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VSABM

DRY PIT SEWAGE PUMPS



Capacities to 1750 gpm, Heads to 150 feet, 1/2 thru 50 hp, discharge size 4" & 6", with 1750 and 1150 rpm operation.

HIGHLIGHTS

-  Non-Clog
-  Centrifugal Design
-  Minimum Floor Space
-  Sewage and Industrial Wastes

FEATURES

IMPELLER: Cast iron, enclosed, non-clog, design. No edges or corners to trap solids. Dynamically and hydraulically balanced. Renewable bronze wearing ring minimizes slippage, wear and seizing.

CASING: Close-grained cast iron, streamlined with internal passages designed to effect smooth flow.

SHAFT: Large diameter, stainless steel construction, turned, ground and polished. Impeller is secured to shaft by stainless steel key and bronze impeller nut and washer.

STUFFING BOX: Extra deep stuffing box with generous number of packing rings. Adjustable bronze gland, with studs and nuts.

BEARINGS: Bronze sleeve type radial bearing, and ball thrust bearing are both mounted in cast iron combination bearing housing and motor pedestal. Tongue-in-groove construction insures perfect alignment. Bearings are grease lubricated.

COUPLING: Flexible type, precision-machined construction, held by key and set screws. Eliminates wear on metal jaws. Load transmitted by cushion compression.

BASE: Heavy close-grained cast iron base support; has integral flanged suction ell, and easily removable large clean-out plug.

CONTROLS: Motors should be provided with magnetic starters for thermal overload and low voltage protection. Pilot control devices for the wet well are available in any of the following types; float switches, electrodes, bubblers, diaphragm switches, and FEDERAL SUBMERS-A-BULB.

MODIFICATIONS AVAILABLE:

The following accessory items are available for use with VSABM sewage pumps: Steel or cast iron covers for wet well, small sump pumps for dry pit drainage, dehumidifiers and blowers for dry pit ventilation, high water alarms, alternators, special materials of construction for pumps, special enclosures for motors and controls, control panels, etc.

Selection Table												
Unit Numbers	GPM	Disch. Head (ft)	Motor HP	Unit Numbers	GPM	Disch. Head (ft)	Motor HP	Unit Numbers	GPM	Disch. Head (ft)	Motor HP	
1750 RPM				VSABM-4B-7.5-4		43	7.5	VSABM-4B-1.5-6		19	1.5	
VSABM-4B-1-4	50	27	1	VSABM-4B-10-4	400	53	10	VSABM-4B-2-6	150	24	2	
VSABM-4B-1.5-4		37	1.5	VSABM-4E-15-4		85	15	VSABM-4B-3-6		28	3	
VSABM-4B-2-4		44	2	VSABM-4E-20-4		102	20	VSABM-4B-1-6		200	13	1
VSABM-4B-3-4		48	3	VSABM-4E-25-4		115	25	VSABM-4B-1.5-6	17		1.5	
VSABM-4B-5-4		62	5	VSABM-4E-30-4		142	30	VSABM-4B-2-6	22		2	
VSABM-4B-7.5-4		67	7.5	VSABM-4B-5-4		22	5	VSABM-4B-3-6	27		3	
VSABM-4B-10-4		78	10	VSABM-4B-7.5-4		500	34	7.5	VSABM-4B-1-6	250	10	1
VSABM-4B-1-4	21	1	VSABM-4B-10-4	45	10		VSABM-4B-1.5-6	15	1.5			
VSABM-4B-1.5-4	30	1.5	VSABM-4E-15-4	80	15		VSABM-4B-2-6	18	2			
VSABM-4B-2-4	37	2	VSABM-4E-20-4	95	20		VSABM-4B-3-6	24	3			
VSABM-4B-3-4	40	3	VSABM-4E-25-4	110	25		VSABM-4B-1.5-6	300	12	1.5		
VSABM-4B-5-4	60	5	VSABM-4E-30-4	135	30		VSABM-4B-2-6		15	2		
VSABM-4B-7.5-4	65	7.5	VSABM-4B-7.5-4	25	7.5		VSABM-4B-3-6		22	3		
VSABM-4B-10-4	75	10	VSABM-4B-10-4	37	10	VSABM-4E-5-6	37		5			
VSABM-4B-1-4	100	15	1	VSABM-4E-15-4	600	70	15	VSABM-4E-7.5-6	400	50	7.5	
VSABM-4B-1.5-4		25	1.5	VSABM-4E-20-4		90	20	VSABM-4E-10-6		62	10	
VSABM-4B-2-4		28	2	VSABM-4E-25-4		105	25	VSABM-4B-3-6		17	3	
VSABM-4B-3-4		35	3	VSABM-4E-30-4		130	30	VSABM-4E-5-6		32	5	
VSABM-4B-5-4		55	5	VSABM-4E-15-4		750	55	15	VSABM-4E-7.5-6	45	7.5	
VSABM-4B-7.5-4		62	7.5	VSABM-4E-20-4			75	20	VSABM-4E-10-6	58	10	
VSABM-4B-10-4		71	10	VSABM-4E-25-4			90	25	VSABM-4E-3-6	15	3	
VSABM-4B-1-4	200	9	1	VSABM-4E-30-4	1000	115	30	VSABM-4E-5-6	500	25	5	
VSABM-4B-1.5-4		16	1.5	VSABM-6H-20-4		55	20	VSABM-4E-7.5-6		40	7.5	
VSABM-4B-2-4		24	2	VSABM-6H-25-4		65	25	VSABM-4E-10-6		55	10	
VSABM-4B-3-4		32	3	VSABM-6H-30-4		73	30	VSABM-4E-5-6		18	5	
VSABM-4B-5-4		47	5	VSABM-6H-40-4		95	40	VSABM-4E-7.5-6	30	7.5		
VSABM-4B-7.5-4		58	7.5	VSABM-6H-50-4		116	50	VSABM-4E-10-6	47	10		
VSABM-4B-10-4		68	10	VSABM-6H-20-4		45	20	VSABM-6H-15-6	53	15		
VSABM-4B-1-4	250	8	1.5	VSABM-6H-25-4	1250	55	25	VSABM-6H-3-6	750	13	3	
VSABM-4B-1.5-4		16	2	VSABM-6H-30-4		65	30	VSABM-6H-5-6		20	5	
VSABM-4B-2-4		25	3	VSABM-6H-40-4		90	40	VSABM-6H-7.5-6		32	7.5	
VSABM-4B-3-4		44	5	VSABM-6H-50-4		110	50	VSABM-6H-10-6		40	10	
VSABM-4B-5-4		55	7.5	VSABM-6H-20-4		35	20	VSABM-6H-15-6	50	15		
VSABM-4B-7.5-4		64	10	VSABM-6H-25-4		45	25	VSABM-6H-5-6	15	5		
VSABM-4B-10-4		93	15	VSABM-6H-30-4		1500	56	30	VSABM-6H-7.5-6	1000	25	7.5
VSABM-4E-15-4	110	20	VSABM-6H-40-4	78	40		VSABM-6H-10-6	35	10			
VSABM-4E-20-4	130	25	VSABM-6H-50-4	100	50		VSABM-6H-15-6	47	15			
VSABM-4E-25-4	400	150	30	VSABM-6H-40-4	1750	67	40	VSABM-6H-7.5-6	1250		18	7.5
VSABM-4B-2-4		9	2	VSABM-6H-50-4		90	50	VSABM-6H-10-6		28	10	
VSABM-4B-3-4		20	3	1150 RPM				VSABM-6H-15-6		40	15	
VSABM-4B-5-4		38	5	VSABM-4B-1-6		50	18	1		VSABM-6H-10-6	22	10
VSABM-4B-7.5-4		51	7.5	VSABM-4B-1.5-6			24	1.5	VSABM-6H-15-6	35	15	
VSABM-4B-10-4		61	10	VSABM-4B-2-6			28	2				
VSABM-4E-15-4		300	90	15		VSABM-4B-3-6	100	38	3			
VSABM-4E-20-4	106		20	VSABM-4B-1-6	16	1						
VSABM-4E-25-4	125		25	VSABM-4B-1.5-6	22	1.5						
VSABM-4E-30-4	145		30	VSABM-4B-2-6	26	2						
VSABM-4B-3-4	16		3	VSABM-4B-3-6	32	3						
VSABM-4B-5-4	30		5	VSABM-4B-1-6	150	14		1				

EXPLANATION OF UNIT NUMBERS:
Example: VSABM-4B-5-4; VSA indicates non-clog sewage pump. BM indicates base-mounted dry pit type, -4B indicates discharge size and volute size, -5 indicates the motor horsepower, and -4 indicates the motor speed (-4 equals 4-pole 1750 rpm, -6 equals 6-pole 1150 rpm)

SUGGESTED SPECIFICATIONS:

Furnish and install as shown on plans a Federal Pump Corporation Type VSABM standard-fitted, vertical, non-clog dry pit simplex (or duplex) sewage pump unit, (each) pump rated _____ gpm at a Total Dynamic Head of _____ ft. and directly driven thru a flexible coupling by _____ hp, _____ rpm, _____ phase, _____ cycles, _____ volts, drip-proof (or totally-enclosed, explosion-proof motor(s).

Pump(s) shall have cast iron enclosed non-clog impeller, cast iron casing, stainless steel shaft secured to impeller by key and nut. Deep stuffing box shall have adjustable bronze gland. Radial bearing shall be bronze sleeve type and thrust bearing shall be ball type, both mounted in cast iron combination bearing housing and motor pedestal of tongue-in-groove construction. Coupling to be flexible type and base to be heavy cast iron with clean-out plug. Furnish a magnetic line voltage type starter in NEMA 1 (or NEMA 4 watertight; NEMA 7 explosion-proof) wall-mounting enclosure for (each) motor, to provide thermal overload and low voltage protection, plus control circuit.

Note: Specify level control for installation in wet well. Level controls can be any of the following: float switch, electrode, diaphragm switch, bubbler or FEDERAL SUBMERS-A-BULB.



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