



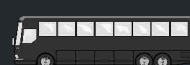
**MANATEC** EUROPE  
ALIGNED TO EXCELLENCE

# FEEL THE BREEZE



## A/C RECYCLING EQUIPMENT

Recovery | Recycle | Re-charge



Exporting to 80+ countries



**Manatec India's largest manufacturer of Automotive Air-conditioning recovery machines with indigenous technology recovers, recycles & recharge. Offering A/C recovery solutions for ICE, Hybrid and Pure EV vehicles serving Car, LCV & Bus applications .**

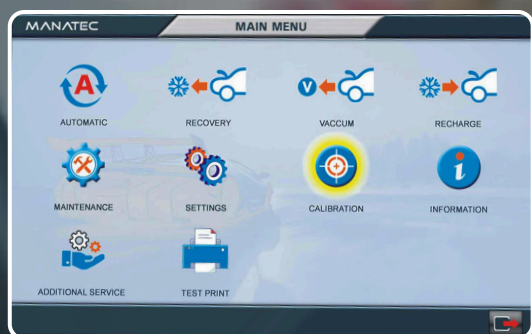
## LESS SERVICE & MAINTENANCE COSTS

- Up to 95% refrigerant recovery in accordance with SAE J2788
- Filter change after 60 Kg of recovered refrigerant
- Vacuum pump oil replacement after 60 hours of vacuum
- Simple access to all components for easy maintenance

## RELIABILITY

- High precision electronic scales to avoid frequent calibrations
- Accurate refrigerant charging, with protection system for the vehicle's compressor
- Internal self-diagnosis

## Touch Display



## HP Gauge



## LP Gauge



## Printout

|                  |   |            |    |
|------------------|---|------------|----|
| DATE             | : | 30/06/2019 |    |
| TIME             | : | 12:47      |    |
| Veh. MAKE        | : |            |    |
| Veh. MODEL       | : |            |    |
| RECOVERY SUMMARY |   |            |    |
| R134a            | : | 0          | g  |
| RECHARGE SUMMARY |   |            |    |
| R134a            | : | 442        | g  |
| Oil              | : | 10         | ml |

## Features

- LCD Monochrome display
- Suitable for Car, LCV & Bus
- Fully Automatic machine (Recovery, Recycling, Vacuum, Leak test & Recharging, Oil drain & integration)
- Option to perform above functions individually
- Dedicated gauge for Inlet pressure
- Filter in recovery line to eliminate humidity & acidity
- Automatic air purge from refrigerant tank (for Pro series)
- Spark free Compressor and Vacuum pump (for Pro series)
- Automatic Oil injection PAG oil with separate electronic scales (for Pro series)
- Automatic High pressure protection for Compressor
- Audible indication / alarm
- Caution & error message / prompt
- Display of Pressure in "psi" / "bar" / "kPa" & Weight in "kg" / "lbs"
- Self diagnosis for checking the fitness of the machine
- Vehicle database with User entry provision
- Software & Vehicle data update through USB interface
- Shock proof protection for load cells
- Automatic Oil injection POE oils with separate electronic scales (for Pro series)
- Electric / Hybrid vehicles compatibility (for Pro series)
- Hose purge system with separate flush input connectors (for Pro series)
- Multi-language support

## Eco Series

- Semi Automatic machine (Recovery, Recycling, Vacuum, Leak test & Recharging, Oil drain & integration)
- Manual air purge from refrigerant tank
- Manual Oil injection PAG oil with separate electronic scales

| Models                                              | i Cool 100                          | i Cool PRO 100D                     | i Cool PRO 100                      | i Cool 100E                          | i Cool PRO 100E                      |
|-----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| Refrigerant Type                                    | R134a                               | R134a                               | R1234yf or R 134a (Pre-defined)     | R134a                                | R1234yf or R 134a (Pre-defined)      |
| Working cycle                                       | Fully Automatic                     | Fully Automatic                     | Fully Automatic                     | Semi Automatic                       | Semi Automatic                       |
| Display                                             | Touch display                       | Touch display                       | Touch display                       | Touch display                        | Touch display                        |
| USB Port                                            | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Internal data base                                  | 500 vehicles                        | 500 vehicles                        | 500 vehicles                        | 500 vehicles                         | 500 vehicles                         |
| Conversion gas type R 1234yf to R134a               | X                                   | X                                   | ✓                                   | X                                    | X                                    |
| AC System compatibility                             | ICE vehicles                        | ICE / Hybrid / Electric vehicles    | ICE / Hybrid / Electric vehicles    | ICE vehicles                         | ICE / Hybrid / Electric vehicles     |
| AC System diagnostics                               | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Leak test                                           | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Internal flushing                                   | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| High precision recovery function                    | > 95%                               | > 95%                               | > 95%                               | > 95%                                | > 95%                                |
| Automatic oil integration                           | PAG oil                             | PAG / POE oil                       | PAG / POE oil                       | Manual (PAG oil)                     | Manual (PAG & POE oil)               |
| Automatic air purge system                          | ✓                                   | ✓                                   | ✓                                   | Manual                               | Manual                               |
| Automatic rapid flushing to avoid oil contamination | X                                   | ✓                                   | ✓                                   | X                                    | ✓                                    |
| Maintenance reset when new filter is changed        | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Monitoring of pressure increase in AC system        | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Warning of filter life and vacuum pump oil          | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| Service hoses compensation                          | ✓                                   | ✓                                   | ✓                                   | ✓                                    | ✓                                    |
| High pressure & Low pressure valves                 | Electronic                          | Electronic                          | Electronic                          | Electronic                           | Electronic                           |
| Refrigerant Scale accuracy                          | ±10g                                | ±10g                                | ±10g                                | ±10g                                 | ±10g                                 |
| Internal supply tank Capacity                       | 12kg                                | 12kg                                | 12kg                                | 10kg                                 | 10kg                                 |
| Internal Oil bottle Capacity                        | 250 ml                              | 250 ml                              | 250 ml                              | 250 ml                               | 250 ml                               |
| Maximum operating pressure                          | 18 Bar                              | 18 Bar                              | 18 Bar                              | 18 Bar                               | 18 Bar                               |
| Vacuum pump capacity                                | 4.5 CFM (127 Lit/min)<br>Dual stage | 4.5 CFM (127 Lit/min)<br>Dual stage | 4.5 CFM (127 Lit/min)<br>Dual stage | 2.5 CFM (70 Lit/min)<br>Single stage | 2.5 CFM (70 Lit/min)<br>Single stage |

| Models                   | i Cool<br>100                   | i Cool<br>PRO 100D              | i Cool<br>PRO 100               | i Cool<br>100E                 | i Cool<br>PRO 100E             |
|--------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|
| Compressor Capacity      | 9.1 CC [ 1/3 HP]                | 11 CC [ 1/3 HP]                 | 11 CC [ 1/3 HP]                 | 9.1 CC [ 1/3 HP]               | 9.1 CC [ 1/3 HP]               |
| Filling accuracy         | ±25g                            | ±25g                            | ±25g                            | ±25g                           | ±25g                           |
| Load cell accuracy (oil) | ±5g                             | ±5g                             | ±5g                             | ±5g                            | ±5g                            |
| Auto drain Used oil      | ✓                               | ✓                               | ✓                               | ✓                              | ✓                              |
| Casing                   | Metal with robust plastic cover | Metal with robust plastic cover | Metal with robust plastic cover | Fabricated Metal body          | Fabricated Metal body          |
| AC Power supply          | 230V, 50/60 HZ<br>110V / 60 HZ  | 230V, 50/60 HZ<br>110V / 60 HZ  | 230V, 50/60 HZ<br>110V / 60 HZ  | 230V, 50/60 HZ<br>110V / 60 HZ | 230V, 50/60 HZ<br>110V / 60 HZ |
| Power Consumption        | 900 w                           | 900 w                           | 900 w                           | 800 w                          | 800 w                          |
| Dimensions               | 75x66x117 cm                    | 75x66x117 cm                    | 75x66x117 cm                    | 60x57x102 cm                   | 60x57x102 cm                   |
| HP / LP Couplers         | Included                        | Included                        | Included                        | Included                       | Included                       |
| Hoses                    | 3m                              | 3m                              | 3m                              | 3m                             | 3m                             |
| Power cord               | ✓                               | ✓                               | ✓                               | ✓                              | ✓                              |
| Thermal Printer          | ✓                               | ✓                               | ✓                               | Optional                       | Optional                       |
| Heater element           | ✓                               | ✓                               | ✓                               | ✓                              | ✓                              |

## OPTIONAL

|                                   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|
| Conversion Kit (R1234yf to R134a) | X | X | ✓ | X | ✓ |
| In-line filter                    | ✓ | ✓ | ✓ | ✓ | ✓ |
| Liquid line filter                | ✓ | ✓ | ✓ | ✓ | ✓ |
| Additional Oil bottle             | ✓ | ✓ | ✓ | ✓ | ✓ |

## Standard Accessories

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| HP Hose (2.5 mtrs)                                                                  | LP Hose (2.5 mtrs)                                                                  | HP Coupler                                                                          | LP Coupler                                                                          | HP Connector with depressor                                                           | Funnel with hose                                                                      |

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