

VOS

Sump Submersible Pumps - Vertical

Construction

Submersible vertical sump small series pumps with radial and mixed flow impellers gives excellent performance with higher degree of reliability. The improved precise design ensures longer life span with minimum efforts for maintenance.

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

- Total Hardened SS Shaft
- Fins body for better heat dissipation
- Dual casing available for different duty conditions
- High discharge and head
- Rotor made of 99.9 % EC grade Copper.

MATERIAL SPECIFICATIONS

PUMP

Components	Materials
Diffuser	Cast Iron FG 200
Impeller	Cast Iron FG 200, Gun Metal, SS 304
Sleeve	SS 410
NRV	Cast Iron FG 200
Flange	SG 400/12, MS
Tie-Rod	SS 410
Strainer	SS 202

MOTOR

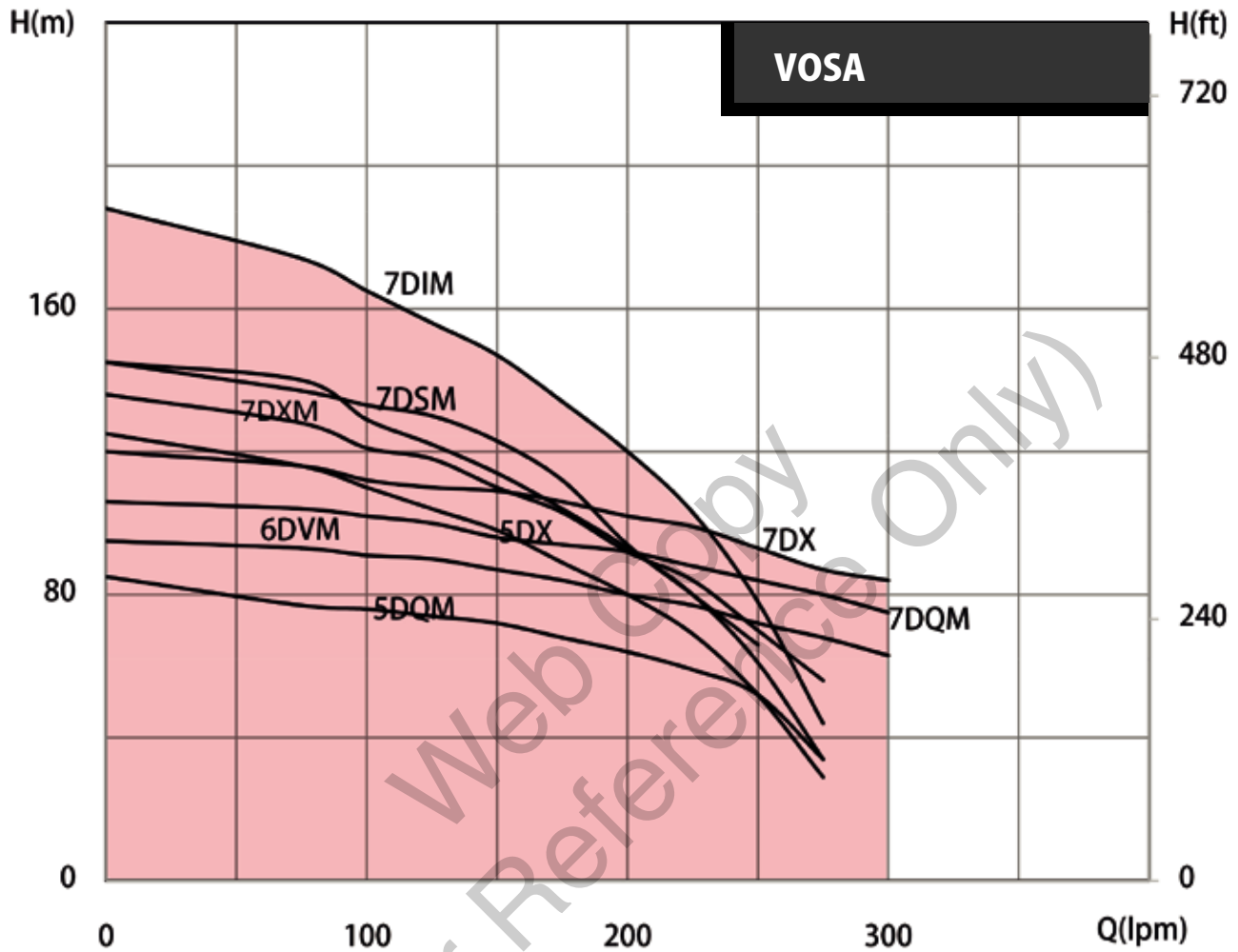
Components	Materials
Base	Cast Iron FG 200
Body	SS 304 + MS
Lower	Cast Iron FG 200
Upper	Cast Iron FG 200
Rotor shaft	SS 420
Thrust bearing	Carbon + SS 410
Seal	Natural Rubber
Bearing bush	LTB4



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Characteristic Curves



Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Total Head in meters														
				Q - m ³ /hr	0	4.5	6	7.5	7.5	9.0	10.5	12	13.5	15	18	DNM		
				Q - l/min	0	75	100	125	125	150	175	200	225	250	300			
VOSA5DQM/4	5.0	3.7	T	85	77	76	74	74	72	68	64	59	52	-	2"			
VOSA5DX/6	5.0	3.7	T	125	116	110	104	104	98	89	80	69	52	-	2"			
VOSA6DVM/5	6.0	4.5	T	95	93	91	90	90	87	84	80	77	72	63	2"			
VOSA6DSM/7	6.0	4.5	T	145	140	129	122	122	114	104	93	80	61	-	2"			
VOSA7DQM/4	7.5	5.5	T	106	104	102	100	100	96	94	92	88	84	75	2"			
VOSA7DX/6	7.5	5.5	T	120	116	112	110	110	109	106	102	99	93	84	2"			
VOSA7DXM/6	7.5	5.5	T	136	128	121	118	118	110	103	92	84	70	-	2"			
VOSA7DSM/7	7.5	5.5	T	145	137	133	130	130	123	112	94	80	66	-	2"			
VOSA7DIM/9	7.5	5.5	T	188	174	165	156	156	147	134	120	103	78	-	2"			

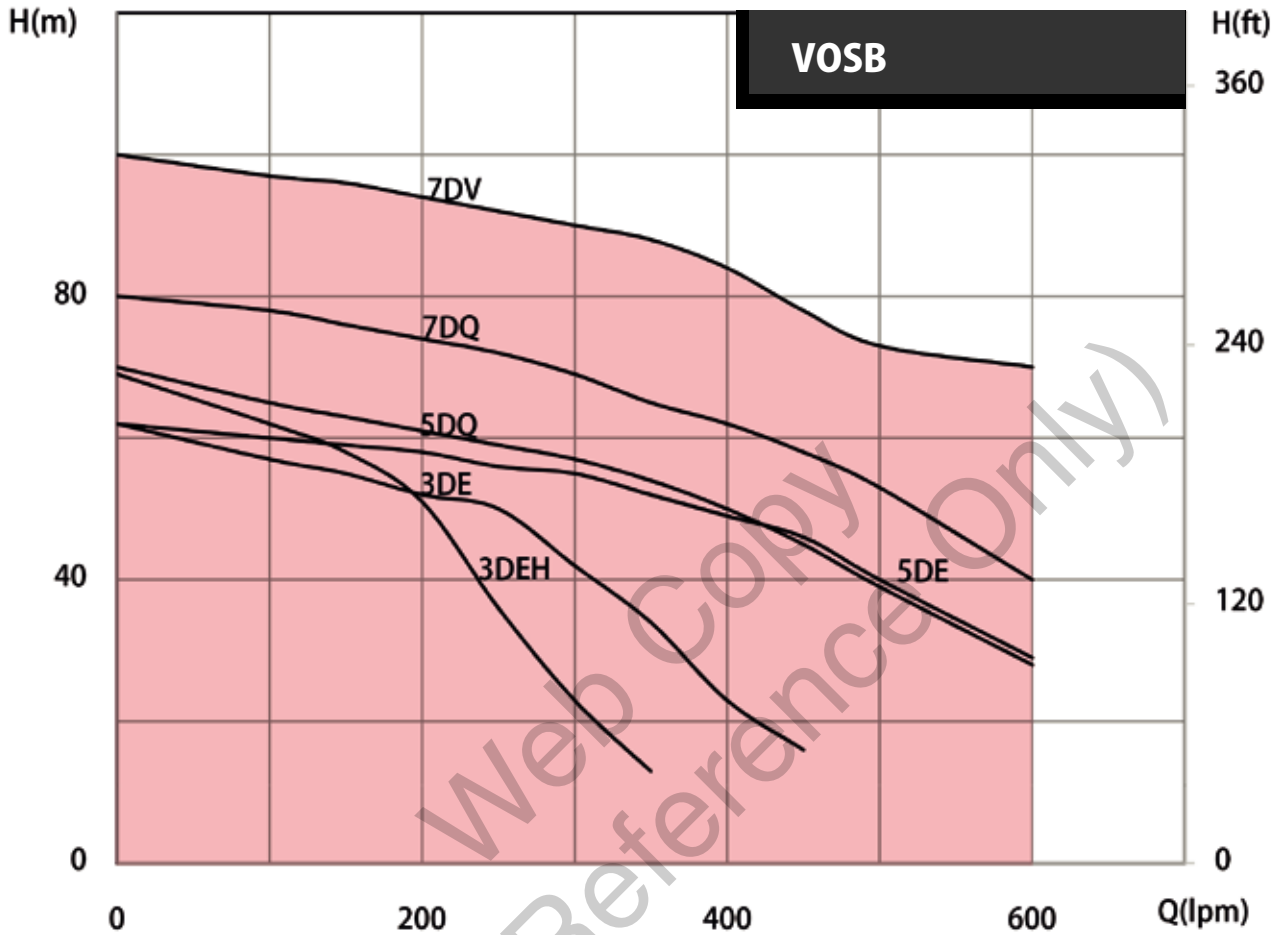
* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

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Product Code	HP	kW	Phase	Q - m ³ /hr	0	6	9	12	15	18	21	24	27	30	36	DNM
				Q - l/min	0	100	150	200	250	300	350	400	450	500	600	
VOSB3DE/3	3.0	2.2	T	Total Head in meters	62	57	55	52	50	42	34	23	16	34	-	2"
VOSB3DEH/3	3.0	2.2	T		69	62	58	51	36	23	13	-	-	-	-	2"
VOSB5DE/3	5.0	3.7	T		62	60	59	58	56	55	52	49	46	40	29	2"
VOSB5DQ/4	5.0	3.7	T		70	65	63	61	59	57	54	50	45	39	28	2"
VOSB7DQ/4	7.5	5.5	T		80	78	76	74	72	69	65	62	58	53	40	2"
VOSB7DV/4	7.5	5.5	T		100	97	96	94	92	90	88	84	78	73	70	2"

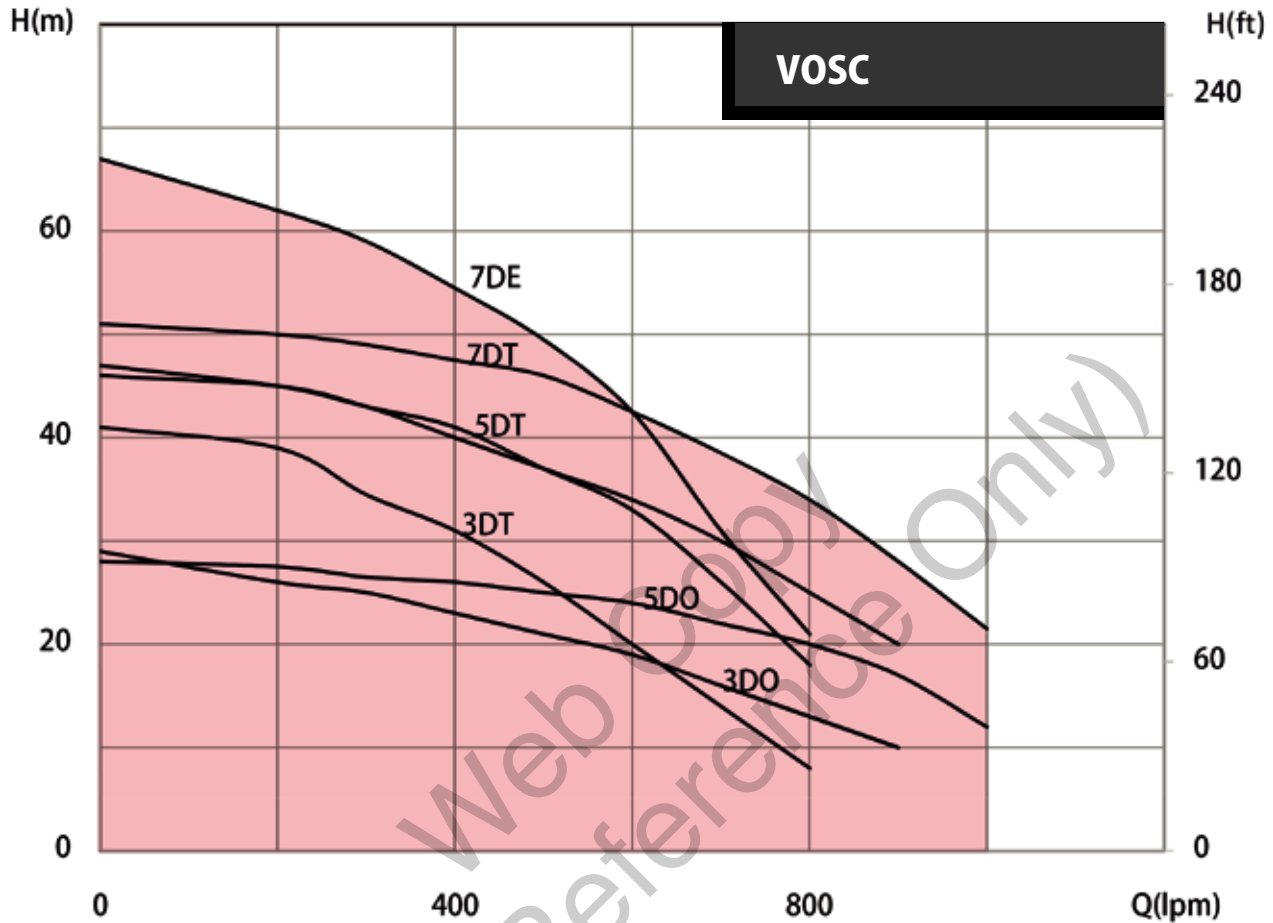
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Product Code	HP	kW	Phase	Q - m ³ /hr											DNM
				0	12	18	24	30	36	42	48	54	60		
				Q - l/min											
				0	200	300	400	500	600	700	800	900	1000		
VOSC3D0/1	3.0	2.2	T	Total Head in meters	29	26	25	23	21	19	16	13	10	-	3"
VOSC3DT/2	3.0	2.2	T		41	39	34.5	31	26	20	14	8	-	-	2.5"
VOSC5D0/1	5.0	3.7	T		28	27.5	26.5	26	25	24	22	20	17	12	3"
VOSC5DT/2	5.0	3.7	T		47	45	43	41	37	33	26	18	-	-	2.5"
VOSC6DT/2	6.0	4.5	T		46	45	43	40	37	34	30	25	20	-	2.5"
VOSC7DT/2	7.5	5.5	T		51	50	49	47.5	46	42.5	38.5	34	28	21.5	2.5"
VOSC7DE/3	7.5	5.5	T		67	62	59	54.5	49.5	42.5	31	21	-	-	2.5"

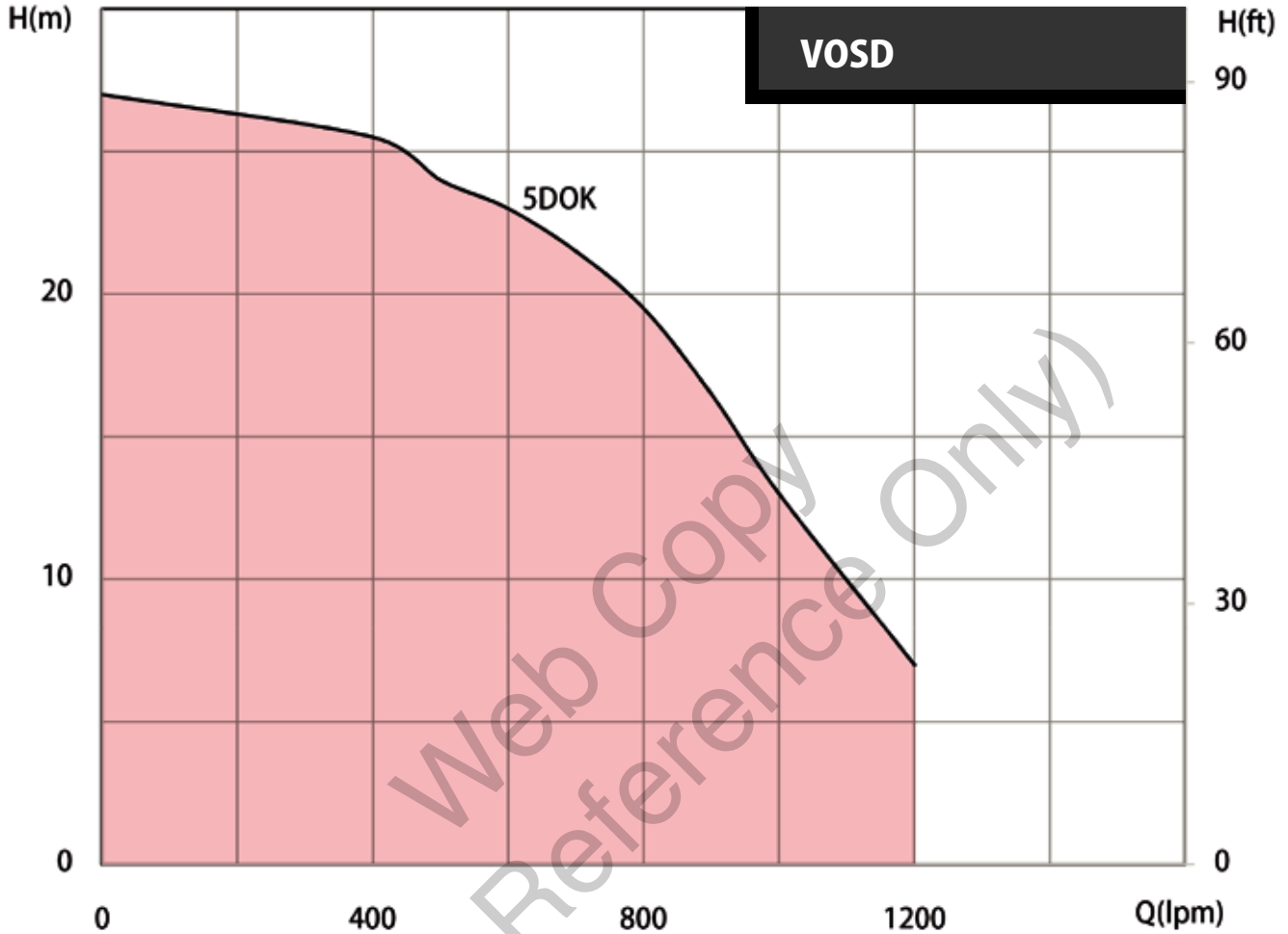
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Product Code	HP	kW	Phase	Q - m ³ /hr	0	24	30	36	42	48	54	60	72	DNM
				Q - l/min	0	400	500	600	700	800	900	1000	1200	
VOSD5DOK/1	5.0	3.7	T	Total Head in meters	27	25.5	24	23	21.5	19.5	16.5	13	7	3"

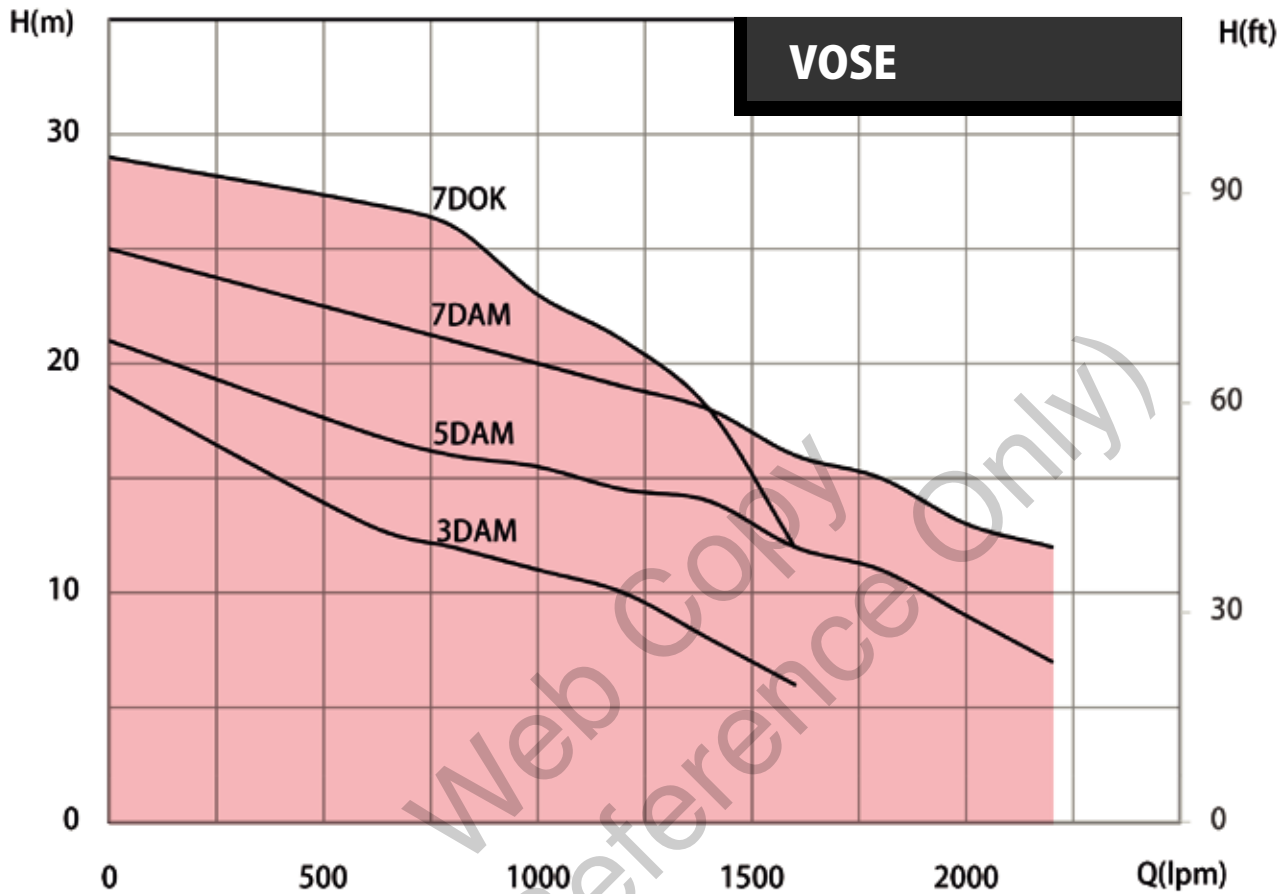
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Product Code	HP	kW	Phase	Q - m ³ /hr	0	36	48	60	72	84	96	108	120	132	DNM
				Q - l/min	0	600	800	1000	1200	1400	1600	1800	2000	2200	
VOSE3DAM/1	3.0	2.2	T	Total Head in meters	19	13	12	11	10	8	6	-	-	-	4"
VOSE5DAM/1	5.0	3.7	T		21	17	16	15.5	14.5	14	12	11	9	7	5"
VOSE7DAM/1	7.5	5.5	T		25	22	21	20	19	18	16	15	13	12	5"
VOSE7DOK/1	7.5	5.5	T		29	27	26	23	21	18	12	-	-	-	3"

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