

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 |

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