

# 6C

## Submersible Borehole Pumps For 6" Well

### Construction

Submersible borehole pumps for 6"(150mm) deep wells with radial flow Impellers coupled with our high precision motors give splendid performance. Improved diffuser design gives better discharge properties. The noryl and hydraulic materials prevent the impellers from clogging even after long stationary periods.

### Applications

- Agriculture
- Domestic Building Services
- Commercial Building Services
- Public Utilities

### Operating Conditions

- Liquid temperature : upto 33 °C
- Total Solids : 3000ppm (Max.)
- Durability : 50ppm (Silica Scale Max.)
- Continuous duty

### Water filled Rewindable motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm)
- For single phase 220V and for Three Phase 440V
- Voltage tolerances : +6% -15%
- Insulation class : B

### Special features

- Available with three phase models
- Winding designs for different voltage supplies
- Construction with required metals

### MATERIAL SPECIFICATIONS

#### PUMP

Components	Materials
Suction Housing	Cast Iron FG 200
Diffuser	Noryl, GF30%
Impeller	Noryl, GF30%
Pump Shaft	SS 420
Sleeve	SS 410
NRV Body	Cast Iron
Locking Strip	SS 304
Guide Bushes	LTB4
Delivery Flange	SG Iron
Strainer	SS 202

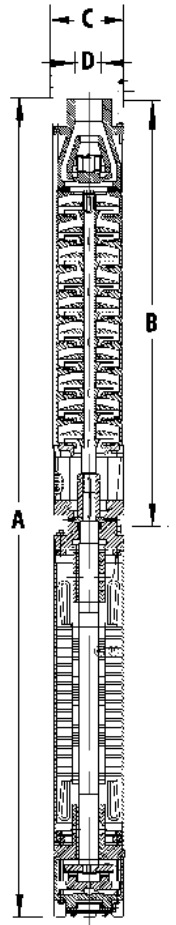
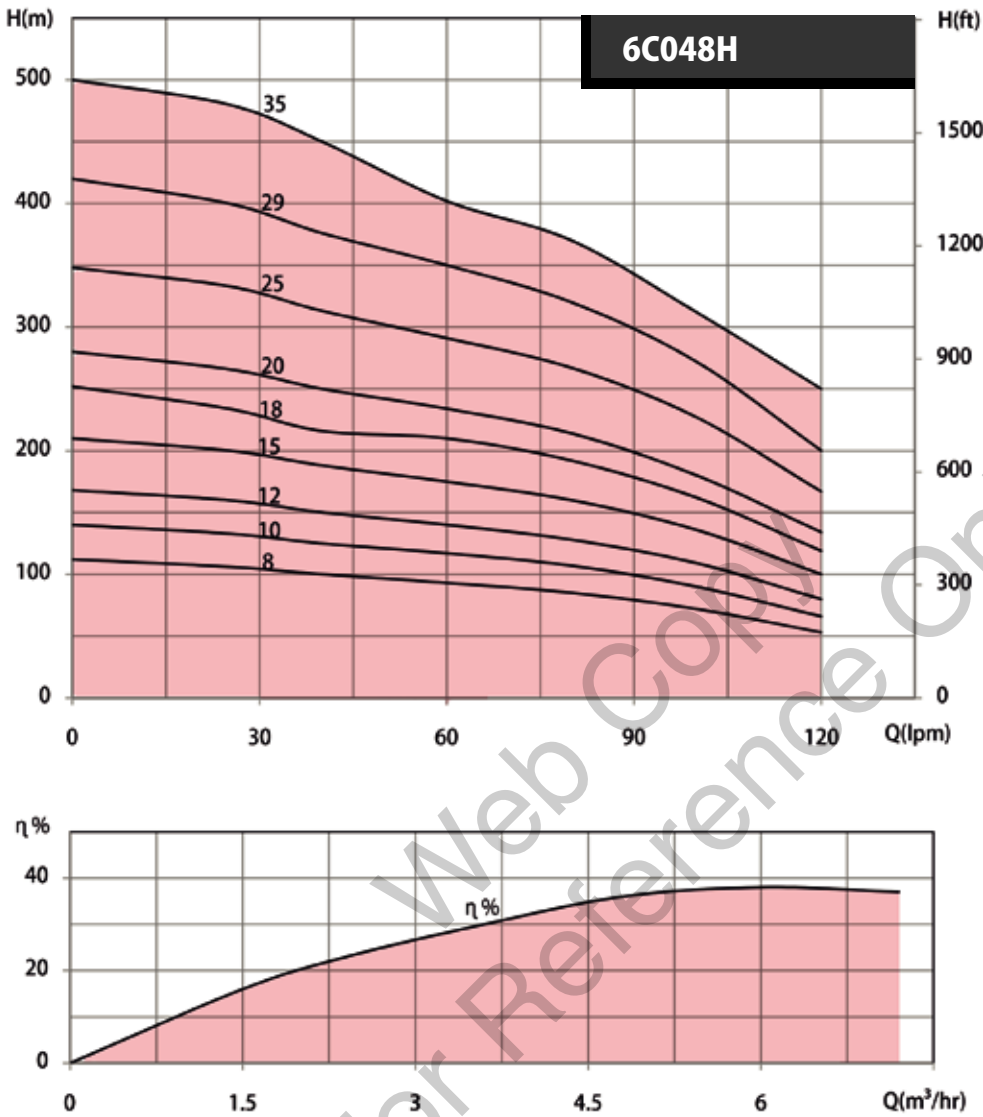
#### MOTOR

Components	Materials
Body	SS 304
Housings	Cast Iron FG 200
Rotor shaft	SS 420 (Hardened)
Thrust Bearing	Carbon , SS410
Bearing Bush	LTB4
Seal	Oil Seal, Nitrile Rubber



# 6C Submersible Borehole Pumps For 6" Well

## Characteristic Curves



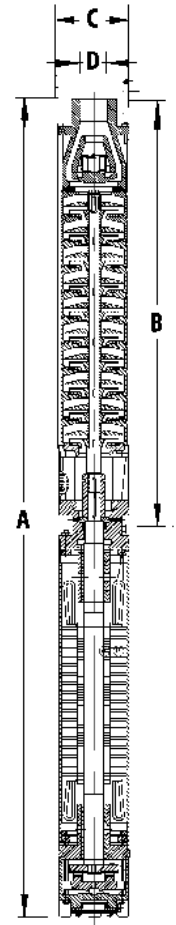
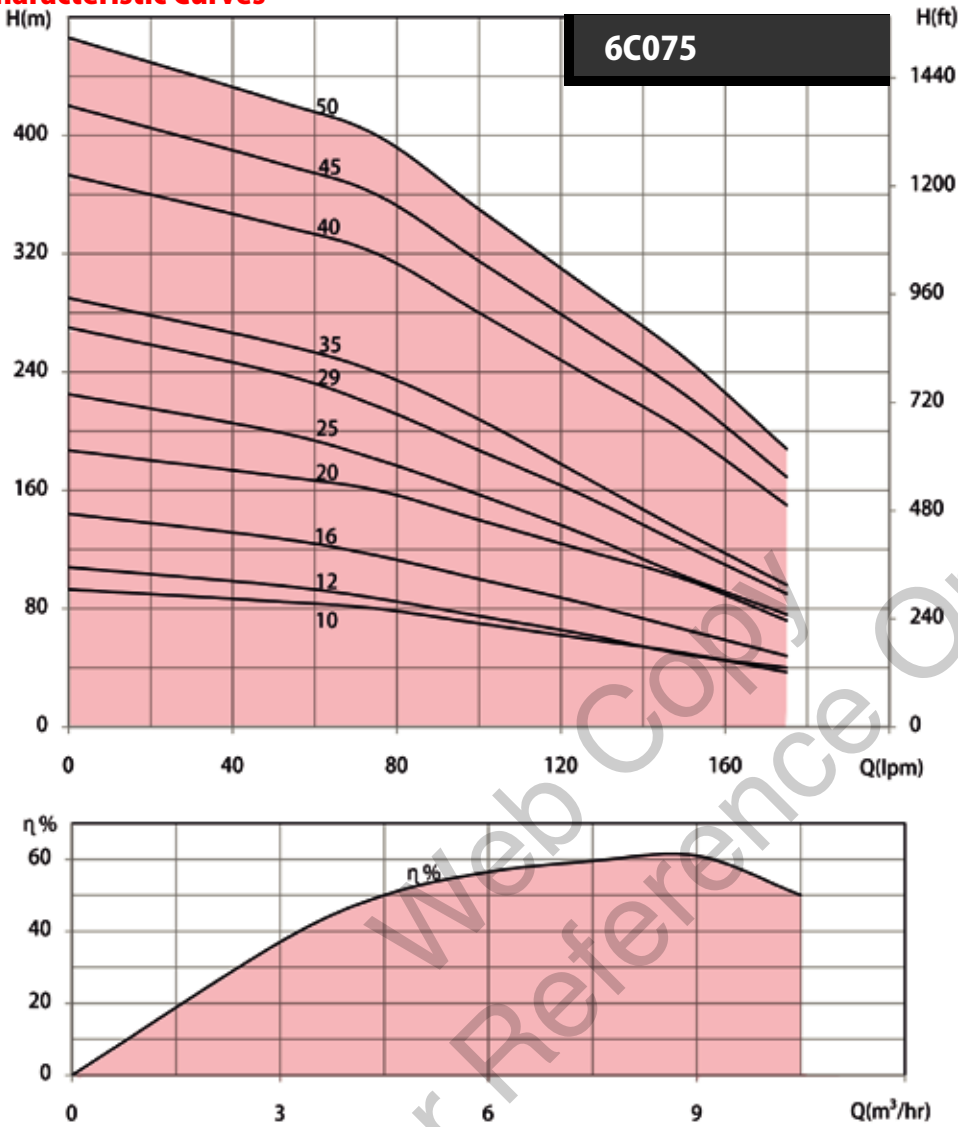
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	1.5	2.4	3.6	4.8	6.0	7.2	Dimension in mm			DNM
				Q - LPM	0	25	40	60	80	100	120	A	B	
6C048H/8	3.0	2.2	Total Head in Metres	112	106	100	93	85	72	53	1225	660	142	2"
6C048H/10	4.0	3.0		140	133	125	117	107	90	66	1305	740	142	2"
6C048H/12	5.0	3.7		168	160	150	140	128	109	80	1415	820	142	2"
6C048H/15	6.0	4.5		210	200	188	175	160	136	100	1555	940	142	2"
6C048H/18	7.5	5.5		252	234	216	210	192	162	119	1715	1060	142	2"
6C048H/20	7.5	5.5		280	266	250	234	214	180	134	1795	1140	142	2"
6C048H/25	10.0	7.5		348	333	313	291	267	227	167	2065	1340	142	2"
6C048H/29	12.5	9.3		420	400	376	350	320	272	200	2265	1500	142	2"
6C048H/35	15.0	11.0		500	480	450	402	370	312	250	2535	1740	142	2"

\* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

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## Characteristic Curves



## Hydraulic Performance & Dimensions

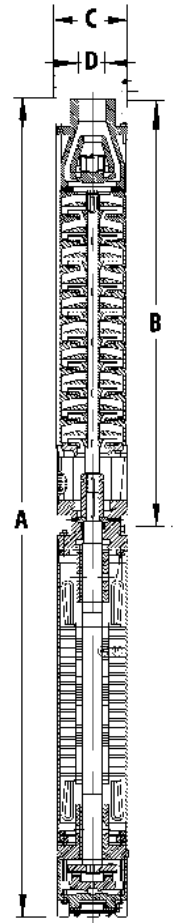
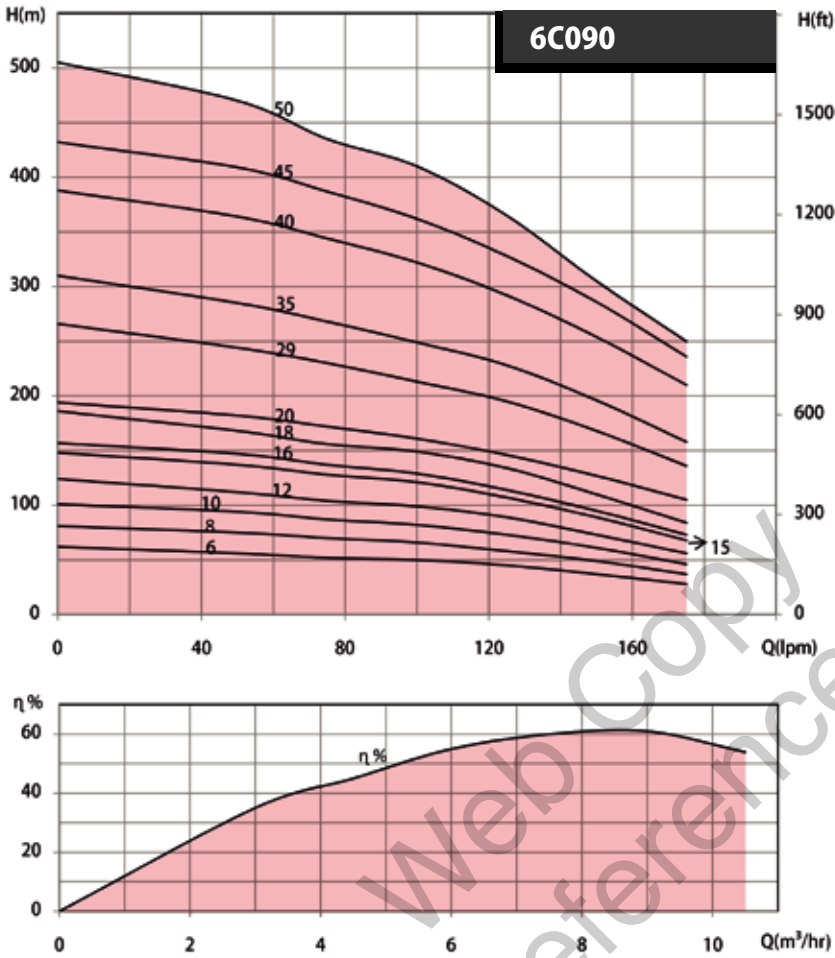
Product Code	HP	kW	Q - m³/hr	0	3.0	4.5	6.0	7.5	9.0	10.5	Dimension in mm			DNM
			Q - LPM	0	50	75	100	125	150	175	A	B	C	D
6C075/10	3.0	2.2	Total Head in Metres	93	85	80	70	60	50	37	1305	740	142	2"
6C075/12	3.0	2.2		108	96	87	75	63	49	40	1385	820	142	2"
6C075/16	4.0	3.0		144	128	116	100	84	66	48	1545	980	142	2"
6C075/20	5.0	3.7		187	170	160	140	120	100	72	1735	1140	142	2"
6C075/25	7.5	5.5		225	200	181	157	131	102	76	1995	1340	142	2"
6C075/28	7.5	5.5		252	224	202	177	147	115	84	2115	1460	142	2"
6C075/29	7.5	5.5		270	240	217	187	157	123	90	2155	1500	142	2"
6C075/35	7.5	5.5		290	260	240	208	170	132	96	2395	1740	142	2"
6C075/40	12.5	9.3		373	340	320	280	240	200	150	2705	1940	142	2"
6C075/45	15.0	11.0		420	382	360	315	270	225	169	2935	2140	142	2"
6C075/50	15.0	11.0	466	424	400	350	300	250	188	3135	2340	142	2"	

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## Submersible Borehole Pumps For 6" Well

### Characteristic Curves



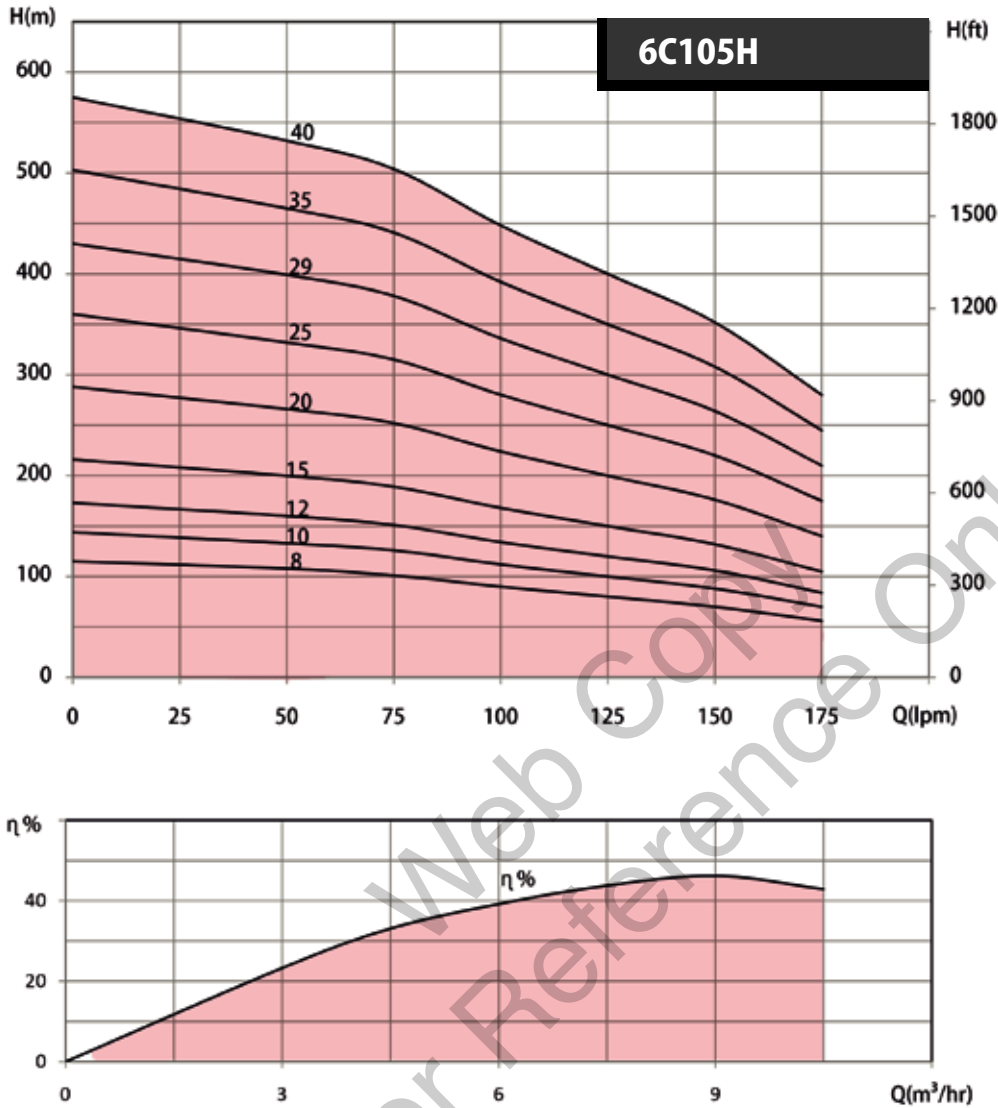
### Hydraulic Performance & Dimensions

6C 090	HP	kW	Q - m <sup>3</sup> /hr	0	3.0	4.5	6.0	7.5	9.0	10.5	Dimension in mm			DNM
			Q - LPM	0	50	75	100	125	150	175	A	B	C	D
6C090/6	3.0	2.2	Total Head in Metres	62	56	52	50	45	37	28	1145	580	142	2"
6C090/8	3.0	2.2		81	75	70	66	58	49	37	1225	660	142	2"
6C090/10	4.0	3.0		101	94	87	82	73	61	46	1305	740	142	2"
6C090/12	5.0	3.7		124	112	104	99	89	73	56	1415	820	142	2"
6C090/15	5.0	3.7		148	137	128	121	107	89	68	1535	940	142	2"
6C090/16	6.0	4.5		157	147	137	129	114	95	73	1595	980	142	2"
6C090/18	7.5	5.5		186	168	156	149	134	110	84	1715	1060	142	2"
6C090/20	7.5	5.5		194	182	172	161	146	127	105	1795	1140	142	2"
6C090/29	10.0	7.5		266	244	230	213	195	168	136	2225	1500	142	2"
6C090/35	12.5	9.3		310	285	268	249	228	196	158	2505	1740	142	2"
6C090/40	15.0	11.0		388	364	344	322	292	254	210	2735	1940	142	2"
6C090/45	20.0	15.0		432	409	387	362	328	286	236	3025	2140	142	2"
6C090/50	20.0	15.0	505	470	435	410	365	305	250	3225	2340	142.0	2"	

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## Characteristic Curves



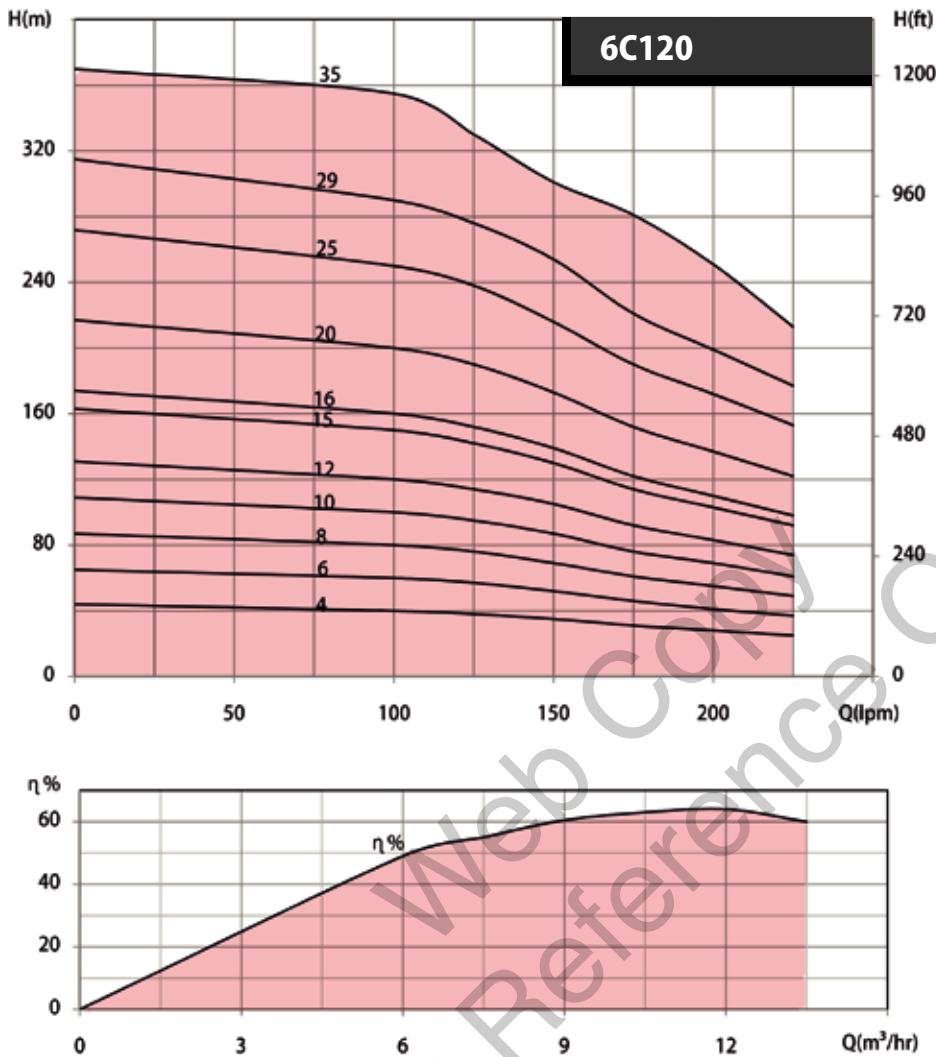
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr								Dimension in mm				DNM
			0	3.0	4.5	6.0	7.5	9.0	10.5	175	A	B	C	D	
6C105H/8	4.0	3.0	115	108	101	90	80	70	56	1225	660	142	2"		
6C105H/10	5	3.7	144	133	126	112	100	88	70	1335	740	142	2"		
6C105H/12	6.0	4.5	173	160	151	134	120	106	84	1435	820	142	2"		
6C105H/15	7.5	5.5	216	200	189	168	150	132	105	1595	940	142	2"		
6C105H/20	10.0	7.5	288	266	252	224	200	176	140	1865	1140	142	2"		
6C105H/25	12.5	9.3	360	332	315	280	250	220	175	2105	1340	142	2"		
6C105H/29	15.0	11.0	430	399	378	336	300	264	210	2295	1500	142	2"		
6C105H/35	17.5	13.2	503	465	441	392	350	308	245	2585	1740	142	2"		
6C105H/40	20.0	15.0	575	532	504	448	400	352	280	2825	1940	142	2"		

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## Characteristic Curves



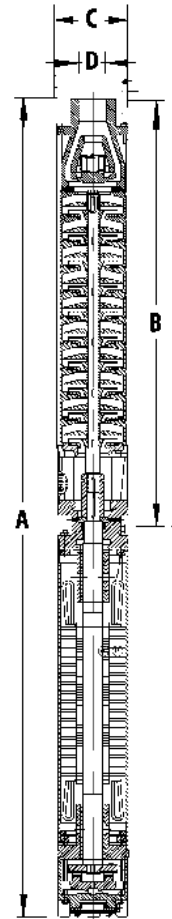
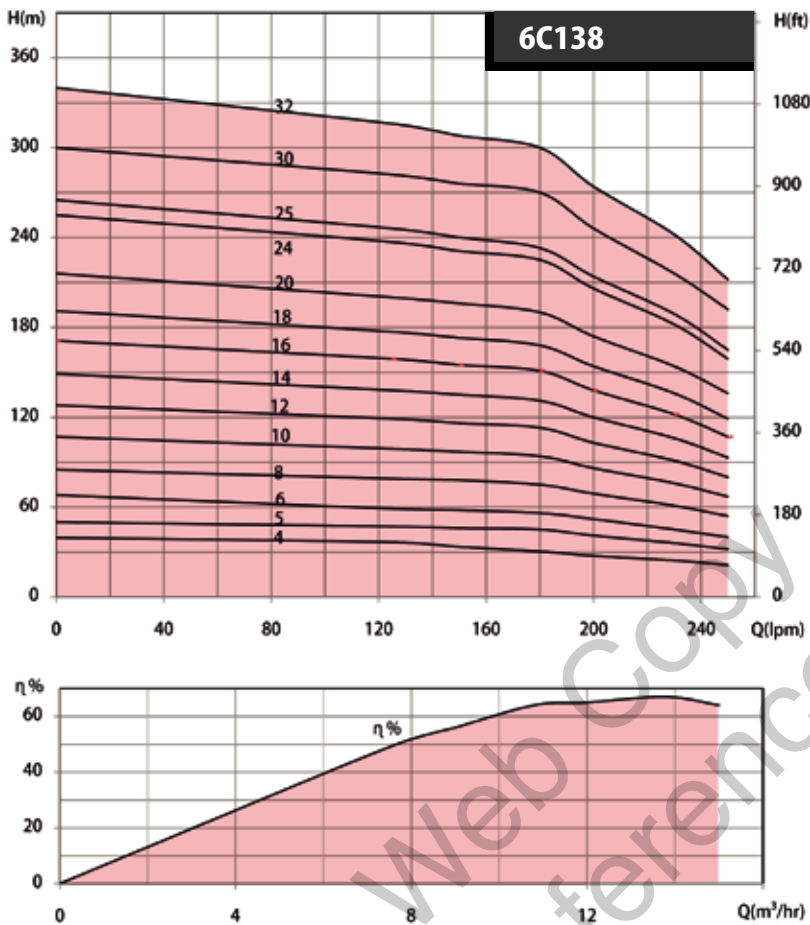
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m <sup>3</sup> /hr	0	6.0	7.5	9.0	10.5	12.0	13.5	Dimension in mm				DNM
				Q - LPM	0	100	125	150	175	200	225	A	B	C	
6C120/4	3.0	2.2	Total Head in Metres	44	40	38	35	31	28	25	1065	500	142	2"	
6C120/6	3.0	2.2		65	60	57	52	46	41	37	1145	580	142	2"	
6C120/8	4.0	3.0		87	80	76	69	61	55	49	1225	660	142	2"	
6C120/10	5.0	3.7		109	100	95	87	76	69	61	1335	740	142	2"	
6C120/12	6.0	4.5		131	120	114	105	92	83	74	1435	820	142	2"	
6C120/15	7.5	5.5		163	150	142	130	114	103	92	1595	940	142	2"	
6C120/16	7.5	5.5		174	160	152	139	122	110	98	1635	980	142	2"	
6C120/20	10.0	7.5		217	200	190	173	152	137	122	1865	1140	142	2"	
6C120/25	12.5	9.3		272	250	238	216	190	172	153	2105	1340	142	2"	
6C120/29	15.0	11.0		315	290	276	254	221	199	177	2295	1500	142	2"	
6C120/35	17.5	13.2		370	355	330	301	281	251	213	2585	1740	142	2"	

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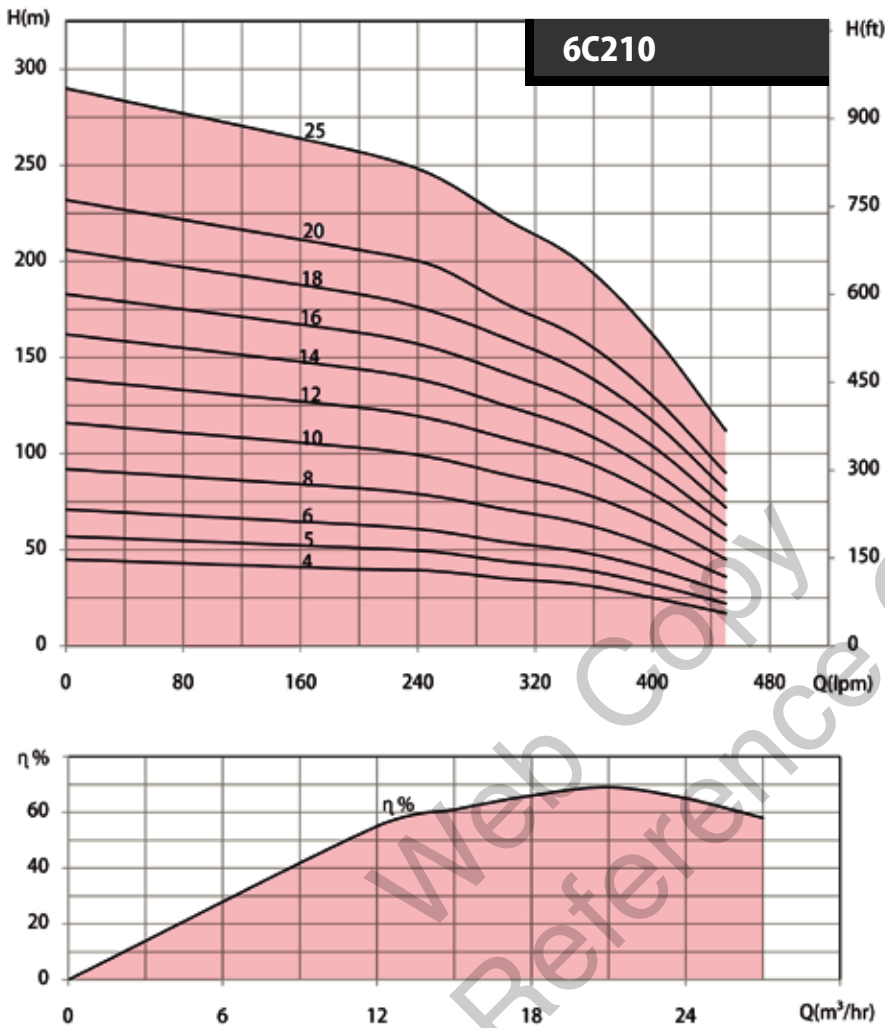
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m <sup>3</sup> /hr								Dimension in mm				DNM
			0	7.5	9.0	10.8	12.0	13.8	15.0	A	B	C	D		
6C138/4	3.0	2.2	43	40	39	37	35	31	27	1105	540	142	2"		
6C138/5	3.0	2.2	50	47	46	45	41	36	32	1155	590	142	2"		
6C138/6	4.0	3.0	68	59	58	56	52	45	40	1205	640	142	2"		
6C138/8	5.0	3.7	85	79	78	75	69	61	54	1355	740	142	2"		
6C138/10	7.5	5.5	108	100	98	95	87	77	68	1495	840	142	2"		
6C138/12	7.5	5.5	128	119	116	113	103	91	80	1595	940	142	2"		
6C138/14	10.0	7.5	149	138	135	131	120	106	93	1805	1040	142	2"		
6C138/16	10.0	7.5	170	158	154	150	137	121	106	1905	1140	142	2"		
6C138/18	12.5	9.3	191	177	173	168	154	136	119	2005	1240	142	2"		
6C138/20	12.5	9.3	216	200	196	190	174	154	136	2105	1340	142	2"		
6C138/24	15.0	11.3	255	237	231	225	206	182	159	2335	1540	142	2"		
6C138/25	17.5	13.2	265	246	240	233	214	189	165	2435	1590	142	2"		
6C138/30	17.5	13.2	300	282	276	270	246	216	192	2685	1840	142	2"		
6C138/32	20.0	15.0	340	316	308	300	274	242	212	2825	1940	142	2"		

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## Characteristic Curves



## Hydraulic Performance & Dimensions

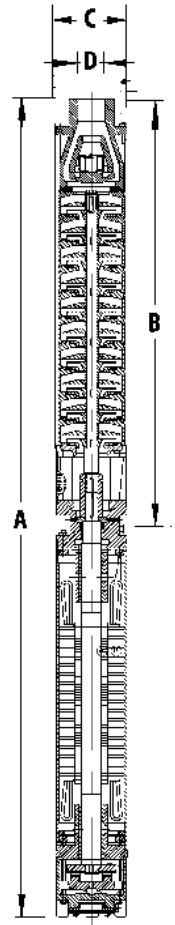
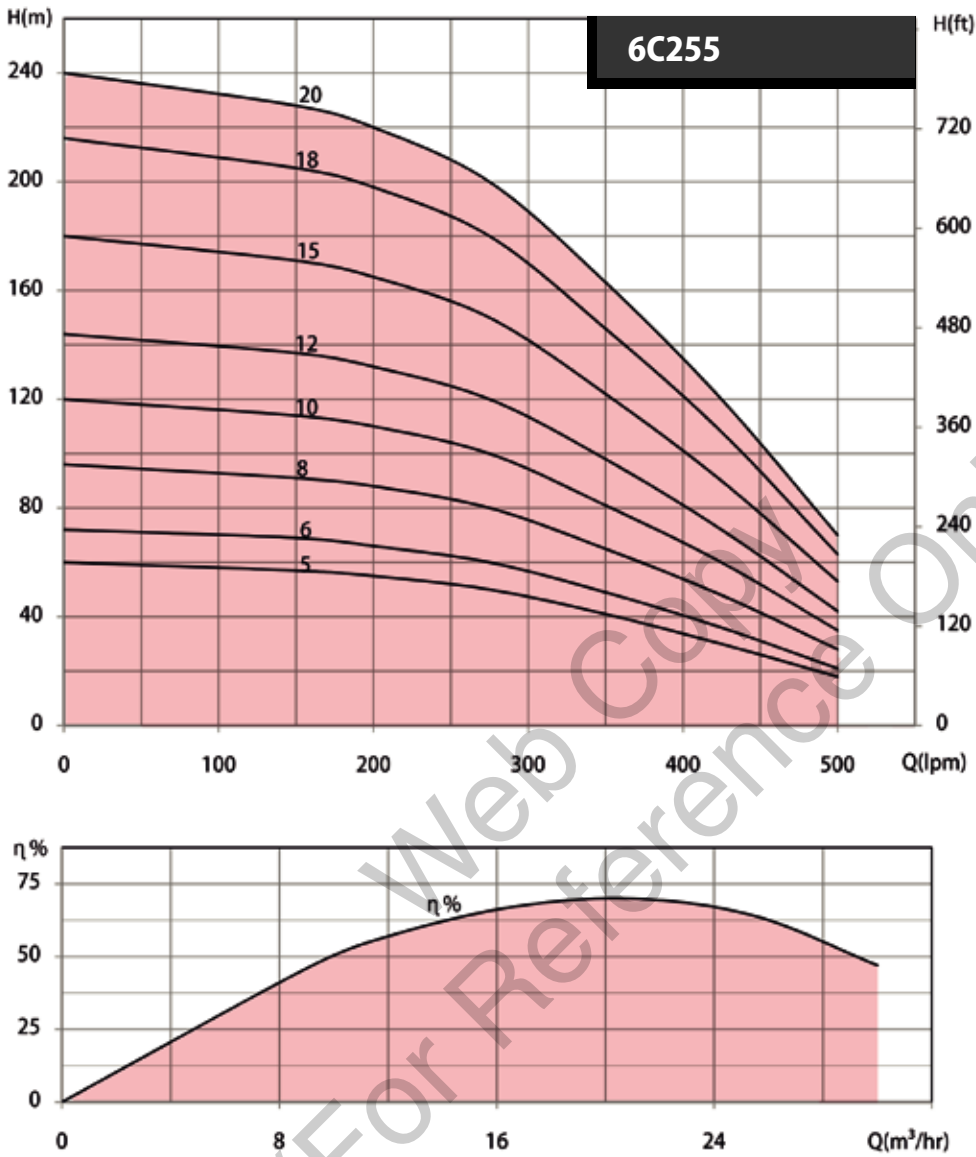
Product Code	HP	kW	Q - m³/hr	0	12.0	15.0	18.0	21.0	24.0	27.0	Dimension in mm				DNM
			Q - LPM	0	200	250	300	350	400	450	A	B	C	D	
6C210/4	4.0	3.0	Total Head in Metres	45	40	39	35	32	25	17	1105	540	142	2"	
6C210/5	5.0	3.7		57	51	49	44	40	32	22	1185	590	142	2"	
6C210/6	6.0	4.5		71	63	60	54	49	40	28	1255	640	142	2"	
6C210/8	7.5	5.5		92	82	78	71	64	52	36	1395	740	142	2"	
6C210/10	10.0	7.5		116	103	98	89	80	65	45	1565	840	142	2"	
6C210/12	12.5	9.3		139	124	118	108	97	79	55	1705	940	142	2"	
6C210/14	12.5	9.3		162	144	137	125	112	91	63	1805	1040	142	2"	
6C210/16	15.0	11.3		183	163	155	142	127	104	72	1935	1140	142	2"	
6C210/18	17.5	13.2		206	183	174	160	143	117	81	2085	1240	142	2"	
6C210/20	20.0	15.0		232	206	198	178	160	130	90	2185	1340	142	2"	
6C210/25	25.0	19.0	290	257	245	222	200	162	112	2515	1590	142	2"		

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## Characteristic Curves



## Hydraulic Performance & Dimensions

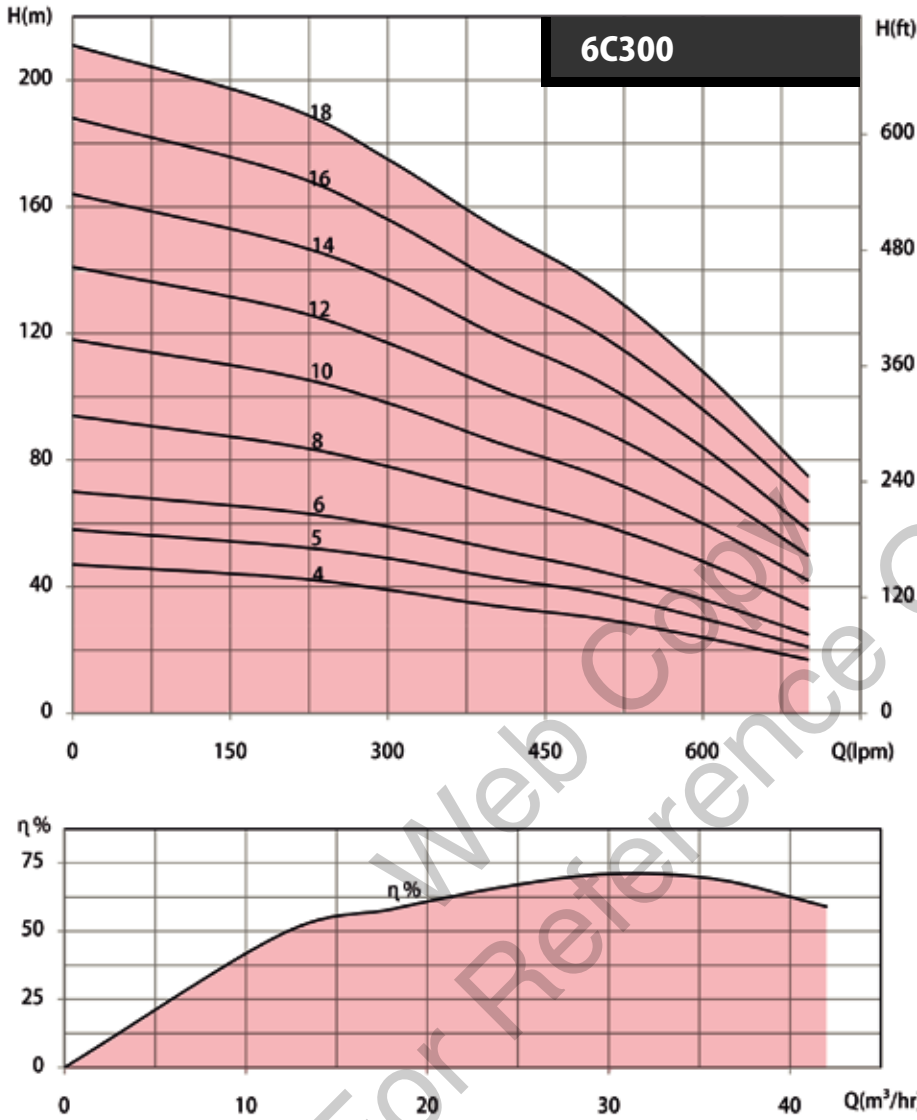
Product Code	HP	kW	Q - m³/hr	0	9.0	12.0	16.5	21.0	25.5	30.0	Dimension in mm				DNM
			Q - LPM	0	150	200	275	350	425	500	A	B	C	D	
6C255/5	5.0	3.7	Total Head in Metres	60	57	55	50	41	30	18	1300	705	142	2.5"	
6C255/6	6.0	4.5		72	69	66	60	49	36	21	1395	780	142	2.5"	
6C255/8	7.5	5.5		96	91	88	80	65	48	28	1585	930	142	2.5"	
6C255/10	10.0	7.5		120	114	110	100	81	60	35	1805	1080	142	2.5"	
6C255/12	12.5	9.3		144	137	132	120	98	72	42	1995	1230	142	2.5"	
6C255/15	15.0	11.0		180	171	165	150	122	90	53	2250	1455	142	2.5"	
6C255/18	17.5	13.2		216	205	198	180	146	108	63	2525	1680	142	2.5"	
6C255/20	20.0	15.0		240	228	220	200	163	120	70	2715	1830	142	2.5"	

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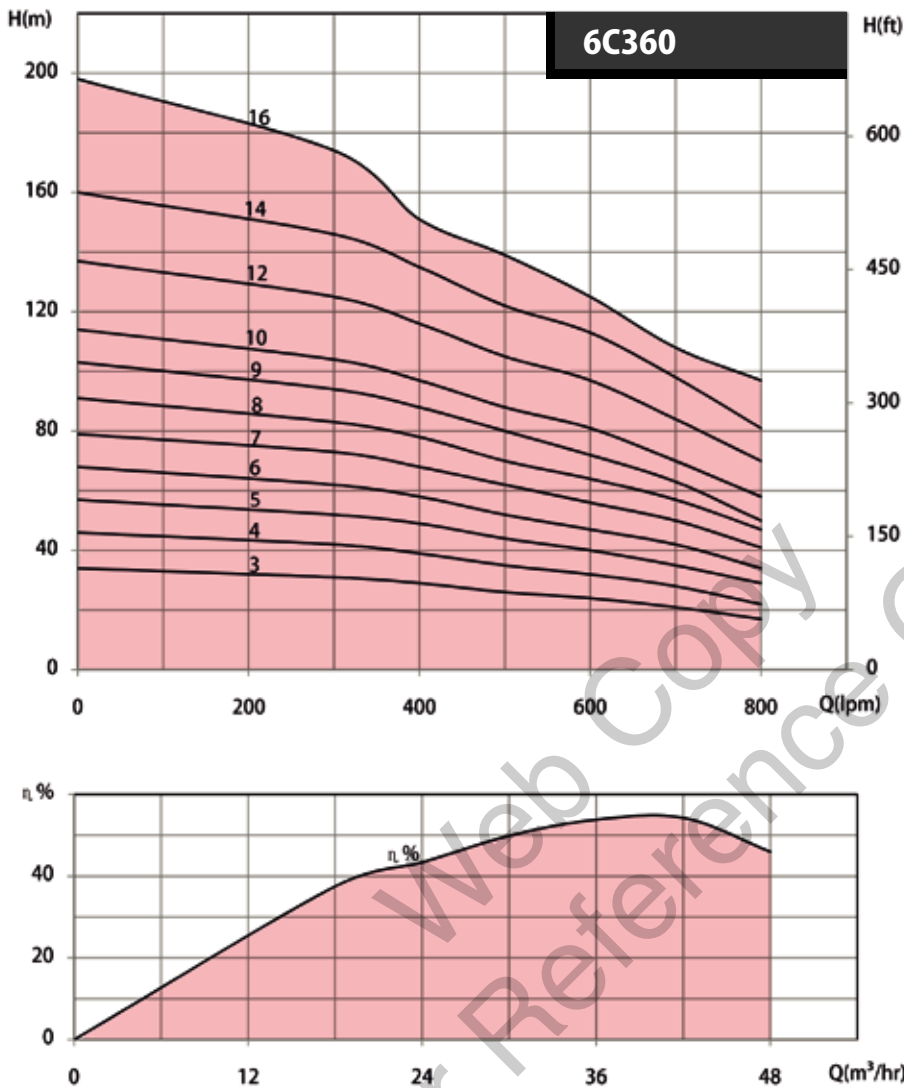
### Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	12.0	18.0	24.0	30.0	36.0	42.0	Dimension in mm				DNM
				Q - LPM	0	200	300	400	500	600	700	A	B	C	
6C300/4	5.0	3.7	Total Head in Metres	47	43	39	34	30	24	17	1305	710	142	2.5"	
6C300/5	6.0	4.5		58	53	49	43	38	30	21	1430	815	142	2.5"	
6C300/6	7.5	5.5		70	64	59	52	45	36	25	1575	920	142	2.5"	
6C300/8	10.0	7.5		94	85	78	69	60	48	33	1855	1130	142	2.5"	
6C300/10	12.5	9.3		118	107	98	86	75	60	42	2105	1340	142	2.5"	
6C300/12	15.0	11.0		141	128	117	103	90	72	50	2345	1550	142	2.5"	
6C300/14	17.5	13.2		164	149	137	120	105	84	58	2605	1760	142	2.5"	
6C300/16	20.0	15.0		188	171	156	137	120	96	67	2855	1970	142	2.5"	
6C300/18	22.5	17.0		211	192	175	154	135	108	75	3105	2180	142	2.5"	

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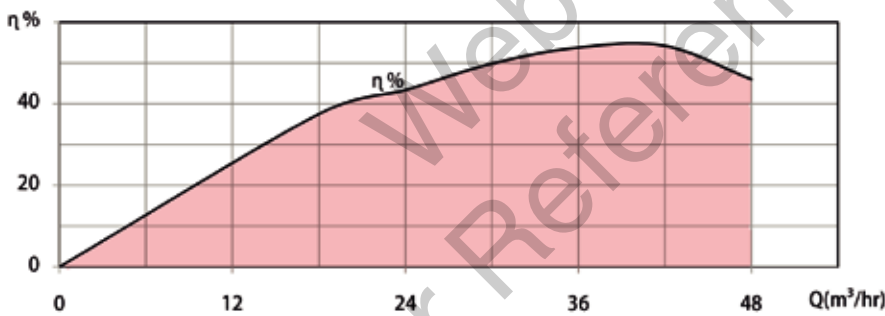
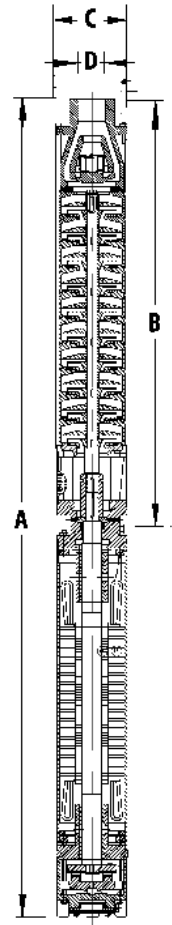
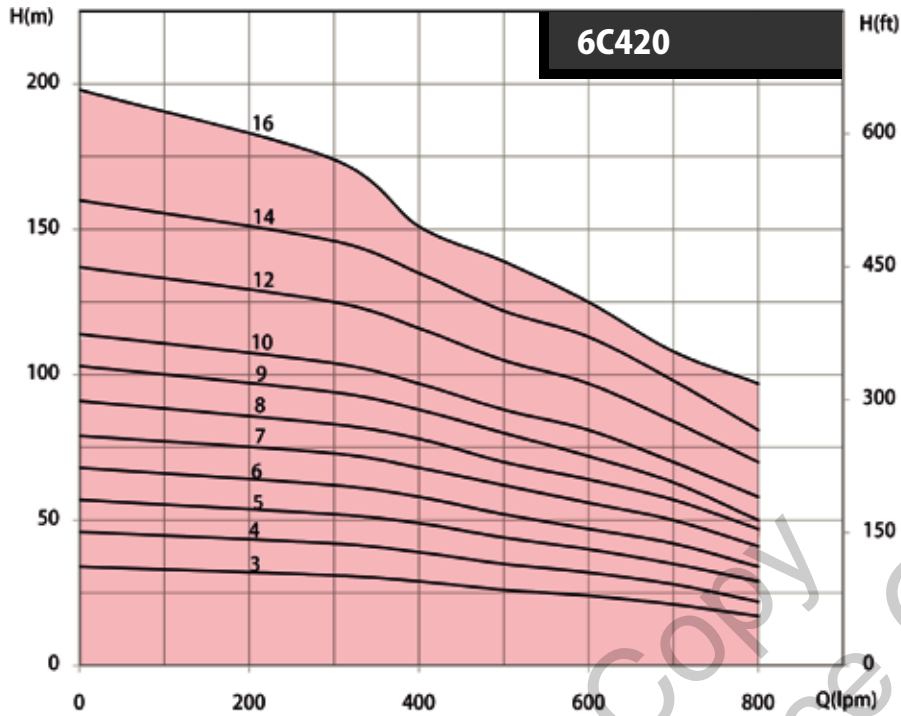
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	18.0	24.0	30.0	36.0	42.0	48.0	Dimension in mm				DNM
				Q - LPM	0	300	400	500	600	700	800	A	B	C	
6C360/3	5.0	3.7	Total Head in Metres	34	29	27	24	21	17	13	1200	605	142	2.5"	
6C360/4	6.0	4.5		45	42	38	34	30	25	19	1325	710	142	2.5"	
6C360/5	7.5	5.5		58	52	47	42	36	31	24	1470	815	142	2.5"	
6C360/6	10.0	7.5		71	62	56	50	43	37	29	1645	920	142	2.5"	
6C360/7	12.5	9.3		81	75	68	61	53	45	35	1790	1025	142	2.5"	
6C360/8	12.5	9.3		92	84	76	68	60	50	38	1895	1130	142	2.5"	
6C360/9	15.0	11.0		104	96	87	78	67	57	44	2030	1235	142	2.5"	
6C360/10	15.0	11.0		114	103	94	84	73	62	47	2135	1340	142	2.5"	
6C360/12	20.0	15.0		138	126	114	102	88	75	58	2435	1550	142	2.5"	
6C360/14	22.5	17.0		161	148	134	120	104	88	68	2685	1760	142	2.5"	
6C360/16	25.0	19.0		182	171	154	140	122	102	90	2895	1970	142	2.5"	

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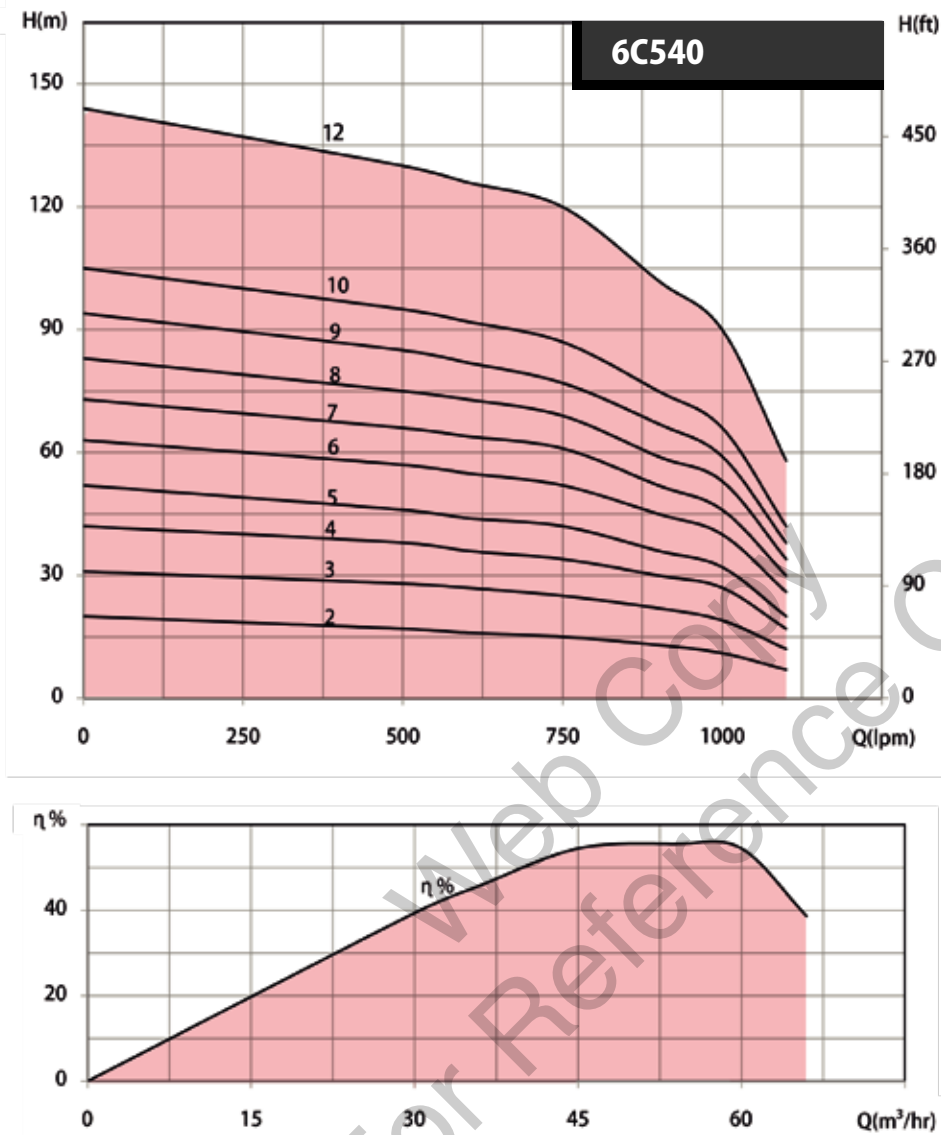
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m <sup>3</sup> /hr	0	18.0	24.0	30.0	36.0	42.0	48.0	Dimension in mm			DNM
				Q - LPM	0	300	400	500	600	700	800	A	B	C
6C420/3	5.0	3.7	Total Head in Metres	34	31	29	26	24	21	17	1175	580	142	3"
6C420/4	6	4.5		46	42	39	35	32	28	22	1300	685	142	3"
6C420/5	7.5	5.5		57	52	49	44	40	35	29	1445	790	142	3"
6C420/6	10	7.5		68	62	58	52	47	42	34	1620	895	142	3"
6C420/7	12.5	9.3		79	73	68	62	56	50	41	1765	1000	142	3"
6C420/8	15	11		91	83	78	70	64	57	47	1900	1105	142	3"
6C420/9	15.0	11.0		103	94	88	80	72	63	50	2005	1210	142	3"
6C420/10	17.5	13.2		114	104	97	88	81	70	58	2160	1315	142	3"
6C420/12	20.0	15.0		137	125	116	105	97	84	70	2450	1525	142	3"
6C420/14	22.5	17		160	146	135	122	113	98	81	2660	1735	142	3"
6C420/16	25.0	19.0		198	174	151	139	125	108	97	2870	1945	142	3"

\* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

# 6C Submersible Borehole Pumps For 6" Well

## Characteristic Curves



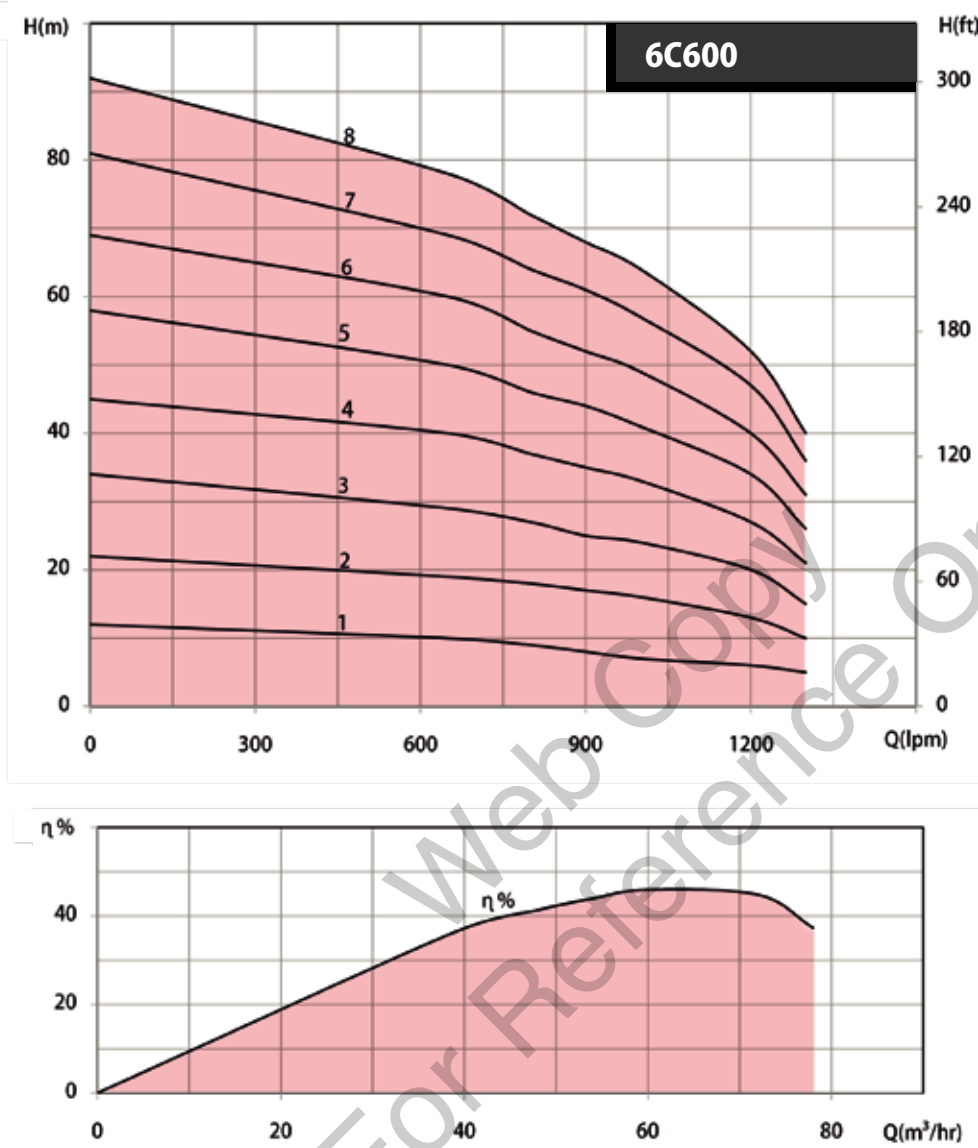
## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m <sup>3</sup> /hr								Dimension in mm				DNM
			0	30.0	36.0	45.0	54.0	60.0	66.0	A	B	C	D		
6C540/2	5.0	3.7	0	30.0	36.0	45.0	54.0	60.0	66.0	1070	475	142	3"		
6C540/3	7.5	5.5	0	500	600	750	900	1000	1100	1340	580	142	3"		
6C540/4	10.0	7.5	0	500	600	750	900	1000	1100	1515	685	142	3"		
6C540/5	12.5	9.3	0	500	600	750	900	1000	1100	1660	790	142	3"		
6C540/6	15.0	11.0	0	500	600	750	900	1000	1100	1690	895	142	3"		
6C540/7	17.5	13	0	500	600	750	900	1000	1100	1845	1000	142	3"		
6C540/8	20.0	15.0	0	500	600	750	900	1000	1100	1990	1105	142	3"		
6C540/9	22.5	17.0	0	500	600	750	900	1000	1100	2135	1210	142	3"		
6C540/10	25.0	19.0	0	500	600	750	900	1000	1100	2240	1315	142	3"		
6C540/12	30.0	22.5	0	500	600	750	900	1000	1100	2700	1735	142	3"		

\* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

# 6C Submersible Borehole Pumps For 6" Well

## Characteristic Curves



## Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m <sup>3</sup> /hr	0	39.0	48.0	54.0	60.0	72.0	78.0	Dimension in mm			DNM
				Q - LPM	0	650	800	900	1000	1200	1300	A	B	C
6C600/1	3.0	2.2	Total Head in Metres	12	10	9	8	7	6	5	935	370	142	3"
6C600/2	6.0	4.5		22	19	18	17	16	13	10	1090	475	142	3"
6C600/3	10.0	7.5		34	29	27	25	24	20	15	1305	580	142	3"
6C600/4	12.5	9.3		45	40	37	35	33	27	21	1555	685	142	3"
6C600/5	15.0	11.0		58	50	46	44	41	34	26	1690	790	142	3"
6C600/6	17.5	13.0		69	60	55	52	49	40	31	1845	895	142	3"
6C600/7	20.0	15.0		81	69	64	61	57	47	36	1885	1000	142	3"
6C600/8	25.0	19.0		92	78	72	68	64	52	40	2030	1105	142	3"

\* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter