

# VOML

## Sump Submersible Pumps - Vertical

### Construction

Submersible vertical sump medium-large series pumps with radial and mixed flow impellers gives splendid performance with almost zero maintenance. The life span of the pump set is comparatively higher than its competitors with superior discharge properties.

### 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

- Elegantly constructed SS body
- Can pump water through long distances
- Rotor made of 99.9% EC grade Copper
- Motor and pump coupled together
- Total Hardened SS Shaft
- Special grade casting materials
- SS & Bronze impeller for selective models

### MATERIAL SPECIFICATIONS

#### PUMP

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

#### MOTOR

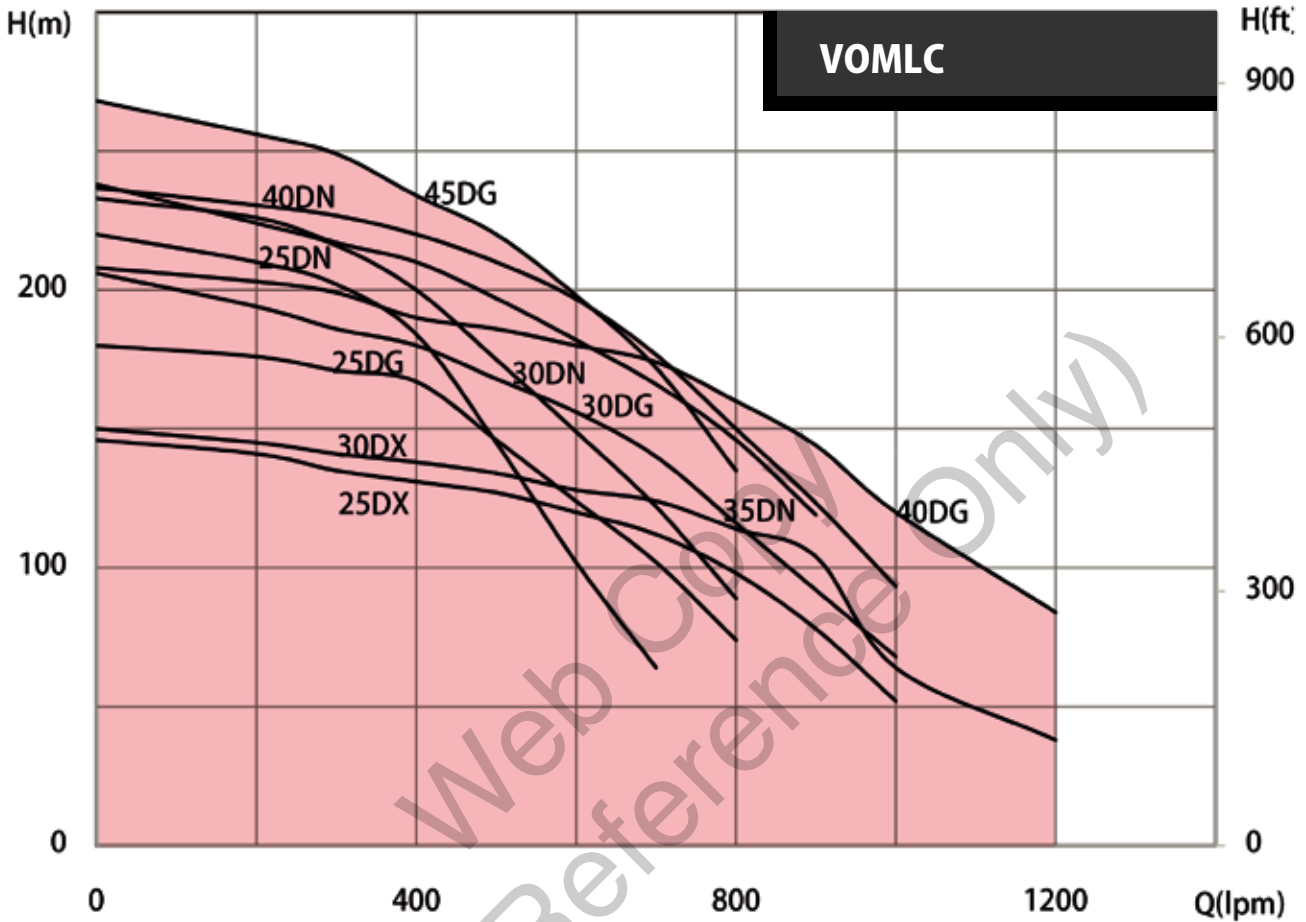
Components	Materials
Base	Cast Iron FG 200
Body	SS 304 + MS
Lower	Cast Iron FG 200
Upper	Cast Iron FG 200
Rotor shaft	SS 420
Thrust bearing	Carbon + SS 410
Seal	Natural Rubber
Bearing bush	LTB4



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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	Q - l/min											DNM
					0	12	18	24	30	36	42	48	54	60	72	
VOMLC25DX/6	25.0	19.0	T	Total Head in meters	146	141	135	131	127	120	112	98	78	52	-	3"
VOMLC25DG/8	25.0	19.0	T		180	176	171	167	146	124	102	74	-	-	-	3"
VOMLC25DN/10	25.0	19.0	T		220	210	202	184	145	102	64	-	-	-	-	3"
VOMLC30DX/6	30.0	22.5	T		150	145	141	138	134	128	124	114	104	64	38	3"
VOMLC30DG/8	30.0	22.5	T		206	194	186	180	168	156	140	116	92	68	-	3"
VOMLC30DN/10	30.0	22.5	T		238	224	216	200	175	149	122	89	-	-	-	3"
VOMLC35DN/10	35.0	26.0	T		233	226	217	210	197	182	166	146	119	-	-	3"
VOMLC40DG/8	40.0	30.0	T		208	203	199	190	186	180	174	160	144	120	84	3"
VOMLC40DN/10	40.0	30.0	T		236.7	230.5	226.7	220	210	196.7	176.7	150	123.3	93.3	-	3"
VOMLC45DG/8	45.0	33.5	T		216	210	203	200	194	186	180	165	151	93	-	3"
VOMLC45DN/10	45.0	33.5	T		268	256	249	234	220	198	172	135	-	-	-	3"

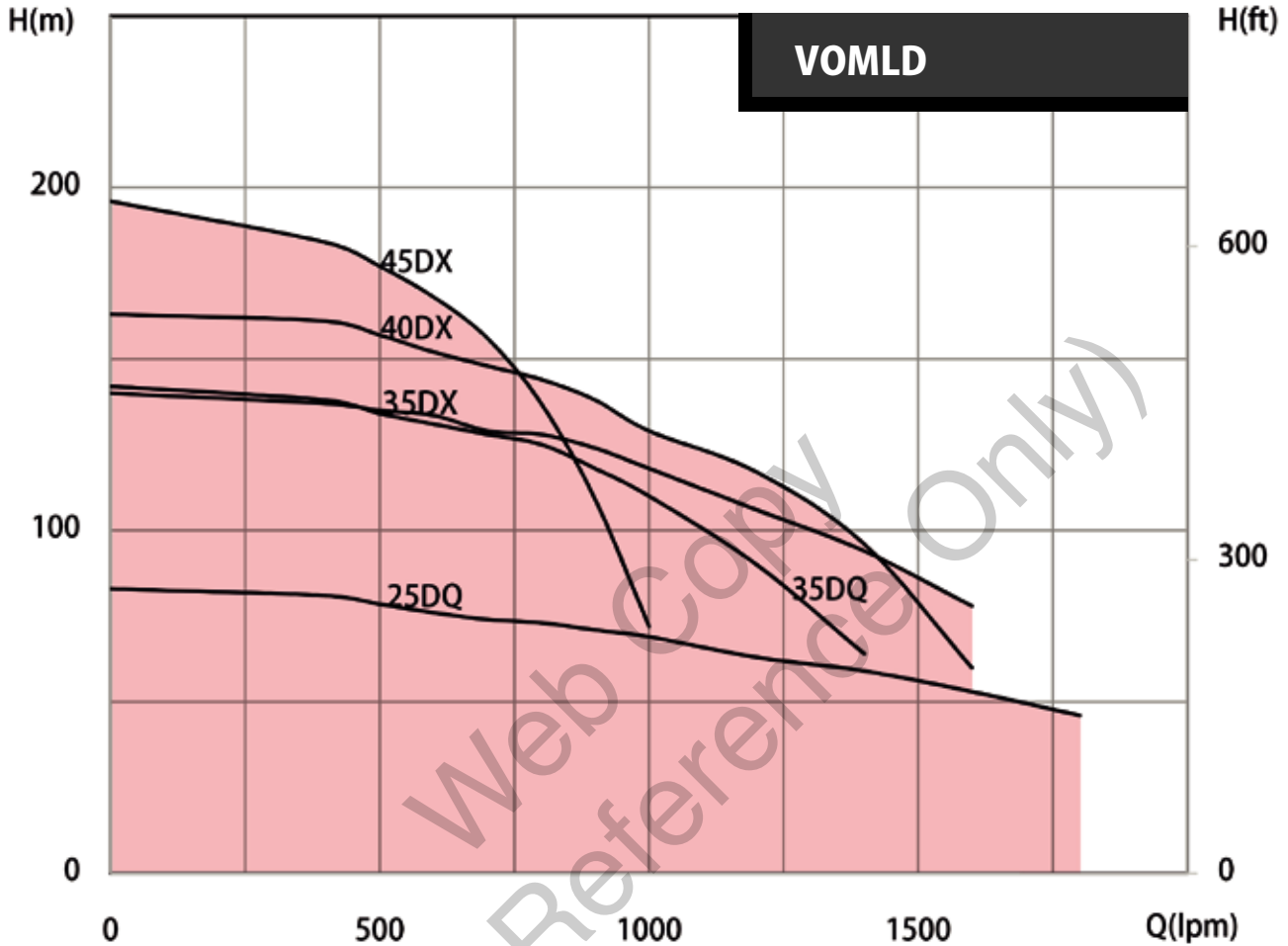
\* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	24	30	36	42	48	54	60	72	84	96	108	DNM	
					Q - l/min	0	400	500	600	700	800	900	1000	1200	1400	1600		1800
VOMLD25DQ/4	25.0	19.0	T	Total Head in meters	83	81	78.5	76	74	73	71	69	63	59	53	46	3"	
VOMLD35DX/6	35.0	26.0	T		142	138	134	131	128	125	118	110	90	64	-	-	-	3"
VOMLD35DG/8	35.0	26.0	T		196	184	177	168	156	137	109	72	-	-	-	-	-	3"
VOMLD40DX/6	40.0	30.0	T		140	137	135	133.5	129	128	124	118	106	94	78	-	-	4"
VOMLD45DX/6	45.0	33.5	T		163	161	157	152	148	144	138	129	117	96	60	-	-	4"

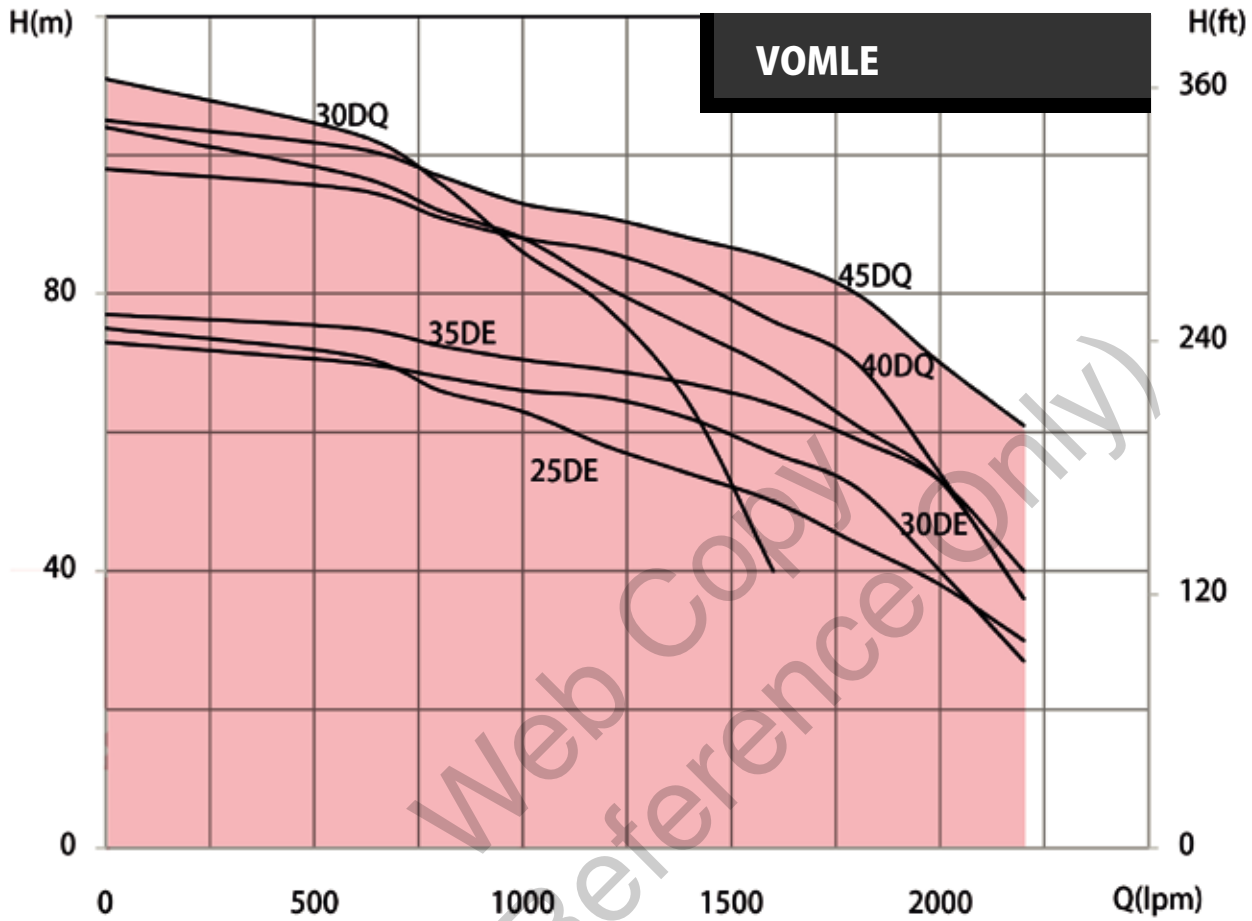
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### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr													DNM
				0	36	48	60	72	84	96	108	120	132				
				Q - l/min													
				0	600	800	1000	1200	1400	1600	1800	2000	2200				
VOMLE25DE/3	25.0	19.0	T	Total Head in meters	75	71	66	63	58	54	50	44	38	30	4"		
VOMLE30DE/3	30.0	22.5	T		73	70	68	66	65	62	57	52	40	27	4"		
VOMLE30DQ/4	30.0	22.5	T		111	103	96	86	78	64	40	-	-	-	4"		
VOMLE35DE/3	35.0	26.0	T		77	75	72.5	70.5	69	67	64	59	53	40	4"		
VOMLE35DQ/4	35.0	26.0	T		104	97	92	88	81	75	69	61	53	36	4"		
VOMLE40DQ/4	40.0	30.0	T		98	95	91	88	86	82	76	70	54	36	4"		
VOMLE45DQ/4	45.0	33.5	T		105	101	97	93	91	88	85	80	70	61	4"		

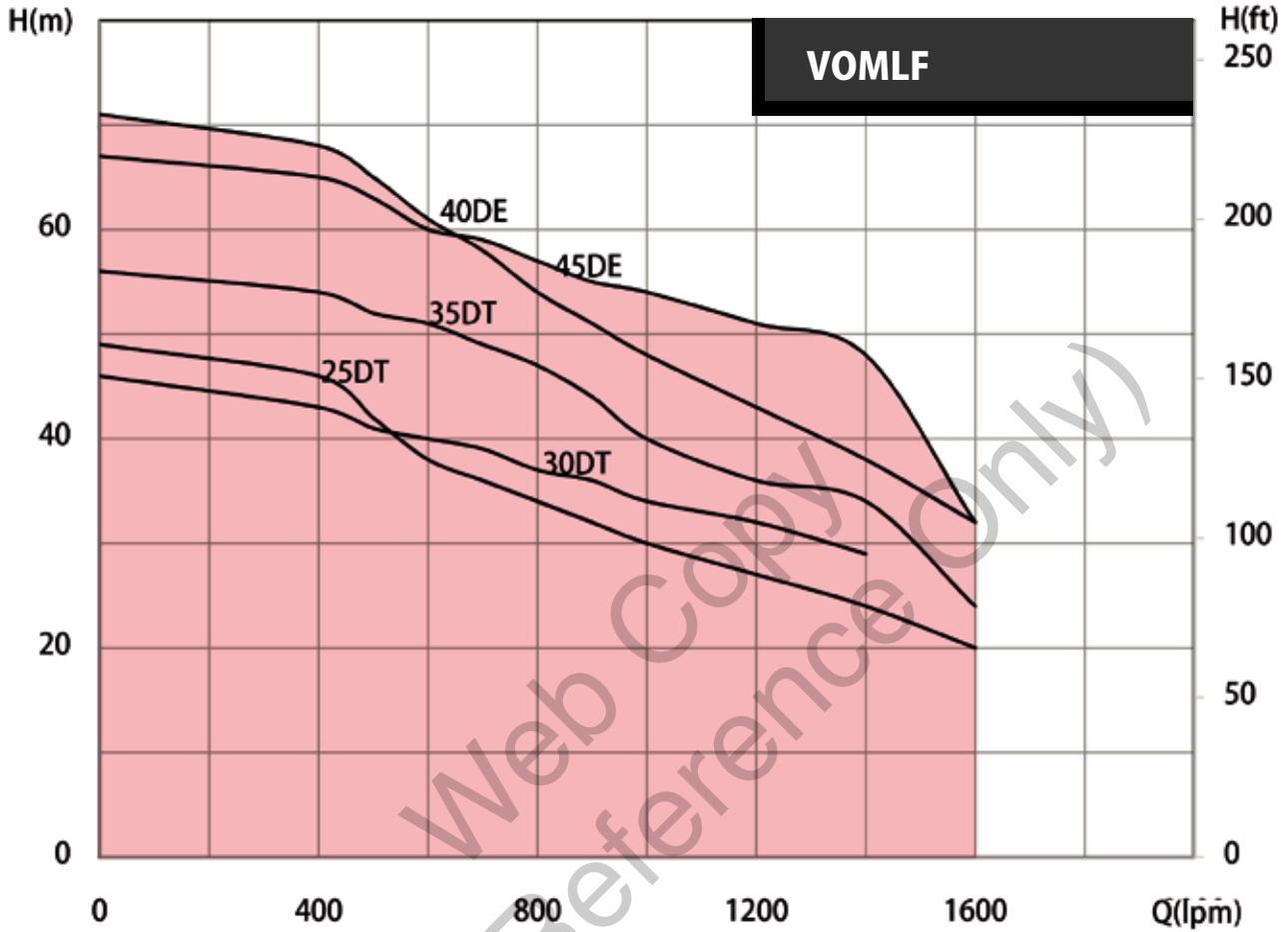
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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	96	108	120	132	144	156	168	180	192	204	DNM
				Q - l/min	0	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	
VOMLF25DT/2	25.0	18.5	T	Total Head in meters	49	46	42	38	36	34	32	30	27	24	20	6"
VOMLF30DT/2	30.0	22.5	T		46	43	41	40	39	37	36	34	32	29	-	6"
VOMLF35DT/2	35.0	26.0	T		56	54	52	51	49	47	44	40	36	34	24	6"
VOMLF40DE/3	40.0	30.0	T		71	68	62	61	58	54	51	48	43	38	32	8"
VOMLF45DE/3	45.0	33.5	T		67	65	63	60	59	57	55	54	51	48	32	6"

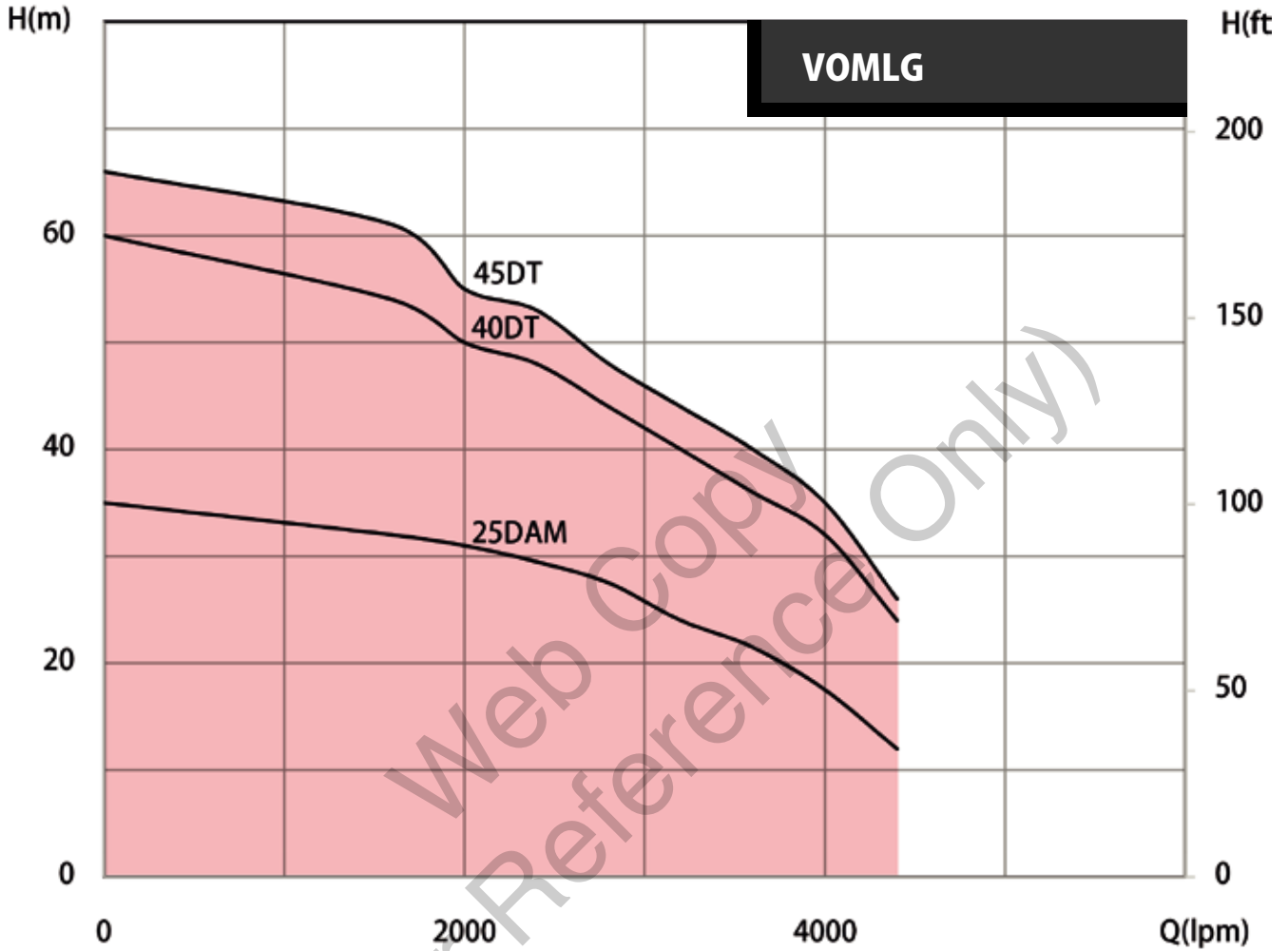
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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr											DNM
				0	96	120	144	168	192	216	240	264			
VOMLG25DAM/1	25.0	18.5	T	35	32	31	29.5	27.5	24	21.5	17.5	12	6"		
VOMLG40DT/2	40.0	30.0	T	60	54	50	48	44	40	36	32	24	6"		
VOMLG45DT/2	45.0	33.5	T	66	61	55	53	48	44	40	35	26	6"		

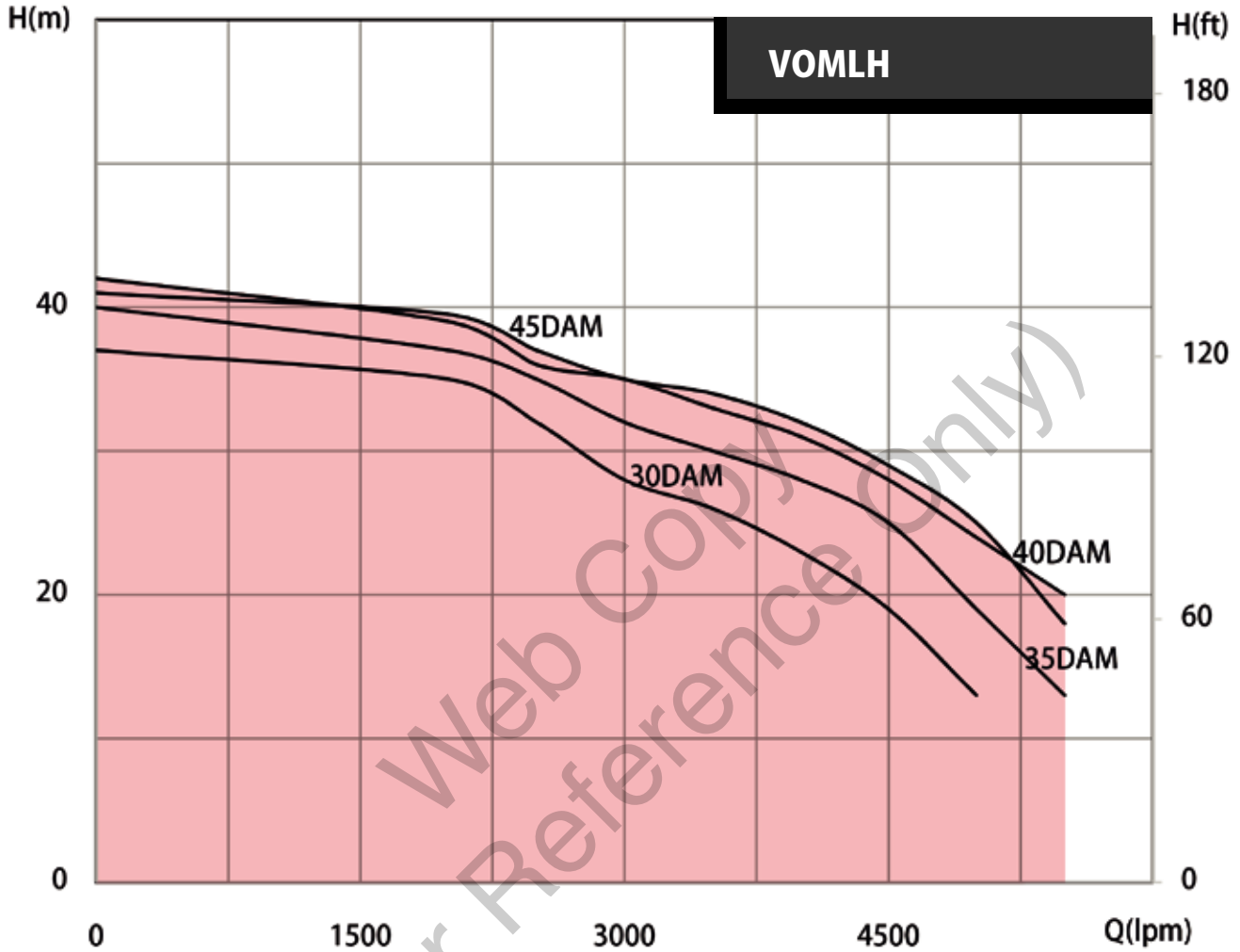
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### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	120	150	180	210	240	240	300	330	DNM
				Q - l/min	0	2000	2500	3000	3500	4000	4000	5000	5500	
VOMLH30DAM/1	30.0	22.5	T	Total Head in meters	37	35	32	28	26	23	23	13	-	6"
VOMLH35DAM/1	35.0	26.0	T		40	37	35	32	30	28	28	19	13	6"
VOMLH40DAM/1	40.0	30.0	T		41	39.5	37	35	34	32	32	25	18	8"
VOMLH45DAM/1	45.0	33.5	T		42	39	36	35	33	31	31	24	20	8"

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