

Irrigation & Superbooster Pumps



Irrigation & Superbooster Pumps

Pump Catalog - March 2022

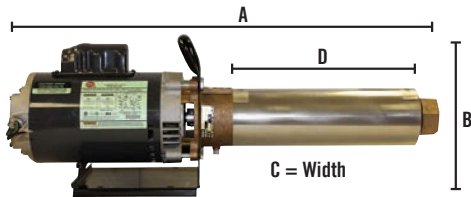
MORE THAN A BRAND. WE'RE A FAMILY.

Superbooster

Booster systems | Filtration | Spray systems | Water circulation | Reverse osmosis

A.Y. McDonald offers a full line of superboosters ranging from 1/2 through 2 horsepower, with a flow rate ranging from 5 through 25 gallons per minute (GPM). Our superbooster offers peak capacity performance in 5, 7, 10, 15, 20, and 25 GPM models. The superbooster can be used for general purpose pumping along with residential, commercial applications, and pressure washing for agriculture.

- Keyed shaft motor with shaft extension/coupling for easy motor replacement
- Heavy duty corrosion resistant construction
- No-Lead Brass intake and discharge
- Thermoplastic impellers and diffusers for long life
- Stainless steel shell, shaft extension and hex shaft
- 3/4" Ceramic/carbon rotary mechanical seal
- 1 1/4" Intake, 1 1/4" Discharge
- Drain plug



Nema C Motor

Nema C (Keyed Shaft) Motor which has a single phase, Open Drip Proof (ODP) capacitor start.



Features:

- Carbon steel shaft (not in contact with the water)
- Shaft 0.625" Diameter, x 2.07" long from face
- Ball bearings (locked drive end bearing)
- Continuous duty at 40°C / 104°F Ambient, 60Hz
- Automatic reset thermal overload protector
- Round frame (without base), Nema 56C mounting
- Power leads and ground wire supplied for proper connection to the pressure switch
- Voltage change device (except 2 HP)

Two Compartments Products | E-Z Access

Part No.	HP	RPM	Frame	Catalog Volt	Type	Service Factor	SF* AMPS	MTR LGTH(1)	Ship Wt.	Factory Wired
6903-280	1/2	3500	48/56	115/230	FNP	1.60	10.8/5.4	9"	19	115V
6903-281	3/4	3500	48/56	230/115	FHP	1.50	6.4/12.8	9.5"	23	230V
6903-282	1	3500	48/56	230/115	FHP	1.40	7.7/15.4	10"	25	230V
6903-283	1 1/2	3500	48/56	230/115	FHP	1.30	10.9/21.8	10.5"	31	230V
6903-284	2	3500	48/56	230	FHP	1.20	11.1	10.5"	32	230V

*Service Factor Amps. may vary with motor manufacturer - refer to label on motor

(1) Length not including shaft

(2) Contact factory for three phase and/or TEFC motors

Repair parts multiplier applies

Factory set voltage in bold.

Part No.	Model No.
6903-041	27000KIT

Repair gauge kit (use for alignment when assembling motor and pump end back together).

Note - To change the voltage:

- remove the plate off the back of the motor
- move the spades to the appropriate location

Superbooster

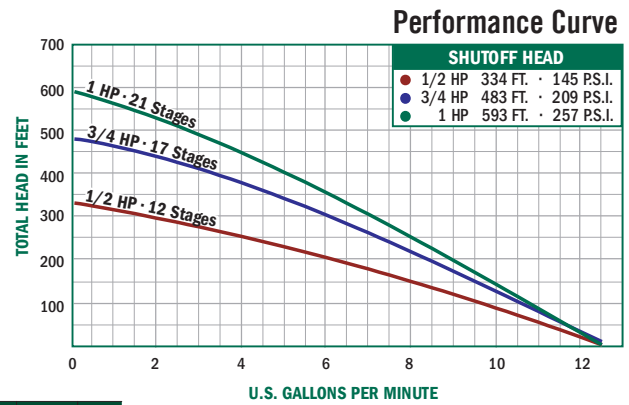
J - 5 GPM - 27000JHB

Pump Ends

Part No.	Model No.	HP	Wt.
6903-063	27050JHBPE	1/2	18
6903-077	27075JHBPE	3/4	21
6903-058	27100JHBPE	1	19

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-012	27050JHB	1/2	115/230	10.8/5.4	1 1/4"	1 1/4"	24.72	9.4	6.5	13.67	34
6903-013	27075JHB	3/4	230 /115	7.4/14.8	1 1/4"	1 1/4"	29.12	9.4	6.5	17.57	42
6903-014	27100JHB	1	230 /115	9.0/18.0	1 1/4"	1 1/4"	34.13	9.4	6.5	22.08	44



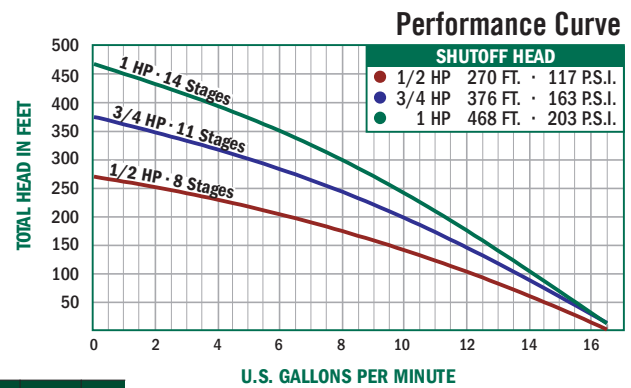
V - 7 GPM - 27000VHB

Pump Ends

Part No.	Model No.	HP	Wt.
6903-065	27050VHBPE	1/2	13
6903-034	27075VHBPE	3/4	17
6903-029	27100VHBPE	1	19

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-015	27050VHB	1/2	115/230	10.8/5.4	1 1/4"	1 1/4"	21.60	9.4	6.5	10.55	34
6903-016	27075VHB	3/4	230 /115	7.4/14.8	1 1/4"	1 1/4"	24.43	9.4	6.5	12.87	39
6903-017	27100VHB	1	230 /115	9.0/18.0	1 1/4"	1 1/4"	27.33	9.4	6.5	15.28	42



K - 10 GPM - 27000KHB

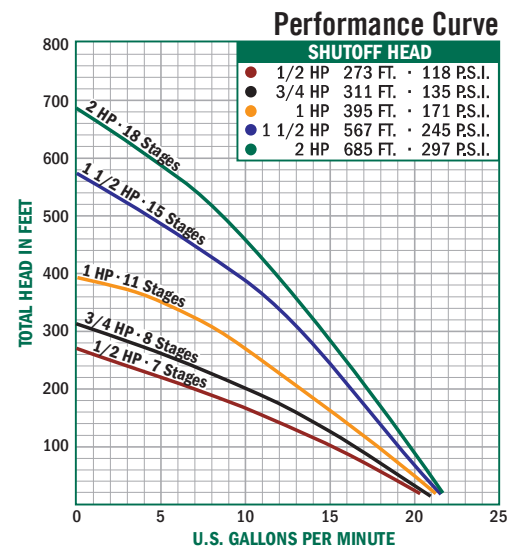
Pump Ends

Part No.	Model No.	HP	Wt.
6903-037	27050KHBPE	1/2	14
6903-038	27075KHBPE	3/4	15
6903-033	27100KHBPE	1	16
6903-035	27150KHBPE	1 1/2	18
6903-036	27200KHBPE	2	17

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-018	27050KHB	1/2	115/230	10.8/5.4	1 1/4"	1 1/4"	21.13	9.4	6.5	10.08	35
6903-011	27075KHB	3/4	230 /115	7.4/14.8	1 1/4"	1 1/4"	22.47	9.4	6.5	10.92	40
6903-019	27100KHB	1	230 /115	9.0/18.0	1 1/4"	1 1/4"	25.56	9.4	6.5	13.51	42
6903-020	27150KHB	1 1/2	230 /115	10.7/21.4	1 1/4"	1 1/4"	30.68	9.4	6.5	18.13	53
6903-021	27200KHB	2	230	10.2*	1 1/4"	1 1/4"	33.16	9.4	6.5	20.61	54

Factory set voltage in bold.



Irrigation & Superbooster Pumps

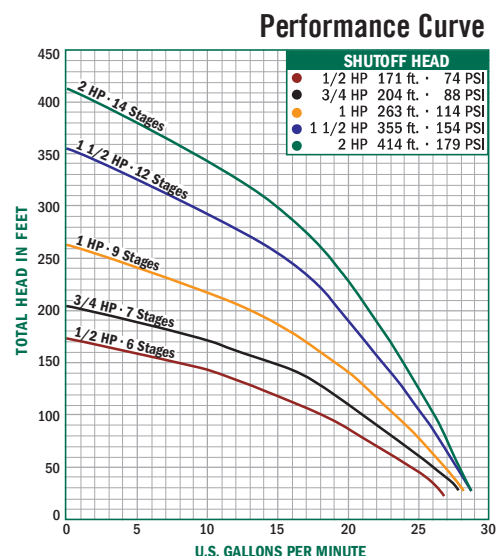
Superbooster L - 15 GPM - 27000LHB

Pump Ends

Part No.	Model No.	HP	Wt.
6903-043	27050LHBPE	1/2	12
6903-045	27075LHBPE	3/4	15
6903-047	27100LHBPE	1	17
6903-049	27150LHBPE	1 1/2	18
6903-051	27200LHBPE	2	16

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-042	27050LHB	1/2	115/230	10.8/5/4	1 1/4"	1 1/4"	22.00	9.4	6.5	10.00	30
6903-044	27075LHB	3/4	230/115	6.4/12.8	1 1/4"	1 1/4"	24.00	9.4	6.5	11.00	35
6903-046	27100LHB	1	230/115	7.7/15.4	1 1/4"	1 1/4"	26.00	9.4	6.5	13.00	37
6903-048	27150LHB	1 1/2	230/115	10.9/21.8	1 1/4"	1 1/4"	30.00	9.4	6.5	16.00	46
6903-050	27200LHB	2	230	11.1*	1 1/4"	1 1/4"	31.50	9.4	6.5	18.00	47



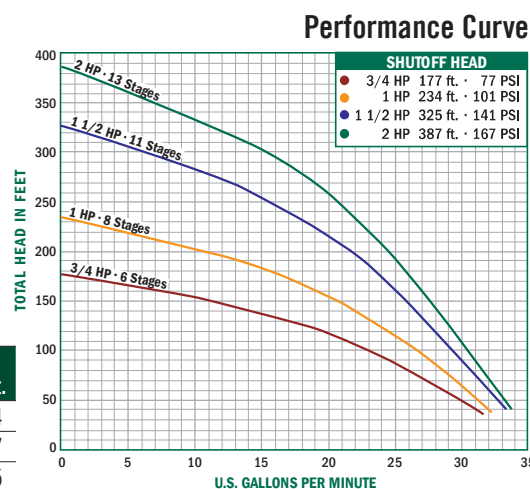
P - 20 GPM - 27000PHB

Pump Ends

Part No.	Model No.	HP	Wt.
6903-052	27075PHBPE	3/4	12
6903-053	27100PHBPE	1	15
6903-040	27150PHBPE	1 1/2	16
6903-032	27200PHBPE	2	20

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-022	27075PHB	3/4	230/115	6.4/12.8	1 1/4"	1 1/4"	23.00	9.4	6.5	10.00	34
6903-023	27100PHB	1	230/115	7.7/15.4	1 1/4"	1 1/4"	25.00	9.4	6.5	12.00	37
6903-024	27150PHB	1 1/2	230/115	10.9/21.8	1 1/4"	1 1/4"	29.00	9.4	6.5	15.00	45
6903-025	27200PHB	2	230	11.1	1 1/4"	1 1/4"	30.50	9.4	6.5	17.00	47



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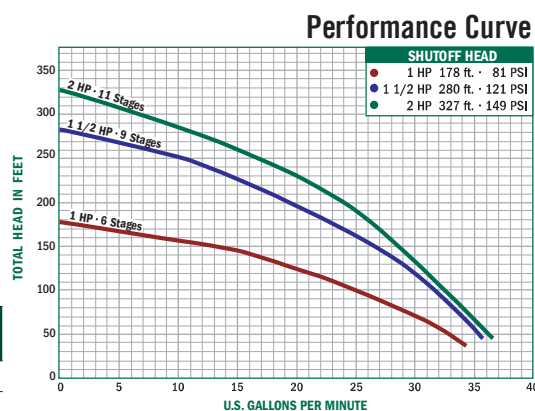
M - 25 GPM - 27000MHB

Pump Ends

Part No.	Model No.	HP	Wt.
6903-030	27100MHBPE	1	12
6903-054	27150MHBPE	1 1/2	12
6903-031	27200MHBPE	2	15

Specifications

Part No.	Model	HP	Volts	Max. Amps	Intake	Discharge Size	A	B	C	D	Wt.
6903-026	27100MHB	1	230/115	7.7/15.4	1 1/4"	1 1/4"	23.00	9.4	6.5	10.00	36
6903-027	27150MHB	1 1/2	230/115	10.9/21.8	1 1/4"	1 1/4"	27.00	9.4	6.5	13.00	44
6903-028	27200MHB	2	230	11.1	1 1/4"	1 1/4"	28.50	9.4	6.5	15.00	46



Factory set voltage in bold.

92000 & 93000 Series - Workhorse End Suction Centrifugal Pumps

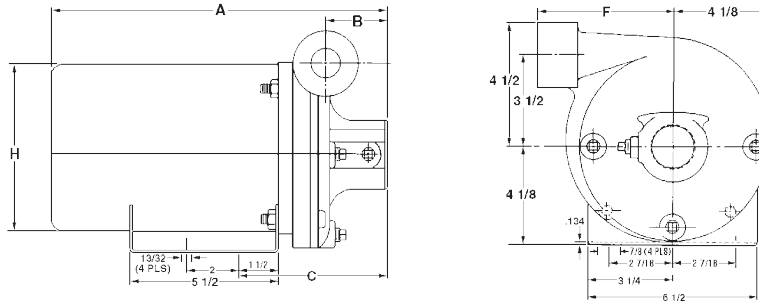
A.Y. McDonald Mfg. Co. 92000 & 93000 Series Centrifugal Pumps cover a wide range of applications. Ideal for booster systems, farms, industry, lawn sprinkling, irrigation, air conditioning, tower cooling, and other water transfer applications.

Features:

- Heavy duty cast iron construction
- Quality Nema standard square flange motor
- Precision molded Noryl impeller (no-lead bronze available)
- Four position discharge with three drain ports
- Easy serviceability with rear pull out design, no need to disturb plumbing
- 175° maximum



Dimensions



NOTE: Four position discharge - vertical or horizontal.
Air volume control tapping - optional on suction side of pump.

Specifications - Single Phase

Part No.	Model No.	HP	Voltage & Phase	Ports Suct.	Ports Disch.	A	B	C	F	H	Packing Dimen. Inches	Weight Lbs
6712-000	92030	1/3	115 / 230 / 1	1 1/4"	1"	15.40	2.35	6.10	4.35	5.60	15.5 x 8.5 x 10	36
6712-001	92050	1/2	115 / 230 / 1	1 1/4"	1"	15.40	2.35	6.10	4.35	5.60	15.5 x 8.5 x 10	36
6712-002	92070	3/4	230 / 115 / 1	1 1/4"	1"	15.90	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	36
6712-003	92100	1	230 / 115 / 1	1 1/4"	1"	16.40	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	38
6712-004	92150	1 1/2	230 / 115 / 1	1 1/4"	1"	16.60	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	42
6712-005	92200	2	230 / 1	1 1/2"	1 1/4"	18.15	2.90	6.75	4.70	6.30	18.25 x 9.5 x 10	43
6712-006	92250	2 1/2	230 / 1	2"	1 1/2"	18.15	2.90	6.75	4.70	6.30	18.25 x 9.5 x 10	43
6712-007	92300	3	230 / 1	2"	1 1/2"	18.15	2.90	6.75	4.70	6.30	18.25 x 9.5 x 10	54

Specifications - Three Phase

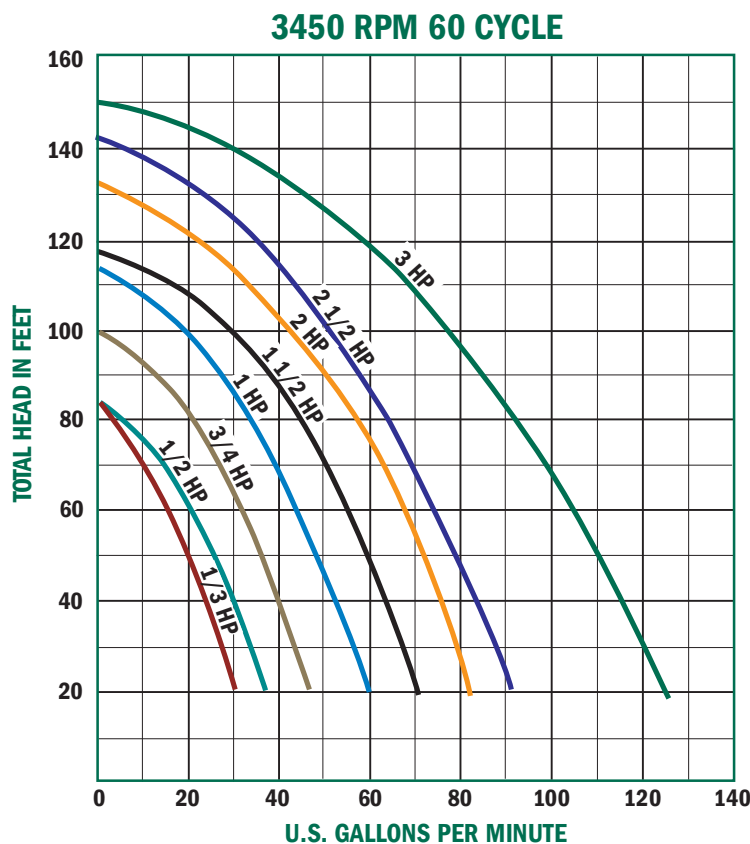
Part No.	Model No.	HP	Voltage & Phase	Ports Suct.	Ports Disch.	A	B	C	F	H	Packing Dimen. Inches	Weight Lbs
6712-010	93050	1/2	230 / 3	1 1/4"	1"	15.40	2.35	6.10	4.35	5.60	15.5 x 8.5 x 10	32
6712-011	93070	3/4	230 / 3	1 1/4"	1"	15.90	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	34
6712-012	93100	1	230 / 3	1 1/4"	1"	16.40	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	37
6712-013	93150	1 1/2	230 / 3	1 1/4"	1"	16.60	2.35	6.10	4.35	5.60	16.5 x 9.5 x 10	41
6712-014	93200	2	230 / 3	1 1/2"	1 1/4"	18.15	2.90	6.75	4.70	6.30	18.25 x 9.5 x 10	48
6712-008	93300	3	230 / 3	2"	1 1/2"	18.15	2.90	6.75	4.70	6.30	18.25 x 9.5 x 10	58

Three Phase -- 208/230/460V, just need to change the wires for the desired voltage.
Factory set voltage in bold.

Irrigation & Superbooster Pumps

92000 & 93000 Series - Workhorse End Suction Centrifugal Pumps

Performance Curves



- Tested at 2 ft. lift

Model	92100	92150	92200	92250	92300
PEI	0.73	0.75	0.83	0.99	0.75
Imp. Dia. (in)	5.33	5.32	5.88	6.06	6.11

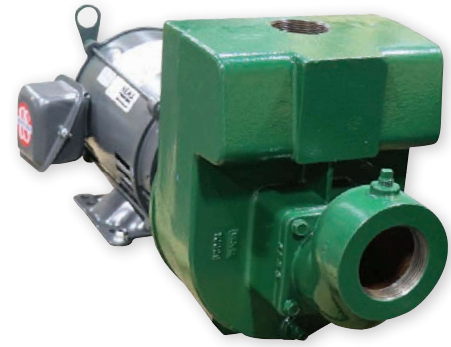
Performance (GPM)

Model No.	HP	Total Head in FT.												Max Head FT/PSIG		
		30	40	50	60	70	80	90	100	110	120	130	140			
92030	1/3	28	23	20	16	10										84' / 36#
93030																
92050	1/2	33	30	26	21	14										83' / 36#
93050																
92070	3/4	42	40	36	31	28	21	11								100' / 43#
93070																
92100	1	57	52	49	42	39	32	28	19							113' / 48#
93100																
92150	1 1/2	68	62	60	55	50	43	38	30	18						118' / 51#
93150																
92200	2	79	76	73	69	63	58	50	41	32	22					132' / 57#
93200																
92250	2 1/2		84	79	75	70	65	59	52	45	35	24				142' / 61#
93250																
92300	3		115	110	103	98	91	85	78	69	59	46	30			150' / 65#
93300																
Model No.	HP	13	17	21	26	30	34	39	43	47	52	56	60	PSI		

Irrigation & Superbooster Pumps

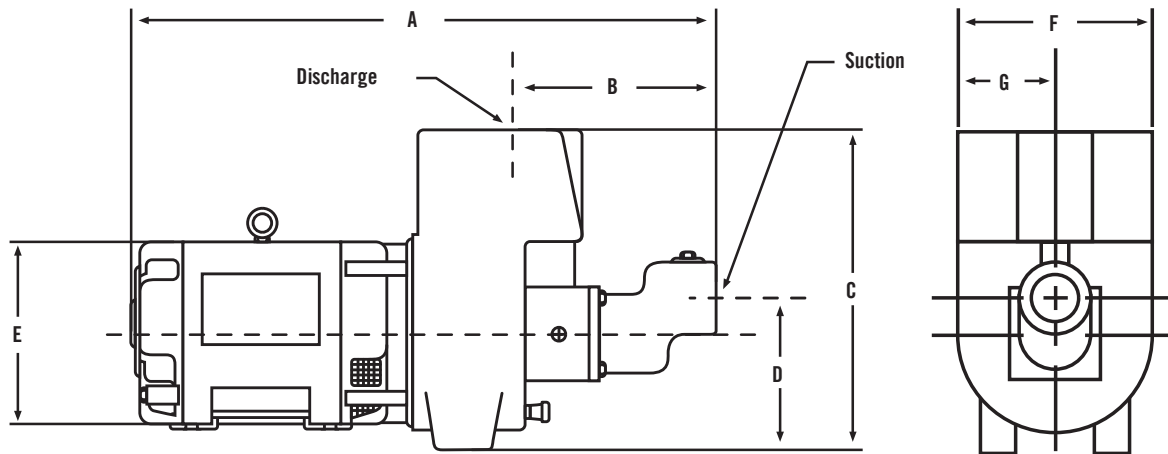
84000 Series 3 & 5 HP Lawn Sprinkler Self-Priming Centrifugal Pumps

A.Y. McDonald 3 & 5 HP self-priming pumps are specially designed to be one of the fastest priming pumps on the market today. These pumps are well-suited for lawn sprinkling applications with a brass impeller, tapped for an air volume control and also includes a suction flange with a flapper valve to ensure priming.



Features:

- All Pumps Equipped with NEMA JM 3,500 RPM
- Single Phase 230 Volt or Three Phase 230 / 460 Volt
- Dual Ball Bearing



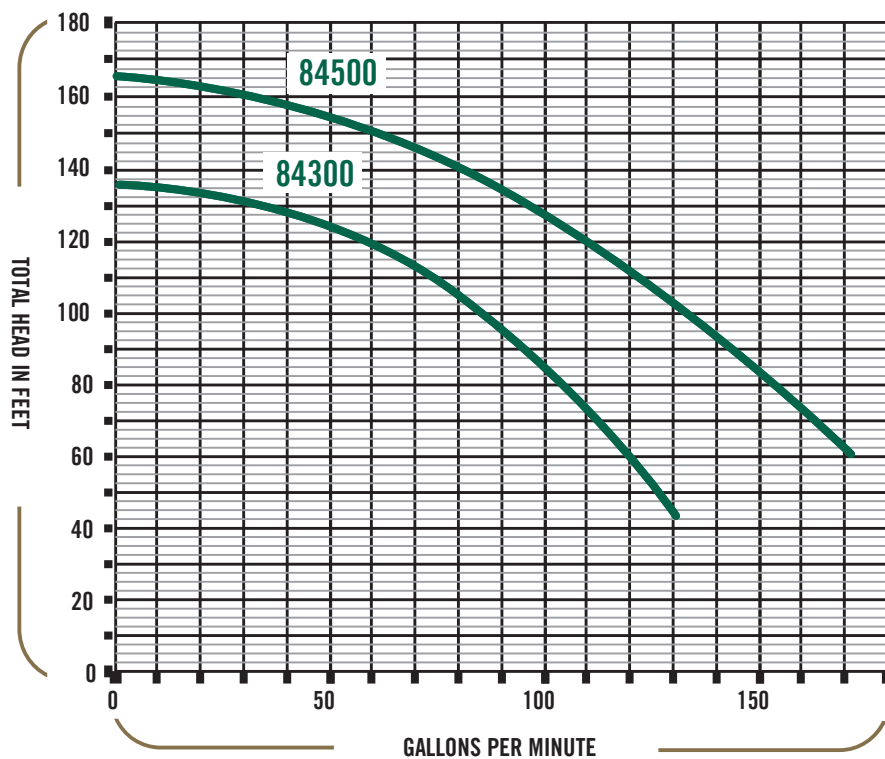
Dimensional Information

Part No.	Model	HP	Voltage	Phase	Suction	Discharge	A	B	C	D	E	F	G	Lbs
6180-104	84300	3	230	1	2	1 1/2	25.50	7.44	13.25	6.50	9.38	9.25	4.75	144
6180-108	84300-3	3	208-230 / 460	3	2	1 1/2	23.50	7.44	13.25	6.69	7.19	9.25	4.75	144
6180-107	84500	5	230	1	2 1/2	2	27.25	8.44	13.25	7.44	8.56	9.25	4.75	182
6180-109	84500-3	5	208-230 / 460	3	2 1/2	2	25.75	8.44	13.25	7.44	9.38	9.25	4.75	182

84000 Series

3 & 5 HP Lawn Sprinkler Self-Priming Centrifugal Pumps

Performance Curves



Performance Data

Model	HP	Volts	Phase	NPT INCH		Discharge Head		Suction Lift in Feet					Weight Lbs
				SUC	DIS	PSI	FEET	5	10	15	20	25	
								Capacity - U.S. Gallons per Minutes					
84300	3	230	1	2	1 1/2	20	46	123	120	108	98	70	144
						30	69	108	105	98	94	68	
84300-3	3	230 / 460	3	2	1 1/2	40	92	87	82	76	70	62	
						50	115	60	52	44	33	18	
84500	5	230	1	2 1/2	2	20	46	162	160	151	140	98	182
						30	69	160	158	150	136	98	
84500-3	5	230 / 460	3	2 1/2	2	40	92	146	141	136	130	96	
						50	115	118	115	104	94	94	

Specifications are subject to change without notice

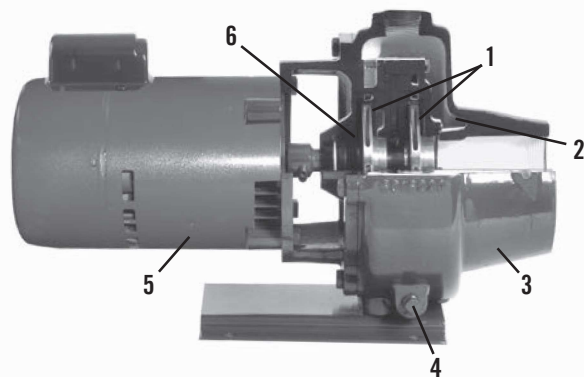
Irrigation & Superbooster Pumps

1500XSW Series Multi-Stage Centrifugal Pumps

This two stage construction multi-stage centrifugal pump provides pressure to 60 PSI for high pressure applications. Motors are Nema standard construction, coupled shaft design and available in both single and three-phase. Housing and adapter are cast iron. Impeller of your choice - no-lead bronze or plastic.

Features:

- Trouble-free (carbon-ceramic) seal.



- 1 - Impeller**
Available in either dynamically balanced no-lead bronze or engineered thermoplastic
- 2 - Cast Iron Diffusers**
Precision machined for greatest efficiency
- 3 - Cast Iron Pump Body & Motor Adapter**
- 4 - Drain Plug**
- 5 - Nema Standard Motor**
Heavy duty, capacitor start, dual voltage (230/115) with built-in overload protection. Choice of 3/4, 1, 1 1/2, & 2 HP. 60 Hz.
- 6 - Shaft Seal**
Standard 3/4" ceramic carbon rotating mechanical seal

Performance

Model No.	HP	Suction Lift - FT.	Capacities in GPM at Discharge Pressure				
			20	30	40	50	60
1575XSW 1575XSW3	3/4	10	34.3	28.8	22.2		
		15	33.2	27.6	20.4		
		20	32	26	18.4		
		25	29.9	24.9	--		
1510XSW 1510XSW3	1	10	41.7	37.7	31.7	24.2	
		15	40	36.5	30.2	22.2	
		20	36.6	34.3	28.5	19.8	
		25	29.5	28.5	26.5	16.5	
1515XSW 1515XSW3	1 1/2	10	42.3	40.5	36.5	32	24.5
		15	41.7	39.8	35.3	29.3	23
		20	40.3	39	34	28	21
		25	33.3	32.5	31	26.5	18.8

- To order with plastic impeller, add "P" to model number above. Example: 1575XSWP

Specifications

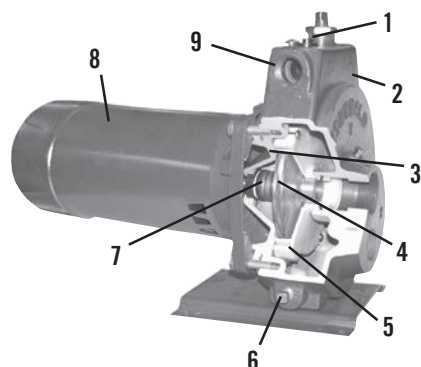
Part No.	Model No.	HP	Voltage	Phase	Suction	Discharge	Stages	Ship WT. (lbs.)
6331-100	1575XSW	3/4	115 / 230	1	1 1/4"	1"	2	64
	1575XSW3	3/4	230 / 460	3	1 1/4"	1"	2	59
6326-100	1510XSW	1	115 / 230	1	1 1/4"	1"	2	64
6326-102	1510XSW3	1	230 / 460	3	1 1/4"	1"	2	61
6327-100	1515XSW	1 1/2	115 / 230	1	1 1/4"	1"	2	66
6327-102	1515XSW3	1 1/2	230 / 460	3	1 1/4"	1"	2	64

8600SW Series Convertible Centrifugal Pumps

The convertible centrifugal pump is ideal for lawn sprinkling, garden irrigation, pool filling, draining, cooling towers, and other water transfer applications. The square flange construction has a high service factor rating for continuous operation. The 8600SW pump has a capacity to 65 gallons per minute (GPM), and requires no maintenance.

Features:

- Self-priming under normal conditions
- Time proven 5/8" mechanical seal
- Pressure to 40 PSI / 92 feet head
- For shallow wells, lakes, streams, or booster systems



- 1 - **Internal Regulating Valve**
(Manual adjustment for deep well only)
- 2 - **Cast Iron Pump Body**
- 3 - **Seal / Condensation Plate**
Provides air gap between motor & water chamber
- 4 - **Impeller**
Available in engineered polycarbonate thermoplastic
- 5 - **Diffusers**
Multi-volute engineered thermoplastic diffuser for maximum capacity and pressure
- 6 - **Drain Plug**
- 7 - **Shaft Seal**
Standard 5/8" ceramic carbon rotating mechanical seal
- 8 - **High Service Factor, Capacitor Start, Threaded Shaft, Square Flange Motor**
Built to Nema specifications by nationally known manufacturers to assure local service availability. Choice of 1/3, 1/2, 3/4, & 1 HP 60 Hz.
- 9 - **Zinc Plated Plug**
(With Pressure Gauge Tap and 1/4" plug)

Performance

Model No.	HP	Suction Lift - FT.	Capacities in GPM at Discharge Pressure							Max. Shut off pressure PSI / FT.
			5# / 12'	10# / 23'	15# / 35'	20# / 46'	25# / 58'	30# / 69'	35# / 81'	
8650SW	1/2	10	52	49.5	47	39.5	25	10.8	--	34# / 78'
		20	46.5	45.5	40.5	28	11.5	--	--	30# / 69'
8670SW	3/4	10	60	60	57.8	56	51.5	40	--	38# / 88'
		20	52	52	52	50	41	19.3	--	34# / 78'
8610SW	1	10	65	65	62.8	60.8	57	50	41.5	42# / 97'
		20	54	54	53.5	52.5	48	41	26	38# / 88'

Specifications

Part No.	Model No.	HP	Volts	Pipe Sizes		Ship WT. (lbs.)
				Suction	Discharge	
6165-006	8650SW	1/2	115 / 230	1 1/4"	1"	40#
6165-007	8670SW	3/4	230 / 115	1 1/4"	1"	42#
6165-008	8610SW	1	230 / 115	1 1/4"	1"	46#

- **Suction Pipe** = 1 1/4" NPT. For best results increase to 2" NPT within 6" of pump intake.
- **Discharge Pipe** = 1" NPT. For best results increase to 1 1/2" NPT within 6" of pump outlet using priming plug opening.
- Maximum allowable operating pressure = 100 PSIG (as a booster pump, for example).

NOTE: Standard 8600 series pumps, with pressure switch, may also be used with these applications and if the 3/4" top discharge tapping is increased to 1 1/2 NPT similar, but slightly less, capacity will be obtained.

Irrigation & Superbooster Pumps



89000 Series Self Priming Sprinkler Pumps



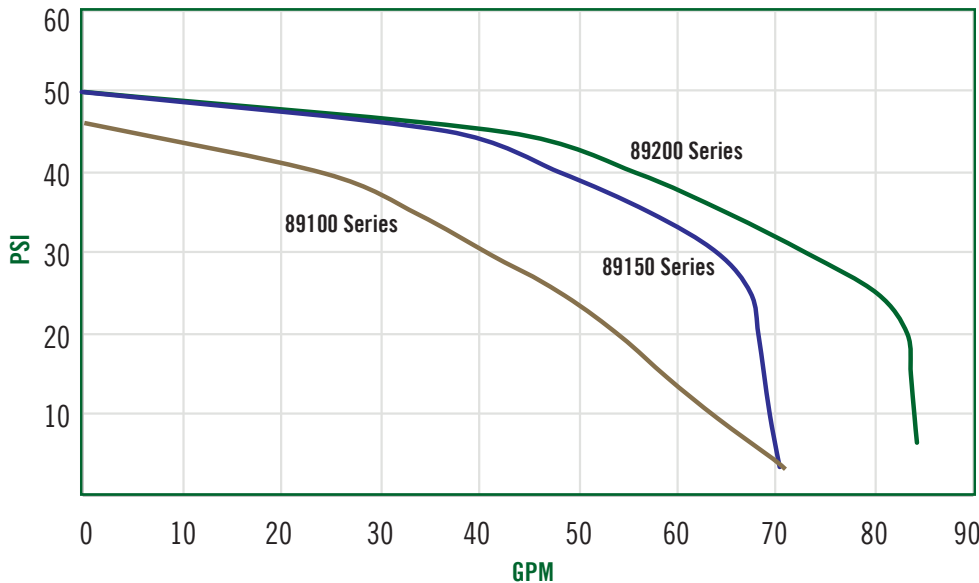
A.Y. McDonald's E-Series Sprinkler Pump is designed with a 1 1/2" inlet and outlet with a flow of up to 85 GPM. With an easy switch between 115V and 230V and a 304 stainless steel insert on the impeller, this high quality pump also contains a stainless steel wear ring between the impeller and diffuser. The E-Series Sprinkler Pump is available in 1, 1 1/2, and 2 HP and comes with a reliable, robust, and tested motor.

Features:

- Up to 85 GPM
- 1 1/2" Inlet & outlet
- Reliable, robust, and tested motor
- Easy to switch between 115V & 230V (Factory preset to 230V)
- 2 HP Sprinkler pump - 230V Only
- 304 Stainless steel motor shaft with wrench flat
- All iron pump housing and seal plate
- 304 Stainless steel insert on impeller
- Stainless steel wear ring between the impeller & diffuser
- Stainless steel bolt hardware connecting pump to motor

Irrigation & Superbooster Pumps

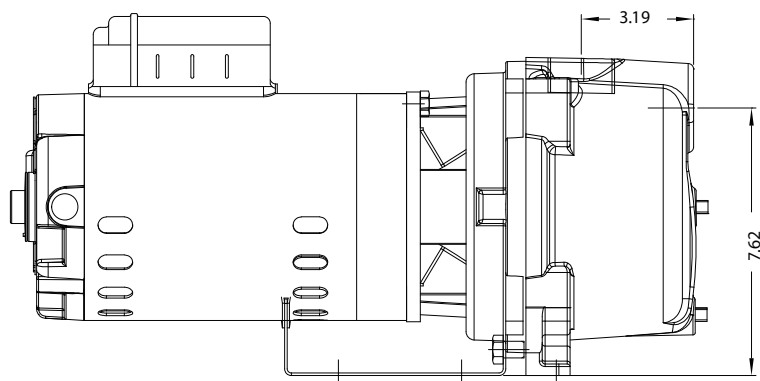
Flow GPM vs. Pressure PSI Curve



Models Available

Part No.	Model No.	HP	Volts	Amps	Pipe Sizes		Ship WT. (lbs.)
					Suction	Discharge	
6156-134	89100	1	115 / 230	16.6 / 8.3	1 1/2"	1 1/2"	59
6156-135	89150	1 1/2	115 / 230	21 / 10.5	1 1/2"	1 1/2"	63
6156-136	89200	2	230	11.8	1 1/2"	1 1/2"	64

89000 Series Sprinkler Pumps



Performance

Model No.	HP	Suction Lift - FT.	Capacities in GPM at Discharge Pressure				Max. Shut off PSI
			10	20	30	40	
89100	1	0	63	54	41	24	46.2
		5	61	51	38	19	44
		10	56	46	32		41.9
		15	51	44	28		39.7
		20	43	40	23		38.3
		25	35	34	18		34.8
89150	1 1/2	0	69	68	64	48	49.9
		5	62	61	58	42	46.7
		10	55	53	51	35	45
		15	48	48	46	26	44.2
		20	42	40	39	15	43.8
		25	34	34	30		41.4
89200	2	0	83	83	73	54	50
		5	73	73	69	49	48
		10	57	57	56	39	48
		15	50	50	50	34	43.8
		20	42	42	42	22	45.1
		25	34	34	34		39.4

Irrigation & Superbooster Pumps

