

Technical sheet :

# 90 V'AIR

OXYGEN  
by MANITOU



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| Capacities                                            |         | Metric                                                                                                         |
|-------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|
| Working height                                        | h21     | 9 m                                                                                                            |
| Floor height (access)                                 | h20     | 1.03 m                                                                                                         |
| Platform height                                       | h7      | 7 m                                                                                                            |
| Max. outreach                                         |         | 2.04 m                                                                                                         |
| Platform capacity                                     | Q       | 230 kg                                                                                                         |
| Turret rotation                                       |         | 350 °                                                                                                          |
| Number of people (indoor / outdoor)                   |         | 2 / 2                                                                                                          |
| Weight and dimensions                                 |         |                                                                                                                |
| Platform weight*                                      |         | 2710 kg                                                                                                        |
| Platform dimensions (length x width)                  | lp / ep | 0.95 m x 0.68 m                                                                                                |
| Overall length                                        | l1      | 2.31 m                                                                                                         |
| Overall width                                         | b1      | 1.10 m                                                                                                         |
| Overall height                                        | h17     | 2.31 m                                                                                                         |
| Counterweight offset (turret at 90°)                  | a7      | 0.04 m                                                                                                         |
| Counterweight Oversize / Reach                        |         | 0.05 m                                                                                                         |
| External turning radius                               | Wa3     | 1.98 m                                                                                                         |
| Ground clearance at centre of wheelbase               | m2      | 0.10 m                                                                                                         |
| Wheelbase                                             | y       | 1.20 m                                                                                                         |
| Performances                                          |         |                                                                                                                |
| Drive speed - stowed                                  |         | 4.50 km/h                                                                                                      |
| Drive speed - raised                                  |         | 0.60 km/h                                                                                                      |
| Gradeability                                          |         | 25 %                                                                                                           |
| Permissible leveling                                  |         | 2 °                                                                                                            |
| Wheels                                                |         |                                                                                                                |
| Tires type                                            |         | Non marking                                                                                                    |
| Standard tires                                        |         | 406 x 127 mm                                                                                                   |
| Drive wheels (front / rear)                           |         | 0 / 2                                                                                                          |
| Steering wheels (front / rear)                        |         | 2 / 0                                                                                                          |
| Braking wheels (front / rear)                         |         | 0 / 2                                                                                                          |
| Engine/Battery                                        |         |                                                                                                                |
| Electric engine power rating                          |         | 2 x 1.50 kW                                                                                                    |
| Number of hydraulic pump / Capacity of hydraulic pump |         | 2 x 4.20 cm³                                                                                                   |
| Battery voltage                                       |         | 24 V                                                                                                           |
| Battery capacity                                      |         | 250 Ah                                                                                                         |
| Integrated charger / charger                          |         | 24 V / 30 A                                                                                                    |
| Miscellaneous                                         |         |                                                                                                                |
| Number of cycles with STD Battery (HIRD)              |         | 39                                                                                                             |
| Ground Pressure                                       |         | 11.30 dan/cm2                                                                                                  |
| Hydraulic Pressure                                    |         | 140 bar                                                                                                        |
| Hydraulic tank capacity                               |         | 22 l                                                                                                           |
| Standards compliance                                  |         |                                                                                                                |
| This machine is in compliance with:                   |         | European directives: 2006/42/EC- Machinery (revised EN280:2013) - 2004/108/EC (EMC) - 2006/95/EC (Low voltage) |

## 90 V'Air - Load chart

### Load Chart for MEWP Metric



90 V'Air - Dimensional drawing



Equipment

| Standard                                                                    |
|-----------------------------------------------------------------------------|
| 2 LED front headlights with protective grille                               |
| 2 rear position headlights with LED                                         |
| 2 vertical detection radars                                                 |
| 3 anti-static braids                                                        |
| Audible alarm and illuminated indicator lamp (leveling, overload, lowering) |
| Backlit control panel                                                       |
| Battery charge indicator lamp                                               |
| CAN bus technology                                                          |
| Emergency stop button in platform and on frame                              |
| Fixed pothole protection                                                    |
| Front and side rubber protections                                           |
| Horn in the platform                                                        |
| Hour meter                                                                  |
| Integrated diagnostic assistance                                            |
| Manual emergency lowering                                                   |
| Multi-voltage integrated charger                                            |
| Negative-type braking on rear wheels                                        |
| Non-marking rubber tyres                                                    |
| Platform with open-work floor                                               |
| Proportional controls                                                       |
| Side reflectors                                                             |
| Slinging and securing rings                                                 |
| Specific platform with multiple working positions                           |
| Tool box in platform                                                        |
| Traction battery with centralized recharging                                |
| Travel possible at maximum height                                           |
| Working headlight in platform                                               |

| Optional                         |
|----------------------------------|
| 6 kg Powder extinguisher A, B, C |
| Biodegradable oil                |
| Cold weather protection oil      |
| Safety kit - Harness + helmet    |



**Head Office**

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



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