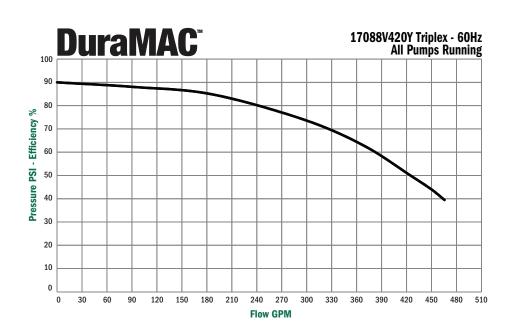
SUBMITTAL DATA SHEET

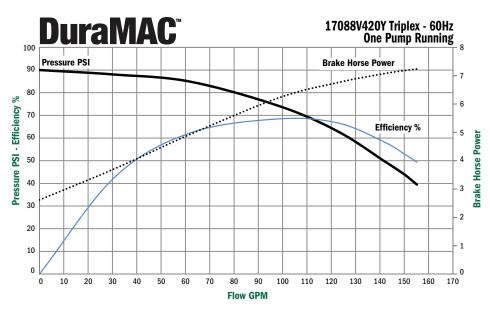
DuraMAC™ Booster Pumps Vertical Multistage Variable Speed Triplex Booster System

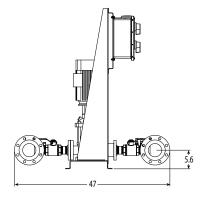


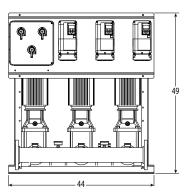
17088V420Y-3

The DuraMAC™ Boosting system is simple, versatile, sophisticated, and reliable. The Vertical Multistage Variable Speed Booster System changes motor speed based on demands of the system. Saving energy over tranitional constant speed booster systems.









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Model Number	17088V420Y-3		
Max Flow	420 GPM		
Max Boost	88 PSI		
Suction Transducer	0-150 PSI 4-20mA		
Discharge Transducer	0-150 PSI 4-20mA		
Drive - Yaskawa iQ Pump	NEMA 1		
Suction Ball Valve	2" No-Lead Brass		
Discharge Ball Valve	2" No-Lead Brass		
Impeller	304 Stainless Steel		
Pump End	304 Stainless Steel		
Motor - Energy Eff.	TEFC 213TC		
Horsepower	7 1/2		
Seal Material	Carbon/Sic		
Base	304 Stainless Steel		
Tank Required	86 Gallon Minimum		
Electrical	208-230V 3 Phase		

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



A.Y. McDonald Mfg. Co. 4800 Chavenelle Rd Dubuque, IA 52002

Toll Free: 1-800-292-2737 sales@aymcdonald.com aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

SUBMITTAL DATA SHEET

DuraMAC™ Booster Pumps Vertical Multistage Variable Speed Triplex Booster System



17088V420Y-3

TRIPLEX BOOSTER SYSTEM

Furnish a Model <u>17088V420Y-3</u> Triplex variable speed, factory assembled water pressure booster system as manufactured by AY McDonald Mfg Co. The unit shall be rated for a system capacity of **420** GPM at a system pressure of **50** PSIG.

The motor must be UL Listed under UL 1004. In addition to the UL Listing for the motor the frequency drive must be separately listed under UL 508C.

FACTORY ASSEMBLY

The booster system shall be factory assembled on a stainless steel base including pumps, motors, valves, and 4" flanged suction and discharge manifold. All interconnecting piping and isolation valves shall be stainless steel, no lead brass and copper material. Provide wetted stainless steel flange connection on the suction and discharge of the pump. Provide no lead brass isolation ball valves on the suction and discharge of each pump. The valves shall be full-port ball valves. Provide two 2 1/2" liquid filled pressure gauges for indicating system suction and system discharge pressure.

PUMPS

System shall include **three** vertical multi-stage centrifugal pumps model **17088V140** with 2" flange connections. Pump casing, discharge, diffuser and impeller shall be made of stainless steel. Pump shall have a replaceable mechanical seal suitable for a working pressure of 230 PSIG. The mechanical seal shall be constructed of Nitrile Buna Rubber (NBR), Carbon and Silicon Carbide (SiC).

Pump shall be rated 120 GPM at 145 ft head.

MOTORS

Motors shall be <u>208-230</u> volt, three phase, 60 Hz totally enclosed fan cooled (TEFC). Motor shall be <u>7 1/2 HP</u>, 3520 RPM. Motors shall be selected so that they do not exceed name plate HP rating throughout the programmed sequence of pump operation.

CHECK VALVES

Each pump discharge will have a silent non-slam cast iron check valve sized for a maximum loss of 3 PSI at maximum flow and be suitable for the maximum working pressure of the system.

HYDRO-PNEUMATIC TANK

A hydro-pneumatic tank (**Sold Separately**) with a steel shell and a butyl diaphragm to separate the air and water is required for this system to work properly. Features shall include an air fill valve and bottom system connection suitable for 100% drawdown. The tank must be suitable for the maximum working pressure of the system, with a minimum volume of **86** gallons.

PUMP OPERATION

The pump shall run only as necessary to maintain system pressure and shall be controlled automatically by means of a pressure transducer and a variable frequency drive.

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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