

How to Order a Vertical Multistage Simplex / Duplex / Triplex System

Order by Model Number - Example: 17060V140Y-34

17

Series

060

**Water Pressure
at 0 GPM**

056
060
062
084
088
104
140
142
150

V

**Variable
Speed**

140

GPM

080
120
140
160
240
280
360
420

Y

**Yaskawa
Drive**

-

3

Phase

1 - Single Phase
3 - Three Phase

4

Volts

4 - 460V
Leave blank for
208 / 230 volts
(standard)

Models Available

- Simplex Models

17062V080Y-1	17150V080Y-3
17062V080Y-3	17142V120Y-3
17084V080Y-1	17056V120Y-1
17084V080Y-3	17060V140Y-3
17104V080Y-1	17088V140Y-3
17104V080Y-3	

Models Available

- Duplex Models

17062V160Y-1	17150V160Y-3
17062V160Y-3	17142V240Y-3
17084V160Y-1	17056V240Y-1
17084V160Y-3	17060V280Y-3
17104V160Y-1	17088V280Y-3
17104V160Y-3	

Models Available

- Triplex Models


17062V240Y-3	17150V240Y-34
17062V240Y-34	17142V360Y-3
17084V240Y-3	17142V360Y-34
17084V240Y-34	17060V420Y-3
17104V240Y-3	17060V420Y-34
17104V240Y-34	17088V420Y-3
17150V240Y-3	17088V420Y-34



How It Works

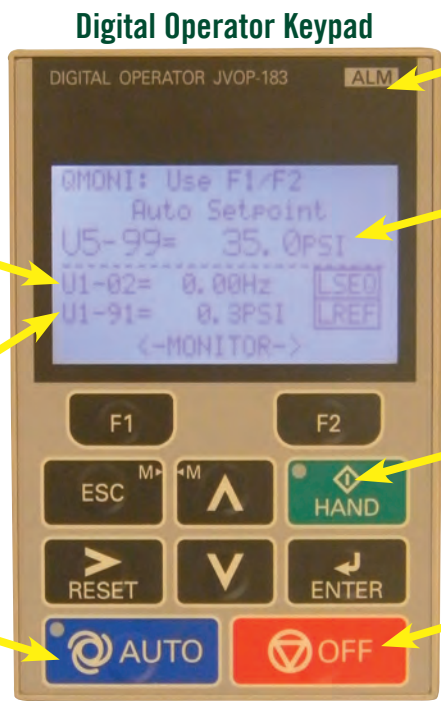
The Yaskawa iQpump 1000 drive features powerful software combined with an internal PLC to deliver multiple features that are designed help protect the drive, pump, motor, and entire pumping system. While many of these features are factory programmed and set, many features depend on the specific pumping application and may be required to be set during install.



Changing certain parameters while the drive and pump are running may cause unwanted behavior. It is recommended to turn the drive off  before changing parameter values.

To return to home screen, hold  for 3 seconds, or press . The display should look similar to the one below. Once at the home screen, additional drive status can be viewed by pressing .

Pump Output Frequency
 Transducer Feedback
 (Actual System Pressure)



Alarm light blinks if alarm or fault occurs.

System Outlet Pressure Auto Setpoint

Press to turn HAND mode on. Use only for Priming and troubleshooting. Pump will run at a fixed speed.

Do not run against a closed discharge.

Press to turn AUTO mode on. If LED is blinking, Auto mode is active but pump is sleeping.

Press to turn system off.

DuraMAC™ Booster Pumps

DuraMAC™ Vertical Multistage Variable Speed Simplex / Duplex / Triplex Booster Pump Control Features

- Set it and forget it technology
- Factory set point at 50 PSI, but can be easily be changed in the field
- Extremely reliable
- Proven product
- Yaskawa Drive



DuraMAC™ - Vertical Multistage Variable Speed Simplex Booster System

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, which allows users to save energy costs over traditional constant speed booster systems.

Features:

- Easy set-up installation
- Variable speed control
- Stainless steel pump
- Energy efficient NEMA TEFC motors
- Liquid filled gauges
- Wafer check valves with soft seat
- Stainless steel base
- 2" Brass No-Lead isolation valves
- NEMA 1 enclosure
- Suction and discharge transducers
- Fused disconnect
- 2" Suction and discharge
- **Certified to:**
NSF / ANSI 61 Section 8-2016
NSF / ANSI 372-2016



See Pumps & Accessories Price List for Limited Warranty details.

DuraMAC™ Booster Pumps



Models Available

Model	Description	Pump Boost	Voltage	HP
17062V080Y-1	62 PSI 230V VFD Booster	62 PSI	208 - 230 - Single Phase	3
17062V080Y-3	62 PSI 230V VFD Booster	62 PSI	208 - 230 - Three Phase	3
17084V080Y-1	84 PSI 230V VFD Booster	84 PSI	208 - 230 - Single Phase	5
17084V080Y-3	84 PSI 230V VFD Booster	84 PSI	208 - 230 - Three Phase	5
17104V080Y-1	104 PSI 230V VFD Booster	104 PSI	208 - 230 - Single Phase	5
17104V080Y-3	104 PSI 230V VFD Booster	104 PSI	208 - 230 - Three Phase	5
17150V080Y-3	150 PSI 230V VFD Booster	150 PSI	208 - 230 - Three Phase	7 1/2
17142V120Y-3	142 PSI 230V VFD Booster	142 PSI	208 - 230 - Three Phase	10
17056V120Y-1	56 PSI 230V VFD Booster	56 PSI	208 - 230 - Single Phase	5
17060V140Y-3	60 PSI 230V VFD Booster	60 PSI	208 - 230 - Three Phase	5
17088V140Y-3	88 PSI 230V VFD Booster	88 PSI	208 - 230 - Three Phase	7 1/2

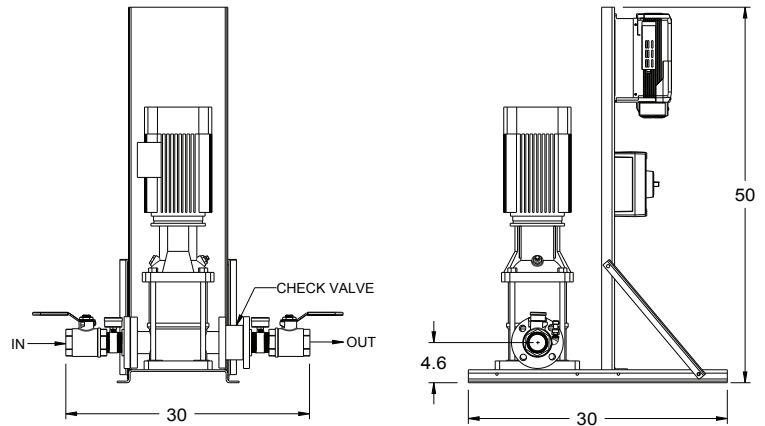
460 volt version also available

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

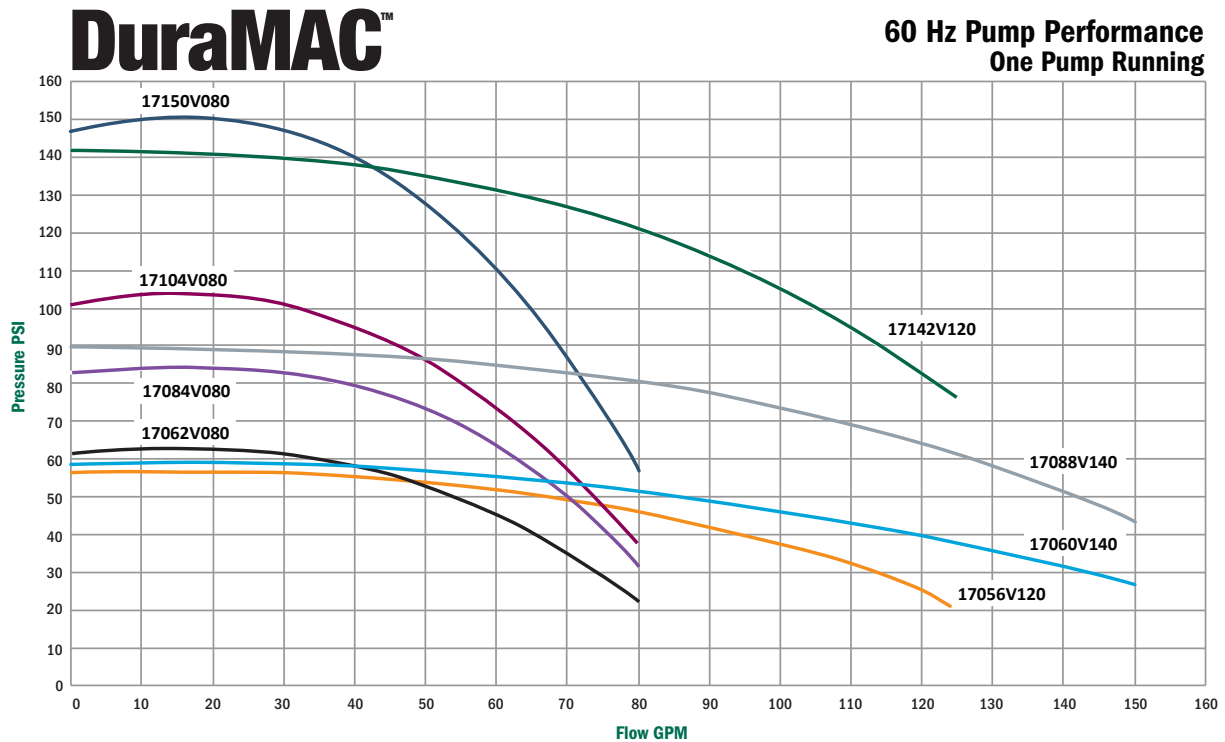
DuraMAC™ - Vertical Multistage Variable Speed Simplex Booster System

Control Features

- Variable speed control, speeds up and slows down based on the demand of system, maintaining a constant pressure.
- Date and time stamp for all faults.
- Better system efficiency by applying only the power needed based on the load.
- Password protected parameter settings.
- Real time clock.
- No Flow Mode - puts pump to sleep during no flow conditions.
- Low Suction Alarm to prevent the pump from running if the incoming supply of water is interrupted.
- Internal monitors prevent the pump from running if a pipe is broken or demand exceeds capability.
- Live Zero protects the pump if the transducer cable is broken or damaged.



DuraMAC™ Booster Pumps



Materials of Construction

- Impellers	304 Stainless Steel	- Pump Seal (rotating)	Carbon / NBR
- Pump Casing Inlet	301 Stainless Steel	- Diffuser	304 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel	- Base	304 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide		

DuraMAC™ - Vertical Multistage Variable Speed Duplex Booster System

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, which allows users to save energy costs over traditional constant speed booster systems.

Features:

- Easy set-up installation
- Variable speed control
- Stainless steel pump
- Energy efficient NEMA TEFC motors
- Liquid filled gauges
- Wafer check valves with soft seat
- Stainless steel base
- 2" Brass No-Lead isolation valves
- NEMA 1 enclosure
- Suction and discharge transducers
- Fused disconnect
- 3" Flanged stainless steel manifolds
- **Certified to:**
NSF / ANSI 61 Section 8-2016
NSF / ANSI 372-2016



See Pumps & Accessories Price List for Limited Warranty details.



C US
ANSI/NSF 372 ONLY



C US
Drinking Water
ANSI/NSF 61

Models Available

Model	Description	Pump Boost	Voltage	HP
17062V160Y-1	62 PSI 230V VFD Booster	62 PSI	208 - 230 - Single Phase	3
17062V160Y-3	62 PSI 230V VFD Booster	62 PSI	208 - 230 - Three Phase	3
17084V160Y-1	84 PSI 230V VFD Booster	84 PSI	208 - 230 - Single Phase	5
17084V160Y-3	84 PSI 230V VFD Booster	84 PSI	208 - 230 - Three Phase	5
17104V160Y-1	104 PSI 230V VFD Booster	104 PSI	208 - 230 - Single Phase	5
17104V160Y-3	104 PSI 230V VFD Booster	104 PSI	208 - 230 - Three Phase	5
17150V160Y-3	150 PSI 230V VFD Booster	150 PSI	208 - 230 - Three Phase	7 1/2
17142V240Y-3	142 PSI 230V VFD Booster	142 PSI	208 - 230 - Three Phase	10
17056V240Y-1	56 PSI 230V VFD Booster	56 PSI	208 - 230 - Single Phase	5
17060V280Y-3	60 PSI 230V VFD Booster	60 PSI	208 - 230 - Three Phase	5
17088V280Y-3	88 PSI 230V VFD Booster	88 PSI	208 - 230 - Three Phase	7 1/2

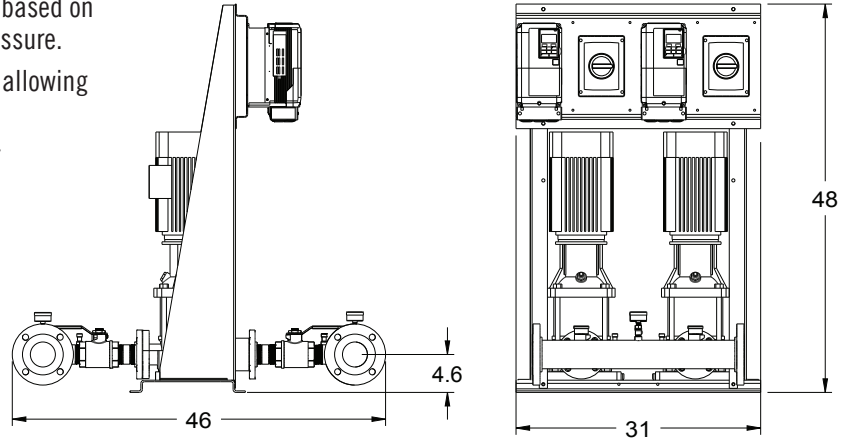
460 volt version also available

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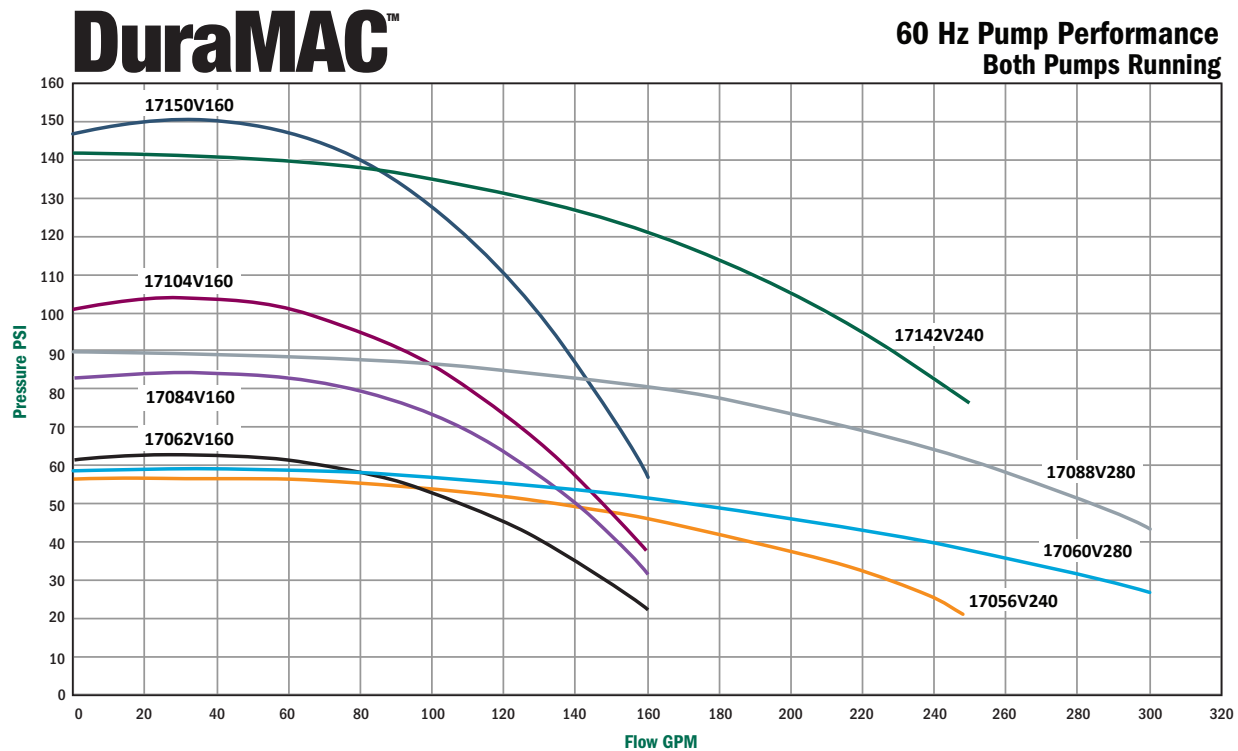
DuraMAC™ - Vertical Multistage Variable Speed Duplex Booster System

Control Features

- Variable speed control, speeds up and slows down based on the demand of system, maintaining a constant pressure.
- Lead - Lag pump control to alternate pump starts, allowing equal run times on all pumps for longer life cycles.
- Better system efficiency by applying only the power needed based on the load.
- Password protected parameter settings.
- Real time clock.
- No Flow Mode - puts pump to sleep during no flow conditions.
- Low Suction Alarm to prevent the pump from running if the incoming supply of water is interrupted.
- Internal monitors prevent the pump from running if a pipe is broken or demand exceeds capability.
- Live Zero protects the pump if the transducer cable is broken or damaged.
- Backup system transducer for pump and drive redundancy.



DuraMAC™ Booster Pumps



Materials of Construction

- Impellers	304 Stainless Steel	- Pump Seal (rotating)	Carbon / NBR
- Pump Casing Inlet	301 Stainless Steel	- Diffuser	304 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel	- Base	304 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide		

DuraMAC™ - Vertical Multistage Variable Speed Triplex Booster System

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, which allows users to save energy costs over traditional constant speed booster systems.

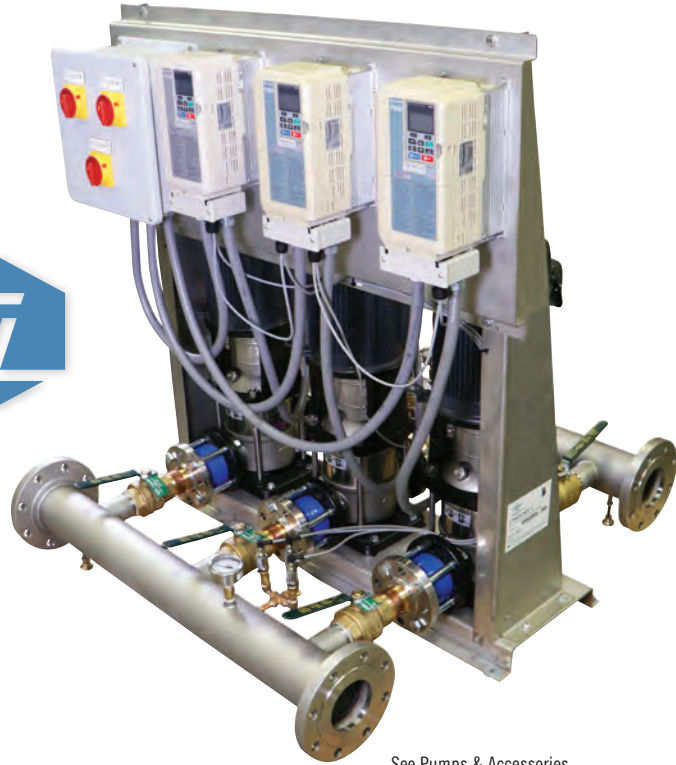
Features:

- Easy set-up installation
- Variable speed control
- Stainless steel pump
- Energy efficient NEMA TEFC motors
- Liquid filled gauges
- Wafer check valves with soft seat
- Stainless steel base
- 2" Brass No-Lead isolation valves
- NEMA 1 enclosure
- Suction and discharge transducers
- Fused disconnect
- 4" Flanged stainless steel manifolds

Certified to:

NSF / ANSI 61 Section 8-2016

NSF / ANSI 372-2016



See Pumps & Accessories Price List for Limited Warranty details.

DuraMAC™ Booster Pumps



Models Available

Model	Description	Pump Boost	Voltage	HP
17062V240Y-3	62 PSI 230V VFD Booster	62 PSI	208 - 230 - Three Phase	3
17084V240Y-3	84 PSI 230V VFD Booster	84 PSI	208 - 230 - Three Phase	5
17104V240Y-3	104 PSI 230V VFD Booster	104 PSI	208 - 230 - Three Phase	5
17150V240Y-3	150 PSI 230V VFD Booster	150 PSI	208 - 230 - Three Phase	7 1/2
17142V360Y-3	142 PSI 230V VFD Booster	142 PSI	208 - 230 - Three Phase	10
17060V420Y-3	60 PSI 230V VFD Booster	60 PSI	208 - 230 - Three Phase	5
17088V420Y-3	88 PSI 230V VFD Booster	88 PSI	208 - 230 - Three Phase	7 1/2

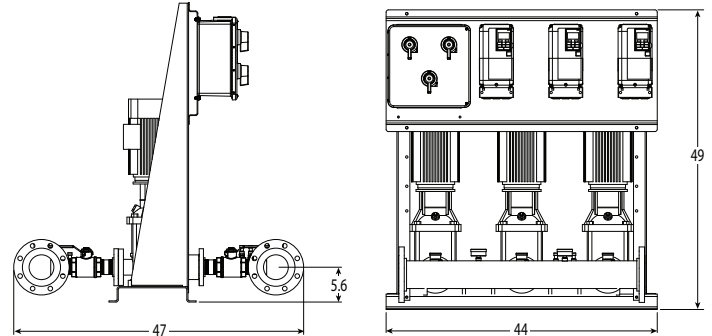
460 volt version also available

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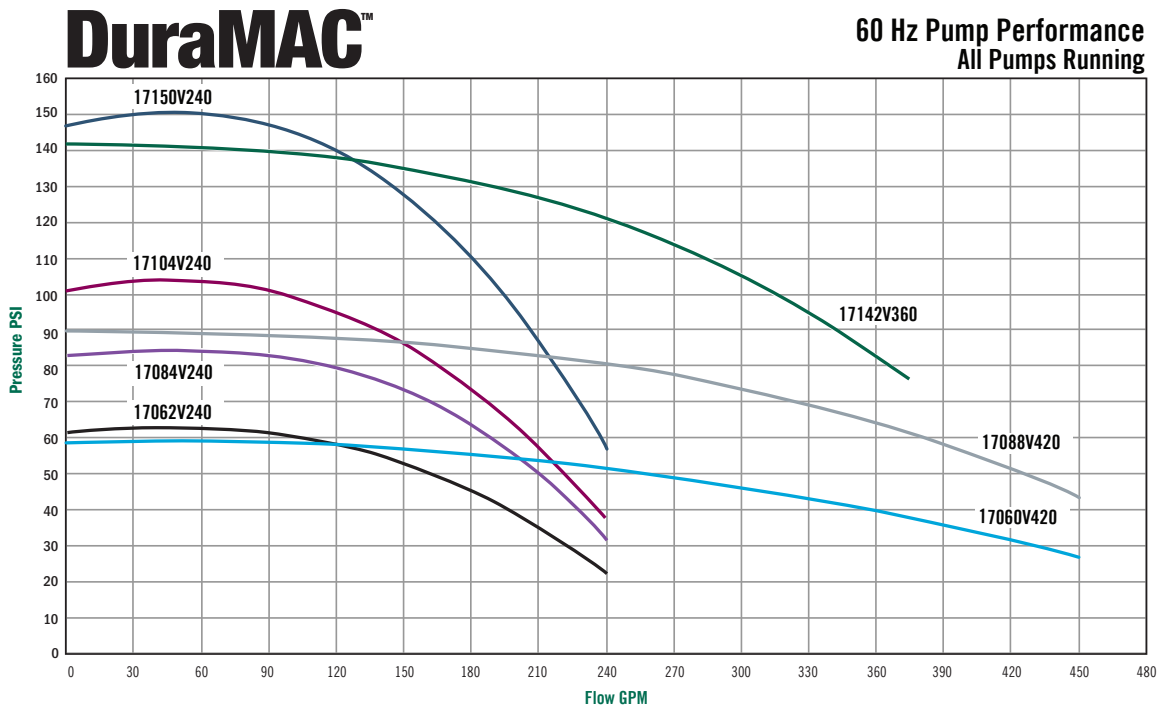
DuraMAC™ - Vertical Multistage Variable Speed Triplex Booster System

Control Features

- Variable speed control, speeds up and slows down based on the demand of system, maintaining a constant pressure.
- Lead - Lag pump control to alternate pump starts, allowing equal run times on all pumps for longer life cycles.
- Better system efficiency by applying only the power needed based on the load.
- Password protected parameter settings.
- Real time clock.
- No Flow Mode - puts pump to sleep during no flow conditions.
- Low Suction Alarm to prevent the pump from running if the incoming supply of water is interrupted.
- Internal monitors prevent the pump from running if a pipe is broken or demand exceeds capability.
- Live Zero protects the pump if the transducer cable is broken or damaged.
- Backup system transducer for pump and drive redundancy.



DuraMAC™ Booster Pumps



Materials of Construction

- Impellers	304 Stainless Steel	- Pump Seal (rotating)	Carbon / NBR
- Pump Casing Inlet	301 Stainless Steel	- Diffuser	304 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel	- Base	304 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide		

How to Order a Vertical Multistage Simplex / Duplex

Order by Model Number - Example: 17066V040Y-3

17	066	V	040	Y	-	3	
Series	Water Pressure at 0 GPM	Variable Speed	GPM	Yaskawa Drive		Phase	Volts
	066 103 110 122 140		020 040 080			1 - Single Phase 3 - Three Phase	Leave blank for 208 / 230 volts (standard)

DuraMAC™ Booster Pumps

Models Available

- Simplex Models

17103V020Y-1	17110V040Y-3
17103V020Y-3	17110V040Y-3
17140V020Y-1	17122V040Y-1
17140V020Y-3	17122V040Y-3
17066V040Y-1	
17066V040Y-3	

Models Available



- Duplex Models



17103V040Y-1	17110V080Y-3
17103V040Y-3	17110V080Y-3
17140V040Y-1	17122V080Y-1
17140V040Y-3	17122V080Y-3
17066V080Y-1	
17066V080Y-3	




How It Works

The Yaskawa iQpump micro drive features powerful software combined with an internal PLC to deliver multiple features that are designed help protect the drive, pump, motor, and entire pumping system. While many of these features are factory programmed and set, many features depend on the specific pumping application and may be required to be set during install.

 Changing certain parameters while the drive and pump are running may cause unwanted behavior. It is recommended to turn the drive off  before changing parameter values.

To return to home screen, hold  for 3 seconds. The display should look similar to the one below. Once at the home screen, additional drive status can be viewed by pressing . Additional drive information includes output frequency, current, voltage, DC bus voltage, and kilowatts.

Digital Operator Keypad



System Outlet Pressure Auto Setpoint

Press to turn AUTO mode on. If LED is blinking, Auto mode is active but pump is sleeping.

Alarm light blinks if alarm or fault occurs.

Press to turn HAND mode on. Use only for Priming and troubleshooting. Pump will run at a fixed speed. Do not run against a closed discharge.

Press to turn system off.

DuraMAC™ Booster Pumps

DuraMAC™ Vertical Multistage Variable Speed Simplex / Duplex Booster Pump Control Features

- Set it and forget it technology
- Factory set point at 50 PSI, but can be easily be changed in the field
- Extremely reliable
- Proven product
- Yaskawa Drive



DuraMAC™ - Vertical Multistage Variable Speed Simplex Booster System

The DuraMAC™ 1 1/2 to 3 HP Vertical Multistage Variable Speed Simplex Booster capable of up to 140 PSI and 40 gallons per minute (GPM). It's simple, versatile, sophisticated, and reliable. The Vertical Multistage Variable Speed Booster System changes motor speed based on demands of the system, which allows users to save energy costs over traditional constant speed booster systems.

Features:

- Easy set-up installation
- Variable speed control
- Stainless steel pump
- Energy efficient NEMA TEFC motors
- Liquid filled gauge
- Stainless steel base
- NEMA 1 enclosure
- 1 1/4" Suction & 1 1/4" Discharge
- Discharge transducer



See Pumps & Accessories Price List for Limited Warranty details.

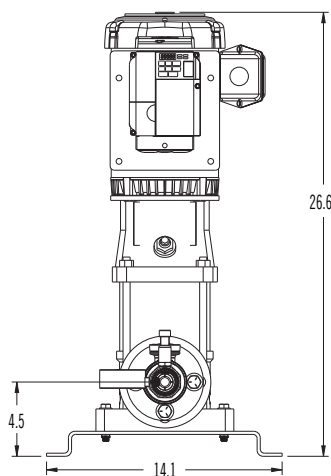
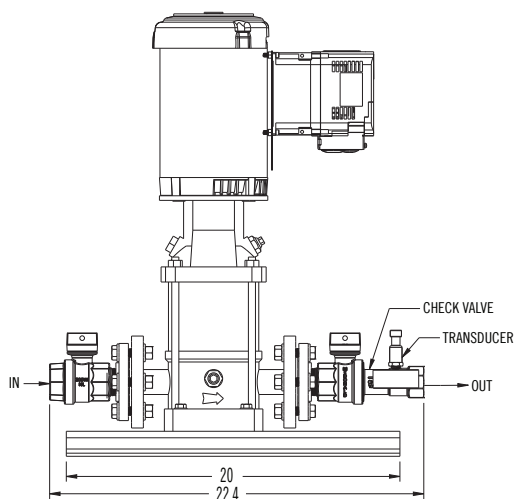
Models Available

Model	Description	Pump Boost	Voltage	GPM	HP
17103V020Y-1	103 PSI 230V VFD Booster	103 PSI	230V Single Phase	20	1 1/2
17103V020Y-3	103 PSI 230V VFD Booster	103 PSI	230V Three Phase	20	1 1/2
17140V020Y-1	140 PSI 230V VFD Booster	140 PSI	230V Single Phase	20	2
17140V020Y-3	140 PSI 230V VFD Booster	140 PSI	230V Three Phase	20	2
17066V040Y-1	66 PSI 230V VFD Booster	66 PSI	230V Single Phase	40	2
17066V040Y-3	66 PSI 230V VFD Booster	66 PSI	230V Three Phase	40	2
17110V040Y-1	110 PSI 230V VFD Booster	110 PSI	230V Single Phase	40	3
17110V040Y-3	110 PSI 230V VFD Booster	110 PSI	230V Three Phase	40	3
17122V040Y-1	122 PSI 230V VFD Booster	122 PSI	230V Single Phase	40	3
17122V040Y-3	122 PSI 230V VFD Booster	122 PSI	230V Three Phase	40	3

DuraMAC™ - Vertical Multistage Variable Speed Simplex Booster System

Control Features

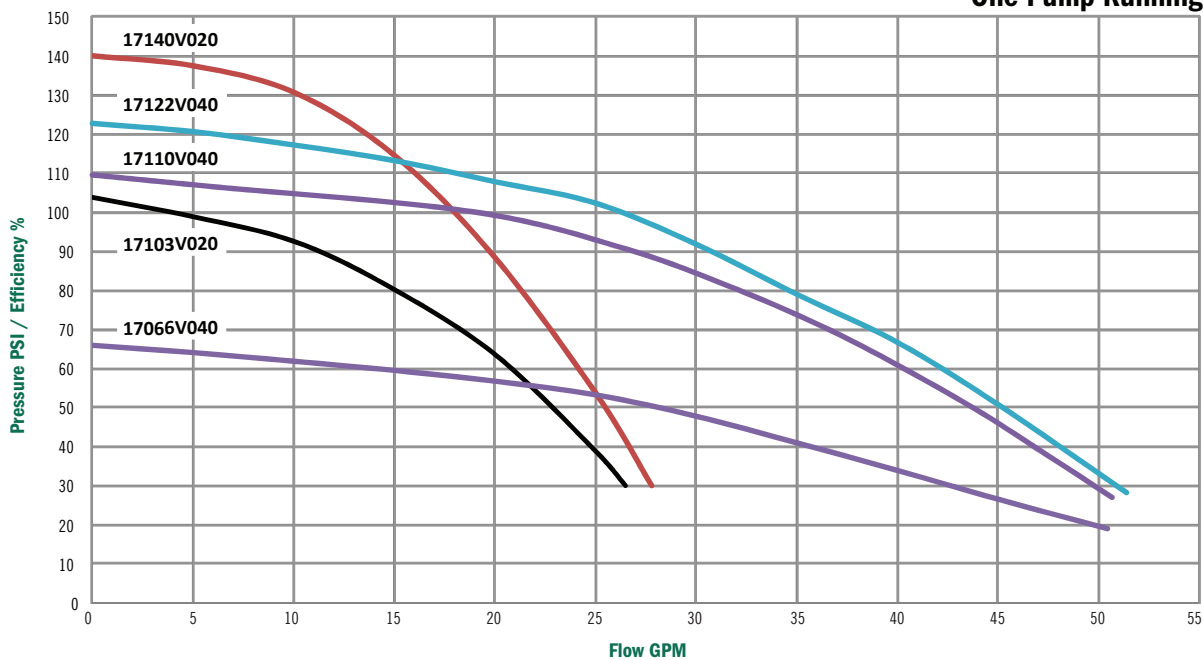
- Sleep Mode / Low Flow Protection
- Automatic system restart
- Sleep boost
- Dry run protection



DuraMAC™ Booster Pumps

DuraMAC

60 Hz Pump Performance One Pump Running



Materials of Construction

- Impellers	304 Stainless Steel	- Pump Seal (rotating)	Carbon / NBR
- Pump Casing Inlet	301 Stainless Steel	- Diffuser	304 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel	- Base	304 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide		

DuraMAC™ - Vertical Multistage Variable Speed Duplex Booster System

The DuraMAC™ 1 1/2 to 3 HP Vertical Multistage Variable Speed Duplex Booster capable of up to 140 PSI and 80 gallons per minute (GPM). It's simple, versatile, sophisticated, and reliable. The Vertical Multistage Variable Speed Booster System changes motor speed based on demands of the system, which allows users to save energy costs over traditional constant speed booster systems.

Features:

- Easy set-up installation
- Variable speed control
- Stainless steel pump
- Energy efficient NEMA TEFC motors
- Liquid filled gauge
- Stainless steel base
- NEMA 1 enclosure
- Discharge transducers
- 2" NPT stainless steel manifolds



See Pumps & Accessories Price List for Limited Warranty details.

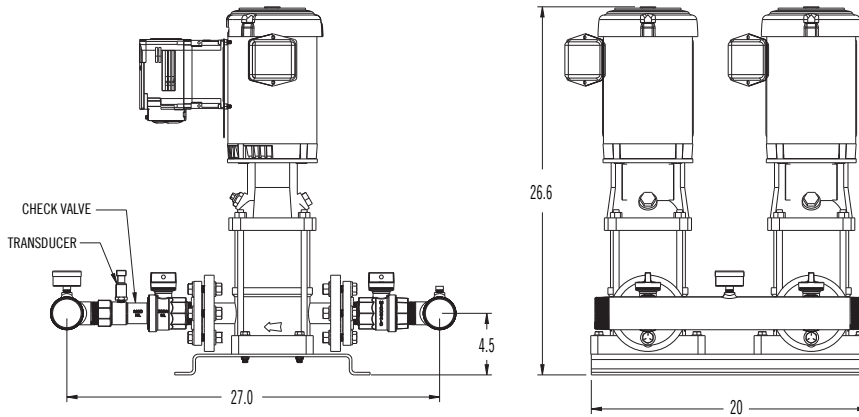
Models Available

Model	Description	Pump Boost	Voltage	GPM	HP
17103V040Y-1	103 PSI 230V VFD Booster	103 PSI	230V Single Phase	40	1 1/2
17103V040Y-3	103 PSI 230V VFD Booster	103 PSI	230V Three Phase	40	1 1/2
17140V040Y-1	140 PSI 230V VFD Booster	140 PSI	230V Single Phase	40	2
17140V040Y-3	140 PSI 230V VFD Booster	140 PSI	230V Three Phase	40	2
17066V080Y-1	66 PSI 230V VFD Booster	66 PSI	230V Single Phase	80	2
17066V080Y-3	66 PSI 230V VFD Booster	66 PSI	230V Three Phase	80	2
17110V080Y-1	110 PSI 230V VFD Booster	110 PSI	230V Single Phase	80	3
17110V080Y-3	110 PSI 230V VFD Booster	110 PSI	230V Three Phase	80	3
17122V080Y-1	122 PSI 230V VFD Booster	122 PSI	230V Single Phase	80	3
17122V080Y-3	122 PSI 230V VFD Booster	122 PSI	230V Three Phase	80	3

DuraMAC™ - Vertical Multistage Variable Speed Duplex Booster System

Control Features

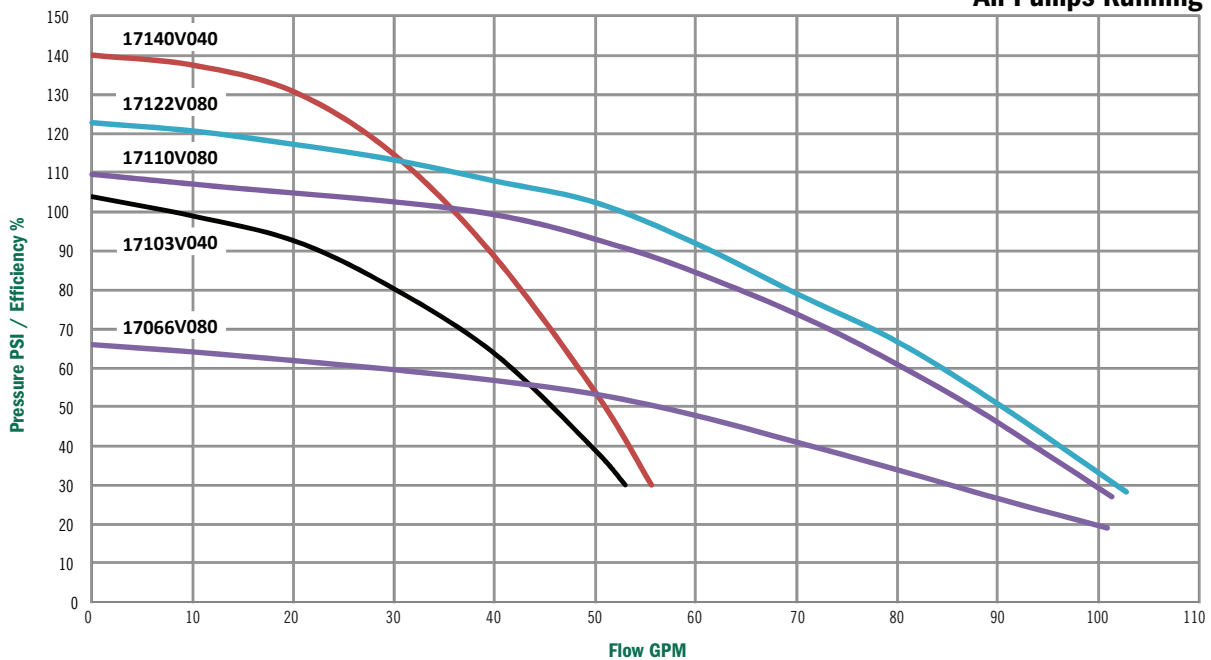
- Sleep Mode / Low Flow Protection
- Automatic system restart
- Sleep boost
- Dry run protection



DuraMAC™ Booster Pumps

DuraMAC

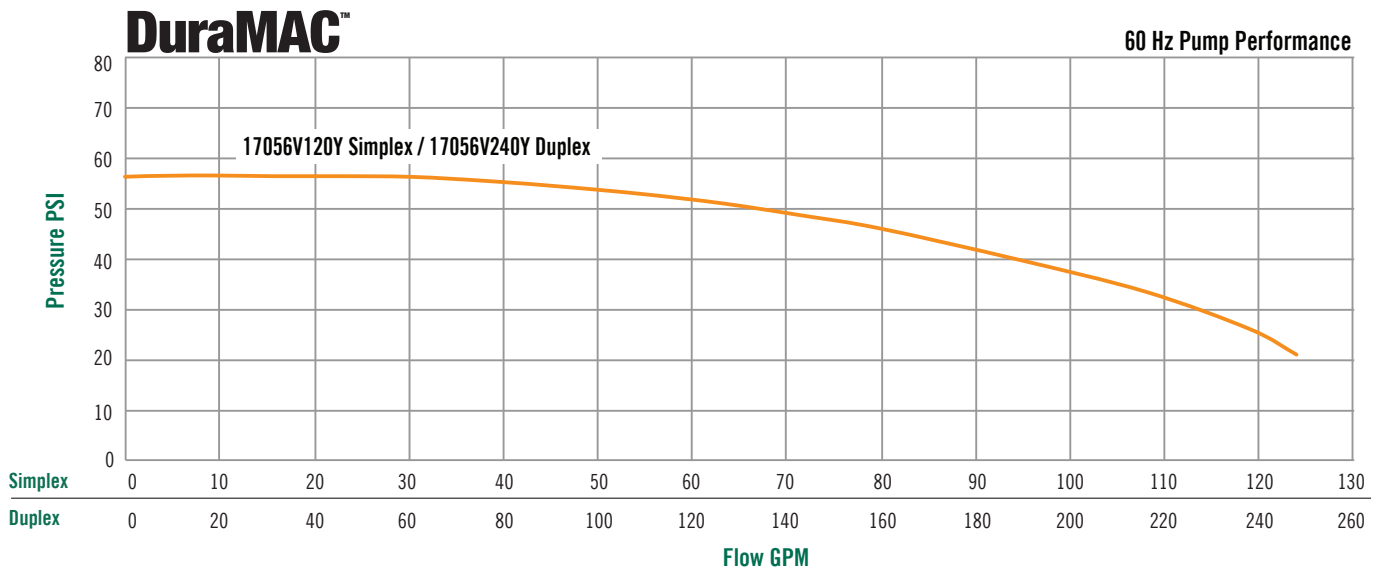
60 Hz Pump Performance All Pumps Running



Materials of Construction

- Impellers	304 Stainless Steel	- Pump Seal (rotating)	Carbon / NBR
- Pump Casing Inlet	301 Stainless Steel	- Diffuser	304 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel	- Base	304 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide		

DuraMAC™ - 17056V120Y Simplex / 17056V240Y Duplex Technical Information & Performance Curves



Technical Information

Max Boost	56 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 184TC
Horsepower	5
Seal Material	Carbon/Sic
Electrical	208-230V 1 Phase
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17056V120Y-1
Max Flow	120 GPM
Tank Required	32 Gallon Minimum

Technical Information - Duplex

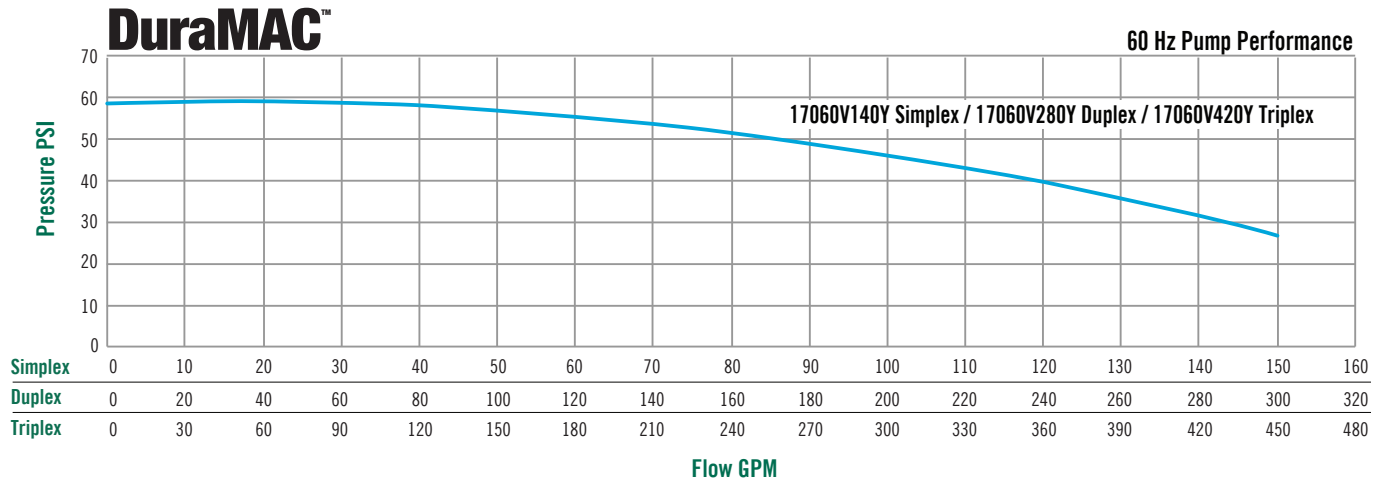
Model Number	17056V240Y-1
Max Flow	240 GPM
Tank Required	52 Gallon Minimum

Model	V120
PEI	0.94
Imp. Dia. (in)	4.11

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DuraMAC™ - 17060V140Y Simplex / 17060V280Y Duplex / 17060V420Y Triplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	60 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 184TC
Horsepower	5
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17060V140Y-3
Max Flow	140 GPM
Electrical	208-230V 3 Phase
Tank Required	36 Gallon Minimum

Technical Information - Duplex

Model Number	17060V280Y-3
Max Flow	280 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Technical Information - Triplex

Model Number	17060V420Y-3
Max Flow	420 GPM
Electrical	208-230V 3 Phase
Tank Required	86 Gallon Minimum

Model	V140
PEI	0.96
Imp. Dia. (in)	4.12

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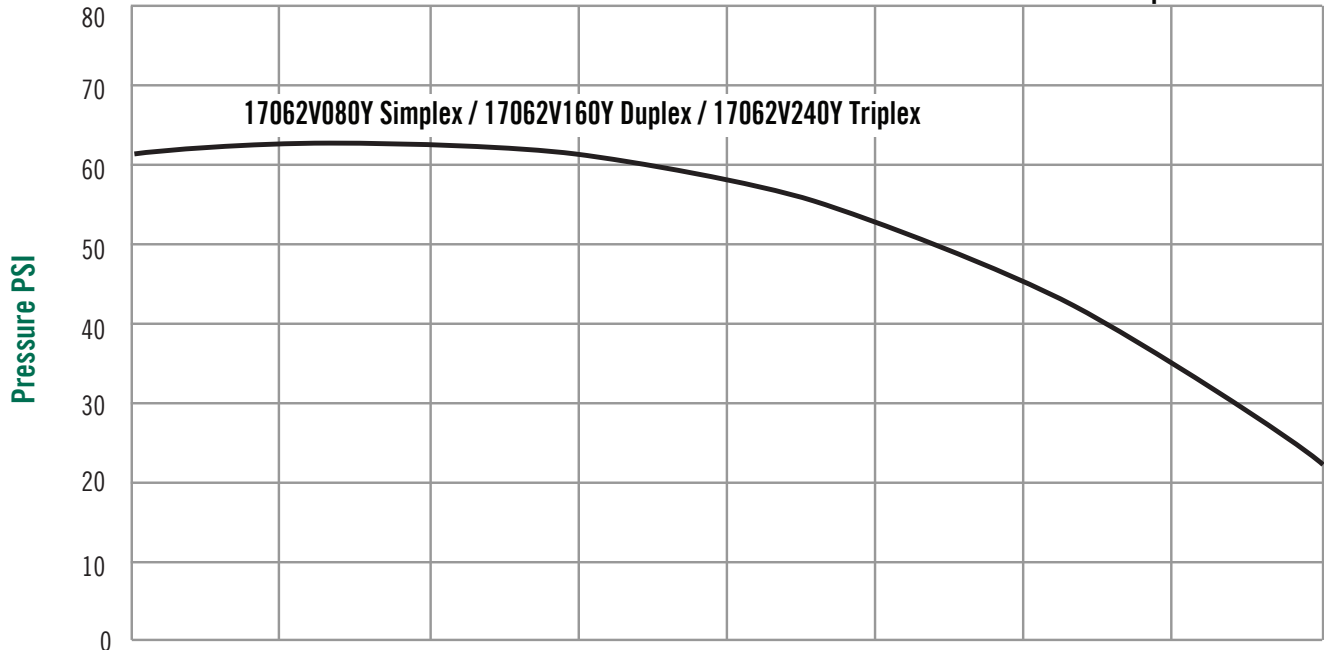
DuraMAC™ - 17062V080Y Simplex / 17062V160Y Duplex 17062V240Y Triplex

Technical Information & Performance Curves

DuraMAC™ Booster Pumps

DuraMAC™

60 Hz Pump Performance



	0	10	20	30	40	50	60	70	80
Simplex	0	10	20	30	40	50	60	70	80
Duplex	0	20	40	60	80	100	120	140	160
Triplex	0	30	60	90	120	150	180	210	240

Flow GPM

Technical Information

Max Boost	62 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 182TC
Horsepower	3
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17062V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17062V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Technical Information - Duplex

Model Number	17062V160Y-1
Max Flow	160 GPM
Electrical	208-230V 1 Phase
Tank Required	52 Gallon Minimum
Model Number	17062V160Y-3
Max Flow	160 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Technical Information - Triplex

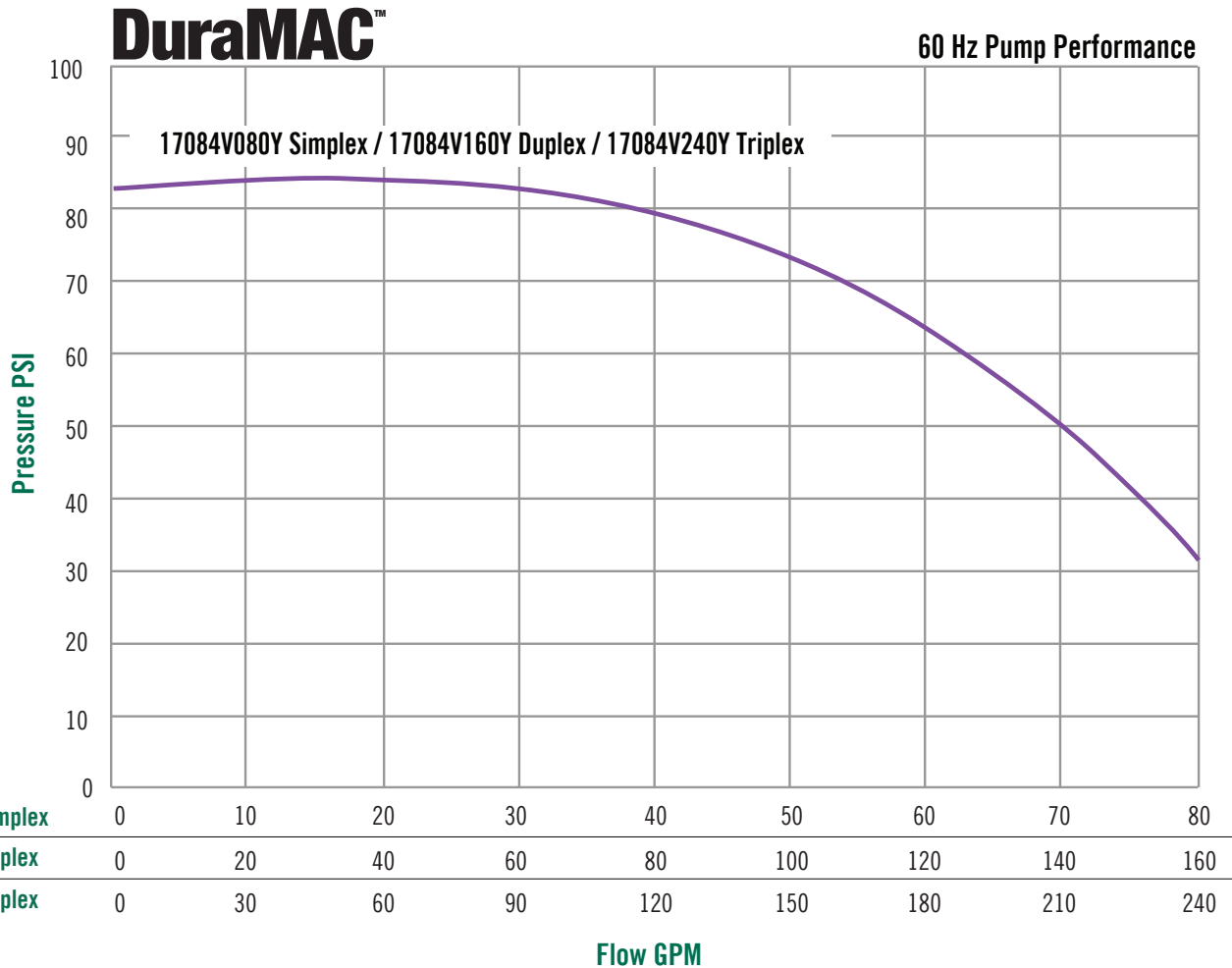
Model Number	17062V240Y-3
Max Flow	240 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Model	V080
PEI	0.89
Imp. Dia. (in)	3.64

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17084V080Y Simplex / 17084V160Y Duplex / 17084V240Y Triplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	84 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 184TC
Horsepower	5
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17084V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17084V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Technical Information - Triplex

Model Number	17084V240Y-3
Max Flow	240 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Technical Information - Duplex

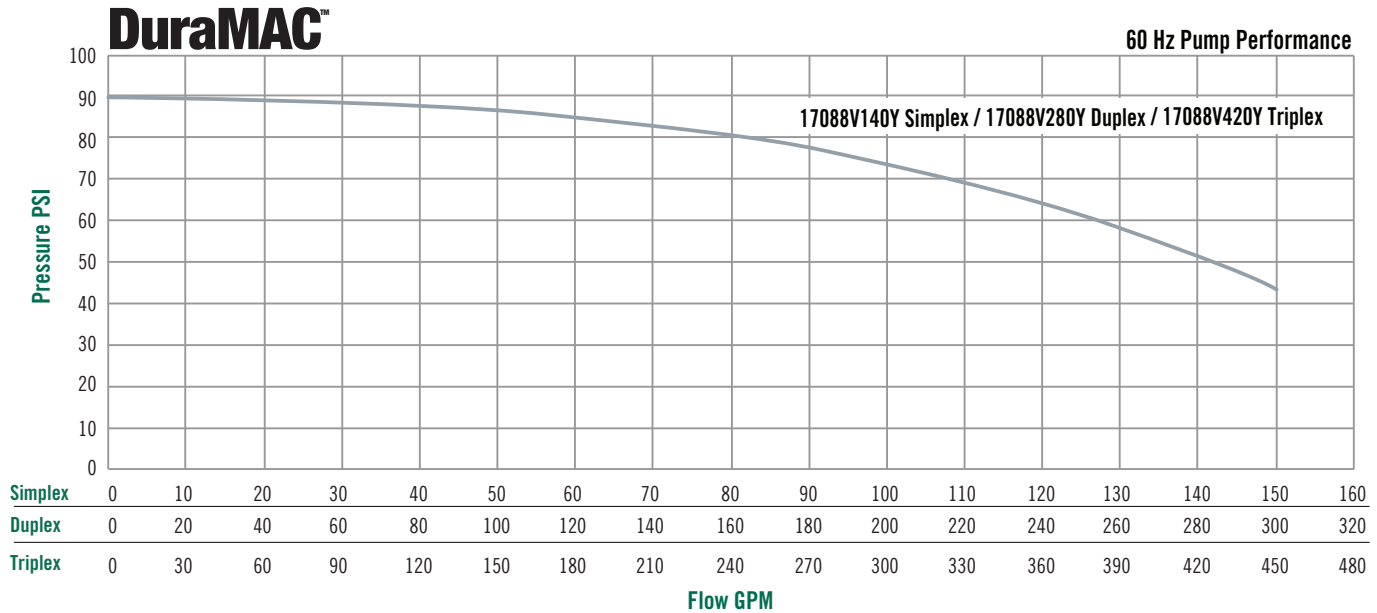
Model Number	17084V160Y-1
Max Flow	160 GPM
Electrical	208-230V 1 Phase
Tank Required	52 Gallon Minimum
Model Number	17084V160Y-3
Max Flow	160 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Model	V080
PEI	0.89
Imp. Dia. (in)	3.64

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DuraMAC™ - 17088V140Y Simplex / 17088V280Y Duplex 17088V420Y Triplex

Technical Information & Performance Curves



	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
Simplex	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
Duplex	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320
Triplex	0	30	60	90	120	150	180	210	240	270	300	330	360	390	420	450	480

Technical Information

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
Electrical	208-230V 3 Phase
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17088V140Y-3
Max Flow	140 GPM
Tank Required	36 Gallon Minimum

Technical Information - Duplex

Model Number	17088V280Y-3
Max Flow	280 GPM
Tank Required	52 Gallon Minimum

Technical Information - Triplex

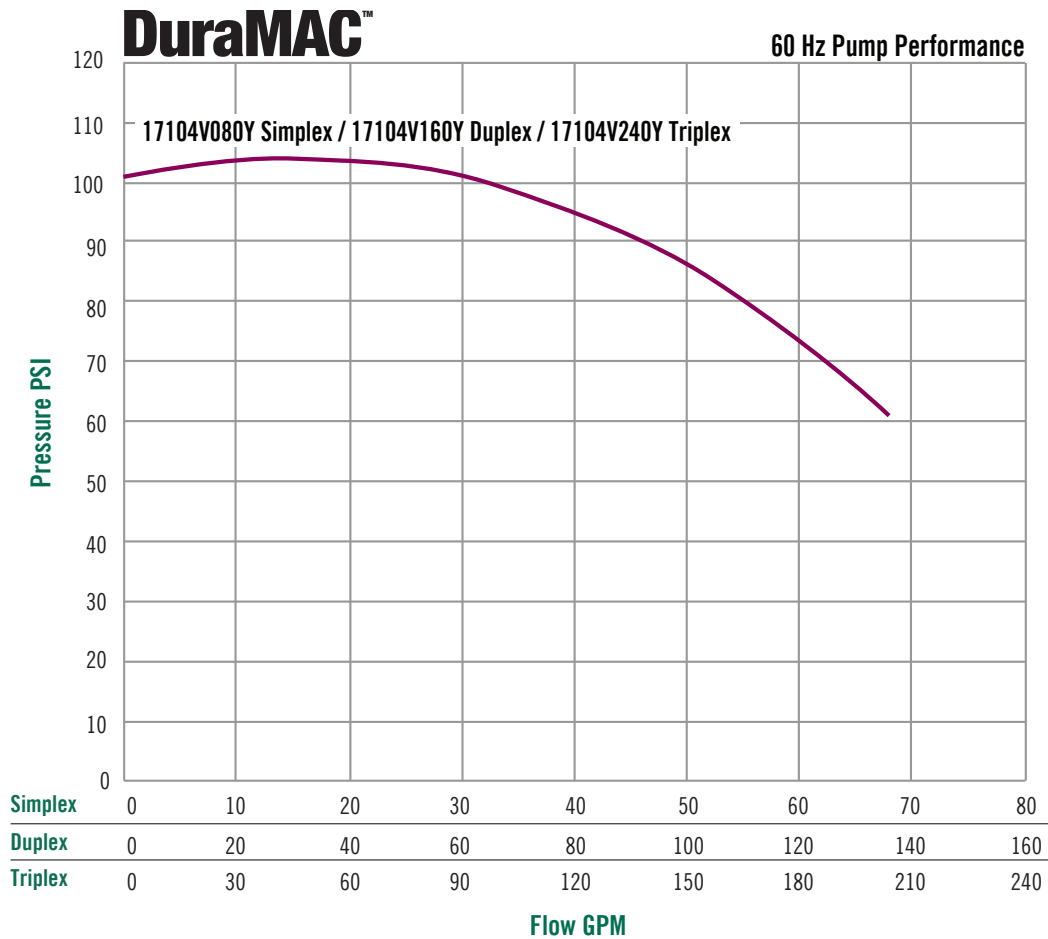
Model Number	17088V420Y-3
Max Flow	420 GPM
Tank Required	86 Gallon Minimum

Model	V140
PEI	0.96
Imp. Dia. (in)	4.12

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17104V080Y Simplex / 17104V160Y Duplex 17104V240Y Triplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	104 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 184TC
Horsepower	5
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17104V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17104V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Technical Information - Duplex

Model Number	17104V160Y-1
Max Flow	160 GPM
Electrical	208-230V 1 Phase
Tank Required	52 Gallon Minimum
Model Number	17104V160Y-3
Max Flow	160 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

Technical Information - Triplex

Model Number	17104V240Y-3
Max Flow	240 GPM
Electrical	208-230V 3 Phase
Tank Required	52 Gallon Minimum

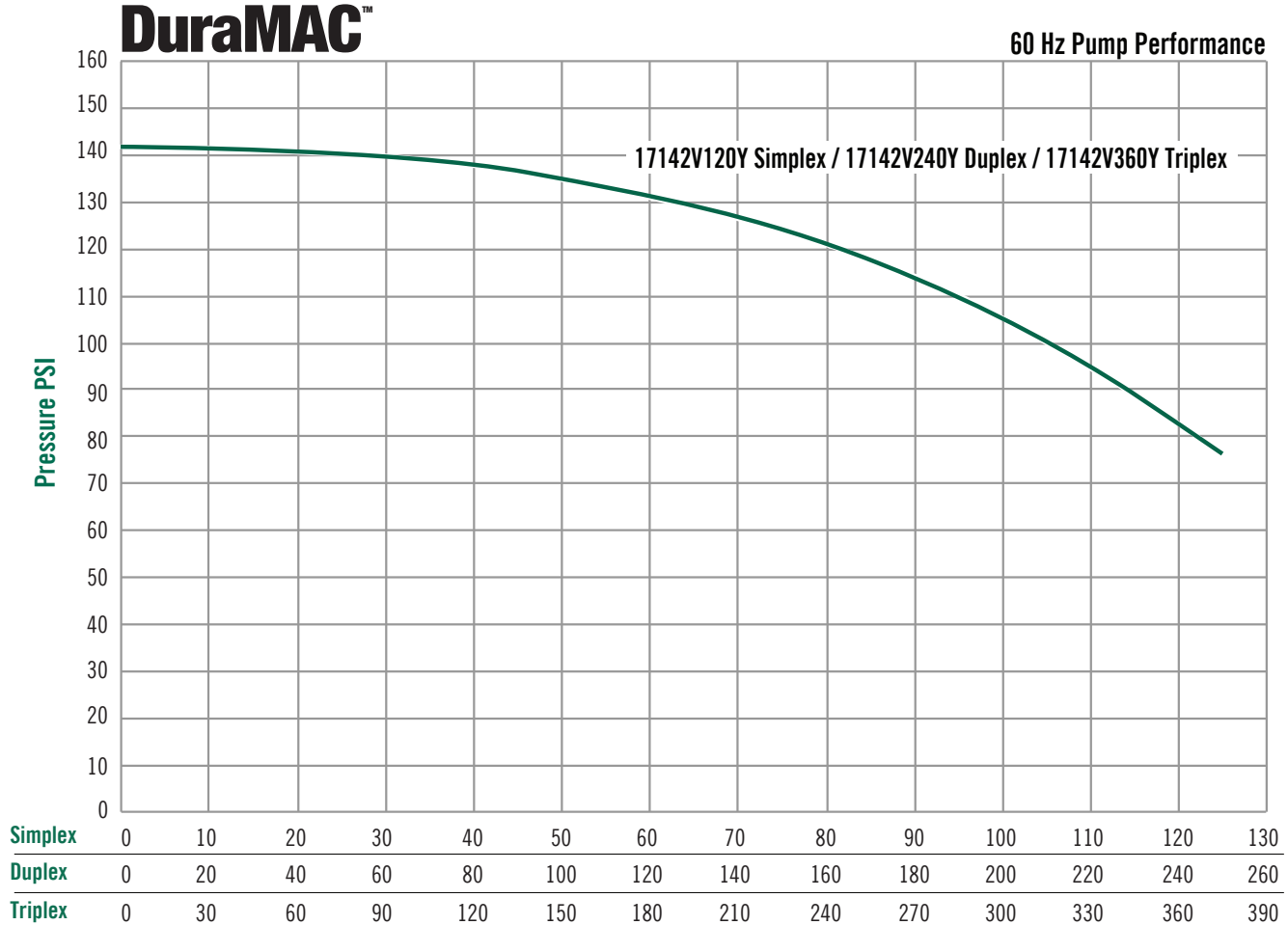
Model	V080
PEI	0.89
Imp. Dia. (in)	3.64

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17142V120Y Simplex / 17142V240Y Duplex 17142V360Y Triplex

Technical Information & Performance Curves

DuraMAC™ Booster Pumps



Technical Information

Max Boost	142 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 215TC
Horsepower	10
Seal Material	Carbon/Sic
Electrical	208-230V 3 Phase
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17142V120Y-3
Max Flow	120 GPM
Tank Required	32 Gallon Minimum

Technical Information - Duplex

Model Number	17142V240Y-3
Max Flow	240 GPM
Tank Required	52 Gallon Minimum

Technical Information - Triplex

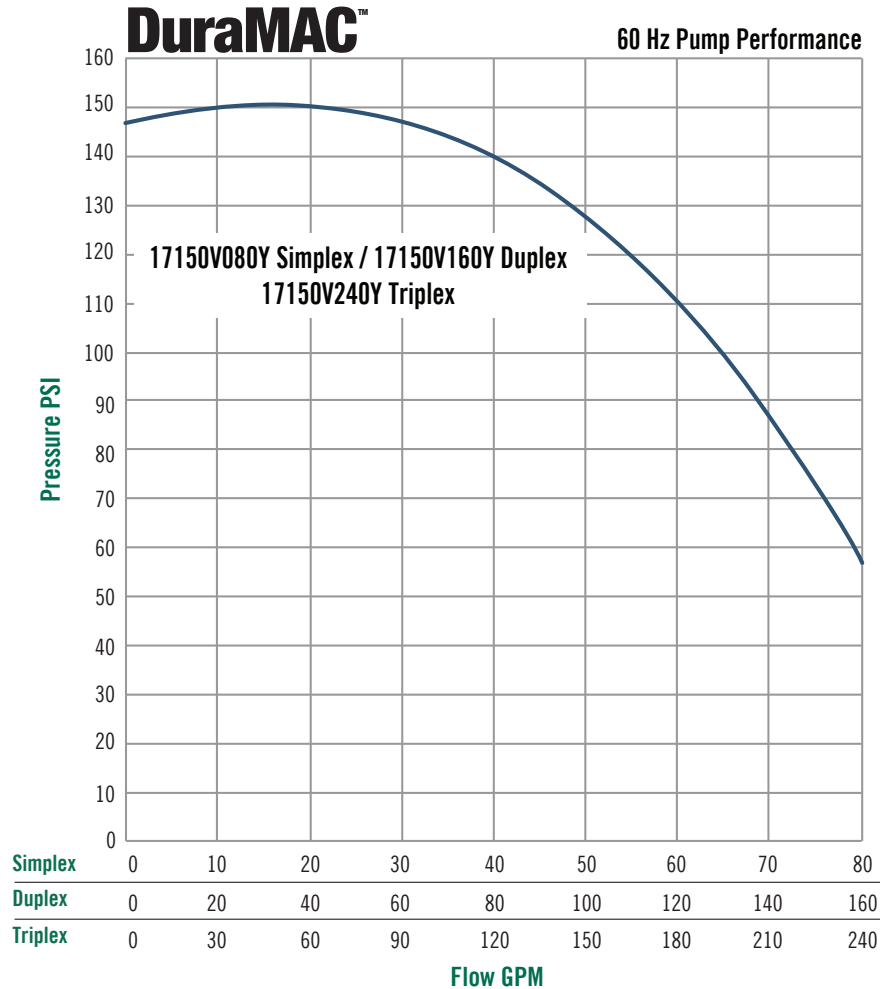
Model Number	17142V360Y-3
Max Flow	360 GPM
Tank Required	86 Gallon Minimum

Model	V120
PEI	0.94
Imp. Dia. (in)	4.11

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17150V080Y Simplex / 17150V160Y Duplex 17150V240Y Triplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	150 PSI
Suction Transducer	0-200 PSI 4-20mA
Discharge Transducer	0-200 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
Electrical	208-230V 3 Phase
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17150V080Y-3
Max Flow	80 GPM
Tank Required	20 Gallon Minimum

Technical Information - Triplex

Model Number	17150V240Y-3
Max Flow	240 GPM
Tank Required	52 Gallon Minimum

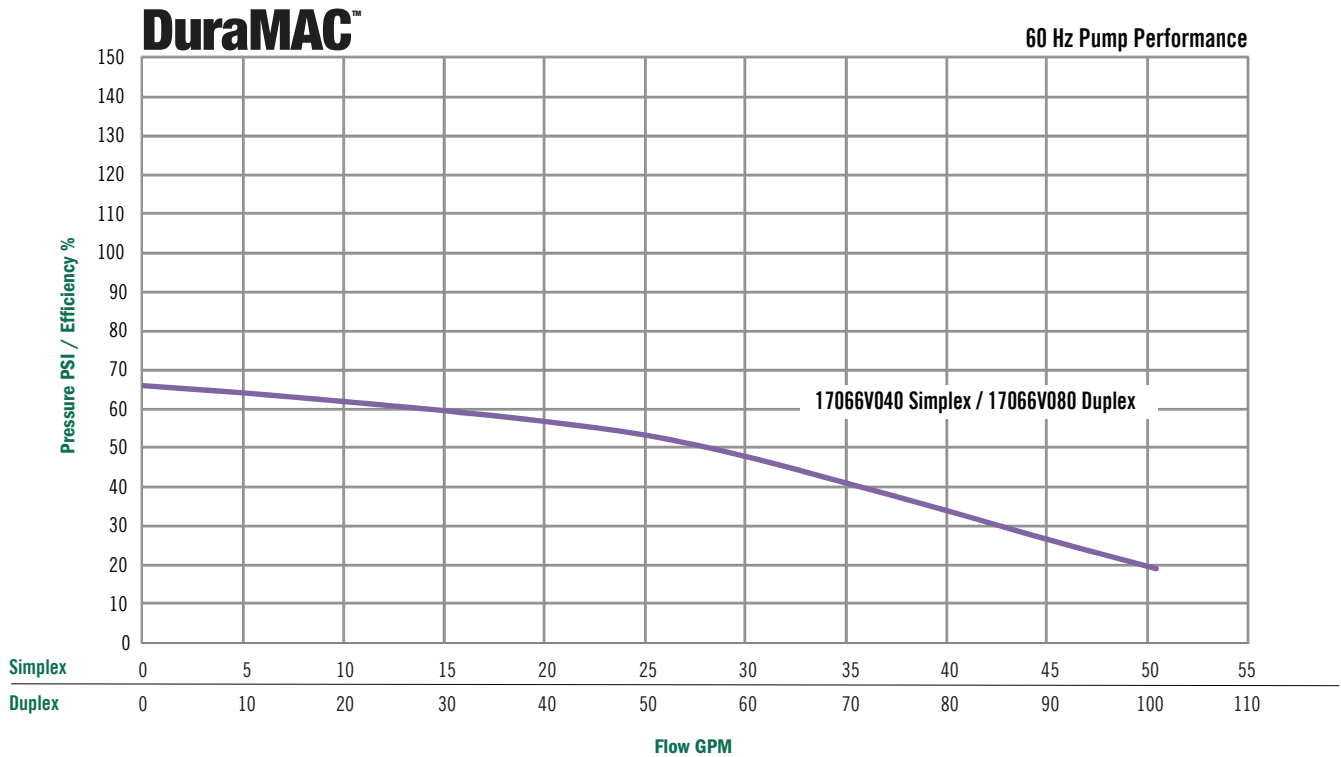
Technical Information - Duplex

Model Number	17150V160Y-3
Max Flow	160 GPM
Tank Required	52 Gallon Minimum

Model	V080
PEI	0.89
Imp. Dia. (in)	3.64

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17066V040 Simplex / 17066V080 Duplex Technical Information & Performance Curves



Technical Information

Max Boost	66 PSI
Discharge Transducer	0-200 PSI 4-20mA
Drive - Yaskawa iQ Pump	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 - Energy Eff.	TEFC 56C
Horsepower	2
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17066V040Y-1
Max Flow	40 GPM
Electrical	208-230V 1 Phase
Tank Required	7.3 Gallon Minimum
Model Number	17066V040Y-3
Max Flow	40 GPM
Electrical	208-230V 3 Phase
Tank Required	7.3 Gallon Minimum

Technical Information - Duplex

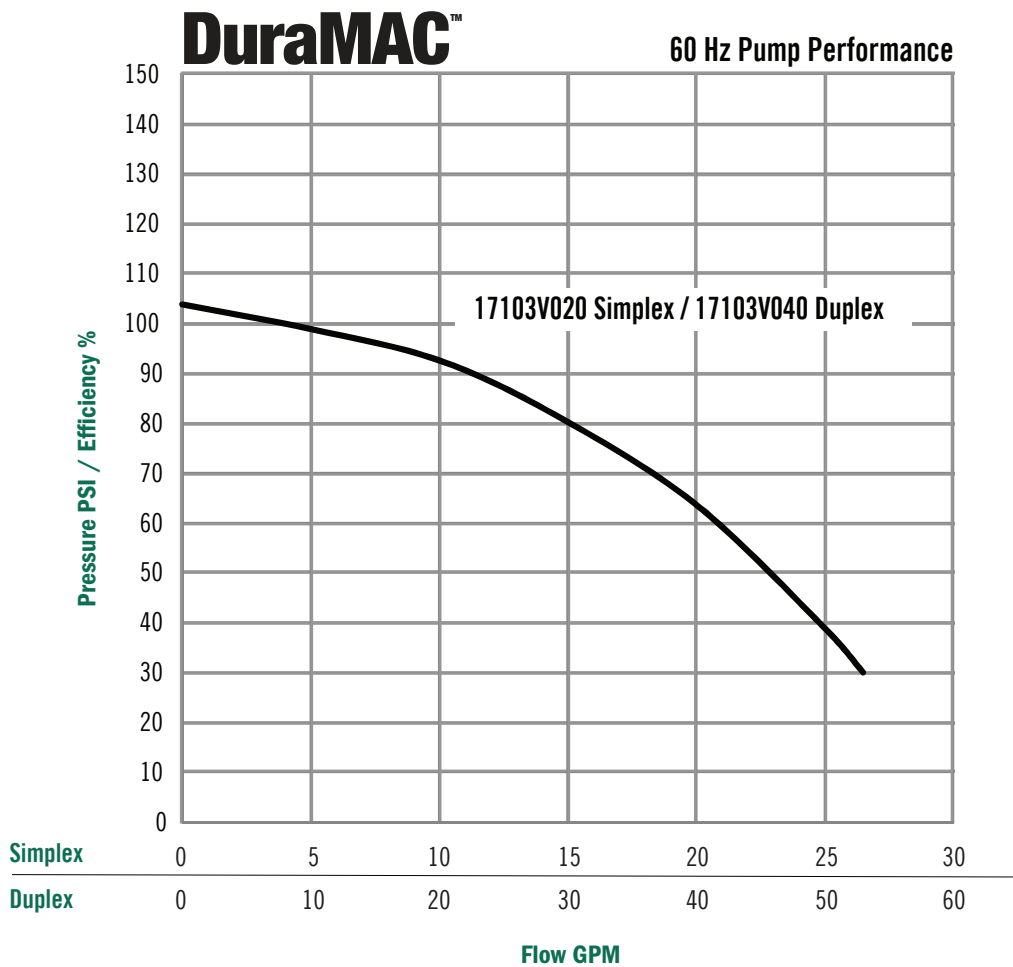
Model Number	17066V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17066V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Model	V040
PEI	0.82
Imp. Dia. (in)	2.874

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DuraMAC™ - 17103V020 Simplex / 17103V040 Duplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	103 PSI
Discharge Transducer	0-150 PSI 4-20mA
Drive - Yaskawa iQ Pump	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 - Energy Eff.	TEFC 56C
Horsepower	1 1/2
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

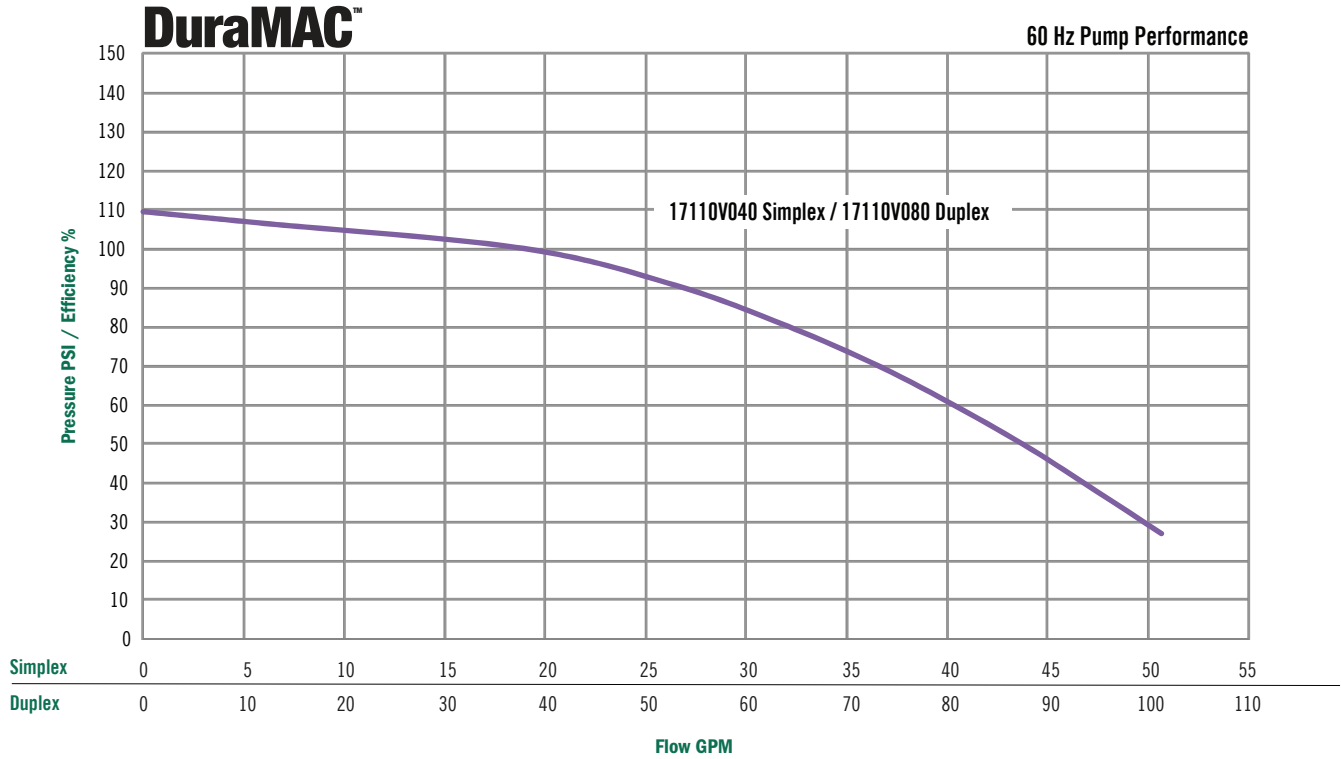
Model Number	17103V020Y-1
Max Flow	20 GPM
Electrical	208-230V 1 Phase
Tank Required	7.3 Gallon Minimum
Model Number	17103V020Y-3
Max Flow	20 GPM
Electrical	208-230V 3 Phase
Tank Required	7.3 Gallon Minimum

Technical Information - Duplex

Model Number	17103V040Y-1
Max Flow	40 GPM
Electrical	208-230V 1 Phase
Tank Required	14 Gallon Minimum
Model Number	17103V040Y-3
Max Flow	40 GPM
Electrical	208-230V 3 Phase
Tank Required	14 Gallon Minimum

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DuraMAC™ - 17110V040 Simplex / 17110V080 Duplex Technical Information & Performance Curves



Technical Information

Max Boost	110 PSI
Discharge Transducer	0-200 PSI 4-20mA
Drive - Yaskawa iQ Pump	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 - Energy Eff.	TEFC 56C
Horsepower	3
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17110V040Y-1
Max Flow	40 GPM
Electrical	208-230V 1 Phase
Tank Required	7.3 Gallon Minimum
Model Number	17110V040Y-3
Max Flow	40 GPM
Electrical	208-230V 3 Phase
Tank Required	7.3 Gallon Minimum

Technical Information - Duplex

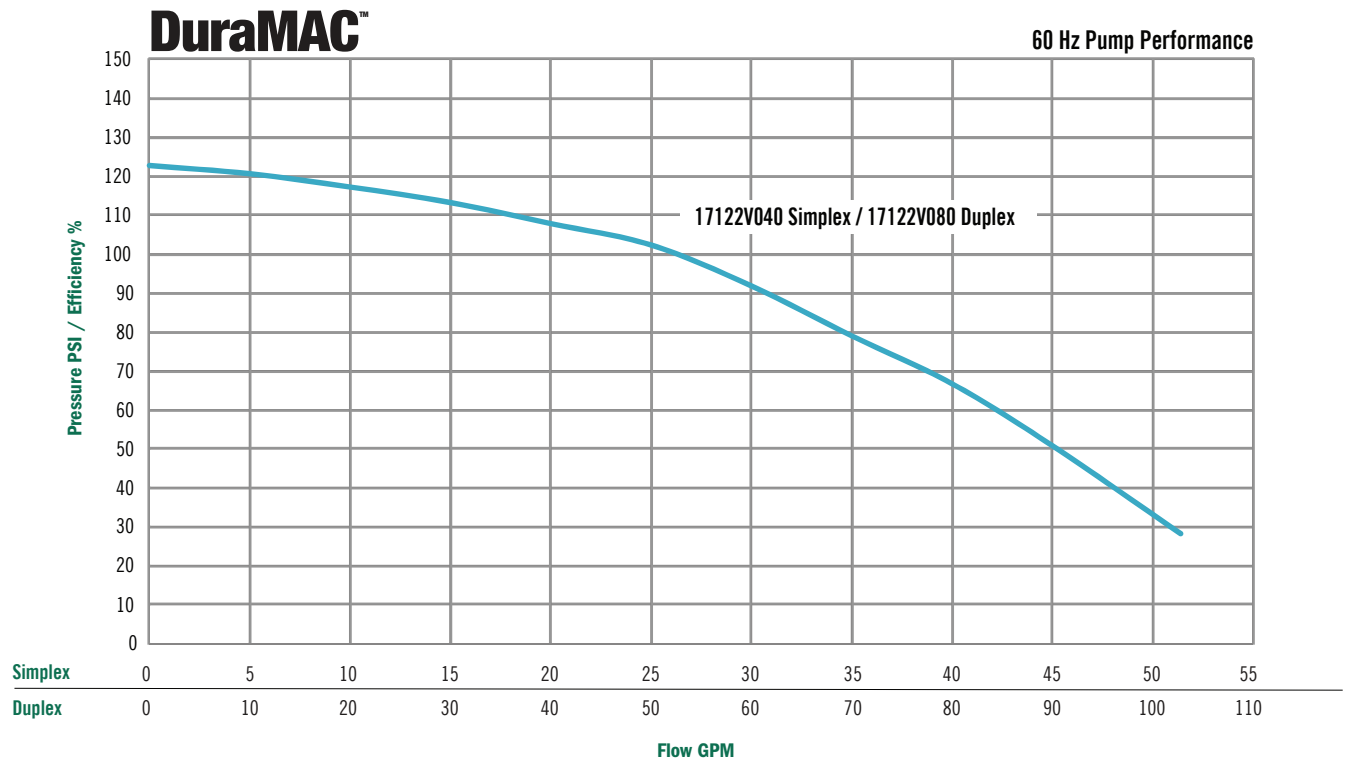
Model Number	17110V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17110V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Model	V040
PEI	0.82
Imp. Dia. (in)	2.874

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DuraMAC™ - 17122V040 Simplex / 17122V080 Duplex

Technical Information & Performance Curves



DuraMAC™ Booster Pumps

Technical Information

Max Boost	122 PSI
Discharge Transducer	0-200 PSI 4-20mA
Drive - Yaskawa iQ Pump	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 - Energy Eff.	TEFC 56C
Horsepower	3
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17122V040Y-1
Max Flow	40 GPM
Electrical	208-230V 1 Phase
Tank Required	7.3 Gallon Minimum
Model Number	17122V040Y-3
Max Flow	40 GPM
Electrical	208-230V 3 Phase
Tank Required	7.3 Gallon Minimum

Technical Information - Duplex

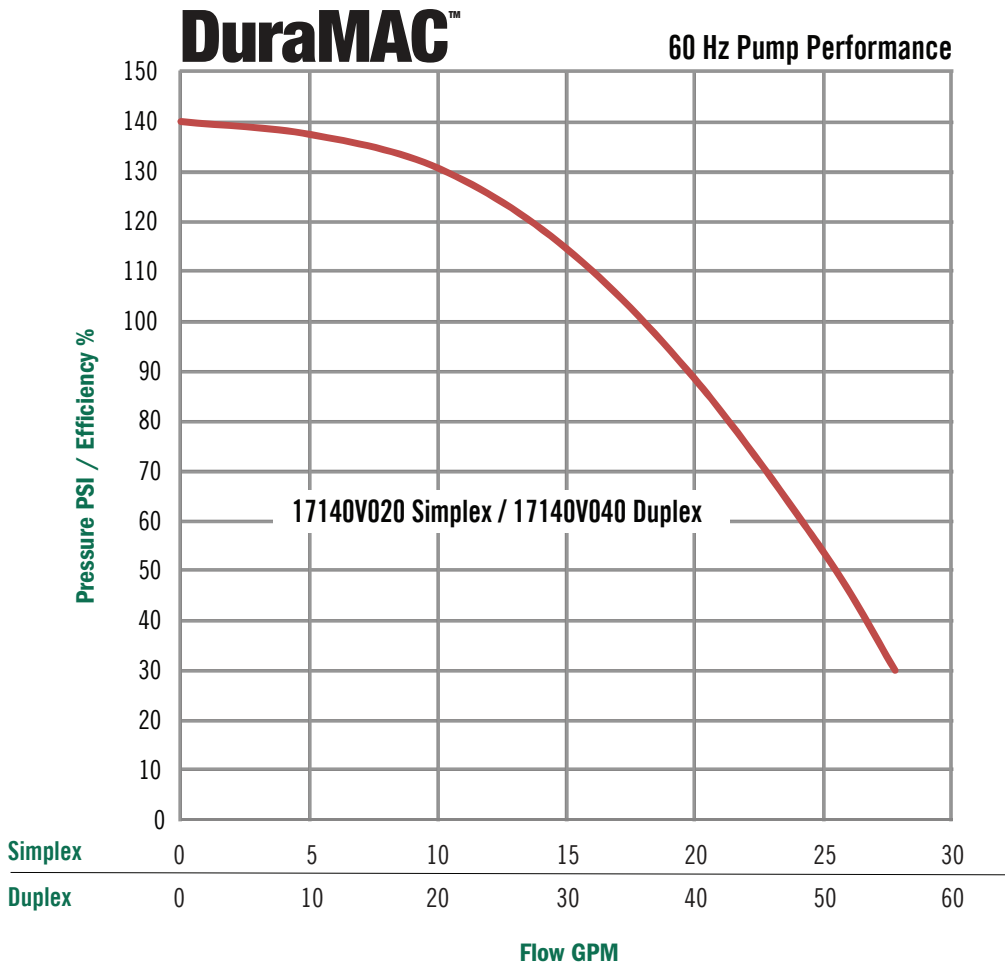
Model Number	17122V080Y-1
Max Flow	80 GPM
Electrical	208-230V 1 Phase
Tank Required	20 Gallon Minimum
Model Number	17122V080Y-3
Max Flow	80 GPM
Electrical	208-230V 3 Phase
Tank Required	20 Gallon Minimum

Model	V040
PEI	0.82
Imp. Dia. (in)	2.874

A.Y. McDonald considers the information on this sheet correct when published. Specifications are subject to change with notice.

DuraMAC™ - 17140V020 Simplex / 17140V040 Duplex Technical Information & Performance Curves

DuraMAC™ Booster Pumps



Technical Information

Max Boost	140 PSI
Discharge Transducer	0-200 PSI 4-20mA
Drive - Yaskawa iQ Pump	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 - Energy Eff.	TEFC 56C
Horsepower	2
Seal Material	Carbon/Sic
Base	304 Stainless Steel

Technical Information - Simplex

Model Number	17140V020Y-1
Max Flow	20 GPM
Electrical	208-230V 1 Phase
Tank Required	7.3 Gallon Minimum
Model Number	17140V020Y-3
Max Flow	20 GPM
Electrical	208-230V 3 Phase
Tank Required	7.3 Gallon Minimum

Technical Information - Duplex

Model Number	17140V040Y-1
Max Flow	40 GPM
Electrical	208-230V 1 Phase
Tank Required	14 Gallon Minimum
Model Number	17140V040Y-3
Max Flow	40 GPM
Electrical	208-230V 3 Phase
Tank Required	14 Gallon Minimum

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