Technical sheet :

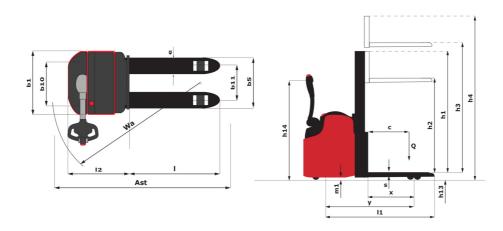




| | Technical characteristics | |
|--------|--|--|
| 1.1 | Manufacturer | |
| 2 | Model Name | |
| 3 | Power source | |
| | Operator type | |
| 5 | Max. capacity | |
| 1 | Nominal capacity on wrapover forks | |
| 6 | Load center of gravity | |
| 8 | Distance from Load backrest to center of rear axle | |
| 9 | Wheelbase | |
| | Weight | |
| 1 | Service weight | |
| 2 | Weight on front axle (laden) / rear axle (laden) | |
| 3 | Weight on front axle (Unladen) / rear axle (Unladen) | |
| | Wheels | |
| 1 | Tires type | |
| 3 | Number of load wheels / Size of load wheels | |
| 4 | Number of castor wheels | |
| 4 | Number of stabilizer wheels / Size of the stabilizer wheels | |
| 5 | Number of front wheels / rear wheels | |
| 5.2 | Number of drive wheels / Size of drive wheels | |
| .6 | Front wheel gauge | |
| .7 | Rear wheel gauge | |
| ., | Dimensions | |
| 15 | Fork height in low position | |
| 19 | Overall length | |
| 20 | Length to face of forks | |
| 21 | Overall width | |
| 22 | Forks section / width / length | |
| 24 | Fork carriage width | |
| 31 | Ground clearance below mast | |
| 32 | Ground clearance at centre of wheelbase | |
| 33 | Aisle Width for pallets 1000 x 1200 crossways | |
| 35 | Tuming radius | |
| 9 | Height tiller min. / max. | |
| , , | Performances | |
| | Travel speed (laden / unladen) | |
| 2 | Lifting speed (laden / unladen) | |
| .3 | Lowering speed (laden / unladen) | |
| 8 | Max Gradeability (laden / unladen) | |
| 10 | Service brake | |
| 10 | Engine | |
| 1 | Drive motor rating \$2.60 min | |
| | Lift motor rating at S3 15% | |
| 2 3 | Battery according to DIN 43531/35/36 A, B, C | |
| 3 4 | | |
| | Battery voltage / capacity | |
| .5 | Battery weight (+/- 5%) | |
| .1 | Miscellaneous | |
| 4 | Type of drive control Sound level at the driver's ear according to DIN 12 053 | |

| ES 820 | L∎ Created on May 3, 2024 at 7:33:43 AM UTC |
|-----------|---|
| | Metric |
| | Manitou |
| | ES 820 LI |
| | Electrical |
| | Pedestrian |
| Q | 2000 kg |
| Q | 2000 kg |
| С | 600 mm |
| х | 674 mm |
| у | 1467 mm |
| | |
| | 1800 kg |
| | 1360 kg / 2500 kg |
| | 1250 kg / 550 kg |
| | |
| | Bandage |
| | 2 / 82x68 |
| | 1 |
| | 2 / 120x50 |
| | 1 / 2 |
| | 1/254x100 |
| b10 | 664 mm |
| b11 | 375 mm |
| | |
| h13 | 85 mm |
| 11 | 2123 mm |
| 12 | 700 mm |
| b1 | 890 mm |
| s / e / l | 70 mm / 200 mm / 1150 mm |
| b3 | 700 mm |
| m1 | 20 mm |
| m2 | 21 mm |
| Ast | 2660 mm |
| Wa | 1719 mm |
| h14 / h14 | 975 mm / 1375 mm |
| | |
| | 6 km/h / 6 km/h |
| | 0.11 m/s / 0.20 m/s |
| | 0.22 m/s / 0.21 m/s |
| | 6 % / 10 % |
| | Electro magnetic |
| | 2 kW |
| | 2 KW 4 kW |
| | Traction |
| | 24 V / 315 Ah |
| | 275 kg |
| | |
| | DC |
| | 65 dB |
| | 30 05 |

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 | kg | 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 |



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



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