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 vehicels | 500 vehicels | 500 vehicels | 500 vehicels | 500 vehicels |
| 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) Dual stage | 4.5 CFM (127 Lit/min) Dual stage | 4.5 CFM (127 Lit/min) Dual stage | 2.5 CFM (70 Lit/min) Single stage | 2.5 CFM (70 Lit/min) Single stage |

| Models | i Cool 100 | i Cool PRO 100D | i Cool PRO 100 | i Cool 100E | i Cool 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 110V / 60 HZ | 230V, 50/60 HZ 110V / 60 HZ | 230V, 50/60 HZ 110V / 60 HZ | 230V, 50/60 HZ 110V / 60 HZ | 230V, 50/60 HZ 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

| | | | | | |
|---|---|---|---|---|---|
| Convertion 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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