

Multi-Stage Booster Pumps

Allow you to increase water pressure from city mains or private water systems; especially important for proper operation of water softeners and filtration equipment. When foot valve and pump suction piping are completely filled, units pump water from cisterns, tanks, or ponds with suction lifts up to 10-ft. Stainless steel models can handle saltwater and contaminated water in reverse osmosis filters and other aggressive water applications. Maximum fluid temperature: 150°F. To keep pump and seal lubricated, a minimum of 1.5 GPM must be maintained. If liquid temperature is above 60°F (16°C), there should be a positive inlet pressure of 10 psi. Maximum casing working pressure: 300 psi. 6- to 16-stage replaceable impeller and diffuser cartridge assemblies. Radial bearing is incorporated into each diffuser cup. Noryl and Delrin impeller and diffuser, 304 stainless steel radial bearing, 304 stainless steel housing.

Standard pumps have cast-iron suction and discharge housings and mechanical seal with stainless steel, Buna N, and carbon/ceramic parts. Stainless steel models have 304 stainless steel suction and discharge housings and mechanical seal has stainless steel, Viton, and carbon/ceramic parts.

Dayton 3450 RPM, single- or 3-phase, 65°C rise, continuous-duty motors have shielded ball bearings and NEMA 56J frames with threaded shafts. Single phase: models have built-in overload with automatic reset, capacitor type. 1/3, 1/2 and 3/4 single phase HP models are wired for 115V with 8-ft. cord and plug, but can easily be rewired for 230V. 1 to 3 HP models have no cord and must be field wired. 3-phase: 3/4- to 3-HP models must be field wired and require separate overload protection.

NOTE: For use only with nonflammable liquids compatible with pump component materials.

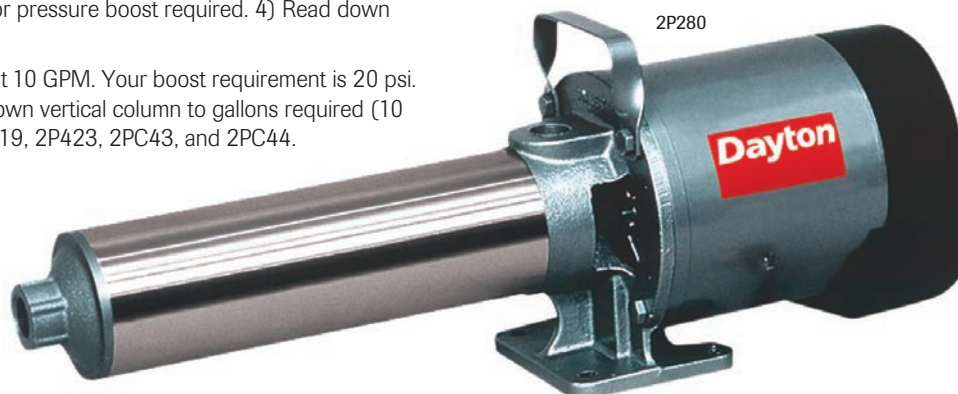
Booster Pump Selection Guide

1) Determine pressure boost required above existing pressure. 2) Determine GPM needed to be pumped. 3) Read across top of specification column for pressure boost required. 4) Read down column to GPM required.

Example: You have 20 psi supply. You require 40 psi at 10 GPM. Your boost requirement is 20 psi. Read across pressure boost column to 20 psi. Read down vertical column to gallons required (10 GPM) or next larger size. Correct pumps are Nos. 2P019, 2P423, 2PC43, and 2PC44.

A Tradition of Performance, Reliability and Value.

1 HP multi-stage booster pump with cast iron suction and discharge housings. Includes mechanical seals with stainless steel, Buna N and carbon ceramic parts.



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Multi-Stage Booster Pumps

MULTI-STAGE BOOSTER PUMPS

HP	GPM OF WATER @ PSI+											MAX. PRESSURE (PSI)+	STANDARD STOCK NO.	STAINLESS STOCK NO.
	10	20	40	60	80	100	120	140	160	180	200			
1/3	9.5	8.2	7.3	5.8	3.5	—	—	—	—	—	—	87	2P372	—
1/2	9.8	9.2	8.2	7.3	6.3	5.2	3.5	—	—	—	—	131	1P879	2PC42
3/4	9.9	9.5	8.7	8.0	7.3	6.5	5.8	4.8	3.5	—	—	175	4YC07, 4YC08	—
3/4	14.0	13.4	12.2	10.9	9.5	7.9	6.0	3.6	—	—	—	152	2P019, 2P423	2PC43, 2PC44
1	*	*	14.5	13.4	12.3	11.2	9.8	8.3	6.3	3.3	—	185	2P280, 2P424	2PC45, 2PC46
1 1/2	*	*	14.7	13.8	12.9	11.9	10.8	9.7	8.2	6.6	4.3	211	2PC32, 2PC33	2PC47, 2PC48
2	48.0	47.0	42.2	35.2	24.0	—	—	—	—	—	—	85	2PC36, 2PC37	—
2	*	*	31.3	29.3	26.8	23.8	19.8	13.0	—	—	—	150	2PC34, 2PC35	4YC09, 4YC10
3	48.0	47.5	44.0	40.0	35.2	27.5	—	—	—	—	—	118	2PC40, 2PC41	—
3	*	*	32.2	30.6	28.9	27.0	24.8	22.2	18.4	12.2	—	190	2PC38, 2PC39	4YC11, 4YC12

(+) To convert to feet of head, multiply psi by 2.31.

(*) Items with this symbol are not recommended for operation of pump in this range. May result in motor damage.

STANDARD MULTI-STAGE PUMPS WITH CAST-IRON HOUSING

IMPELLER STAGES	HP	PHASE	MOTOR ENCLOSURE	VOLTS	AMPS	Hz	PORTS NPT (IN.)	DIMENSIONS (IN.)			STOCK NO.
								H	W	L	
8	1/3	1	ODP	115/230	8.6/4.3	60	3/4	9	6 1/2	20 1/4	2P372
12	1/2	1	ODP	115/230	13.0/6.5	60	3/4	9	6 1/2	23 3/8	1P879
16	3/4	1	ODP	115/230	14.0/7.0	60	3/4	9	6 1/2	27	4YC07
12	3/4	1	ODP	115/230	14.0/7.0	60	3/4	9	6 1/2	23 7/8	2P019
14	1	1	ODP	115/230	18.0/9.0	60	3/4	9	6 1/2	27 1/4	2P280
16	1 1/2	1	ODP	115/230	21.0/10.5	60	3/4	9	6 1/2	29 3/4	2PC32
11	2	1	ODP	115/230	25.0/12.5	60	1	9	6 1/2	27 1/2	2PC34
6	2	1	ODP	115/230	25.0/12.5	60	1	9	6 1/2	25 7/8	2PC36
14	3	1	ODP	230	13.5	60	1	9	6 1/2	30 5/8	2PC38
8	3	1	ODP	230	13.5	60	1	9	6 1/2	29 1/4	2PC40
16	3/4	3	ODP	208-230/460	3.5/1.75	60/50	3/4	9	6 1/2	27	4YC08
12	3/4	3	ODP	208-230/460	3.5/1.75	60/50	3/4	9	6 1/2	23 7/8	2P423†
14	1	3	ODP	208-230/460	4.5/2.25	60/50	3/4	9	6 1/2	27 1/4	2P424†
16	1 1/2	3	ODP	208-230/460	5.7/2.85	60/50	3/4	9	6 1/2	29 3/4	2PC33†
11	2	3	ODP	208-230/460	7.4/3.70	60/50	1	9	6 1/2	27 1/2	2PC35†
6	2	3	ODP	208-230/460	7.4/3.70	60/50	1	9	6 1/2	25 7/8	2PC37†
14	3	3	ODP	208-230/460	9.8/4.90	60	1	9	6 1/2	30 5/8	2PC39
8	3	3	ODP	208-230/460	9.8/4.90	60	1	9	6 1/2	29 1/4	2PC41

304 STAINLESS STEEL/VITON MULTI-STAGE PUMPS

12	1/2	1	ODP	115/230	13.0/6.5	60	3/4	9	6 1/2	23 3/8	2PC42
12	3/4	1	ODP	115/230	14.0/7.0	60	3/4	9	6 1/2	23 7/8	2PC43
14	1	1	ODP	115/230	18.0/9.0	60	3/4	9	6 1/2	27 1/4	2PC45
16	1 1/2	1	ODP	115/230	21.0/10.5	60	3/4	9	6 1/2	29 3/4	2PC47
11	2	1	ODP	115/230	25.0/12.5	60	1	9	6 1/2	27 1/2	4YC09
14	3	1	ODP	230	13.5	60	1	9	6 1/2	30 5/8	4YC11
12	3/4	3	ODP	208-230/460	3.5/1.75	60/50	3/4	9	6 1/2	23 7/8	2PC44†
14	1	3	ODP	208-230/460	4.5/2.25	60/50	3/4	9	6 1/2	27 1/4	2PC46†
16	1 1/2	3	ODP	208-230/460	5.7/2.85	60/50	3/4	9	6 1/2	29 3/4	2PC48†
11	2	3	ODP	208-230/460	7.4/3.70	60/50	1	9	6 1/2	27 1/2	4YC10
14	3	3	ODP	208-230/460	9.8/4.90	60	1	9	6 1/2	30 5/8	4YC12

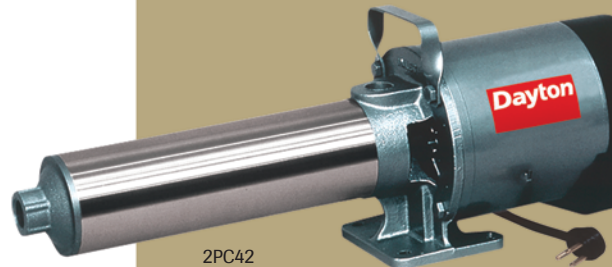
(†) Operable on 230/460V, 50 Hz @ 5/6 of 60 Hz flow and 7/10 of 60 Hz pressure.

The products listed above are only a small representation of our full product line.
For a complete selection of Dayton pumps, see the Grainger catalog or visit grainger.com/dayton



2P019

3/4 HP multi-stage booster pump with cast iron suction and discharge housings. Includes mechanical seals with stainless steel, Buna N and carbon ceramic parts.



2PC42

1/2 HP multi-stage booster pump with 304 stainless steel suction and discharge housings. Includes mechanical seals with stainless steel, viton and carbon ceramic parts.