Technical sheet :

ES 420 DL PFR 9

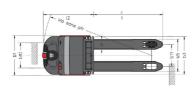


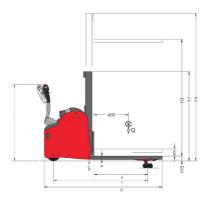


ES 420 DL PFR 9 Created on April 27, 2024 at 4:53:38 AM UTC

	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	x	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	b10	380 mm	15 in
0.7	Dimensions	511	000 1111	10 m
4.19	Overall length	1	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	2 m / 3 m / 4 / m
4.31	Ground clearance below mast	m1	25 mm	0.98 in
4.31	Ground clearance at centre of wheelbase	m2	30 mm	1 in
4.32	Turning radius	Wa	2010 mm	79 in
4.55		h14 /	2010 11111	79 111
4.9	Height tiller min. / max.	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
3.0	Miscellaneous		2-70 Kg	
8.1	Type of drive control		AC	AC
0.1	Type of diffe control		AU	A0

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 capacity at max height	lb (kg)	2205 (1000)



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



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes