Technical sheet:

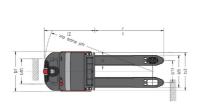
ES 420 DL PFR 9

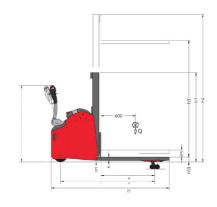




	ES 420 DL PFR 9 Created on April 24, 2024 at 9.06.40 PM 0
Technical characteristics	Metric Imperial
Manufacturer	Manitou Manitou
Model Name	ES 420 DL PFR 9 ES 420 DL PFR 9
Power source	Electrical Electrical
Operator type	Carried Carried
Max. capacity Q	2000 kg 4409 lb
Nominal capacity on wrapover forks Q	1000 kg 2205 lb
Nominal capacity in double stacking 1 / 2	Q 1000 kg + 1000 kg 2205 lb + 2205 lb
Load center of gravity c	600 mm 24 in
Distance from Load backrest to center of rear axle	997 mm 39 in
Wheelbase y	1704 mm 67 in
Weight	
Service weight	1060 kg 2337 lb
Weight on front axle (laden) / rear axle (laden)	1485 kg / 1590 kg 3274 lb / 3505 lb
Weight on front axle (Unladen) / rear axle (Unladen)	765 kg / 310 kg 1687 lb / 683 lb
Wheels	
Tires type	Polyurethane Polyurethane
Number of load wheels / Size of load wheels	4 / 82x68 4 / 82x68
Number of stabilizer wheels / Size of the stabilizer wheels	2 / 120x50 2 / 120x50
Number of front wheels / rear wheels	2 / 4
Number of drive wheels / Size of drive wheels	1/230x75 1/230x75
Front wheel gauge b10	0 435 mm 17 in
Rear wheel gauge b11	
Dimensions	
Overall length	2140 mm 84 in
Length to face of forks	950 mm 37 in
Overall width b1	688 mm 27 in
Forks section / width / length s / e ,	/ I 60 mm / 80 mm / 1190 mm 2 in / 3 in / 47 in
Fork carriage width b3	650 mm 26 in
Ground clearance below mast m1	25 mm 0.98 in
Ground clearance at centre of wheelbase m2	2 30 mm 1 in
Turning radius Wa	2010 mm 79 in
Height tiller min. / max. h14	
Performances	
Travel speed (laden / unladen)	8.50 km/h / 9 km/h 5 mph / 6 mph
Lifting speed (laden / unladen)	0.11 m/s / 0.18 m/s
Lowering speed (laden / unladen)	0.20 m/s / 0.24 m/s
Max Gradeability (laden / unladen)	9 % / 18 % 9 % / 18 %
Service brake	Electro magnetic Electro magnetic
Engine	
Drive motor rating S2 60 min	1.70 kW 1.70 kW
Lift motor rating at S3 15%	2 kW 2 kW
Battery according to DIN 43531/35/36 A, B, C	No No
Battery voltage / capacity	24 V / 270 Ah 24 V / 270 Ah
Battery weight (+/- 5%)	245 kg 540 lb
Miscellaneous	
Type of drive control	AC AC
Type of drive control	

ES 420 DL PFR 9 - Dimensional drawing





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 canacity at may height	lh (ka)	2205 (1000)





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