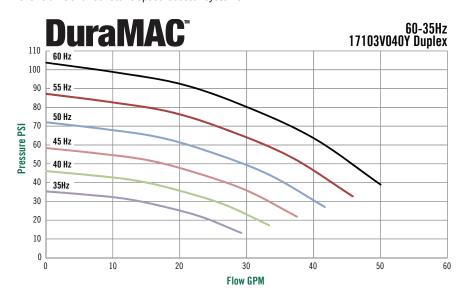
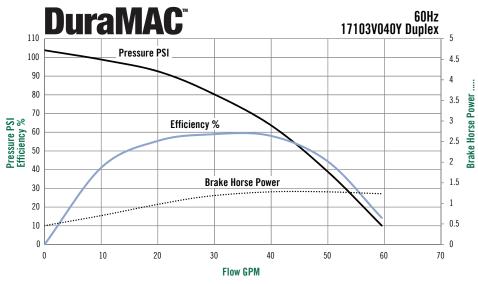
SUBMITTAL DATA SHEET

DuraMAC™ Booster Pumps Vertical Multistage Variable Speed Duplex Booster System

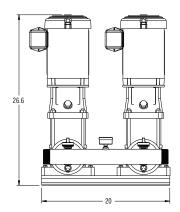
17103V040Y-1

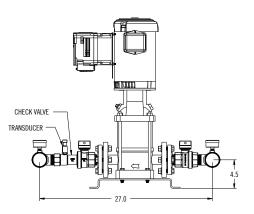
The DuraMAC[™] Boosting system is simple, versatile, sophisticated, and reliable. The Vertical Multistage Variable Speed Booster System changes motor speed based on demands of the system. Saving energy over tranitional constant speed booster systems.











Technical Information

Model Number	17103V040Y-1
MONE! MAIIINE!	1/103/0401-1
Max Flow	56 GPM
Max Boost	103 PSI
Discharge Transducer	0-150 PSI 4-20mA
Drive - Yaskawa V1000	NEMA 1
Suction Ball Valve	1 1/4" No-Lead Brass
Discharge Ball Valve	1 1/4" No-Lead Brass
Impeller	304 Stainless Steel
Pump End	304 Stainless Steel
Motor - NEMA Premium	TEFC 56C
Horsepower	1 1/2 HP
Seal Material	Carbon/Sic
Electrical	208-230V 1 Phase
Base	304 Stainless Steel
Tank Required	14 Gallon

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. P.O. Box 508

Dubuque, IA 52004-0508

Toll Free: 1-800-292-2737 Fax: 1-800-832-9296 Hours: 7:00 a.m. - 5:00 p.m., CST

sales@aymcdonald.com www.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 Duplex Booster System



17103V040Y-1

DUPLEX BOOSTER SYSTEM

Furnish a Model 17103V040Y-1 Simplex 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 40 GPM at a system pressure of 63 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, and valves. 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 one 2 1/2" liquid filled pressure gauge for indicating system discharge pressure.

PUMPS

System shall include two vertical multi-stage centrifugal pump(s) model 17103V020 with 1 1/4" 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 **20** GPM at **146** ft head.

MOTORS

Motors shall be 208-230 volt, three phase, 60 Hz totally enclosed fan cooled (TEFC). Motor shall be 1 1/2 HP, 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 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 Seperatly) 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 14 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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Submitted by: