

8C Submersible Borehole Pumps For 8" Well

Construction

Submersible borehole 8"(200mm) pumps for deep wells are constructed with LTB Radial flow impellers and cast iron diffusers. The specially designed Impeller and diffuser achieve both high head and discharge performances. The Cast Iron and hydraulic materials prevent the impeller from clogging even after long stationary periods.

Applications

- Agriculture
- Domestic Building Services
- Public Utilities

Operating Conditions

- Liquid temperature : upto 50 °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 230V and for Three Phase 440V
- Voltage tolerances : +6% -15%
- Insulation class : B

Special features

- Versions for star/delta start (SD)
- Special Winding designs for different voltage supplies

MATERIAL SPECIFICATIONS

PUMP

Components	Materials
Suction Housing	Cast Iron FG 200
Diffuser	Cast Iron FG 200
Impeller	SS 410/Gun Metal
Pump Shaft	SS 420
Sleeve	SS 410
NRV Body	Cast Iron
Locking Strip	SS 304
Guide Bushes	LTB4, Rubber
Strainer	SS 202

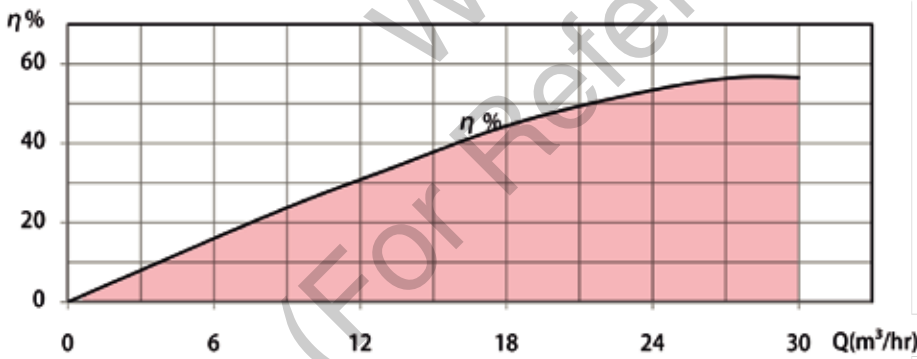
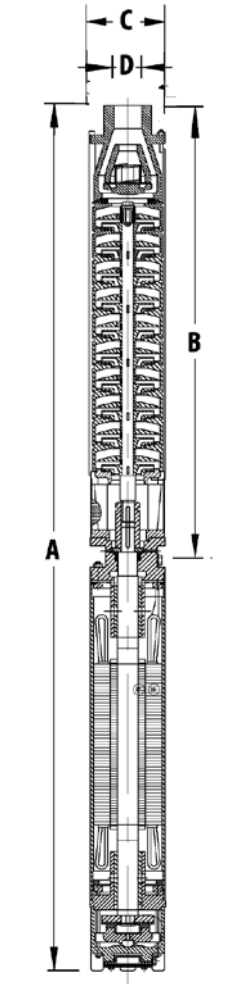
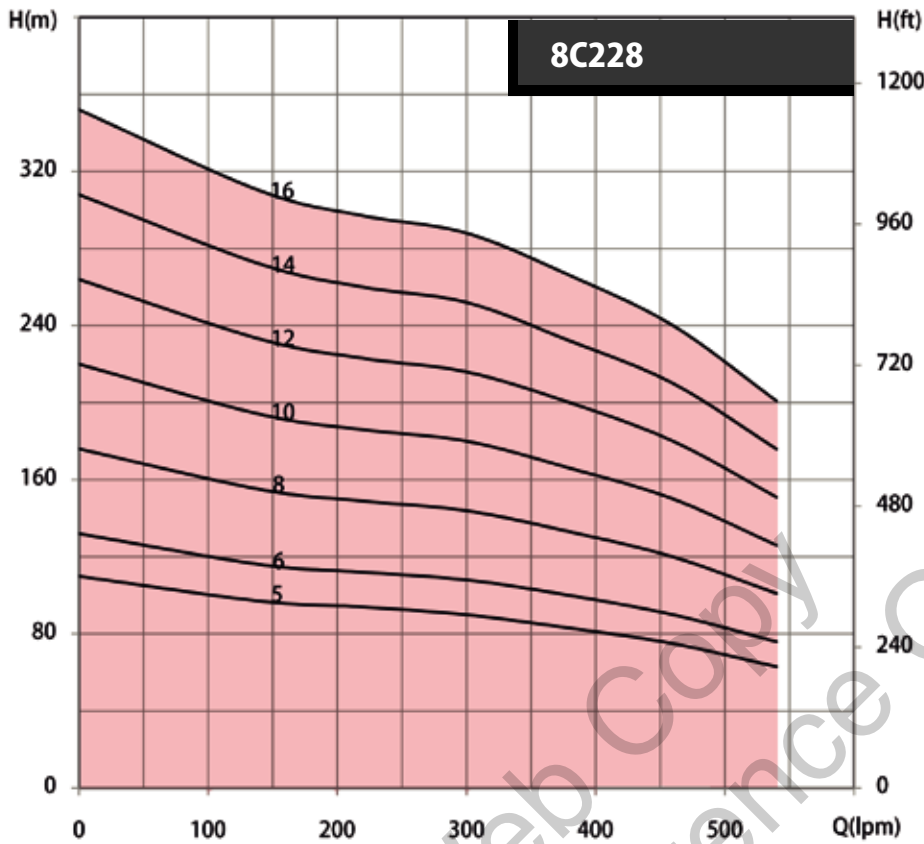
MOTOR

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



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Characteristic Curves



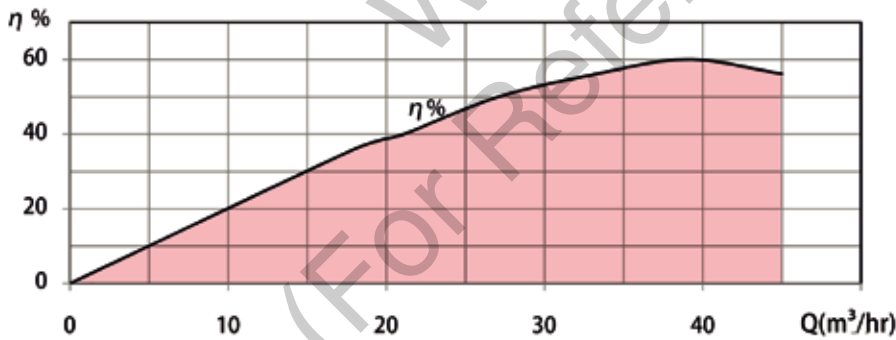
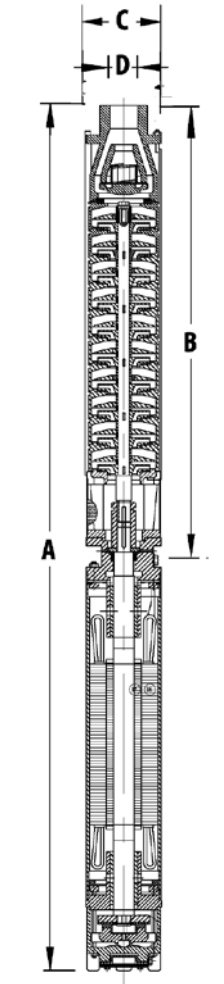
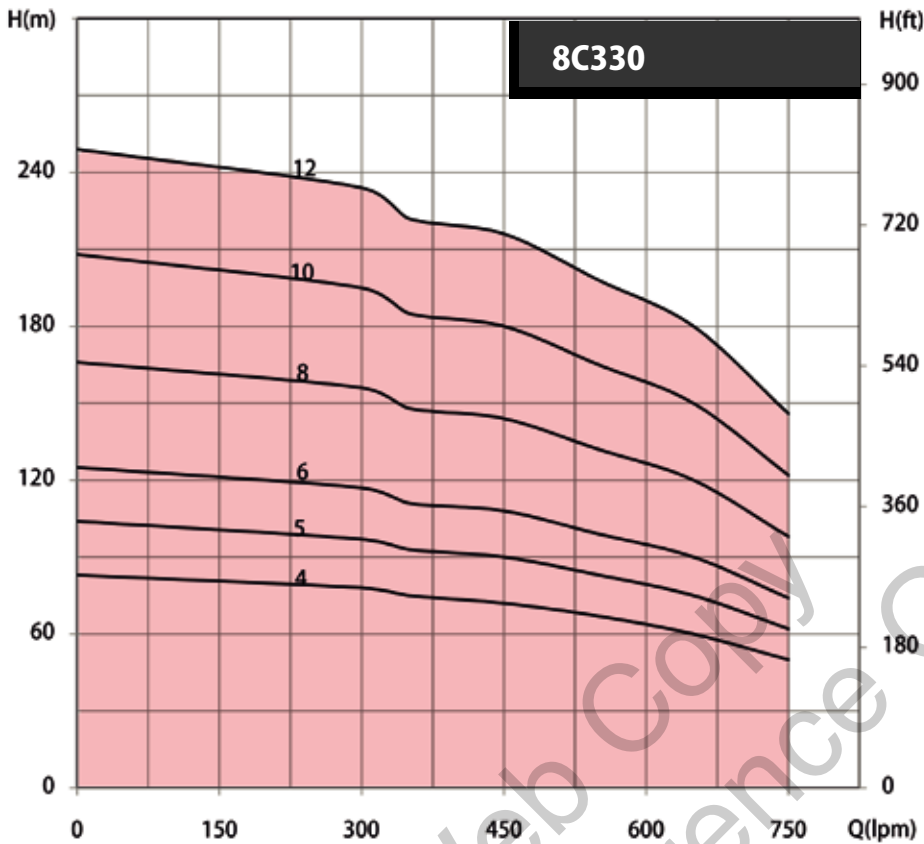
Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	8.4	13.2	18.0	22.8	27.6	32.4	Dimension in mm				DNM
			Q - LPM	0	140	220	300	380	460	540	A	B	C	D	
8C228/5	12.5	9.3	Total Head in Metres	110	97	94	90	83	75	63	1488	645	180	3"	
8C228/6	15.0	11.0		132	116	112	108	100	90	76	1553	710	180	3"	
8C228/8	20.0	15.0		176	155	149	144	133	120	101	1733	840	180	3"	
8C228/10	25.0	19.0		220	194	186	180	166	150	126	1903	970	180	3"	
8C228/12	30.0	22.0		264	233	223	216	200	180	151	2093	1100	180	3"	
8C228/14	35.0	26.5		308	272	260	252	232	210	176	2223	1230	180	3"	
8C228/16	40.0	30.0		352	310	297	288	266	240	201	2403	1360	180	3"	

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

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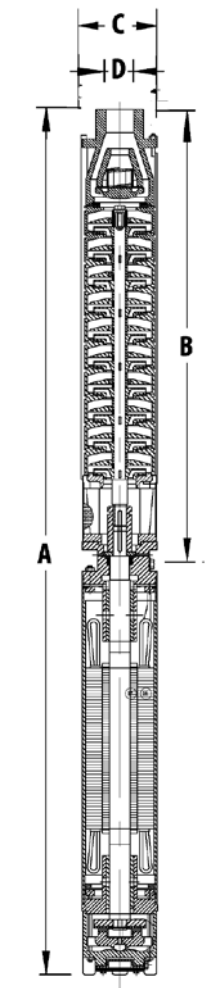
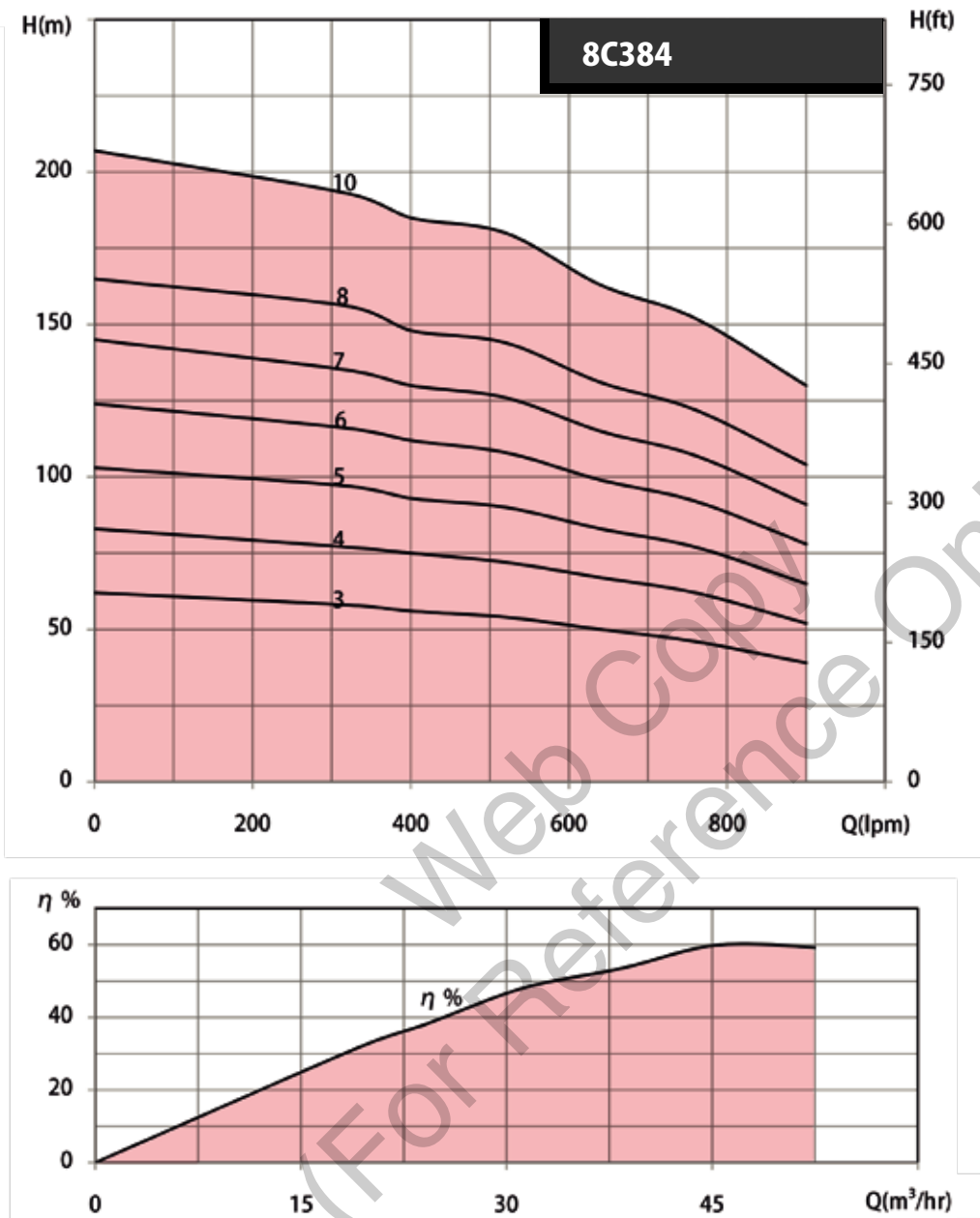
Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m ³ /hr								Dimension in mm				DNM
			0	18.0	21.0	27.0	33.0	39.0	45.0	A	B	C	D		
8C330/4	12.5	9.3	83	78	75	72	67	60	50	1423	580	180	3"		
8C330/5	15.0	11.0	104	97	93	90	83	75	62	1488	645	180	3"		
8C330/6	20.0	15.0	125	117	111	108	99	90	74	1603	710	180	3"		
8C330/8	25.0	19.0	166	156	148	144	132	120	98	1773	840	180	3"		
8C330/10	35.0	26.5	208	195	185	180	165	150	122	1963	970	180	3"		
8C330/12	40.0	30.0	249	234	222	216	198	180	146	2143	1100	180	3"		

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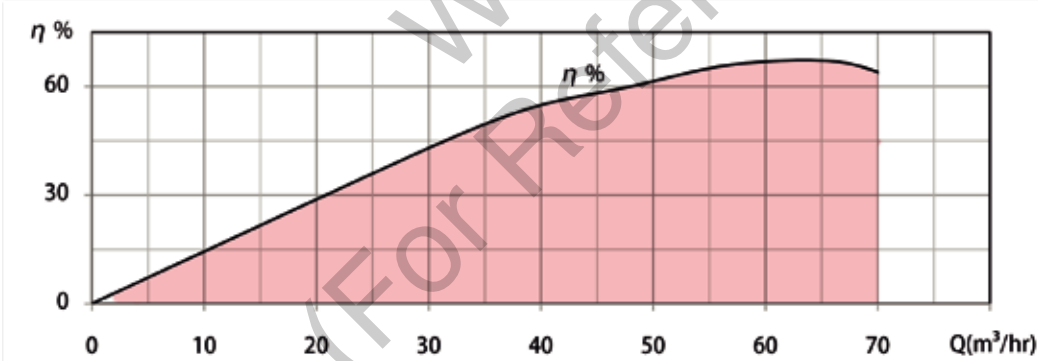
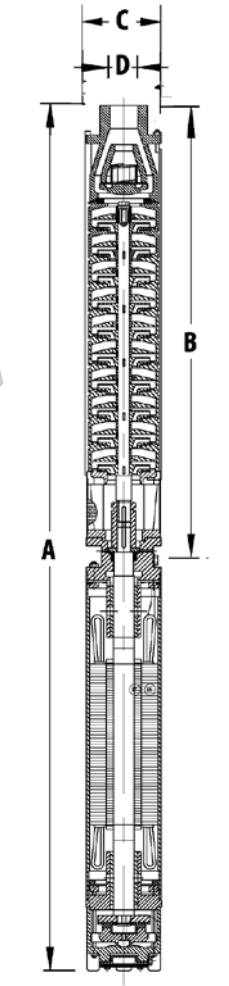
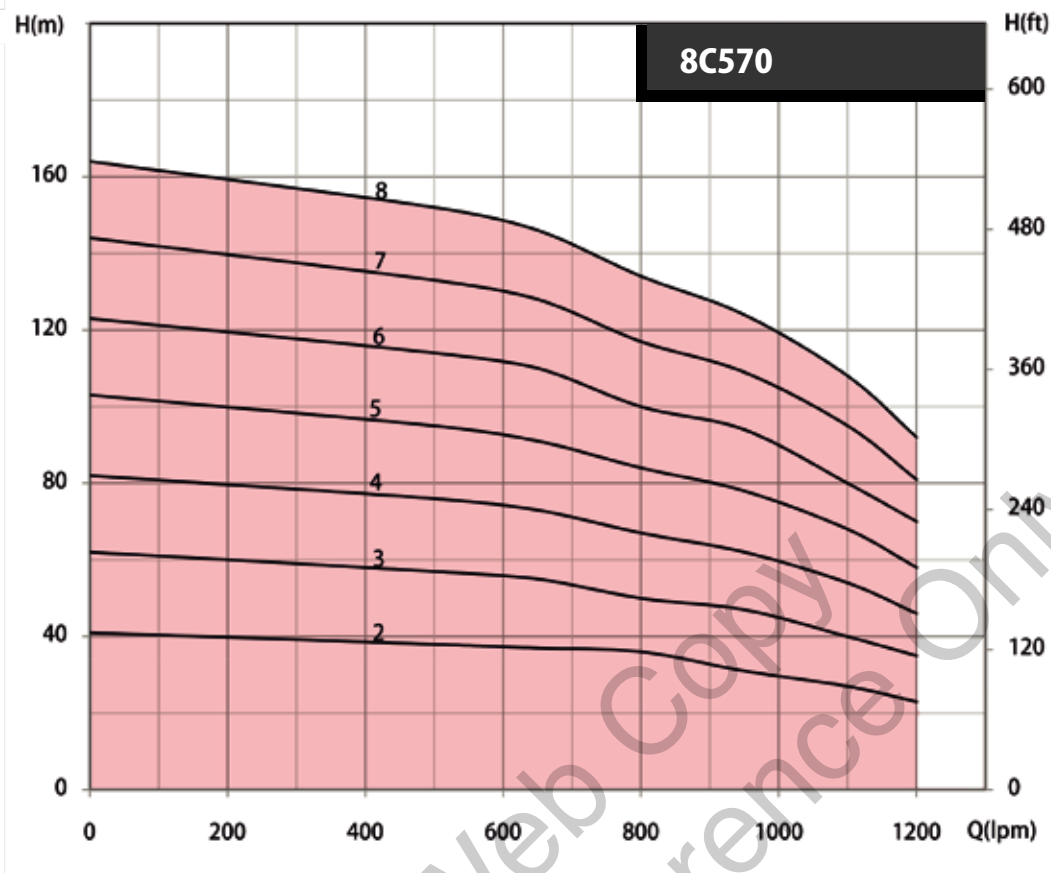
Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	19.2	24.0	31.2	38.4	45.6	54.0	Dimension in mm			DNM
			Q - LPM	0	320	400	520	640	760	900	A	B	C	
8C384/3	12.5	9.3	Total Head in Metres	62	58	56	54	50	46	39	1358	515	180	3"
8C384/4	15.0	11.0		83	77	75	72	67	62	52	1423	580	180	3"
8C384/5	20.0	15.0		103	97	93	90	83	77	65	1538	645	180	3"
8C384/6	25.0	19.0		124	116	112	108	99	92	78	1643	710	180	3"
8C384/7	30.0	22.0		145	135	130	126	115	107	91	1768	775	180	3"
8C384/8	35.0	26.5		165	156	148	144	131	122	104	1833	840	180	3"
8C384/10	40.0	30.0		207	193	185	180	163	152	130	2013	970	180	3"

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Characteristic Curves



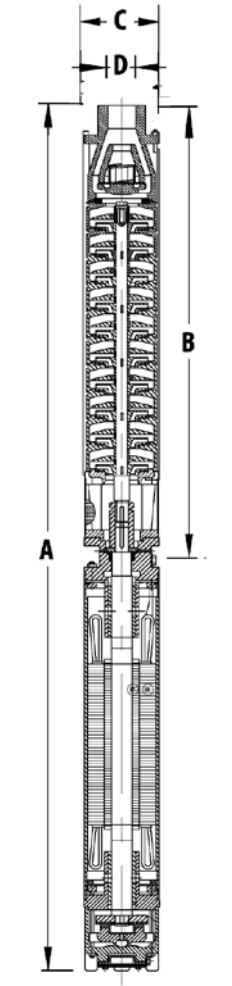
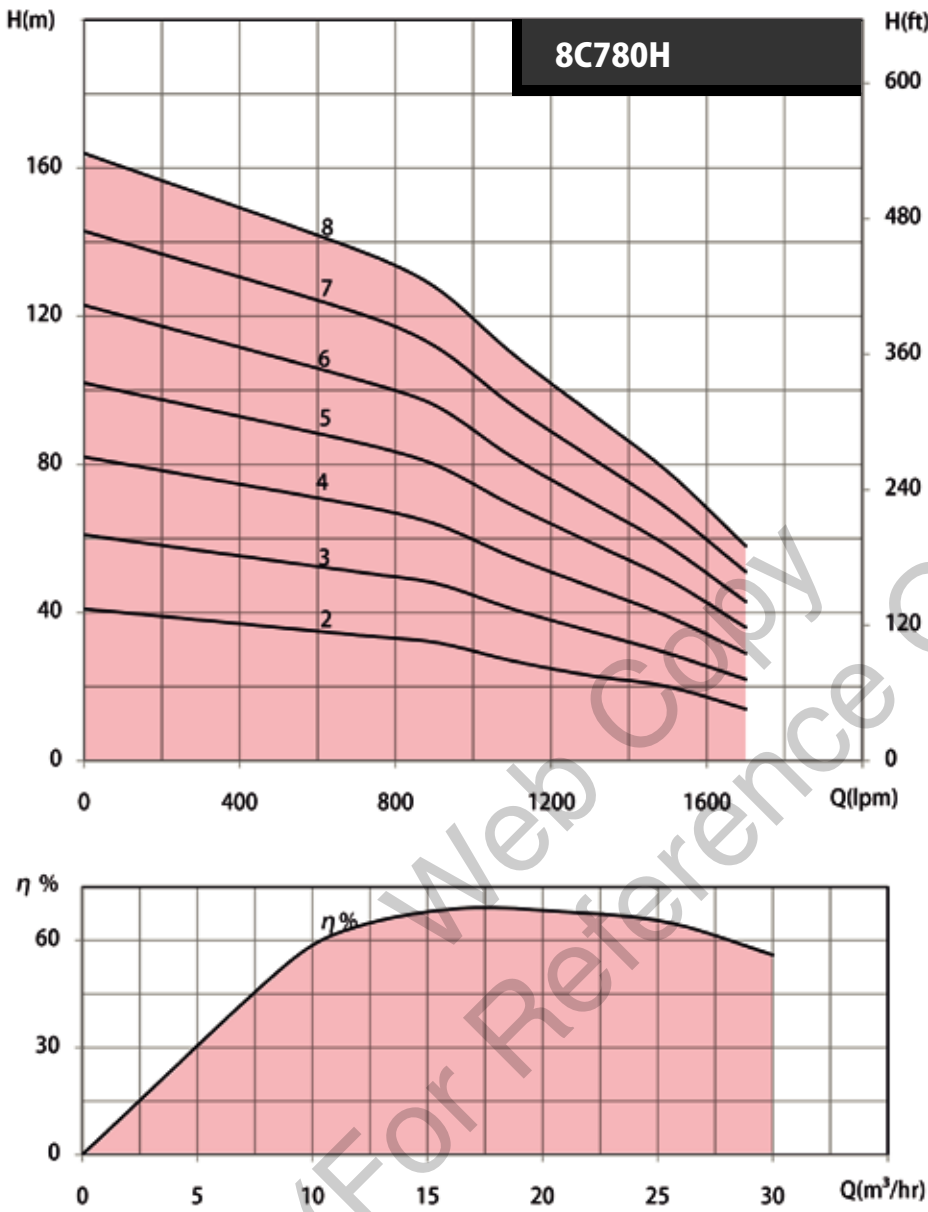
Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m ³ /hr	0	30.0	39.0	42.0	57.0	66.0	72.0	Dimension in mm			DNM
			Q - LPM	0	500	650	700	950	1100	1200	A	B	C	D
8C570/2	10.0	7.5	Total Head in Metres	41	38	37	36	31	27	23	1453	660	180	4"
8C570/3	15.0	11.0		62	57	55	50	47	40	35	1623	780	180	4"
8C570/4	20.0	15.0		82	76	73	67	62	54	46	1793	900	180	4"
8C570/5	25.0	19.0		103	95	91	84	78	68	58	1953	1020	180	4"
8C570/6	30.0	22.0		123	114	110	100	94	80	70	2133	1140	180	4"
8C570/7	35.0	26.5		144	133	128	117	109	95	81	2253	1260	180	4"
8C570/8	40.0	30.0		164	152	146	134	124	108	92	2423	1380	180	4"

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Hydraulic Performance & Dimensions

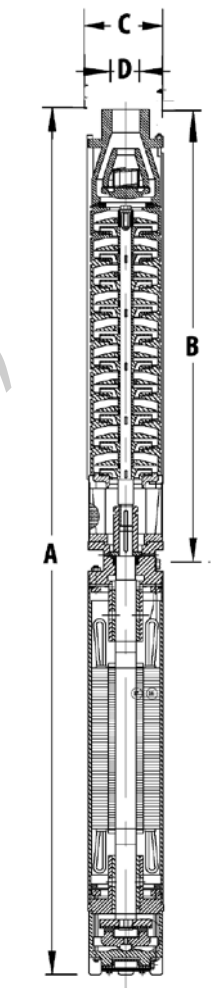
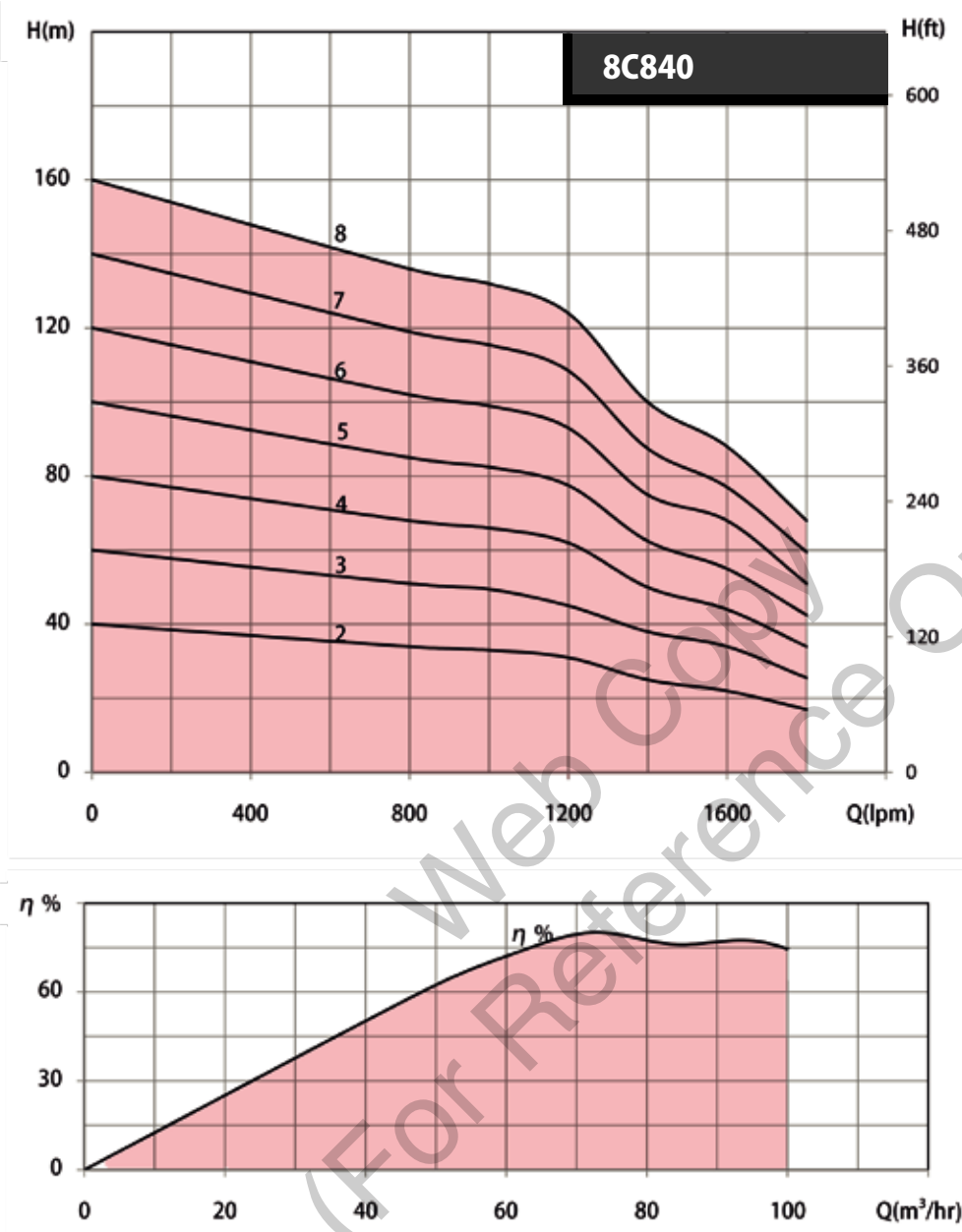
Product Code	HP	kW	Q - m³/hr	0	9.0	12.0	16.5	21.0	25.5	30.0	Dimension in mm				DNM
				Q - LPM	0	700	900	1100	1300	1500	1700	A	B	C	
8C780H/2	10.0	7.5	Total Head in Metres	41	34	32	27	23	20	14	1453	660	180	4"	
8C780H/3	15.0	11.0		61	51	48	41	35	29	22	1623	780	180	4"	
8C780H/4	20.0	15.0		82	69	64	55	47	39	29	1793	900	180	4"	
8C780H/5	25.0	18.5		102	86	80	69	59	49	36	1953	1020	180	4"	
8C780H/6	30.0	22.0		123	103	96	82	70	58	43	2133	1140	180	4"	
8C780H/7	35.0	26.5		143	121	112	96	82	68	51	2253	1260	180	4"	
8C780H/8	40.0	30.0		164	138	128	110	94	78	58	2423	1380	180	4"	

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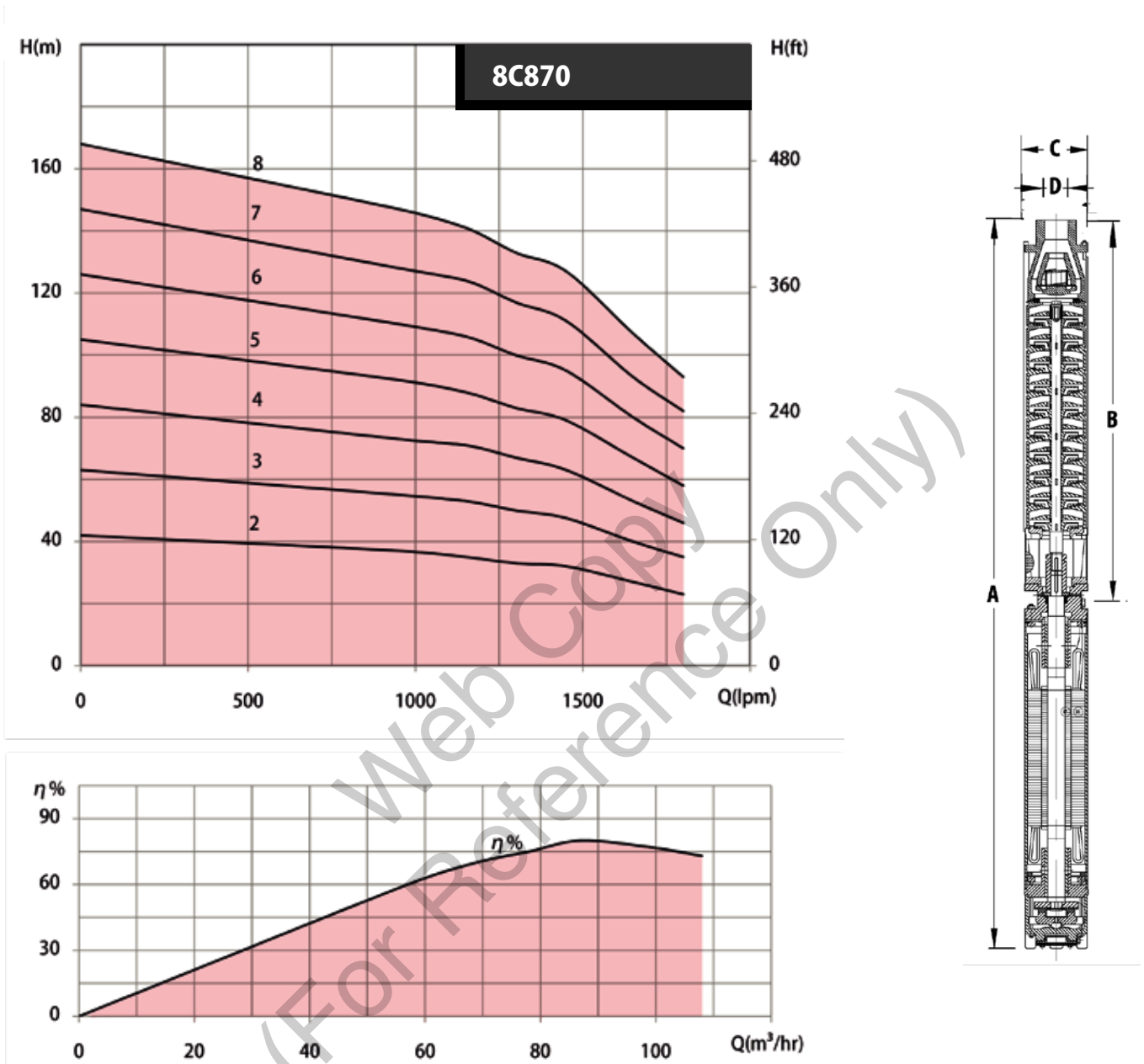
Product Code	HP	kW	Q - m³/hr								Dimension in mm				DNM
			0	48.0	60.0	72.0	84.0	96.0	108.0	A	B	C	D		
8C840/2	10.0	7.5	0	800	1000	1200	1400	1600	1800	1453	660	180	4"		
8C840/3	15.0	11.0	0	800	1000	1200	1400	1600	1800	1623	780	180	4"		
8C840/4	20.0	15.0	0	800	1000	1200	1400	1600	1800	1793	900	180	4"		
8C840/5	25.0	19.0	0	800	1000	1200	1400	1600	1800	1953	1020	180	4"		
8C840/6	30.0	22.0	0	800	1000	1200	1400	1600	1800	2133	1140	180	4"		
8C840/7	35.0	26.5	0	800	1000	1200	1400	1600	1800	2253	1260	180	4"		
8C840/8	40.0	30.0	0	800	1000	1200	1400	1600	1800	2423	1380	180	4"		

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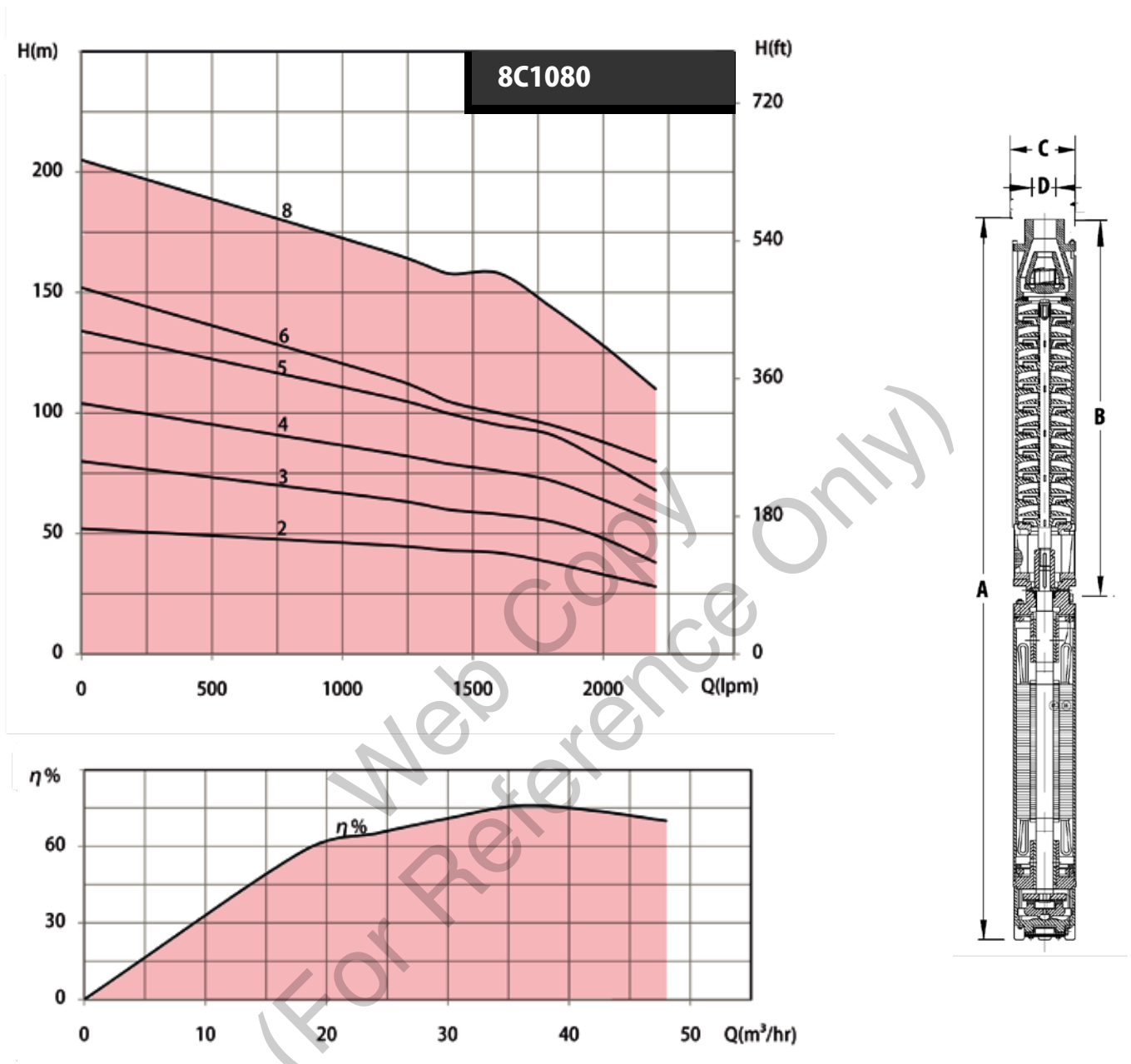
Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	57.0	69.0	78.0	87.0	99.0	108.0	Dimension in mm			DNM
			Q - LPM	0	950	1150	1300	1450	1650	1800	A	B	C	D
8C870/2	12.5	9.3	Total Head in Metres	42	37	35	33	32	27	23	1503	660	180	4"
8C870/3	20.0	15.0		63	55	53	50	47.5	40	35	1673	780	180	4"
8C870/4	25.0	19.0		84	73	71	67	63	53	46	1833	900	180	4"
8C870/5	30.0	22.0		105	92	88	83	79	67	58	2013	1020	180	4"
8C870/6	35.0	26.5		126	110	106	100	95	80	70	2133	1140	180	4"
8C870/7	45.0	34.0		147	128	124	117	111	93	82	2303	1260	180	4"
8C870/8	50.0	37.0		168	147	141	133	127	107	93	2423	1380	180	4"

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Product Code	HP	kW	Q - m³/hr	0	72.0	84.0	96.0	108.0	120.0	132.0	Dimension in mm			DNM
				Q - LPM	0	1200	1400	1600	1800	2000	2200	A	B	C
8C1080/2	20.0	15.0	Total Head in Metres	52	45	43	42	38	33	28	1553	660	180	4"
8C1080/3	30.0	22.0		80	64	60	58	55	48	38	1773	780	180	4"
8C1080/4	40.0	30.0		104	83	79	76	72	64	55	1943	900	180	4"
8C1080/5	50.0	37.0		134	106	100	95	91	80	68	2063	1020	180	4"
8C1080/6	55.0	42.0		141	114	105	99	93	81	-	2240	1140	180	4"
8C1080/8	75.0	57.0		205	166	158	158	144	128	110	2633	1380	180	4"

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