

CV

PolyPump Ltd

Providing your pumping solutions

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External electric pumps CV

vertical multistage

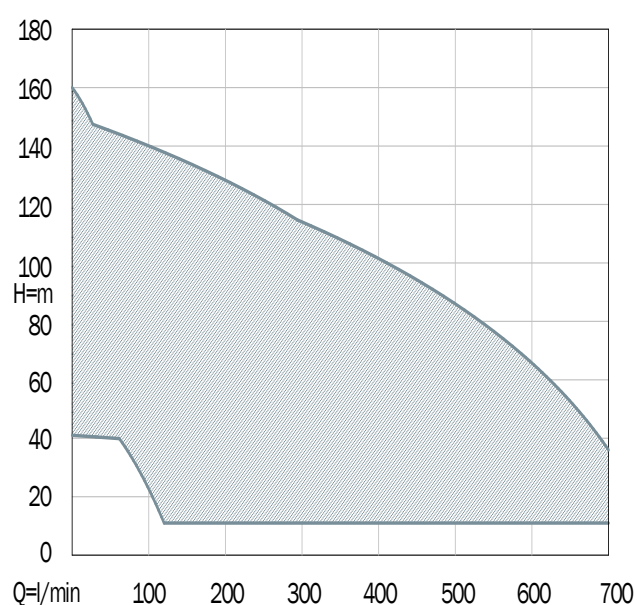
APPLICATION

Electric, external vertical pumps for installations in agricultural, civil and industrial environments. Suitable to pump clean water from tanks and reservoirs. They are recommended to pressurize water plants in detached houses, block of flats, irrigation and for water recirculation in conditioning plants.

CHARACTERISTICS

IP rating	IP54
Duty	Continuous S1
Maximum number of starts per hour	20
Maximum temperature of the liquid pumped (°C)	-10 - 80
PH of the liquid pumped	6 - 10
Suitable for inverter drive	Three-phase versions only
Acoustic pressure (dB(A))	<70

APPLICATION RANGE



CONSTRUCTION

Coolant filled, asynchronous, rewindable electric AC motor with short circuit rotor. Insulation Class F

400 V Motors in efficiency class IE3

External ventilation


MATERIALS

Suction body and discharge	Mechanical Cast iron EN GJL-200
Pump casing, tie rods, bolts and nuts	Stainless Steel AISI304
Shaft	Stainless Steel AISI420B
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinking water and AISI304 stainless steel wear rings
Coupling	Mechanical Cast iron EN GJL-200
Guide ball bearing	Self-lubricating bronze
Mechanical seal	Graphite and Alumina
Diffuser bush	Anti fiction rubber (series 700)

External electric pumps CV



vertical multistage

PERFORMANCE DATA - 2 poles 50 Hz

Radial impeller 	P2		1~230 V		3~400 V	DNA (GAS) DNM (GAS)	Q	Flow															
	hp	kW	A	µF	A			m ³ /h	0	1,8	2,4	3	4,2	6	7,2	8,4	9,6	11,4	12,6	13,8	15,6	18	19,8
									0	30	40	50	70	100	120	140	160	190	210	230	260	300	330
SERIES 110																							
CV 6/110	1	0,75	5,2	20	1,9	1"½	H (m)	54	50	48	46	40	27	16									
CV 9/110	1,5	1,1	7,6	30	3,2	1"½		82	75	73	70	60	41	25									
CV 12/110	2	1,5	10,9	45	3,6	1"½		110	101	98	93	80	54	33									
CV 16/110	3	2,2	14,5	60	5,1	1"½		152	141	136	130	112	75	44									
SERIES 230																							
CV 5/230	1,5	1,1	7,6	30	3,2	1"½	H (m)	47			46	44	41	39	36	32	25	20	13				
CV 6/230	2	1,5	10,9	45	3,6	1"½		56			55	53	50	46	42	37	29	22	15				
CV 8/230	3	2,2	14,5	60	5,1	1"½		75			73	70	65	60	55	49	38	29	20				
CV 11/230	4	3			6	1"½		103			100	97	91	85	78	70	56	46	33				
CV 14/230	5,5	4			8,4	1"½		138			134	130	122	115	104	93	74	59	43				
SERIES 330																							
CV 5/330	3	2,2	14,5	60	5,1	1"½	H (m)	49					46	45	43	41	38	35	32	27	20	14	
CV 7/330	4	3			6	1"½		68					61	59	57	55	52	49	45	39	29	20	
CV 10/330	5,5	4			8,4	1"½		102					94	91	88	84	77	72	66	57	42	29	
CV 14/330	7,5	5,5			10,1	1"½		138					128	124	120	114	103	98	88	75	54	37	



PERFORMANCE DATA - 2 poles 50 Hz


Radial impeller 	P2		3~400 V		DNA (GAS)	DNM (GAS)	Q	Flow												
	hp	kW	A	m ³ /h				0	12	15	16,8	18	19,8	21,6	24	27	30	33	36	39
					l/min	0	200	250	280	300	330	360	400	450	500	550	600	650	700	
SERIES 530																				
CV 4/530	4	3	6	2"½	2"	H (m)	43	36	35	34	33	32	30	27	22	16	10			
CV 6/530	5,5	4	8,4	2"½	2"		64	53	52	50	49	48	45	40	33	24	16			
CV 8/530	7,5	5,5	10,1	2"½	2"		86	70	68	66	65	64	61	53	43	33	21			
CV 11/530	10	7,5	14,3	2"½	2"		118	97	94	92	90	87	83	73	60	44	29			
CV 14/530	12,5	9,2	17,7	2"½	2"		150	123	119	116	114	111	106	94	76	56	37			
Semi-axial impeller 	P2		3~400 V		DNA (GAS)	DNM (GAS)	Q	Flow												
	hp	kW	A	m ³ /h				0	12	15	16,8	18	19,8	21,6	24	27	30	33	36	39
					l/min	0	200	250	280	300	330	360	400	450	500	550	600	650	700	
SERIES 700																				
CV 3/700	5,5	4	8,4	2"½	2"	H (m)	41				35	34	33	31	28	25	22	18	14	9
CV 5/700	7,5	5,5	10,1	2"½	2"		68				59	57	55	51	46	41	35	28	21	14
CV 6/700	10	7,5	14,3	2"½	2"		84				68	66	63	59	54	48	42	34	27	17
CV 8/700	12,5	9,2	17,7	2"½	2"		113				93	91	87	83	76	69	60	50	40	29
CV 10/700	15	11	19,4	2"½	2"		141				116	114	110	104	96	86	75	62	50	36



External electric pumps CV series 110

vertical multistage

PERFORMANCE DATA - 2 poles 50 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA (GAS)	Dimensions (mm)				Weight
				hp	kW		l/min	m	DNM (GAS)	A	B	C	D	kg
CV 6/110	EM110/06	230 V	1-phase	1	0,75	5,2	30 - 70 - 120	50 - 40 - 16	1"½	662	286	180	51	22,2
	ET110/06/2	400 V	3-phase			1,9				667				22,7
CV 9/110	EM110/09	230 V	1-phase	1,5	1,1	7,6	30 - 70 - 120	75 - 60 - 25	1"½	752	376	180	51	25,8
	ET110/09/2	400 V	3-phase			3,2				757				24,8
CV 12/110	EM110/12	230 V	1-phase	2	1,5	10,9	30 - 70 - 120	101 - 80 - 33	1"½	847	466	180	51	28,3
	ET110/12/2	400 V	3-phase			3,6								847
CV 16/110	EM110/16	230 V	1-phase	3	2,2	14,5	30 - 70 - 120	141 - 112 - 44	1"½	1033	586	180	51	34
	ET110/16/2	400 V	3-phase			5,1				1014				34,5



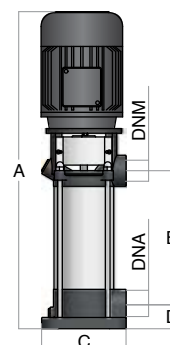
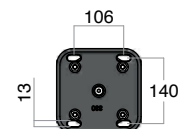
SUPPLIED WITH

Capacitor (single-phase versions)

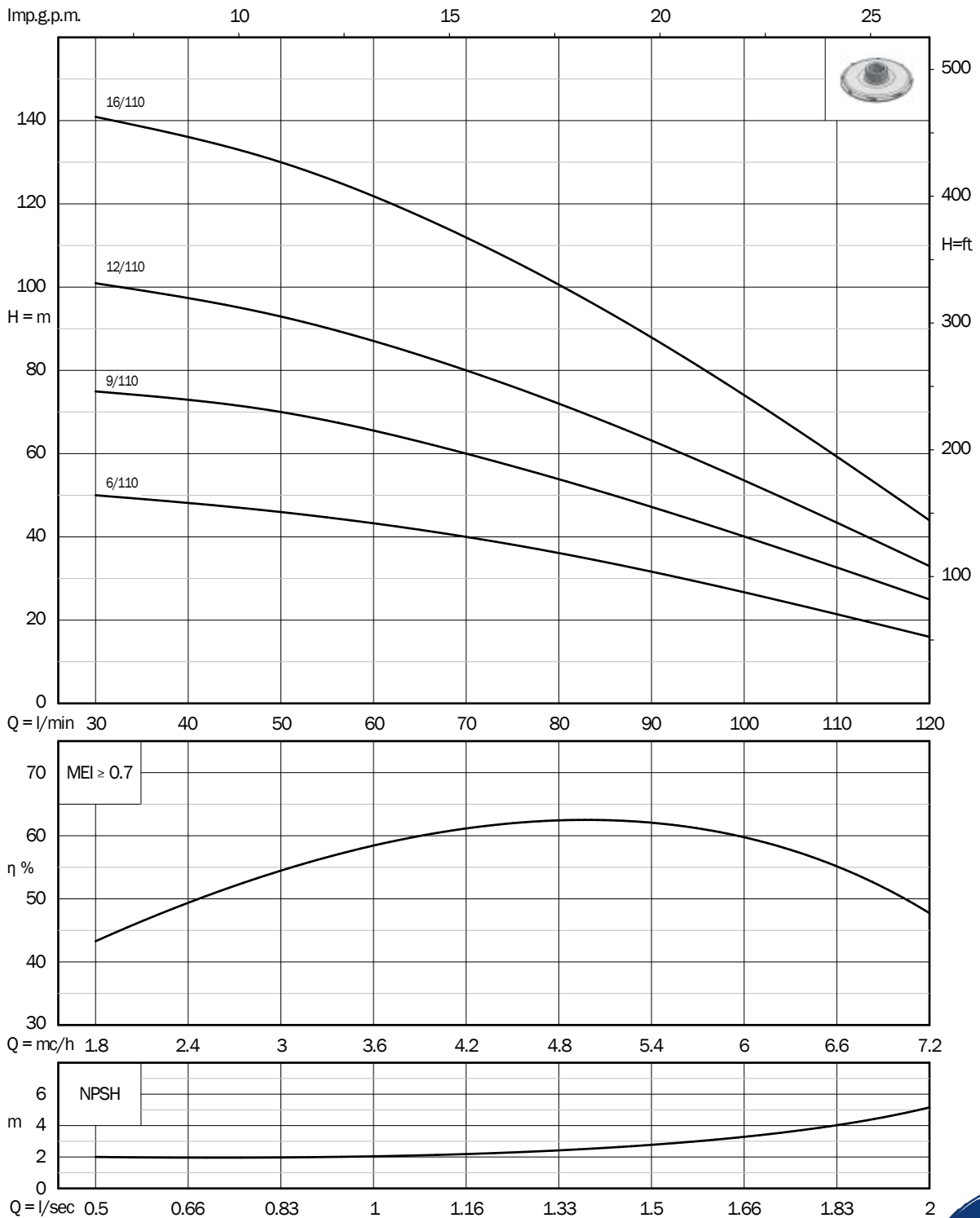


OPTIONS

Mechanical seal: silicon carbide and alumina




PERFORMANCE CURVES - 2 poles 50 Hz



External electric pumps CV series 230

vertical multistage

PERFORMANCE DATA - 2 poles 50 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA (GAS)	Dimensions (mm)				Weight
				hp	kW		l/min	m	DNM (GAS)	A	B	C	D	kg
CV 5/230	EM230/05	230 V	1-phase	1,5	1,1	7,6	50 - 140 - 230	46 - 36 - 13	1"½	662	286	180	51	24,1
	ET230/05/2	400 V	3-phase			3,2				667				23,1
CV 6/230	EM230/06	230 V	1-phase	2	1,5	10,9	50 - 140 - 230	55 - 42 - 15	1"½	703	322	180	51	25,8
	ET230/06/2	400 V	3-phase			3,6								26,3
CV 8/230	EM230/08	230 V	1-phase	3	2,2	14,5	50 - 140 - 230	73 - 55 - 20	1"½	841	394	180	51	31,7
	ET230/08/2	400 V	3-phase			5,1								31,7
CV 11/230	ET230/11/2	400 V	3-phase	4	3	6	50 - 140 - 230	100 - 78 - 33	1"½	964	502	180	51	38
CV 14/230	ET230/14/2	400 V	3-phase	5,5	4	8,4	50 - 140 - 230	134 - 104 - 43	1"½	1074	610	180	51	44



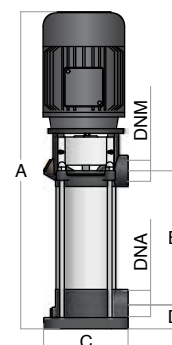
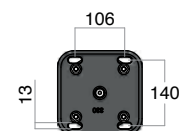
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Capacitor (single-phase versions)

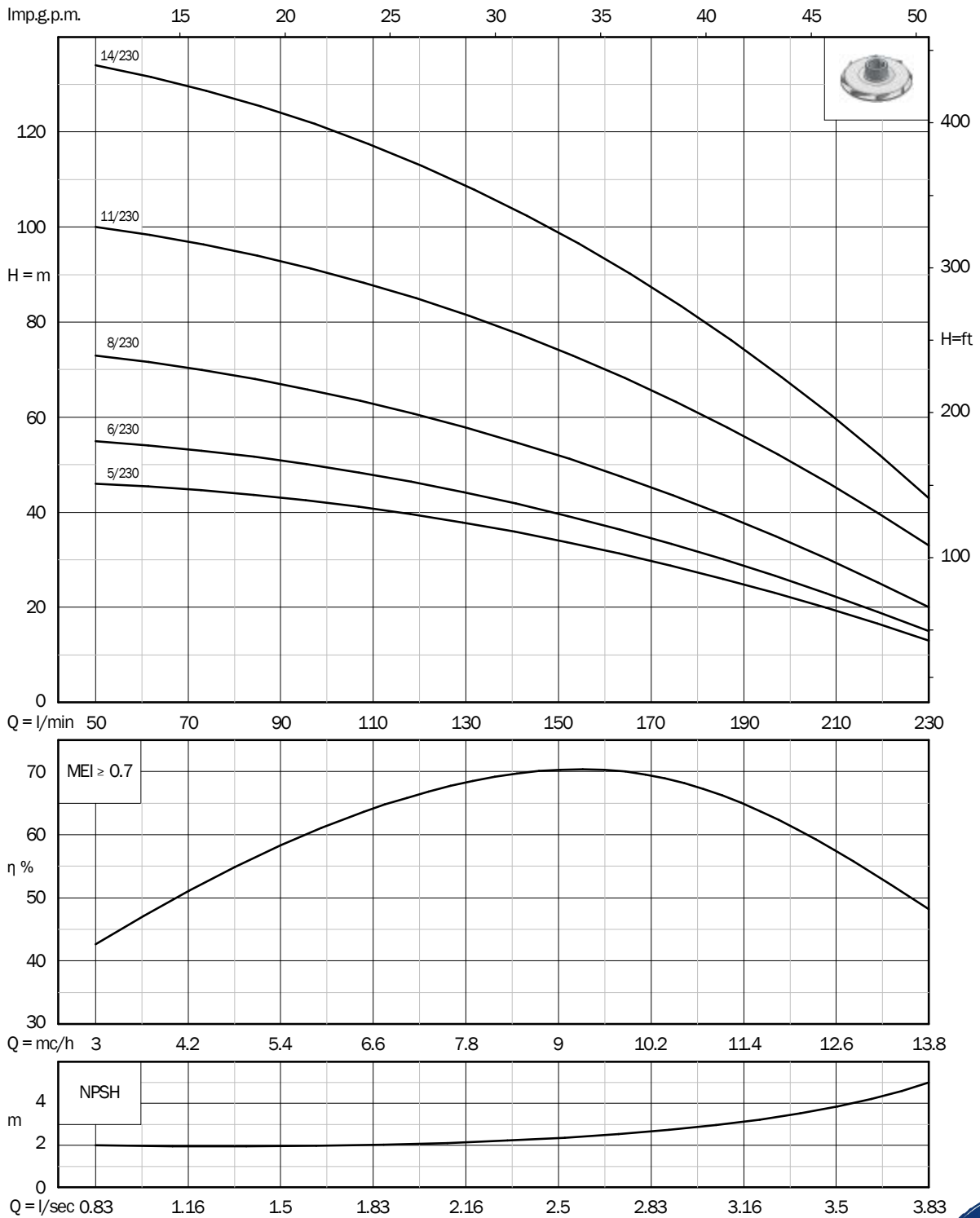


OPTIONS

Mechanical seal: silicon carbide and alumina




PERFORMANCE CURVES - 2 poles 50 Hz



External electric pumps CV series 330

vertical multistage

PERFORMANCE DATA - 2 poles 50 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA (GAS)	Dimensions (mm)				Weight
				hp	kW		l/min	m	DNM (GAS)	A	B	C	D	kg
CV 5/330	EM330/05	230 V	1-phase	3	2,2	14,5	100 - 230 - 330	46 - 32 - 14	1"½	733	286	180	51	29,6
	ET330/05/2	400 V	3-phase			5,1				714				29,6
CV 7/330	ET330/07/2	400 V	3-phase	4	3	6	100 - 230 - 330	61 - 45 - 20	1"½	820	358	180	51	35,3
CV 10/330	ET330/10/2	400 V	3-phase	5,5	4	8,4	100 - 230 - 330	94 - 66 - 29	1"½	930	466	180	51	41,1
CV 14/330	ET330/14/2	400 V	3-phase	7,5	5,5	10,1	100 - 230 - 330	128 - 88 - 37	1"½	1083	610	180	51	51,5



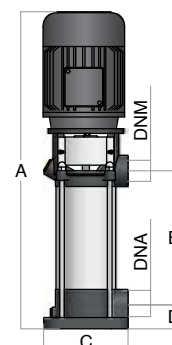
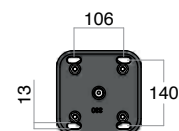
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Capacitor (single-phase versions)

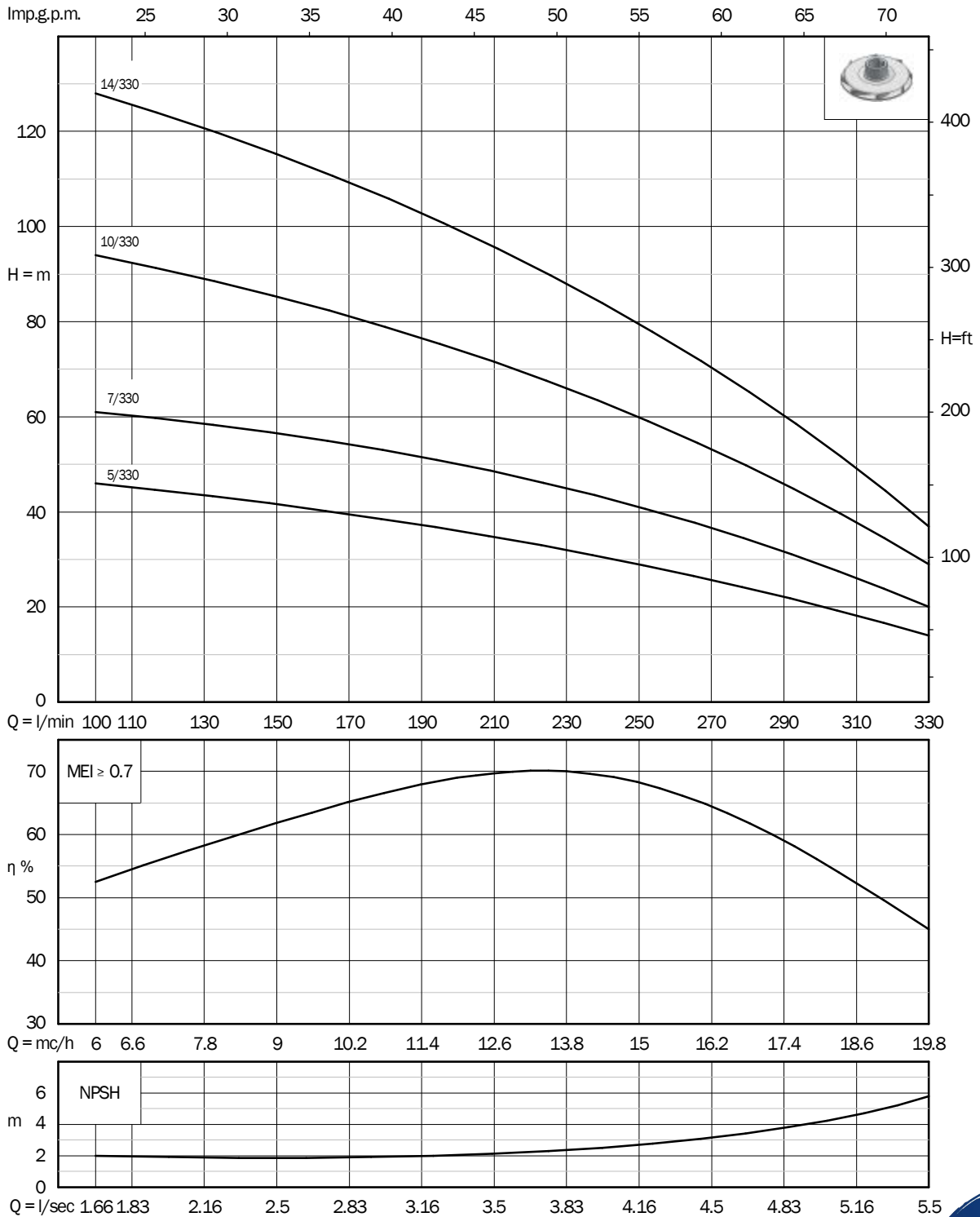


OPTIONS

Mechanical seal: silicon carbide and alumina




PERFORMANCE CURVES - 2 poles 50 Hz



External electric pumps CV series 530

vertical multistage

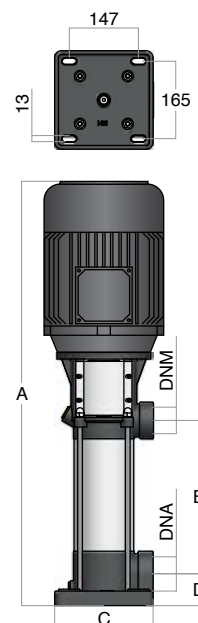
PERFORMANCE DATA - 2 poles 50 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA (GAS)	DNM (GAS)	Dimensions (mm)				Weight kg
				hp	kW		l/min	m			A	B	C	D	
CV 4/530	ET530/04/2	400 V	3-phase	4	3	6	200 - 330 - 550	36 - 32 - 10	2"½	2"	861	327	200	68	40,2
CV 6/530	ET530/06/2	400 V	3-phase	5,5	4	8,4	200 - 330 - 550	53 - 48 - 16	2"½	2"	963	427	200	68	45,7
CV 8/530	ET530/08/2	400 V	3-phase	7,5	5,5	10,1	200 - 330 - 550	70 - 64 - 21	2"½	2"	1072	527	200	68	54,7
CV 11/530	ET530/11/2	400 V	3-phase	10	7,5	14,3	200 - 330 - 550	97 - 87 - 29	2"½	2"	1277	677	200	68	71,4
CV 14/530	ET530/14/2	400 V	3-phase	12,5	9,2	17,7	200 - 330 - 550	123 - 111 - 37	2"½	2"	1465	827	200	68	85,2

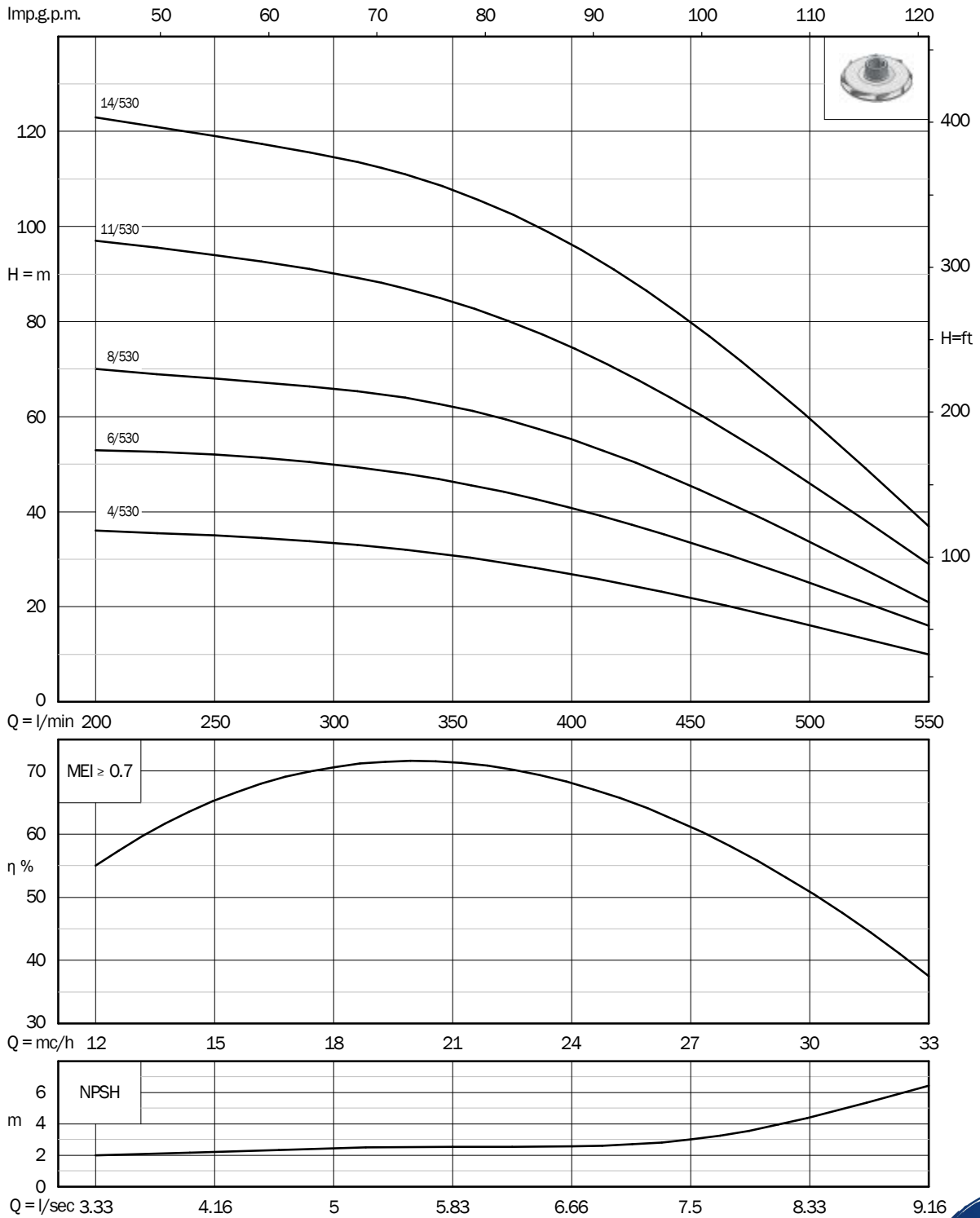


OPTIONS

Mechanical seal: silicon carbide and alumina




PERFORMANCE CURVES - 2 poles 50 Hz



External electric pumps CV series 700

vertical multistage

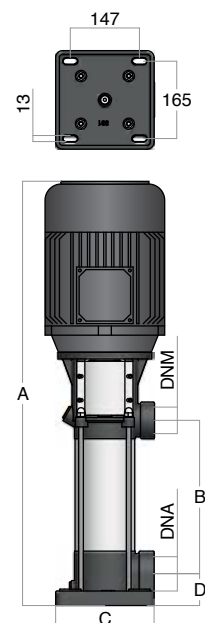
PERFORMANCE DATA - 2 poles 50 Hz

Semi-axial impeller 	Code	Version		P2		A	Flow		DNA (GAS)	DNM (GAS)	Dimensions (mm)				Weight kg
				hp	kW		l/min	m			A	B	C	D	
CV 3/700	ET700/03/2	400 V	3-phase	5,5	4	8,4	300 - 450 - 700	35 - 28 - 9	2"½	2"	897	361	200	68	45,3
CV 5/700	ET700/05/2	400 V	3-phase	7,5	5,5	10,1	300 - 450 - 700	59 - 46 - 14	2"½	2"	1062	517	200	68	55,1
CV 6/700	ET700/06/2	400 V	3-phase	10	7,5	14,3	300 - 450 - 700	68 - 54 - 17	2"½	2"	1195	595	200	68	70,8
CV 8/700	ET700/08/2	400 V	3-phase	12,5	9,2	17,7	300 - 450 - 700	93 - 76 - 29	2"½	2"	1389	751	200	68	84,7
CV 10/700	ET700/10/2	400 V	3-phase	15	11	19,4	300 - 450 - 700	116 - 96 - 36	2"½	2"	1626	907	200	68	91,1



OPTIONS

Mechanical seal: silicon carbide and alumina



PERFORMANCE CURVES - 2 poles 50 Hz

