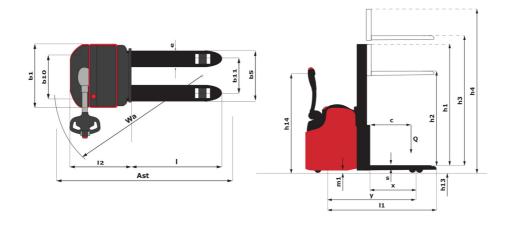
Technical sheet:

ES 820 LI



| | | L3 G2 G E i G | cated off May 2, 2024 at 4.25.20 AW |
|-------|--|---------------|-------------------------------------|
| | Technical characteristics | | Metric |
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ES 820 LI |
| 1.3 | Power source | | Electrical |
| 1.4 | Operator type | | Pedestrian |
| 1.5 | Max. capacity | Q | 2000 kg |
| 1.51 | Nominal capacity on wrapover forks | Q | 2000 kg |
| 1.6 | Load center of gravity | c | 600 mm |
| 1.8 | Distance from Load backrest to center of rear axle | X | 674 mm |
| 1.9 | Wheelbase | ٧ | 1467 mm |
| | Weight | | |
| 2.1 | Service weight | | 1800 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 1360 kg / 2500 kg |
| 2.3 | Weight on front axle (laden) / rear axle (laden) Weight on front axle (Unladen) / rear axle (Unladen) | | 1250 kg / 2300 kg |
| 2.3 | Wheels | | 1230 kg / 330 kg |
| 3.1 | | | Dandana |
| | Tires type | | Bandage |
| 3.3 | Number of load wheels / Size of load wheels | | 2 / 82x68 |
| 3.4 | Number of castor wheels | | 1 |
| 3.4 | Number of stabilizer wheels / Size of the stabilizer wheels | | 2 / 120x50 |
| 3.5 | Number of front wheels / rear wheels | | 1/2 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/254x100 |
| 3.6 | Front wheel gauge | b10 | 664 mm |
| 3.7 | Rear wheel gauge | b11 | 375 mm |
| | Dimensions | | |
| 4.15 | Fork height in low position | h13 | 85 mm |
| 4.19 | Overall length | I1 | 2123 mm |
| 4.20 | Length to face of forks | 12 | 700 mm |
| 4.21 | Overall width | b1 | 890 mm |
| 4.22 | Forks section / width / length | s / e / l | 70 mm / 200 mm / 1150 mm |
| 4.24 | Fork carriage width | b3 | 700 mm |
| 4.31 | Ground clearance below mast | m1 | 20 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 21 mm |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 2660 mm |
| 4.35 | Turning radius | Wa | 1719 mm |
| 4.9 | Height tiller min. / max. | h14 / h14 | 975 mm / 1375 mm |
| | Performances | | |
| 5.1 | Travel speed (laden / unladen) | | 6 km/h / 6 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.11 m/s / 0.20 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.22 m/s / 0.21 m/s |
| 5.8 | Max Gradeability (laden / unladen) | | 6 % / 10 % |
| 5.10 | Service brake | | Electro magnetic |
| 5.10 | Engine | | Licono magneno |
| 6.1 | Drive motor rating \$2 60 min | | 2 kW |
| 6.2 | • | | 2 kW 4 kW |
| | Lift motor rating at S3 15% | | |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | Traction |
| 6.4 | Battery voltage / capacity | | 24 V / 315 Ah |
| 6.5 | Battery weight (+/- 5%) | | 275 kg |
| | Miscellaneous | | |
| 8.1 | Type of drive control | | DC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB |

ES 820 LI - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1955 | 2205 |
| h2 - Mast free lift | mm | 1510 | 1760 |
| h3 - Mast lifting height | mm | 1510 | 1760 |
| h4 - Mast extended height | mm | 1965 | 2215 |
| Residual capacity at max height | kg | 2000 | 2000 |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1955 | 2205 |
| h3 - Mast lifting height | mm | 2940 | 3440 |
| h4 - Mast extended height | mm | 3400 | 3900 |
| Residual capacity at max height | ka | 1600 | 1300 |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 2205 | 2205 |
| h2 - Mast free lift | mm | 1510 | 1760 |
| h3 - Mast lifting height | mm | 2935 | 3435 |
| h4 - Mast extended height | mm | 3895 | 3895 |
| Residual capacity at max height | kg | 1600 | 1300 |

| Free Lift Triplex (FLT) | | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1915 | 2075 | 2315 |
| h2 - Mast free lift | mm | 1470 | 1630 | 1880 |
| h3 - Mast lifting height | mm | 4250 | 4730 | 5460 |
| h4 - Mast extended height | mm | 4725 | 5205 | 5895 |
| Residual capacity at max height | kg | 750 | 550 | 450 |





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