



vcsp330\_500

### Machine designation

VC 500/90,110,120  
VC 500/100,120,130 US  
VC 500/90,110,120 PRO

VC 500/130,150  
VC 500/140,165 US  
VC 500/130,150 PRO

		VC 500/90,110,120 VC 500/100,120,130 US VC 500/90,110,120 PRO	VC 500/130,150 VC 500/140,165 US VC 500/130,150 PRO
Weight	to	7.4	9.4
	US tonns	8.16	10.36
Length	mm	4860	5273
	inches	191.34	208
Height	mm	2048 / 2133 <sup>a</sup>	2148
	inches	80.63 / 83.98 <sup>a</sup>	84.57
Oil reservoir capacity	l	300	450
	gal	79.3	118.9
Pump capacity	kW	18.5 / 18.5 / 22	22 / 22 / 22
	Tech / Power / HV3 hp	24.8 / 24.8 / 29.5	29.5 / 29.5 / 29.5
Filter motor	kW	- / - / -	1.5 / 1.5 / 1.5
	Tech / Power / HV3 hp		2.0 / 2.0 / 2.0
Total power	kW	28 / 28 / 32	34 / 34 / 34
	Tech / Power / HV3 hp	37.6 / 37.6 / 42.9	45.6 / 45.6 / 45.6
Connected current	A	52 / 52 / 58	60 / 60 / 60
Tech / Power / HV3			

a. VC 500/100, 120, 130 US

Size designation <sup>a</sup>	500/...						
		Tech / Power			HV3		
Screw diameter	mm	35	40	45	35	40	45
	inches	1.38	1.57	1.77	1.38	1.57	1.77
Screw stroke	mm	200			200		
	inches	7.87			7.87		
Injection capacity	cm <sup>3</sup>	192	251	318	192	251	318
	in <sup>3</sup>	11.71	15.31	19.40	11.71	15.31	19.40
Screw length	L/D	20			20		
Screw speed	min-1 rpm	400	400	320	455	455	455
Plasticizing capacity <sup>b</sup>	g/sec	21	32	34	23.8	36.4	48.3
	oz/sec	0.74	1.13	1.20	0.84	1.28	1.70
Screw length barrier	L/D	24			24		
Plasticizing capacity barrier screw <sup>c</sup>	g/sec	31	44	47	35.2	50	66.8
	oz/sec	1.09	1.55	1.65	1.24	1.76	2.35
Injection rate <sup>d</sup>	cm <sup>3</sup> /sec	152	198	251	194	253	320
	in <sup>3</sup> /sec	9.27	12.08	15.31	11.84	15.44	19.52
Injection rate (at max. pressure) <sup>d</sup>	cm <sup>3</sup> /sec	99	129	163	99	129	163
	in <sup>3</sup> /sec	6.04	7.87	9.94	6.04	7.87	9.94
Injection pressure (regenerative)	bar	1700	1300	1050	1700	1300	1050
	psi	24650	18850	15225	24650	18850	15225
Injection pressure (max.)	bar	2400	2050	1600	2400	2050	1600
	psi	34800	29725	23200	34800	29725	23200
Noz.str.	mm	300			300		
	inches	11.81			11.81		
Nozzle immersion depth Europe standard	mm	30			30		
Nozzle immersion depth North America standard	inches	1.38			1.38		
Nozzle immersion depth Asia standard	mm	30			30		
Nozzle contact force	kN	50			50		
	US tons	5.6			5.6		
Heating wattage	kW	9.2	9.2	12.2	9.2	9.2	12.2
	hp	12.34	12.34	16.36	12.34	12.34	16.36
Number of the heating zones incl. nozzle		4	4	5	4	4	5
Hopper capacity	l	52			52		
	lbs	57.3			57.3		

a. Injection capacity [cm<sup>3</sup>] x Injection pressure max. [bar] / 1000

b. Values for polystyrene ( MVR 200/5=10 cm<sup>3</sup> /10 min according to ENGEL works standard ETR 10100)

c. Values for HDPE ( MVR 190/2.16=5 cm<sup>3</sup> /10 min according to ENGEL works standard ETR 10100)

d. Dependent on pump drive power