R1234yz, R1234yf (for alternative refrigerants and blends contact RDA)	
Recovery Capacity up to	32kg/h push-pull, 7.5kg/h pass-thru	
Onboard Storage Capacity	250g	
Ambient Temperature Rating	35°C	
Voltage	230V	110V
Running Current	1.3A	3.87A
Power Absorbed	145W	254W
Compressor Protection	HP switch, thermal overload	
Connections Inlet	1/4" SAE male flare	
Connections Discharge	1/4" SAE male flare	
Connections Oil Drain	1/4" SAE male flare	
Applications	Domestic Commercial Air Conditioning Automotive	

Manufactured by RDA Environmental Engineering in accordance with the following Directive(s) and standards:  
2014/35/EU Low Voltage Directive, 2006/42/EC Machinery Directive, 2014/30/EU Electromagnetic Compatibility Directives, EN60079-10-1:2015 BS2.2, EN60079-15:2019 Explosive Atmospheres Equipment Protection, 2011/65/EU ROHS2 (Restriction of Hazardous Substances) Directive.

RDA Environmental Engineering manufacture a wide range of refrigerant handling products  
visit our website [www.rda-eng.com](http://www.rda-eng.com) or contact us for full details



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