

Technical sheet :

# ES 720 4W



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                          |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | MANITOU                  |
| 1.2                       | Model Name  |           | ES 720 4W                |
| 1.3                       | Power source  |           | Electrical - Lead        |
| 1.4                       | Operator type   |           | Pedestrian               |
| 1.5                       | Max. capacity   | Q         | 2000 kg                  |
| 1.6                       | Load center of gravity  | c         | 600 mm                   |
| 1.8                       | Load distance, centre of drive axle to fork (low/raised) - Low position | x         | 690 mm                   |
| 1.9                       | Wheelbase   | y         | 1194 mm                  |
| Wheels                    |   |           |                          |
| 3.1                       | Tires type  |           | Polyurethane cushion     |
| 3.4                       | Size of castor wheels   |           | 125 x (2x50)             |
| 3.5                       | Number of front wheels / rear wheels                                    |           | 5 / 4                    |
| 3.5.2                     | Number of drive wheels  |           | 1                        |
| 3.6                       | Front wheel gauge   | b10       | 878 mm                   |
| 3.7                       | Rear wheel gauge  | b11       | 1610 mm                  |
| Dimensions                |   |           |                          |
| 4.10                      | Height of wheel arms  | h8        | 200 mm                   |
| 4.15                      | Fork height in low position   | h13       | 50 mm                    |
| 4.19                      | Overall length  | l1        | 1775 mm                  |
| 4.20                      | Length to face of forks   | l2        | 825 mm                   |
| 4.21                      | Overall width   | b1        | 1810 mm                  |
| 4.22                      | Forks section / width / length  | s / e / l | 40 mm / 120 mm / 1150 mm |
| 4.26                      | Distance between wheel arms/loading surfaces                            | b4        | 1450 mm                  |
| 4.24                      | Fork carriage width   | b3        | 1410 mm                  |
| 4.32                      | Ground clearance at centre of wheelbase                                 | m2        | 50 mm                    |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                           | Ast       | 2664 mm                  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                            | Ast       | 2664 mm                  |
| 4.35                      | Turning radius  | Wa        | 1476 mm                  |
| 4.9                       | Height tiller min. / max.   | h14       | 1030 mm / 1490 mm        |
| Performances              |   |           |                          |
| 5.1                       | Travel speed (laden / unladen)  |           | 6 km/h / 6 km/h          |
| 5.2                       | Lifting speed (laden / unladen)   |           | 0.14 m/s / 0.24 m/s      |
| 5.3                       | Lowering speed (laden / unladen)  |           | 0.30 m/s / 0.20 m/s      |
| 5.10                      | Service brake   |           | Electro magnetic         |
| Engine                    |   |           |                          |
| 6.1                       | Drive motor rating S2 60 min  |           | 1.20 kW                  |
| 6.2                       | Lift motor rating at S3 15%   |           | 3 kW                     |
| 6.3                       | Battery according to DIN 43531/35/36 A, B, C                            |           | DIN 43535-B              |
| 6.4                       | Battery voltage / capacity  |           | 24 V / 160 Ah            |
| 6.4.1                     | Battery max. capacity   |           | 250 Ah                   |
| 6.5                       | Battery weight (+/- 5%)   |           | 165 kg                   |
| 6.5.1                     | Battery max. weight   |           | 215 kg                   |
| Miscellaneous             |   |           |                          |
| 8.1                       | Type of drive control   |           | Variator                 |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053                 |           | 70 dB                    |

ES 720 4W - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 1500   | 1700   |
| h4 - Mast extended height       | mm | 1965   | 2215   |
| Residual capacity at max height | kg | 2000   | 2000   |
| Height at max capacity          | mm | 1470   | 1470   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   | 2395   |
| h3 - Mast lifting height        | mm | 2900   | 3400   | 3800   |
| h4 - Mast extended height       | mm | 3400   | 3900   | 4300   |
| Residual capacity at max height | kg | 2000   | 1800   | 1600   |
| Height at max capacity          | mm | 2940   | 2900   | 2900   |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 2900   | 3400   |
| h4 - Mast extended height       | mm | 3400   | 3900   |
| Residual capacity at max height | kg | 2000   | 1700   |
| Height at max capacity          | mm | 2930   | 2900   |

| Free Lift Triplex (FLT)         |    | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1900   | 2065   | 2305   |
| h2 - Mast free lift             | mm | 1380   | 1540   | 1790   |
| h3 - Mast lifting height        | mm | 4200   | 4700   | 5400   |
| h4 - Mast extended height       | mm | 4720   | 5200   | 5930   |
| Residual capacity at max height | kg | 1300   | 1000   | 700    |
| Height at max capacity          | mm | 2900   | 2900   | 2900   |

**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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