



		Clamping unit e-cap 420
Clamp force	to/ kN	420/4200
Opening force	kN	420
Opening stroke	mm	700
Mold height max.	mm	750
Mold height min.	mm	350
Mould fixing platens h x v	mm	1350 x 1350
Tie bar distance hor. x vert.	mm	920 x 920
Ejector stroke	mm	220
Ejector force forward / return	kN	120
mold weight, max on moving platen/center of gravity ¹	kg/mm	6200 / 315
Dry operation time	sec @ imm	2.1 @ 600

1. Without additional guide block

e-cap 420		Injection unit	
		2440	3440
Weight	to	31	36
	US tons	34.2	39.7
Drive power premium	kW	146	147.3
	hp	195.8	197.5
Injection unit heating capacity (max.capacity / max.zones)	kW / n	29.4 / 5	44.7 / 6
Total power ¹ premium	kW	177	193
	hp	237.4	258.8
Connected current ² premium	A	258	286
Cooling water consumption ³ premium	l/h	1920	1980
	gal/h	507.2	523.1

1. When using compensation equipment for correcting the power factor of machines, plants or plant components, reactive current compensation with impedance capacitors is necessary.

2. With voltage 3 x 380V - 400V + N + PE, 50/60Hz

3. With an ambient temperature of maximum 35° C / 95° F



Injection unit 3440				
		premium		
Screw diameter	mm	70	80	90
	inches	2.76	3.15	3.54
Screw stroke	mm	340	340	340
	inches	13.39	13.39	13.39
Injection capacity	cm ³	1308	1709	2163
	in ³	79.82	104.29	131.99
Screw speed	min-1	240	240	240
	rpm			
Peripheral screw speed max.	m/min	52	60	67
	ft/min	170.6	196.9	219.8
Screw torque max.	Nm	3500	3500	3500
	lbf-ft	2581	2581	2581
L/D ratio (3-zone screw)	L/D	22	22	22
Recovery rate (3-zone screw) ¹	g/sec	74	101	-
	oz/sec	2.61	3.56	-
L/D ratio (barrier screw)	L/D	22	22	22
Recovery rate (barrier screw) ¹	g/sec	98	138	-
	oz/sec	3.46	4.87	-
Injection rate	cm ³ /sec	1154	1508	1908
	in ³ /sec	70.42	92.02	
Spec. injection pressure	bar	2400	1950	1540
	psi	34809		
Hold.pres.max.. ²	bar	2160	1755	1386
	psi	31328		
Nozzle stroke	mm	700	700	700
	inches	27.56	27.56	27.56
Nozzle penetration	mm	30	30	30
	inches	1.18	1.18	1.18
Nozzle contact pressure	kN	100	100	100
	US tons	11.24	11.24	11.24
Heating wattage	kW	44.7	53.0	61.2
	hp	59.9	71.1	82.1
Number of heating zones incl. nozzle		6	6	7

1. Values for HDPE (according to ENGEL factory standard ETR 10100)

2. The height of the holding pressure is dependent on the holding pressure duration as well as on the total cycle