Technical sheet :

ES 420 DL PFR 9

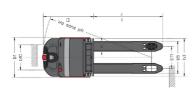


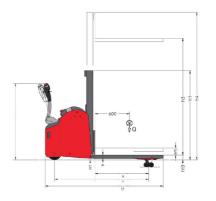


ES 420 DL PFR 9 Created on April 25, 2024 at 1:09:20 AM UTC

| | Technical characteristics | | Metric | Imperial |
|-------|---|--------------|-------------------------|-----------------------|
| 1.1 | Manufacturer | | Manitou | Manitou |
| 1.2 | Model Name | | ES 420 DL PFR 9 | ES 420 DL PFR 9 |
| 1.3 | Power source | | Electrical | Electrical |
| 1.4 | Operator type | | Carried | Carried |
| 1.5 | Max. capacity | Q | 2000 kg | 4409 lb |
| 1.51 | Nominal capacity on wrapover forks | Q | 1000 kg | 2205 lb |
| 1.52 | Nominal capacity in double stacking 1 / 2 | Q / Q | 1000 kg + 1000 kg | 2205 lb + 2205 lb |
| 1.6 | Load center of gravity | С | 600 mm | 24 in |
| 1.8 | Distance from Load backrest to center of rear axle | х | 997 mm | 39 in |
| 1.9 | Wheelbase | у | 1704 mm | 67 in |
| | Weight | | | |
| 2.1 | Service weight | | 1060 kg | 2337 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 1485 kg / 1590 kg | 3274 lb / 3505 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 765 kg / 310 kg | 1687 lb / 683 lb |
| | Wheels | | | |
| 3.1 | Tires type | | Polyurethane | Polyurethane |
| 3.3 | Number of load wheels / Size of load wheels | | 4 / 82x68 | 4 / 82x68 |
| 3.4 | Number of stabilizer wheels / Size of the stabilizer wheels | | 2 / 120x50 | 2 / 120x50 |
| 3.5 | Number of front wheels / rear wheels | | 2 / 4 | 2 / 4 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/230x75 | 1/230x75 |
| 3.6 | Front wheel gauge | b10 | 435 mm | 17 in |
| 3.7 | Rear wheel gauge | b11 | 380 mm | 15 in |
| | Dimensions | | | |
| 4.19 | Overall length | 11 | 2140 mm | 84 in |
| 4.20 | Length to face of forks | 12 | 950 mm | 37 in |
| 4.21 | Overall width | b1 | 688 mm | 27 in |
| 4.22 | Forks section / width / length | s / e / l | 60 mm / 80 mm / 1190 mm | 2 in / 3 in / 47 in |
| 4.24 | Fork carriage width | b3 | 650 mm | 26 in |
| 4.31 | Ground clearance below mast | m1 | 25 mm | 0.98 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 30 mm | 1 in |
| 4.35 | Turning radius | Wa | 2010 mm | 79 in |
| 4.9 | Height tiller min. / max. | h14 / h14 | 1045 mm / 1275 mm | 41 in / 50 in |
| | Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 8.50 km/h / 9 km/h | 5 mph / 6 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.11 m/s / 0.18 m/s | 0.36 ft/s / 0.59 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.20 m/s / 0.24 m/s | 0.66 ft/s / 0.79 ft/s |
| 5.8 | Max Gradeability (laden / unladen) | | 9 % / 18 % | 9 % / 18 % |
| 5.10 | Service brake | | Electro magnetic | Electro magnetic |
| | Engine | | | |
| 6.1 | Drive motor rating S2 60 min | | 1.70 kW | 1.70 kW |
| 6.2 | Lift motor rating at S3 15% | | 2 kW | 2 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | No | No |
| 6.4 | Battery voltage / capacity | | 24 V / 270 Ah | 24 V / 270 Ah |
| 6.5 | Battery weight (+/- 5%) | | 245 kg | 540 lb |
| | Miscellaneous | | | |
| 8.1 | Type of drive control | | AC | AC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB | 65 dB |







Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 21 |
|---------------------------------|---------|-------------|
| h1 - Mast lowered height | in (mm) | 43.3 (1100) |
| h3 - Mast lifting height | in (mm) | 83.1 (2110) |
| h4 - Mast extended height | in (mm) | 97.8 (2485) |
| Residual capacity at max height | lb (kg) | 2205 (1000) |



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