

HOS

Sump Submersible Pumps - Horizontal

Construction

Submersible horizontal sump small series pumps with volute casing and impellers made of cast iron material gives excellent performance with high degree of reliability. The hydraulic materials used prevents 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 Three Phase 415V (50Hz)
- Voltage tolerances : +6% -15%
- Insulation class : B

Special features

- Specially designed bush bearing to minimize the vibration
- High foundry grade flange for better plumbing works
- Provision of 2 eye bolts for easy installation
- Rotor made of 99.9 % EC grade Copper

MATERIAL SPECIFICATIONS

PUMP

Components	Materials
Volute Casing	Cast Iron FG 200
Impeller	Cast Iron FG 200
Flange	SG 400/12
Tie-Rod	SS 410
Strainer	SS 202

MOTOR

Components	Materials
Base	Cast Iron FG 200
Body	Cast Iron FG 200
Back Housing	Cast Iron FG 200
Front Housing	Cast Iron FG 200
Rotor shaft	SS 420
Thrust bearing	Carbon + SS 410
Seal	Natural Rubber
Bearing bush	LTB4

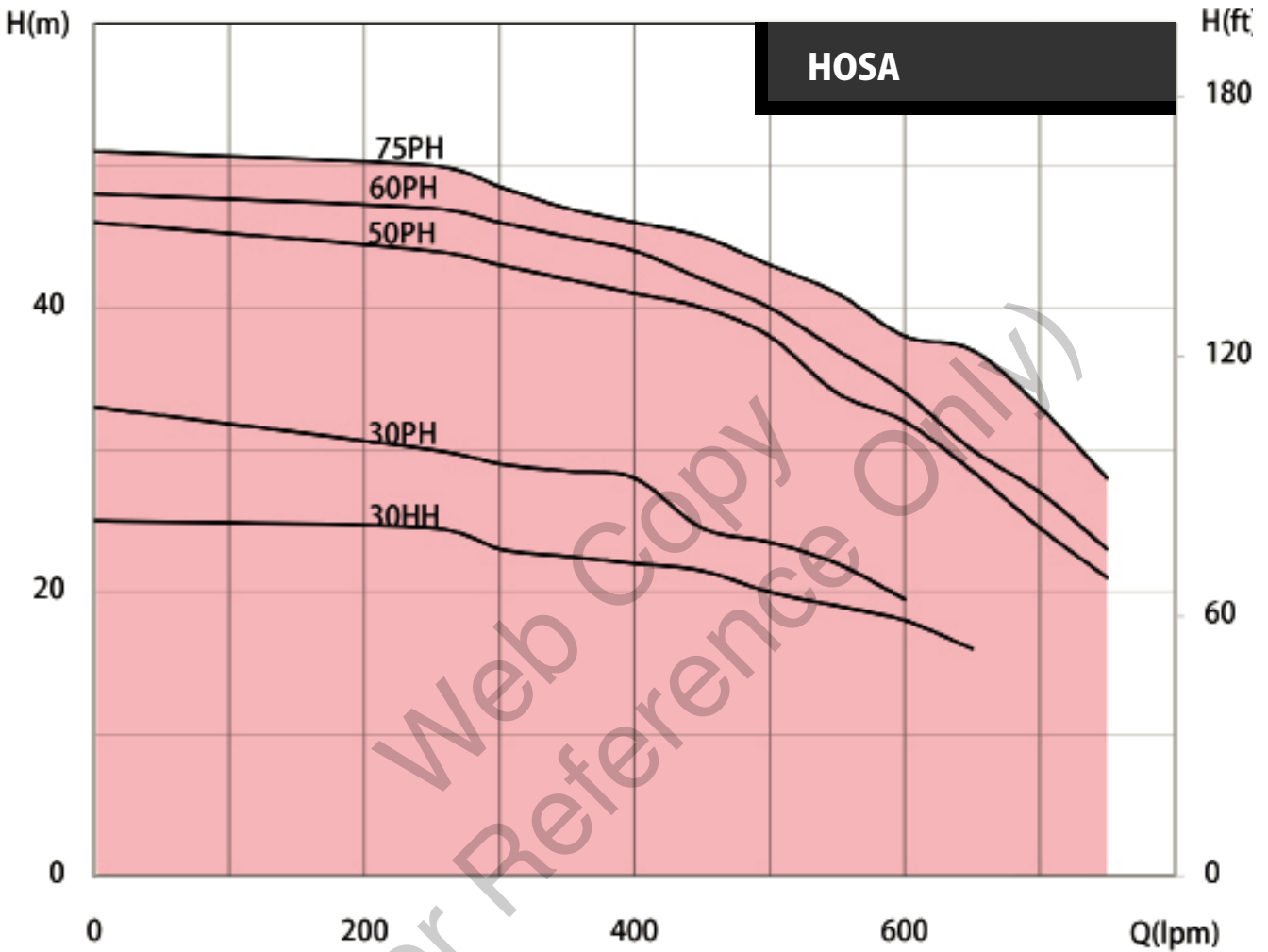


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Characteristic Curves



Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m ³ /hr	0	15	18	21	24	27	30	33	36	39	42	45	DNM
					Q - l/min	0	250	300	350	400	450	500	550	600	650	700	
HOSA30PH	3.0	2.2	T	Total Head in meters	33	30	29	28.5	28	24.5	23.5	22	18	-			2"
HOSA30HH	3.0	2.2	T		25	24.5	23	22.5	22	21.5	20	19	18	16			2"
HOSA50PH	5.0	3.7	T		46	44	43	42	41	40	38	34	32	28.5	24.5	21	2"
HOSA60PH	6.0	4.5	T		48	47	46	45	44	42	40	37	34	30	27	23	2"
HOSA75PH	7.5	5.5	T		51	50	48.5	47	46	45	43	41	38	37	33	28	2"

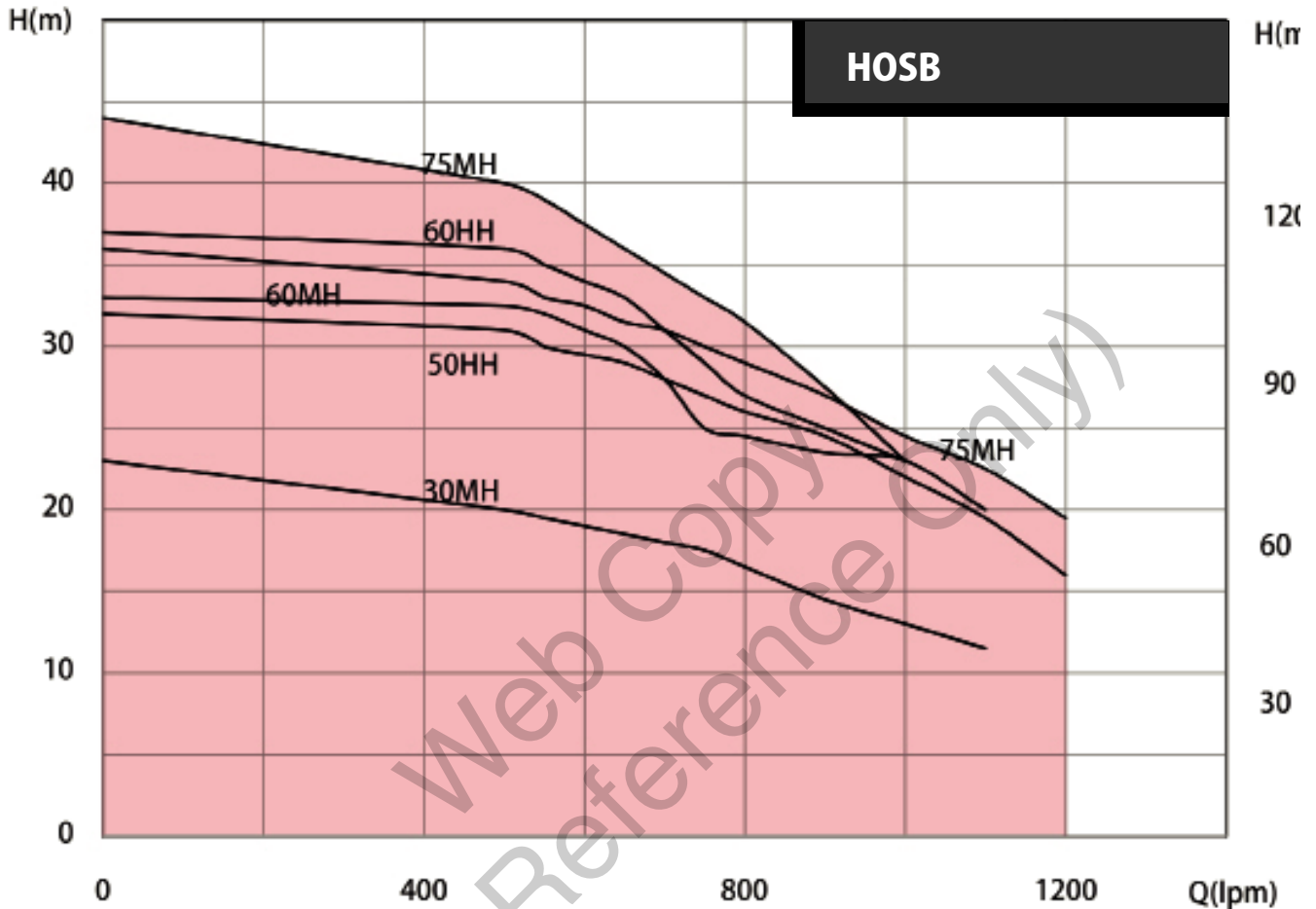
* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

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Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m ³ /hr	0	30	33	36	39	42	45	48	54	60	66	72	DNM
				Q - l/min	0	500	550	600	650	700	750	800	900	1000	1100	1200	
HOSB30MH	3.0	2.2	T	Total Head in meters	23	20	19.5	19	18.5	18	17.5	16.5	15	13	12	-	2.5"
HOSB50HH	5.0	3.7	T		32	31	30	29.5	29	28	27	26	24.5	22	19.5	16	2"
HOSB60HH	6.0	4.5	T		37	36	35	34	33	31	29	27	25	23	-	-	2"
HOSB60MH	6.0	4.5	T		33	32.5	32	31	30	28	25	24.5	23.5	23	20	-	2.5"
HOSB75HH	7.5	5.5	T		44	40	39	37.5	36	34.5	33	31.5	27.5	23	-	-	2"
HOSB75MH	7.5	5.5	T		36	34	33	32.5	31.5	31	30	29	27	24.5	22.5	19.5	2.5"

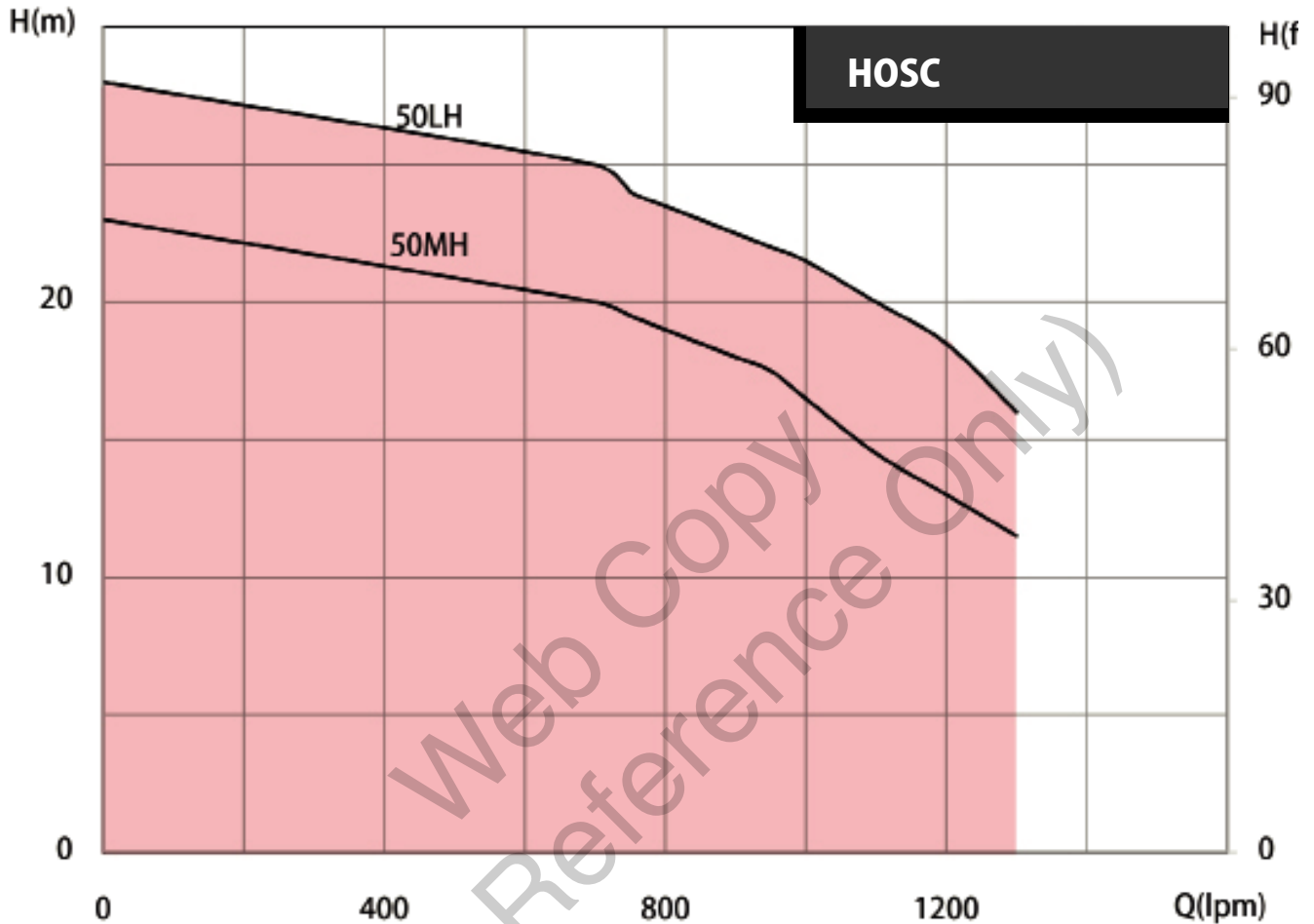
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Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m ³ /hr	0	42	45	48	51	54	57	60	66	72	78	84	DNM
				Q - l/min	0	700	750	800	850	900	950	1000	1100	1200	1300	1400	
HOSC50MH	5.0	3.7	T	Total Head in meters	30	27	26	26	25	23	23	20	19	18	2.5"
HOSC50LH	5.0	3.7	T	Total Head in meters	28	25	24	23.5	23	22.5	22	21.5	20	18.5	16	-	3"

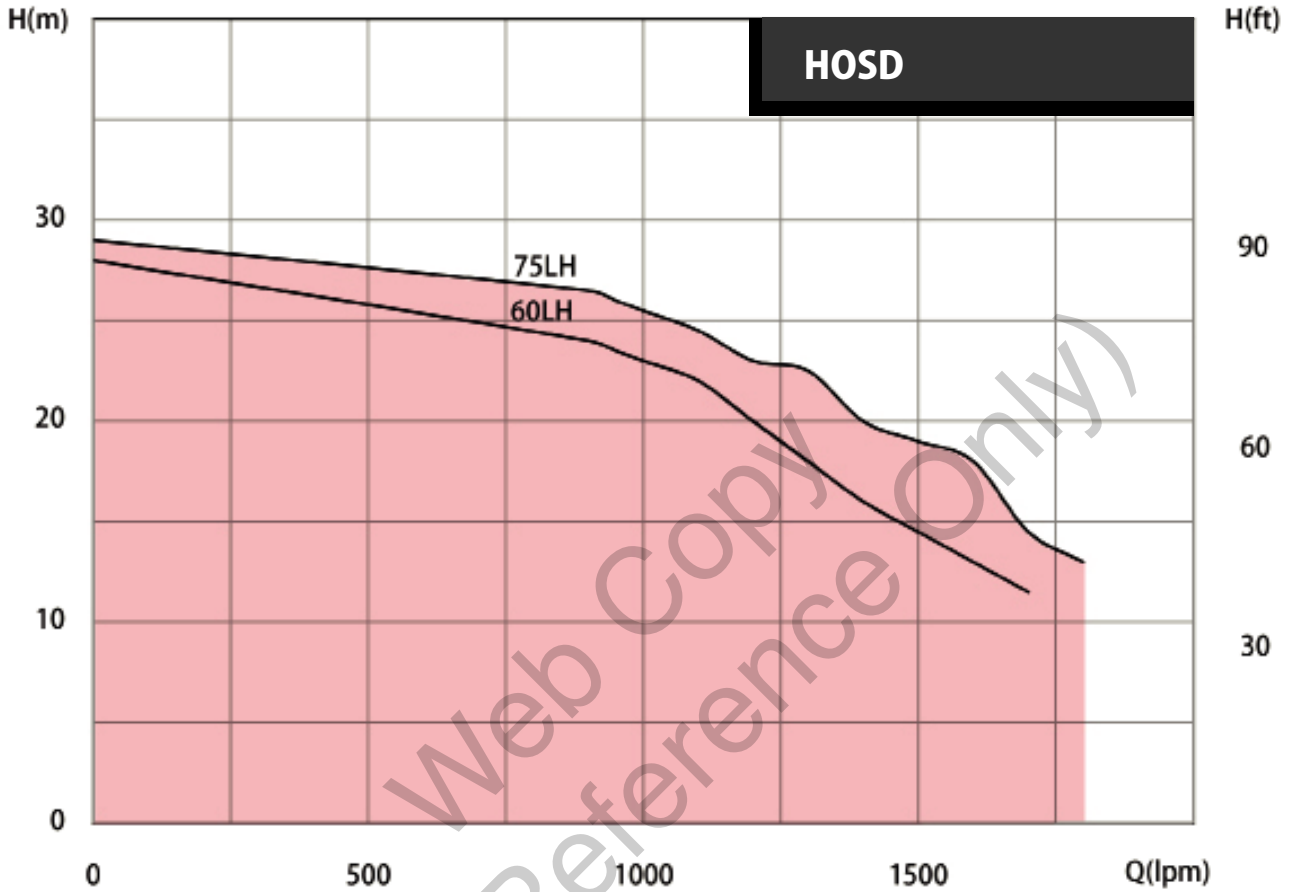
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Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m ³ /hr	0	54	57	60	66	72	78	84	90	96	102	108	DNM
					Q - l/min	0	900	950	1000	1100	1200	1300	1400	1500	1600	1700	
HOSD60LH	6.0	4.5	T	Total Head in meters	28	24	23.5	23	22	20	18	16	15	13	12	-	3"
HOSD75LH	7.5	5.5	T		29	26.5	26	25.5	24.5	23	22.5	20	19	18	14.5	13	3"

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