



The sabre grinder mechanism is designed for zero clogging - a proven design in pressure sewer pumps. The grinder is assisted by a hardened 440 grade stainless steel shredding ring and grinder impeller.

The Sabre HGP2 dual-impeller pump allows high heads previously only obtained with positive displacement pumps. The centrifugal design also provides the benefit of long life and greater flows.

The centrifugal design allows the pump to run continuously without damage at high heads with no flow. This removes the requirements for sophisticated control mechanisms.

Many applications where two or three pumps were required due to higher flows can now be achieved with a single pump.

Applications

Universal portable submersible electric motor pump. For pumping of raw and waste waters, stirred sludge, raw sludge, rotten sludge, mixed waters.

Motor

Asynchronous electric 2 poles motor with squirrel-cage rotor.
Stator Insulation: F = 155 °C
Protection class: IP 68

Seals

Single Mechanical Seal SiC/SiC

Specifications

Type	Q	l/s	0.25	0.5	0.75	1	1.5	2	2.25	2.5	3
		l/m	15	30	45	60	90	120	135	150	180
		m3/h	0.9	1.8	2.7	3.6	5.4	7.2	8.1	9	10.8
Grinder GP2	H m		62	60	56	53	42				

Type	Delivery	kW	Hp	R.p.m.	Poles	Hz	A	
				l/min			1~ 230v	3~ 400v
Grinder GP2	Dn2 - G 1"1/4	1.5	2	2850	2	50	18	6
			0.5	2850	2	50	3.5	1.2

DISCHARGE	1 1/4" NPT, Female Thread (Vertical)
LIQUID TEMPERATURE	40 degrees C. (continuous) 60 degrees C. (intermittent)
MOTOR HOUSING	Cast Iron, ASTM A-48, Class 30
CORD CAP	Cast Iron, ASTM A-48, Class 30
VOLUTE	Cast Iron, ASTM A-48, Class 30
SEAL PLATE	Cast Iron, ASTM A-48, Class 30
IMPELLER	Ductile Iron Vortex with 10 Pump-out Vanes Dynamically Balanced
SHREDDING RING	Hardened 440C Stainless Steel 56-60 Rockwell C
GRINDER IMPELLER	Hardened 440C Stainless Steel 56-60 Rockwell C
SHAFT	416 Stainless Steel
SHAFT SEAL	(Upper and Lower Impeller) Single "Type 1" Silicon Carbide / Silicon Carbide / Neoprene Mechanical Seal with Neoprene Lip Seal
HARDWARE	300 Series Stainless Steel
BEARING (UPPER)	Single Row, Ball, Oil Lubricated
BEARING (LOWER)	Single Row, Ball, Oil Lubricated
HARDWARE	300 Series Stainless Steel
SQUARE RINGS	Buna-N
POWER CORD	UL/C(UL) Listed 14 AWG, Type SJOW or SOOW 10 metre Length Standard Other Lengths Available
CORD ENTRY	Triple Scaled Design Compression Grommet - Outer Jacket Seal Epoxy Potted - Inner conductor Seal Butt Connector - Inner Wire Strand Wicking Blockage
MOTOR (SINGLE PHASE)	1.5 kW, 18 amps, 2900 rpm, 50 Hz, 240 volts NEMA L Includes Overload Protection in the Motor Oil Filled, Class F Capacitor Start / Capacitor Run Start capacitor 400 µfd, 125 volts Run Capacitor 90 µfd, 250 volts
MOTOR (THREE PHASE)	1.5 kW, 6 amps, 2900 rpm, 50 Hz, 415 volts 30 NEMA Requires Overload Protection in the Control Panel Oil Filled, Class F
OPTIONAL EQUIPMENT	Seal Materials Additional Cable Lengths Guide Rail Systems Complete Pump, Tank & Control Packages Multiple Pump Systems

