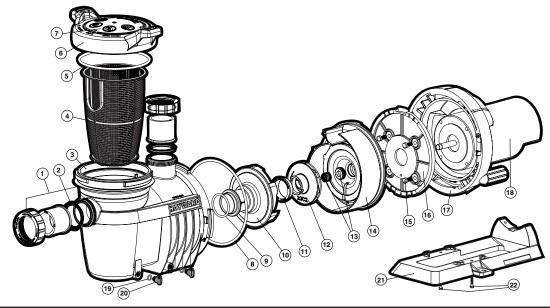


NorthStar

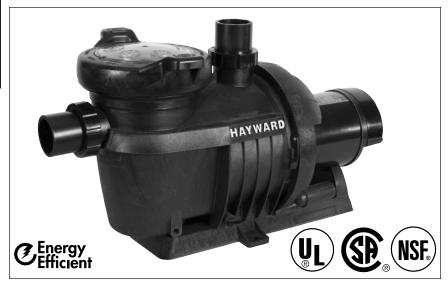
SP4000X PUMP SERIES (ENERGY EFFICIENT, MAX-RATED) REPLACEMENT PARTS

Parts for Pump Models: SP4007X10(NS), SP4010X15(NS)/2(NS), SP4015X20(NS)/2(NS), SP4020X25(NS)/2(NS), SP4025X30(NS)



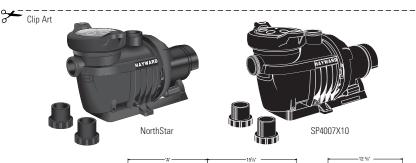
SPX200UNIFAT	Ref. No.	Part No.	Description	Ctn. Qty.	List Price
SPK4000LNPAK2	1			1	
SPK4000HSGKIT				1 1	
Strainer Cover Kit (#6 & 7) and Drain Plug with O-Ring (#19 & 20) 1 9.66			Housing Kit (includes Union Connector Kit (#1) Pump Housing (#3) Strainer Rasket (#4)	1	
SPX42000F		31 A4000113GK11		'	337.71
SPX4000Z1	2	SPX3200UG		1	9.66
SPK4020TP	_				
SPK4000TS		SPX4020TP		1	293.84
SPK4000TS	4			1	
CX400G Strainer Cover O-Ring (prior to 2003) 1 26.67 CMX600F Pressure Test 0-Ring (2007 and earlier) 1 12.06	5			10	
GMX600F			Strainer Cover T-Ring (2003-2007)	1	
6 & 7 SPX4000CLO Strainer Cover Kit (includes Strainer Cover, Lock Ring and O-Ring) (2008 and later) 1 77.84 SPX4000CLOB Strainer Cover Kit (includes Strainer Cover, Lock Ring and O-Ring) (2007 and prior) 1 80.95 SPX4000DLT Strainer Cover Kit (includes Strainer Cover, Lock Ring and O-Ring) (2007 and prior) 1 85.00 8 SPX4000T Strainer Cover Kit for Biguanide Sanitizers (2007 and prior NOT Pressure Testable) 1 10 19.61 9 SPX4000T Diffuser O-Ring 10 10 9.66 10 SPX400B Diffuser 1 29.41 11 SPX300SA Seal Assembly 1 4.51 13 SPX400E Seal Plate 1 4.706 15 SPX400E Motor Mounting Plate 1 4.706 15 SPX400F Motor Mounting Plate 1 4.819 19 SPX400F Motor Lock Ring 1 4.819 19 SPX400F Motor Mounting Base with (2) Cap Screws 1 3.595 22 SPX400FG Drain			Strainer Cover O-Ring (prior to 2003)	1	
SPX4000LUB Strainer Cover Kit for Biguanide Sanitizers (2008 and later NOT Pressure Testable) 1 88.95	0.0.7		Pressure Test U-King (2007 and earlier)	1	
SPX4000DLT Strainer Cover Kit (includes Strainer Cover, Lock Ring and O-Ring) (2007 and prior) 1 85.00 SPX4000DLTB Strainer Cover Kit for Biguanide Sanitizers (2007 and prior NOT Pressure Testable) 1 85.00 19.61	b & /		Strainer Cover Kit (includes Strainer Cover, Lock King and U-King) (2008 and later) Strainer Cover Kit for Piguanida Socitizara (2008 and later NOT Procedure Tootable)	1	
SPX4000DLTB				1	
8 SPX4000T Seal Plate O-Ring 10 19.66 9 SPX4000E Diffuser O-Ring 10 9.66 10 SPX4000B Diffuser 1 29.41 11 SPX3021R Impeller Ring 1 4.51 13 SPX3200SA Seal Plate 1 47.06 14 SPX4000E Seal Plate 1 47.06 15 SPX4000E Seal Plate 1 7.09 16 SPX4000F Motor Bolt 1 7.09 16 SPX4000F Motor Mounting Plate 1 48.19 17 SPX4000F Motor Lock Ring 1 48.19 19 SPX4000F Mounting Base with (2) Cap Screws 1 3.34 21 SPX4000F Drain Plug with 0-Ring 1 3.35 22 SPX4000F Mounting Base (ap Screws (set of 2) 1 3.38 21 SPX4000F Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 5.34 12 <td></td> <td></td> <td></td> <td>1</td> <td></td>				1	
9 SPX4000Z1 Diffuser 0-Ring 10 9.66 10 SPX4000B Diffuser 1 29.41 11 SPX3021R Impeller Ring 1 4.51 13 SPX3200SA Seal Assembly 10 19.58 14 SPX4000E Seal Plate 1 47.06 15 SPX4000F Motor Bolt 1 47.09 16 SPX4000F Motor Mounting Plate 1 41.85 17 SPX4000K Motor Lock Ring 1 41.85 18 SPX4000G Drain Plug with 0-Ring 10 3.34 21 8.22 SPX4000GA Mounting Base with (2) Cap Screws 1 35.95 22 SPX1600Z52 Mounting Base Cap Screws (set of 2) 1 3.85 Parts listed below must be ordered for specific model & H.P. 12 SPX4007CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 544.81 SPX4010CKIT Impeller for 2 H.P. with Impeller Ring and Seal Assembly 5 51.22	8			10	
1					
11 SPX3021R Impeller Ring 1 4.51 13 SPX3200SA Seal Assembly 10 19.58 14 SPX4000E Seal Plate 1 47.06 15 SPX4000F Motor Bolt 1 7.09 16 SPX4000F Motor Mounting Plate 1 41.85 17 SPX4000K Motor Lock Ring 1 48.19 19 & 20 SPX4000FG Drain Plug with 0-Ring 10 3.34 21 & 22 SPX4000GA Mounting Base with (2) Cap Screws 1 35.95 22 SPX1600Z52 Mounting Base Cap Screws (set of 2) 1 3.85 Parts listed below must be ordered for specific model & H.P. 12 SPX4007CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 \$44.81 SPX4010CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 \$4.37 SPX402CKIT Impeller for 2 H.P. with Impeller Ring and Seal Assembly 5 \$1.22 SPX402CKIT Impeller for 3 H.P. with Impeller Ring and Seal Assembly 5 \$5.122 SPX1610Z1MNS Motor, 1 H.P. <td>-</td> <td></td> <td>Diffuser</td> <td></td> <td></td>	-		Diffuser		
14 SPX4000E Seal Plate 1 47.06 15 SPX1125Z44 Motor Bolt 1 7.09 16 SPX4000F Motor Mounting Plate 1 41.85 17 SPX4000K Motor Lock Ring 1 48.19 19 & 20 SPX4000FG Drain Plug with O-Ring 10 3.34 21 & 22 SPX4000GA Mounting Base with (2) Cap Screws 1 35.95 22 SPX4000CKIT Mounting Base Cap Screws (set of 2) 1 3.85 Parts listed below must be ordered for specific model & H.P. 12 SPX4007CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 \$44.81 SPX4010CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 \$47.37 SPX4015CKIT Impeller for 2 H.P. with Impeller Ring and Seal Assembly 5 \$51.22 SPX4025CKIT Impeller for 3 H.P. with Impeller Ring and Seal Assembly 5 \$51.22 SPX1610Z1MNS Motor, 1 H.P. 1 367.97 SPX1610Z1MNS Motor, 1 H.P. 1 401.38 SPX1615Z1MNS Motor, 2 H.P., 2-speed <td< td=""><td></td><td></td><td></td><td>1</td><td></td></td<>				1	
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16 SPX4000F Motor Mounting Plate 1 41.85 17 SPX4000K Motor Lock Ring 1 48.19 19 & 20 SPX4000FG Drain Plug with 0-Ring 10 3.34 21 & 22 SPX4000GA Mounting Base with (2) Cap Screws 1 35.95 22 SPX4007CKIT Impeller for 2 Base Cap Screws (set of 2) 1 3.85 Parts listed below must be ordered for specific model & H.P. Impeller for 2 H.P. with Impeller Ring and Seal Assembly 10 \$44.81 12 SPX4007CKIT Impeller for 1 H.P. with Impeller Ring and Seal Assembly 10 \$44.81 15 SPX4015CKIT Impeller for 2 H.P. with Impeller Ring and Seal Assembly 10 \$47.37 16 SPX4020CKIT Impeller for 3 H.P. with Impeller Ring and Seal Assembly 5 \$51.22 18 SPX1607Z1MNS Motor, 1 H.P. 1 367.97 18 SPX1610Z1MNS Motor, 1 1/2 H.P. 2-speed 1 401.38 18 SPX1610Z1MNS Motor, 2 H.P. 1 401.38 19 SPX1615Z		SPX4000E	Seal Plate	1	
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SPX4025CKIT Impeller for 3 H.P. with Impeller Ring and Seal Assembly 5 51.22 18 SPX1607Z1MNS Motor, 1 H.P. 1 367.97 SPX1610Z1MNS Motor, 1 1/2 H.P. 1 401.38 SPX1610Z2MNS Motor, 1 1/2 H.P. 2-speed 1 368.62 SPX1615Z1MNS Motor, 2 H.P. 1 446.33 SPX1615Z2MNS Motor, 2 H.P., 2-speed 1 451.35 SPX1620Z1MNS Motor, 2 1/2 H.P. 1 497.61 SPX1620Z2MNS Motor, 2 1/2 H.P., 2-speed 1 534.09					
18 SPX1607Z1MNS Motor, 1 H.P. 1 367.97 SPX1610Z1MNS Motor, 1 1/2 H.P. 1 401.38 SPX1610Z2MNS Motor, 1 1/2 H.P. 2-speed 1 368.62 SPX1615Z1MNS Motor, 2 H.P. 1 446.33 SPX1615Z2MNS Motor, 2 H.P., 2-speed 1 451.35 SPX1620Z1MNS Motor, 2 1/2 H.P. 1 497.61 SPX1620Z2MNS Motor, 2 1/2 H.P., 2-speed 1 534.09					
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SPX1620Z1MNS Motor, 2 1/2 H.P. 1 497.61 SPX1620Z2MNS Motor, 2 1/2 H.P., 2-speed 1 534.09				1	
SPX1620Z2MNS Motor, 2 1/2 H.P., 2-speed 1 534.09				1	
				1	
		SPX1625Z1MNS	Motor, 3 H.P.	1	639.09

NOTE: For models prior to 2003, when replacing either the impeller or seal assembly, must purchase the impeller kit to replace both to ensure compatibility.

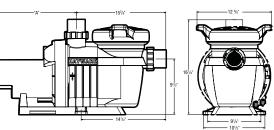


SP4015 1 1/2 H.P. NorthStar Pump

NorthStar Pump Buying Guide									
Model	Total	Rated	Service	<u> </u>	Union	Dim.	Ctn.	Ctn.	
Number	H.P.	H.P.	Factor	Voltage	Connectors	"A"	Qty.	Weight	
Energy Efficient	t Full F	Rated Si	ngle-Sp	eed					
SP4007	1.40	3/4	1.85	115/208-230	2" x 2 ½"	13"	1	44 lbs.	
SP4010	1.85	1	1.85	115/208-230	2" x 2 ½"	13 ½"	1	49 lbs.	
SP4015	2.40	1 ½	1.60	115/208-230	2" x 2 ½"	13 ¾"	1	57 lbs.	
SP4020	2.70	2	1.35	208-230	2" x 2 ½"	14 ¹ /2"	1	63 lbs.	
SP4030	4.80	3	1.60	208-230	2" x 2 ½"	16"	1	70 lbs.	
Energy Efficient	t Max	Rated S	ingle-S _l	oeed					
SP4007X10	1.40	1	1.40	115/208-230	2" x 2 ½"	13"	1	44 lbs.	
SP4010X15	1.85	1 ½	1.25	115/208-230	2" x 2 ½"	13 ½"	1	49 lbs.	
SP4015X20	2.40	2	1.20	115/208-230	2" x 2 ½"	13 ¾"	1	57 lbs.	
SP4020X25	2.75	2 ½	1.10	208-230	2" x 2 ½"	14 ½"	1	63 lbs.	
SP4025X30	3.60	3	1.20	208-230	2" x 2 ½"	14 ¾"	1	70 lbs.	
Energy Efficient Max Rated Dual-Speed									
SP4010X152	1.88	1 ½	1.25	230	2" x 2 ½"	15 1/4"	1	49 lbs.	
SP4015X202	2.40	2	1.20	230	2" x 2 ½"	16"	1	57 lbs.	
SP4020X252	2.75	2 ½	1.10	230	2" x 2 ½"	16"	1	63 lbs.	







Designed for today's most demanding installations, the NorthStar is performance designed to maximize flow and minimize noise, and simplify service and installation. Features such as a high efficiency motor, CPVC unions, and Hayward's cam and ramp lid design will make NorthStar the pump choice of all pool professionals.

Applications

- In-ground pools of all types and sizes (including in-floor cleaning systems, solar heating systems, water features).
- In-ground spas or in-ground pool/spa combinations
- Fountains

Features

- Saves electricity and money through high-flow characteristics combined with an energy efficient motor.
- Exclusive, high-performance NorthStar motor design for quieter, cooler and more energy efficient operation.
- 2" x 2 1/2" CPVC union connections make installation and servicing fast and easy.
- Massive 220-cubic-inch straining basket extends time between cleanings.
- Cam and ramp lid seals with less than a quarter turn
- Pressure testable to 50 psi maximum
- Rugged, one-piece strainer housing for extra durability and long life.
- High-profile mounting base
- Self-priming (suction lift up to 10' above water level)

Performance Data

		Pump Output (GPM) vs.					
Full Rated	Max Rated	Total Resistance to Flow					
Model No.	Model No.	(Feet of Head)					
		40 ft	50 ft	60 ft	70 ft	80 ft	90 ft
SP4007	SP4007X10	77	64	48	30	_	_
SP4010	SP4010X15	107	94	78	59	30	_
SP4015	SP4015X20	134	120	102	82	52	_
SP4020	SP4020X25	148	132	117	97	72	14
	SP4025X30	172	166	148	134	104	90
SP4030		170	170	170	161	143	126

Performance Data – Low Speed

				•			
	Pump Output (GPM) vs.						
Max Rated	Total Resistance to Flow						
Model No.	(Feet of Head)						
	5 ft	10 ft	15 ft	20 ft	25 ft	30 ft	
SP4010X152	74	64	49	33	_	_	
SP4015X202	80	68	55	35	_	_	
SP4020X252	88	76	61	39	_	_	