



245 W. Roosevelt Road
Building 12, Suite 83
West Chicago, IL 60185
800-323-4498

www.aquamarkboosters.com



AM-Q, AM-80V-1 & AM-80V-3

AM-100V & AM-150V

Installation, Operation & Maintenance Manual

AquaMark models: AM-Q, AM-80V-1, AM-80V-3, AM-100V, AM-150V, AM-Q

Minimum incoming supply line for AM-Q is 1 1/2"
Standard voltage: 240/60/1

Minimum incoming supply line for AM-80V-1 is 3"
Standard voltage: 240/60/1

Minimum incoming supply line for AM-80V-3 is 3"
Standard voltage: 208/60/3

Minimum incoming supply line for AM-100V is 3"
Standard voltage: 208/60/3

Minimum incoming supply line for AM-150V is 3"
Standard voltage: 208/60/3

Other voltages available, please call for assistance.

THIS PUMP MUST BE PRIMED!

To prime models: AM-Q, AM-80V-1, AM-80V-3

Open the city water supply valve to the booster. Open the discharge valve from the pressure booster system that supplies water to the building. Run water in the building for a minute. This will force water into the pump housing from the city. The pump will be primed.

To prime models: AM-100V and AM-150V

Open the city water supply valve to the booster. Leave discharge valve closed. Find petcock located on the discharge check valve. Remove the ¼" plug, open until slight amount of water discharges. Shut petcock, reinstall plug. The pump will be primed.

- We recommend a bypass valve configuration be installed on ALL booster pump installations.
- In normal operation the bypass valve should be in the closed position.
- In normal operation the supply line valve from the city water main MUST remain open.
- In normal operation the discharge valve to the building from the booster should be open.
- There is a relief valve included and installed on this AquaMark pressure booster system. This relief valve discharge shall be piped to a floor drain.
- Yearly inspections should be made to check for leaks or unusual noise and proper maintenance procedures performed if necessary.

Relief valve discharge outlet shall be piped to floor drain. Follow local codes pertaining to relief valve piping and drainage.

Installation

- Leave 12" of clear space around the pressure booster to allow for service work to be performed as necessary in the future.
- Use the included anti-vibration mat underneath the steel plate the booster is mounted on. You will find this mat underneath the booster (between the booster and the skid that the booster is bolted to. This mat is placed on the jobsite floor beneath the pressure boosting system during the installation process.
- Plumb pressure booster as shown in the diagram included in this manual.
- Supply pressure booster with correct incoming minimum supply line size (or greater) as noted on the first page of this manual:
 - Minimum incoming supply line for AM-Q is 1 ½"
 - Minimum incoming supply line for AM-80V-1 is 3"
 - Minimum incoming supply line for AM-80V-3 is 3"
 - Minimum incoming supply line for AM-100V is 3"
 - Minimum incoming supply line for AM-150V is 3"
- Plumb a three valve bypass system during installation of this pressure booster. When service needs to be performed this will allow normal city water pressure to be supplied to the building while servicing/repairing the pressure booster system.
- Unions are recommended when installing this pressure booster system.
- Install included vibration isolator in the discharge piping after the connection point of the bypass loop's return to the discharge piping. You will find this zip-tied to the support post of the variable frequency drive unit (blue box).
- Have your electrician supply this pressure booster with the correct voltage and phase. We recommend a wall mounted cut-off switch box dedicated to the pressure booster only be mounted on a wall within 6' of the pressure booster installation location and should be easily accessible.

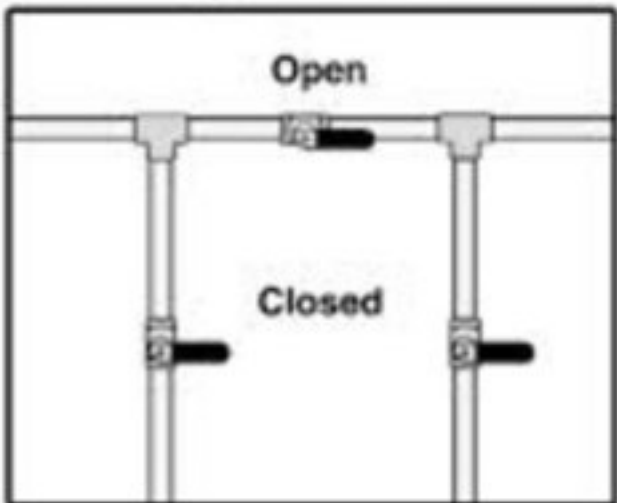
Operation

- Make sure valve from city water supply to the pressure booster is in the full open position.
- Make sure valve on the discharge side of the pressure booster is in the full open position.
- Make sure that the bypass valve line is in the full closed position (if the bypass valve is in the open position the pressure booster will not shut off).
- Supply electrical power to the pressure booster by switching the wall mounted cut-off switch to the on position.
- Pressure booster will turn on and boost pressure to the desired set-point. Pressure booster will continue to run until the demand has been met. Pressure booster will enter sleep mode after demand has been met and a pre-determined amount of time has passed.

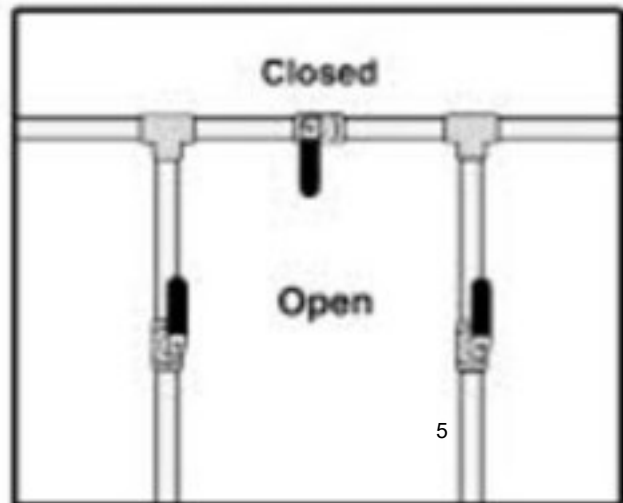
Maintenance

- This pressure booster has been designed to be maintenance free for many years.
- Do not rest items against switches, gauges, tank drain valves, or pressure relief valve.
- Do not rest items against pump. The pump requires free air space surrounding it to dissipate heat and take in fresh air for cooling purposes. Leave 12" of free air space all around the system.

In Bypass Position



In Service Position



Submittal Data

AquaMark
 245 W. Roosevelt Rd.
 Building 12, Suite 83
 West Chicago, IL 60185
 Ph.# 800-323-4498

Variable Frequency Drive

Simplex Water Pressure Ultra Low Profile Booster System

AquaMark Model# AM-Q
 Quintessential Booster System



Dimensions					Pipe Size				
Model	Motor	Height	Length	Width	Inlet	Outlet	Voltage	Hz.	Phase
AM-Q	3 HP	34"	30"	24"	2"	2"	208 - 240	60	1 or 3
Option							460 - 480	60	3
Materials of Construction					Operating Conditions				
Description									
Pump Casing		Stainless Steel			Max. Flow		70 GPM		
Impeller		Stainless Steel			Max. Press Boost		See Cart Below		
Shaft		Stainless Steel			Max. System Press.		95 PSI		
Seal		Type 21			Min. Suction Press.		10 PSI		
Platform		Fab. Steel			Low Suction Cut-Off		7 PSI		
Valves		Brass			VFD Control		Nema4		
Connection Piping		Brass			Requires 2" Supply Line for flows over 35 GPM				
Diaphragm Tank		Steel							
3 HP Motor		ODP			Up to a 9 Story Building				

44 PSI Boost @ 20 GPM, 102' Head 1 ½" Supply	The AM-Q is a reduced noise level unit featuring a larger volute for less turbulent water flow exiting the booster. A NEMA4 control featuring a larger heat sink to eliminate the need for a cooling fan. TWO YEAR WARRANTY
42 PSI Boost @ 30 GPM, 98' Head 1 ½" Supply	
41 PSI Boost @ 40 GPM, 95' Head 2" Supply	
39 PSI Boost @ 50 GPM, 92' Head 2" Supply	
37 PSI Boost @ 60 GPM, 87' Head 2" Supply	

Another tank can be installed after the booster for longer shut down periods during low flows.

Submittal Data

AquaMark
 245 W. Roosevelt Rd.
 Building 12, Suite 83
 West Chicago, IL 60185
 Ph.# 800-323-4498

Variable Frequency Drive

Simplex Water Pressure Ultra Low Profile Booster System

AquaMark Model# AM-80V-1



Dimensions					Pipe Size				
Model	Motor	Height	Length	Width	Inlet	Outlet	Voltage	Hz.	Phase
AM-80V-1	3 HP	34"	30"	24"	3"	3"	208 - 240	60	1 or 3
Option							460 - 480	60	3
Materials of Construction					Operating Conditions				
Description									
Pump Casing		Stainless Steel			Max. Flow		115 GPM		
Impeller		Stainless Steel			Max. Press Boost		See Cart Below		
Shaft		Stainless Steel			Max. System Press.		95 PSI		
Seal		Type 21			Min. Suction Press.		10 PSI		
Platform		Fab. Steel			Low Pressure Cut-off		7 PSI		
Valves		Brass			VFD Control		Nema1		
Connection Piping		Brass			Requires 3" Supply Line for flows over 65GPM				
Diaphragm Tank		Steel			Up to a 6 Story Building				

80 GPM Variable Frequency Drive Booster Pump	A larger Tank Can Be Installed After The Booster
38 PSI Boost @ 60 GPM	For a Longer Shut Period During Low Flows.
33 PSI Boost @ 80 GPM	
30 PSI Boost @ 90 GPM	
20 PSI Boost @ 100 GPM	TWO YEAR WARRANTY

Submittal Data

AquaMark
 245 W. Roosevelt Rd.
 Building 12, Suite 83
 West Chicago, IL 60185
 Ph.# 800-323-4498

Variable Frequency Drive

**Simplex Water Pressure
 Ultra Low Profile
 Booster System**

AquaMark Model# AM-80V-3



Dimensions					Pipe Size				
Model	Motor	Height	Length	Width	Inlet	Outlet	Voltage	Hz.	Phase
AM-80V-3	5 HP	34"	30"	24"	3"	3"	208 - 240	60	3
Option							460 - 480	60	3
Materials of Construction					Operating Conditions				
Description									
Pump Casing		Stainless Steel			Max. Flow		130 GPM		
Impeller		Stainless Steel			Max. Press Boost		See Chart Below		
Shaft		Stainless Steel			Max. System Press.		100 PSI		
Seal		Type 21			Min. Suction Press.		10 PSI		
Platform		Fab. Steel			Low Pressure Cut-off		7 PSI		
Valves		Brass			VFD Control		Nema1		
Connection Piping		Brass			Requires 3" Supply Line For Flows over 65 GPM				
Diaphragm Tank		Steel							
Motor: ODP					Up to a 9 Story Building				

23 PSI Boost @ 130 GPM, 53' HD	A Larger Diaphragm Tank Can Be Installed After
52 PSI Boost @ 60 GPM, 120' HD	The Booster For Longer Shutdown Periods
45 PSI Boost @ 80 GPM, 105' HD	During Low Flows. Please Call For Sizing
42 PSI Boost @ 90 GPM, 98' HD	
39 PSI Boost @ 100 GPM 90' HD	TWO YEAR WARRANTY

Submittal Data

AquaMark
 245 W. Roosevelt Rd.
 Building 12, Suite 83
 West Chicago, IL 60185
 Ph.# 800-323-4498

Variable Frequency Drive

Simplex Water Pressure Ultra Low Profile Booster System

AquaMark Model# AM-100V



Dimensions					Pipe Size				
Model	Motor	Height	Length	Width	Inlet	Outlet	Voltage	Hz.	Phase
AM-100V	5 HP	34"	30"	24"	3"	3"	208 - 240	60	3
Option							460 - 480	60	3
Materials of Construction					Operating Conditions				
Description									
Pump Casing		Stainless Steel			Max. Flow		120 GPM		
Impeller		Stainless Steel			Max. Press Boost		See Chart Below		
Shaft		Stainless Steel			Max. System Press.		95 PSI		
Seal		Type 21			Min. Suction Press.		10 PSI		
Platform		Fab. Steel			Low Pressure Cut-off		7 PSI		
Valves		Brass			VFD Control		Nema1		
Connection Piping		Brass			Requires 3" Supply Line				
Diaphragm Tank		Steel			Low Pressure Cut off		Set @ 7PSI		

100 GPM Variable Frequency Drive Booster Pump	A larger tank can be installed after the booster for longer shut down periods during low flows.
65 PSI Maximum Boost @ 70 GPM	
58 PSI Maximum Boost @ 90 GPM	
54 PSI Maximum Boost @ 100 GPM	Other voltages are available.
45 PSI Maximum Boost @ 120 GPM	TWO YEAR WARRANTY

Submittal Data

H.O.K. Sales, Inc.
 245 W. Roosevelt Rd.
 West Chicago, IL 60185
 Ph.# 800-323-4498

**Variable Frequency Drive
 Simplex Water Pressure
 Ultra Low Profile
 Booster System**

AM-150V



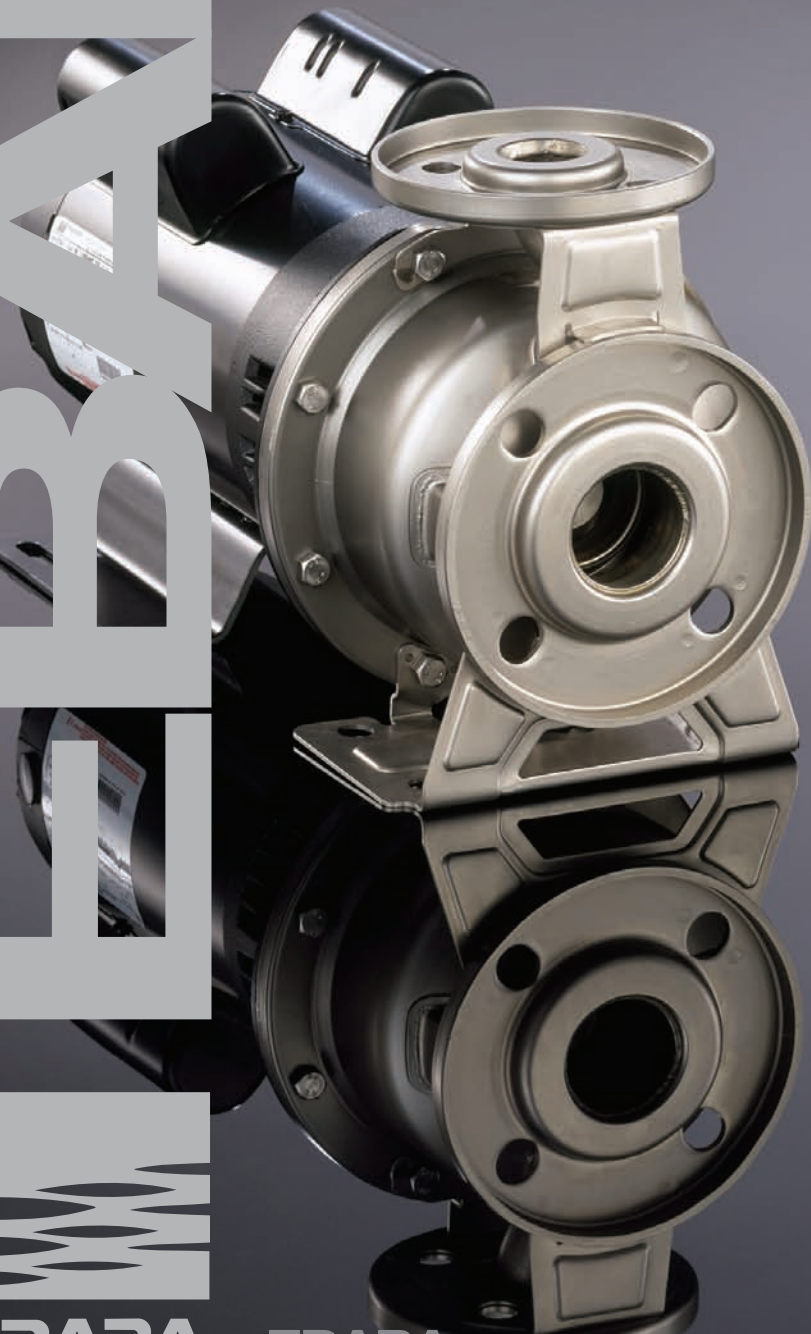
Dimensions					Pipe Size				
Model	Motor	Height	Length	Width	Inlet	Outlet	Voltage	Hz.	Phase
AM-150V	7.5 HP	34"	30"	24"	3"	3"	208 - 240	60	3
Optional Voltage							460 - 480	60	3
Materials of Construction					Operating Conditions				
Description									
Pump Casing		Stainless Steel			Max. Flow		170 GPM		
Impeller		Stainless Steel			Max. Press Boost		48 PSI		
Shaft		Stainless Steel			Max. System Press.		95 PSI		
Seal		Type 21			Min. Suction Press.		10 PSI		
Platform		Fab. Steel			Low Pressure Cut-off		7 PSI		
Valves		Brass			VFD Control		Nema1		
Connection Piping		Brass			Requires 3" Supply Line				
Diaphragm Tank		Steel							
					Low Pressure Cutoff	Set At	7 PSI		.

150 GPM Variable Frequency Drive Booster Pump	A larger tank can be installed after the booster
48 PSI Maximum Boost, 110' Hd. @ 170 GPM	For long shut down periods during low flows
51 PSI Maximum Boost, 118' Hd. @ 150 GPM	
59 PSI Maximum Boost, 136' Hd. @ 100 GPM	
Other Voltages available please contact the factory	TWO YEAR WARRANTY

EBARA

Model 3U/CDU

end suction centrifugal



EBARA

EBARA Fluid Handling

an EBARA International Corporation company

Model 3U/CDU

Features

- **Close coupled design**
 - saves space; simplifies maintenance and installation
- **Stainless steel liquid end components**
 - high quality; corrosion resistance
- **Versatile mounting**
 - can be installed horizontally or vertically
- **Back pullout construction**
 - assembly and overhaul of the impeller and seal without disturbing suction and discharge connections
- **Top centerline discharge and foot support under casing**
 - ensures self-venting and reduces misalignment from pipe loads
- **High operating efficiency**
 - lowers operating costs
- **High quality mechanical shaft seals and o-rings**
 - available for standard pumping requirements or optional high temperature and chemical duty operation



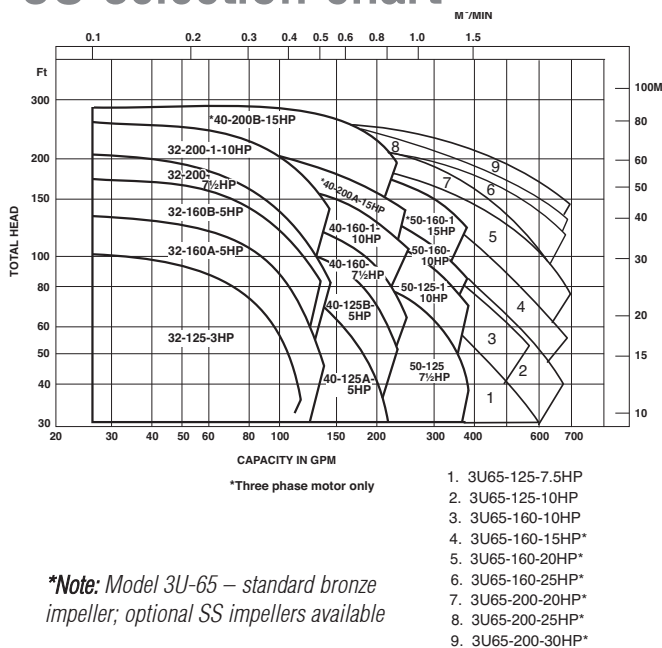
*Note: NSF/ANSI 61 Annex G listed

Certified to NSF/ANSI 61, ANNEX G

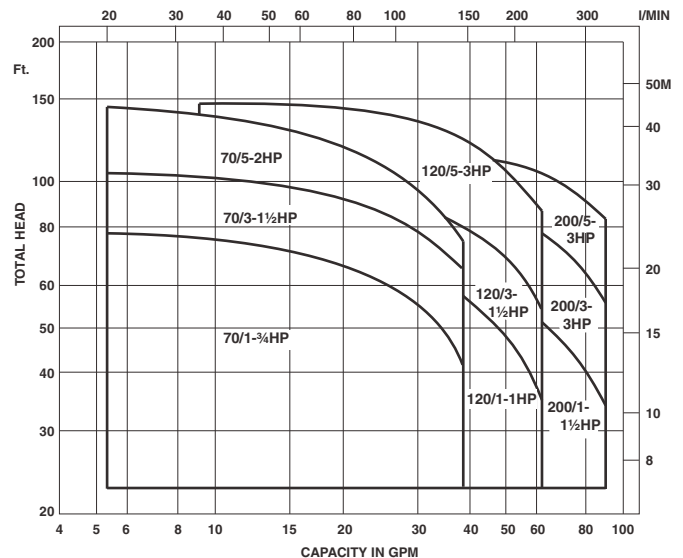
Applications

- Plant services
- Water supply systems
- Washing plants
- Cooling water
- Car wash
- Scrubbers
- Ultrapure water systems
- Jockey pump services
- Air conditioning
- Sprinkler/flow irrigation
- OEM equipment application
- Pressure boosting
- Liquid transfer
- Heat exchanger
- Spray systems
- Heating
- Beverage processing
- Pharmaceutical services
- Water reclamation and treatment
- General pump applications

3U selection chart



CDU selection chart



EBARA Fluid Handling

1651 Cedar Line Drive • Rock Hill, SC 29730 • (t) 803 327 5005 • (f) 803 327 5097

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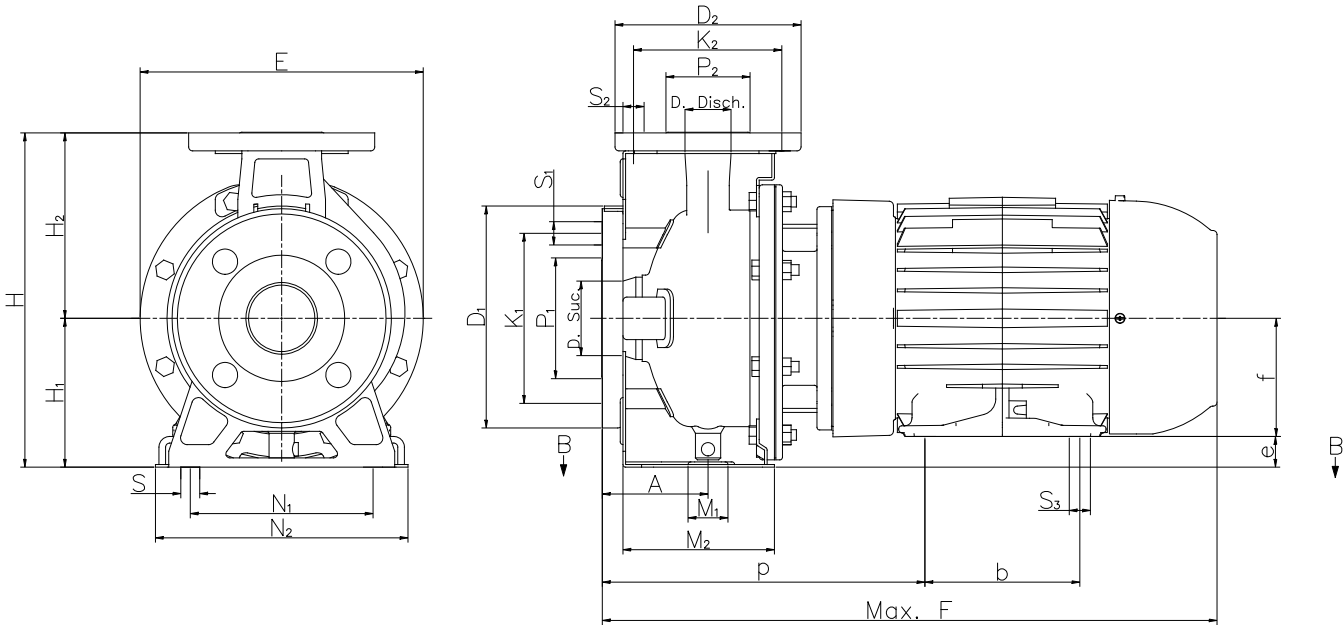
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EFHC023U0312

Model 3U

EBARA Stainless Steel Centrifugal Pumps

Pump Dimensions



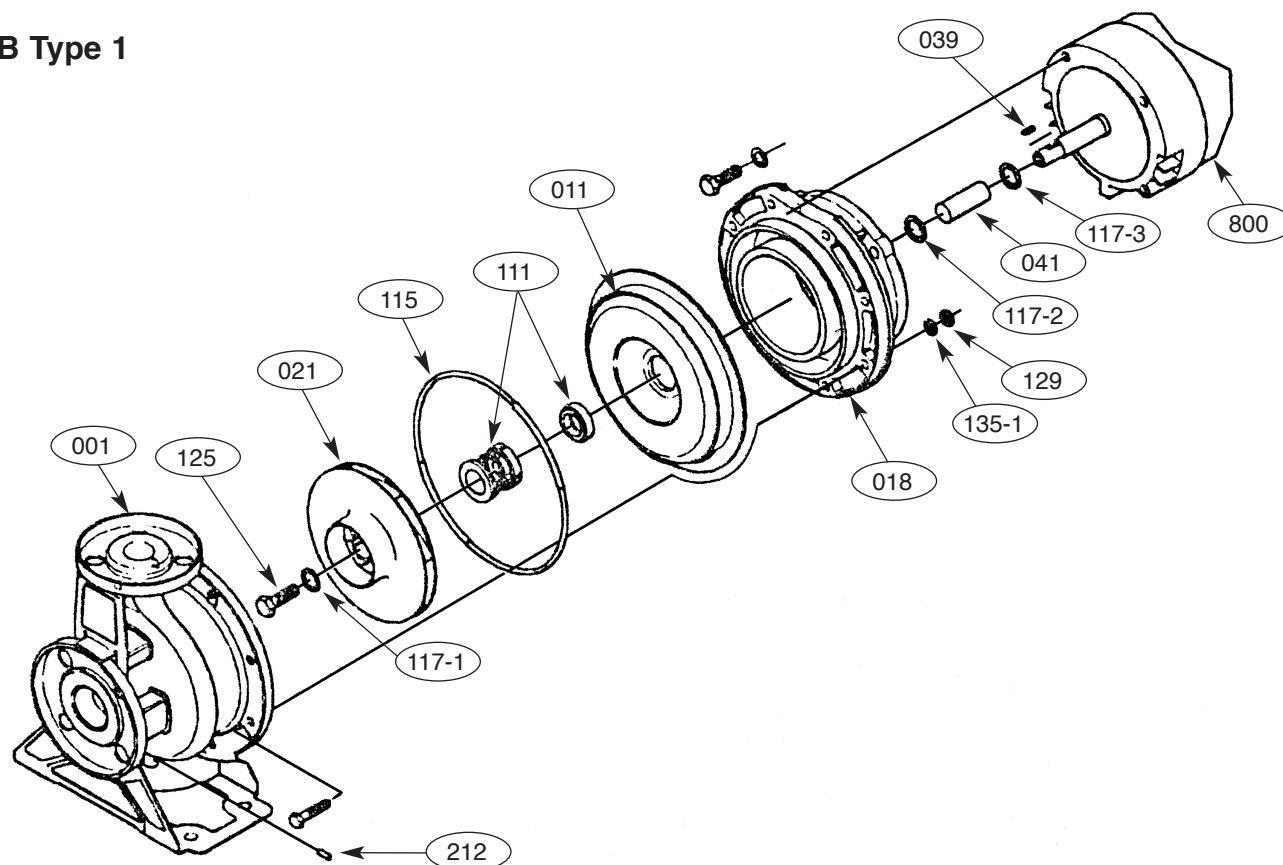
Unit: inch

Model	Size	Flange										Pump									
		Suction					Discharge														
		D Suc.	P ₁	K ₁	D ₁	S ₁	D Disch.	P ₂	K ₂	D ₂	S ₂	A	E	H	H ₁	H ₂	M ₁	M ₂	N ₁	N ₂	S
32-125-3HP	1 1/4 x 2 x 5 3/16	2	3 3/4	4 15/16	6 1/2	11/16	1 1/4	2 1/2	3 1/2	5 1/2	5/8	3 1/8	8 3/8	9 15/16	4 7/16	5 1/2	2 3/4	4 1/2	5 1/2	7 1/2	9/16
32-160A-5HP	1 1/4 x 2 x 5 15/16	2	3 3/4	4 15/16	6 1/2	11/16	1 1/4	2 1/2	3 1/2	5 1/2	5/8	3 1/8	10	11 1/2	5 3/16	6 5/16	2 3/4	4 5/8	7 1/2	9 7/16	9/16
32-160B-5HP	1 1/4 x 2 x 6 9/16	2	3 3/4	4 15/16	6 1/2	11/16	1 1/4	2 1/2	3 1/2	5 1/2	5/8	3 1/8	10	11 1/2	5 3/16	6 5/16	2 3/4	4 5/8	7 1/2	9 7/16	9/16
32-200-7 1/2HP	1 1/4 x 2 x 7 5/16	2	3 3/4	4 15/16	6 1/2	11/16	1 1/4	2 1/2	3 1/2	5 1/2	5/8	3 1/8	11 9/16	13 3/8	6 5/16	7 1/16	2 3/4	4 11/16	7 1/2	9 7/16	9/16
32-200-10HP	1 1/4 x 2 x 7 7/8	2	3 3/4	4 15/16	6 1/2	11/16	1 1/4	2 1/2	3 1/2	5 1/2	5/8	3 1/8	11 9/16	13 3/8	6 5/16	7 1/16	2 3/4	4 11/16	7 1/2	9 7/16	9/16
40-125A-5HP	1 1/2 x 2 1/2 x 4 15/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 1/8	8 3/8	9 15/16	4 7/16	5 1/2	2 3/4	4 1/2	6 5/16	8 1/4	9/16
40-125B-5HP	1 1/2 x 2 1/2 x 5 1/2	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 1/8	8 3/8	9 15/16	4 7/16	5 1/2	2 3/4	4 1/2	6 5/16	8 1/4	9/16
40-160-7 1/2HP	1 1/2 x 2 1/2 x 5 15/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 1/8	10	11 1/2	5 3/16	6 5/16	2 3/4	4 5/8	7 1/2	9 7/16	9/16
40-160-1-10HP	1 1/2 x 2 1/2 x 6 9/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 1/8	10	11 1/2	5 3/16	6 5/16	2 3/4	4 5/8	7 1/2	9 7/16	9/16
40-200A-15HP	1 1/2 x 2 1/2 x 7 3/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 15/16	11 9/16	13 3/8	6 5/16	7 1/16	2 3/4	4 1/2	8 3/8	10 7/16	9/16
40-200B-15HP	1 1/2 x 2 1/2 x 7 7/8	2 1/2	4 9/16	5 11/16	7 5/16	11/16	1 1/2	2 7/8	3 7/8	5 7/8	5/8	3 15/16	11 9/16	13 3/8	6 5/16	7 1/16	2 3/4	4 1/2	8 3/8	10 7/16	9/16
50-125-7 1/2HP	2 x 2 1/2 x 5 3/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	2	3 3/4	4 15/16	6 1/2	11/16	3 15/16	10	11 1/2	5 3/16	6 5/16	2 3/4	4 1/2	7 1/2	9 7/16	9/16
50-125-10HP	2 x 2 1/2 x 5 1/2	2 1/2	4 9/16	5 11/16	7 5/16	11/16	2	3 3/4	4 15/16	6 1/2	11/16	3 15/16	10	11 1/2	5 3/16	6 5/16	2 3/4	4 1/2	7 1/2	9 7/16	9/16
50-160-10HP	2 x 2 1/2 x 6 3/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	2	3 3/4	4 15/16	6 1/2	11/16	3 15/16	11 11/16	13 3/8	6 5/16	7 1/16	2 3/4	4 1/2	8 3/8	10 7/16	9/16
50-160-1-15HP	2 x 2 1/2 x 6 9/16	2 1/2	4 9/16	5 11/16	7 5/16	11/16	2	3 3/4	4 15/16	6 1/2	11/16	3 15/16	11 11/16	13 3/8	6 5/16	7 1/16	2 3/4	4 1/2	8 3/8	10 7/16	9/16

Exploded View

3U

3UB Type 1



Part No.	Part Name	Material	No. for 1 Unit
001	Casing	304L Stainless	1
011	Casing cover	304L Stainless	1
018	Bracket	Cast Iron	1
021	Impeller (3U)	304L Stainless	1
021	Impeller (3UB)	Bronze	1
039	Key	304L Stainless	1
041	Shaft sleeve	304L Stainless	1
111	Mechanical seal	—	1
115	O-Ring	Viton	1
117-1	Gasket	Nylon	1
117-2	Gasket	Nylon	1
117-3	Gasket	Nylon	1
125	Impeller Bolt	304L Stainless	1
160	Motor support (not shown)	Steel	1 set
212	Plug	304L Stainless	1
800	Motor	—	1
	Suction Flange Gasket	Viton	1
	Discharge Flange Gasket	Viton	1



Model 3UB

EBARA Stainless Steel Centrifugal Pumps

Exploded view

Model 3U 65 Type 3

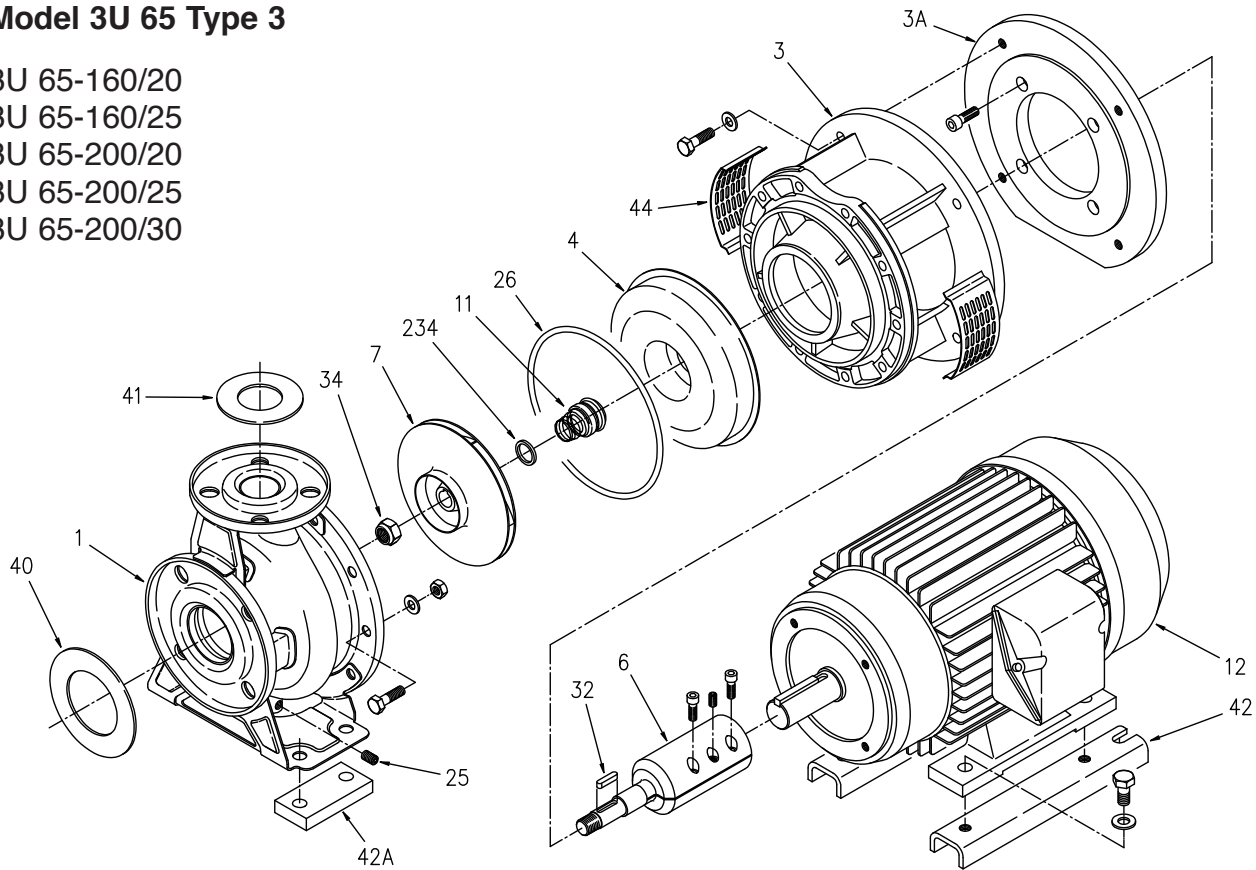
3U 65-160/20

3U 65-160/25

3U 65-200/20

3U 65-200/25

3U 65-200/30



Part No.	Part Name	Material	No. for 1 Unit
001	Casing	304L Stainless	1
003	Motor bracket	Cast iron	1
003A	Adapter ring	Cast iron	1
004	Casing cover	304L Stainless	1
006	Coupling	Steel / Stainless steel	1
007	Impeller	Bronze	1
011	Mechanical seal		1
012	Motor		1
025	Drain plug	304L Stainless	1
026	O-ring	Viton	1
032	Key	304L Stainless	1
034	Impeller nut	Stainless / Nylon	1
040	Flange Gasket	EPDM	2
041	Flange Gasket	EPDM	2
042	Motor support	Steel	2
042A	Casing support (65-160 25HP only)	Steel	2
044	Coupling guard	Stainless Steel	2
234	Lip seal	304L Stainless	1





AM-Q

Model 3U

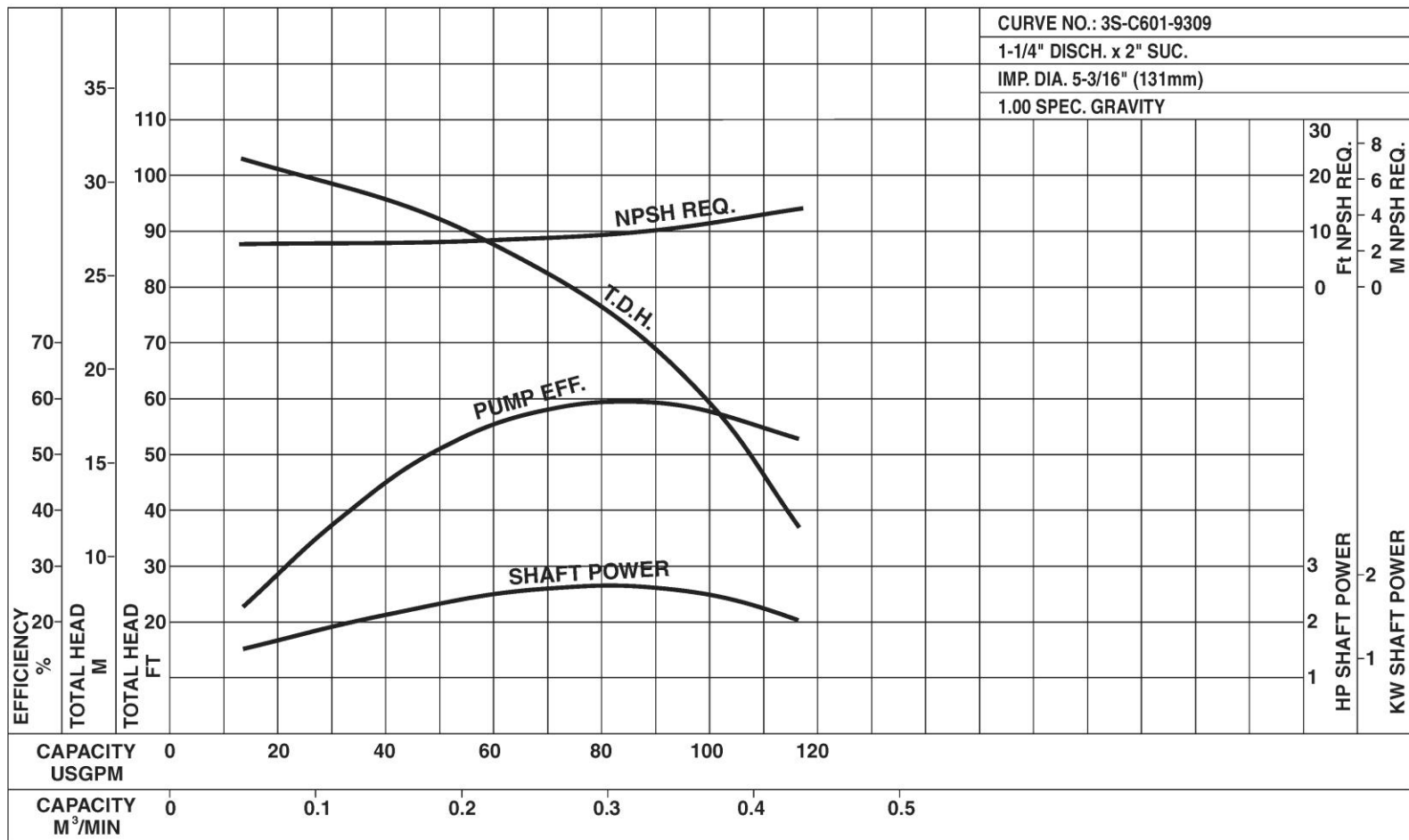
EBARA Stainless Steel Centrifugal Pumps

Performance Curves

3U 32-125-3HP

Synchronous Speed: 3450 RPM

Size: 1 1/4 x 2 x 5 3/16





AM-80V-1

Model 3U

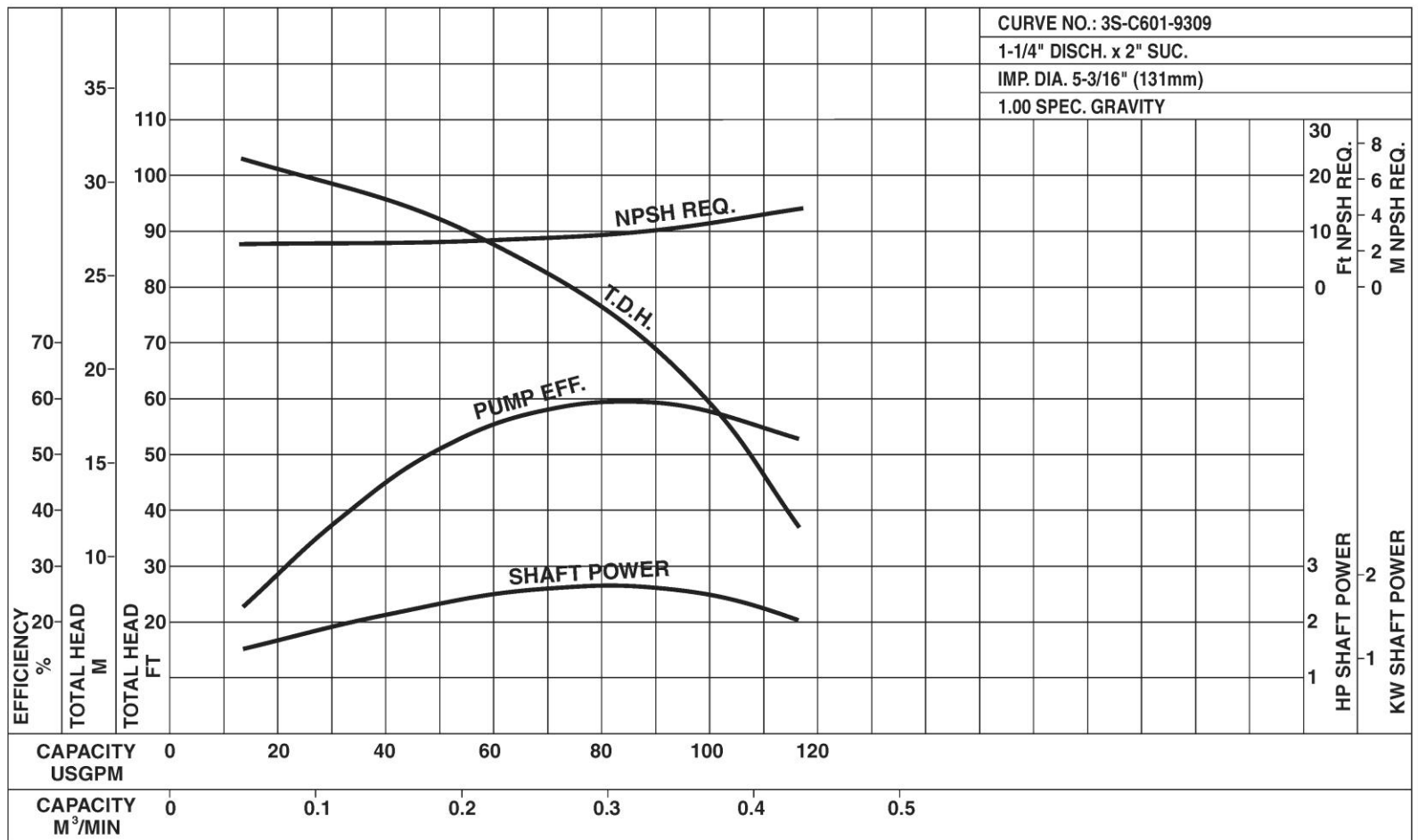
EBARA Stainless Steel Centrifugal Pumps

Performance Curves

3U 32-125-3HP

Synchronous Speed: 3450 RPM

Size: 1 1/4 x 2 x 5 3/16





AM-80V-3

Model 3U

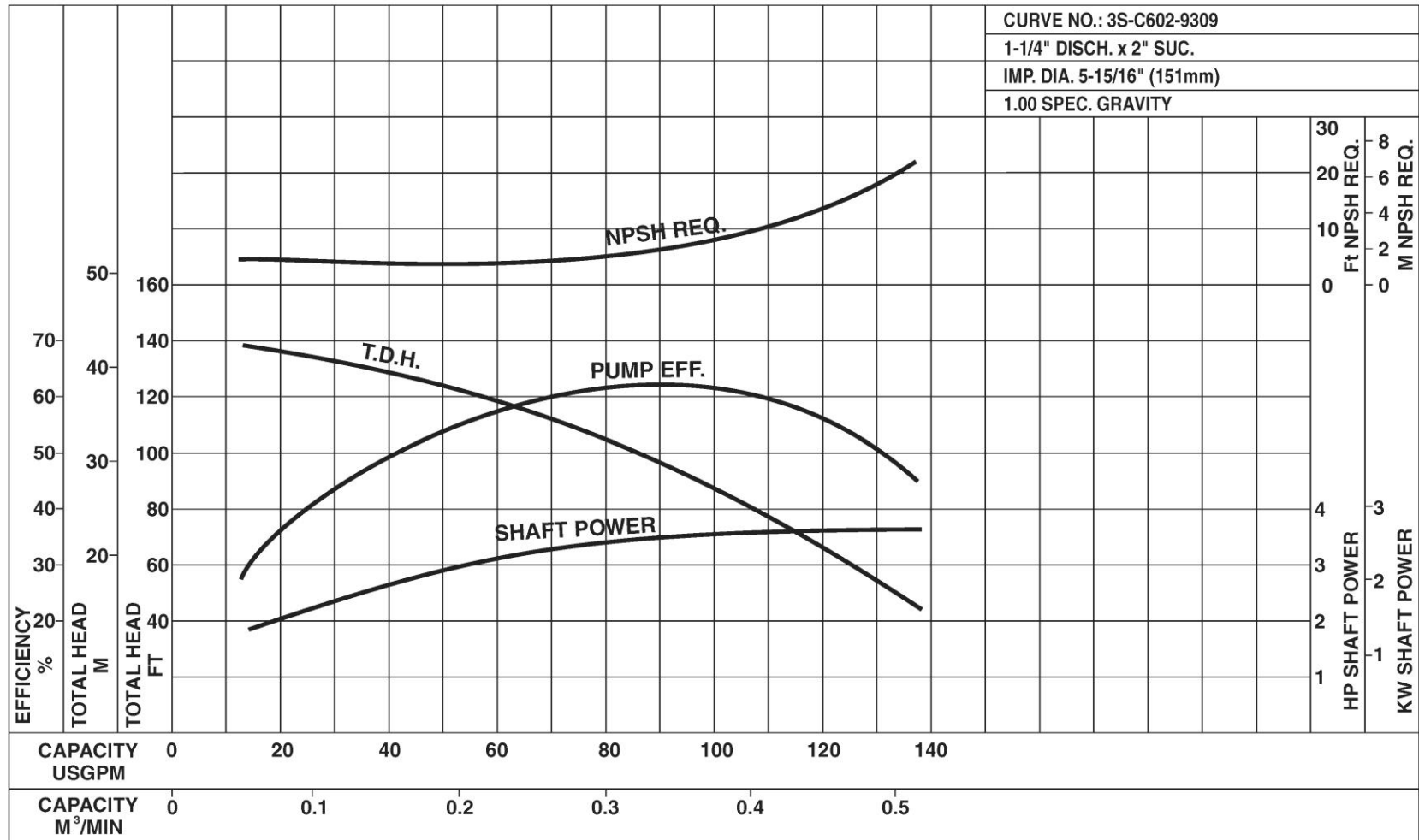
EBARA Stainless Steel Centrifugal Pumps

Performance Curves

3U 32-160A-5HP

Synchronous Speed: 3450 RPM

Size: 1 1/4 x 2 x 5 15/16





AM-100V

Model 3U

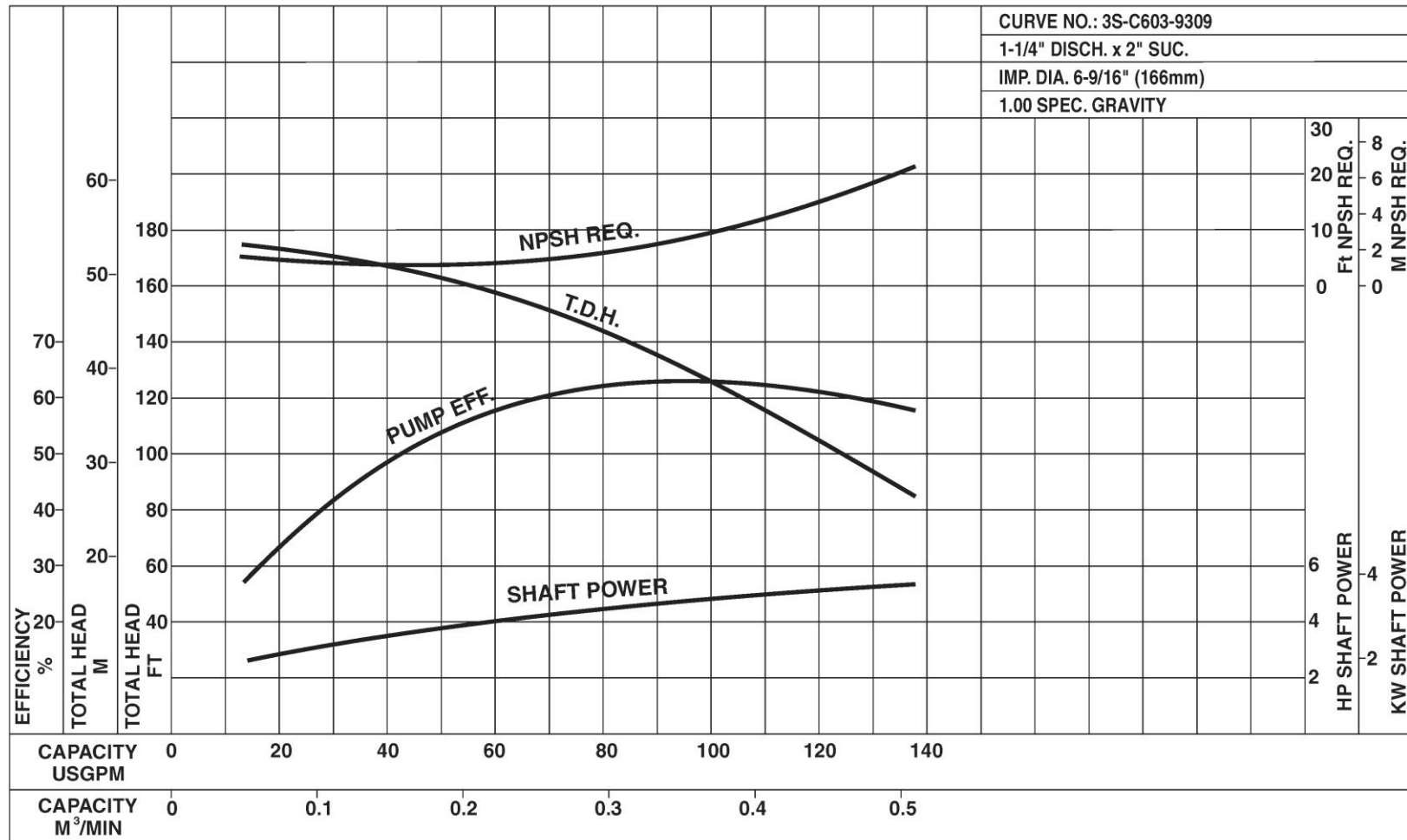
EBARA Stainless Steel Centrifugal Pumps

Performance Curves

3U 32-160B-5HP

Synchronous Speed: 3450 RPM

Size: 1¹/₄ x 2 x 6⁹/₁₆



AquaMark AM-150V

3U/3UB

Model 3U

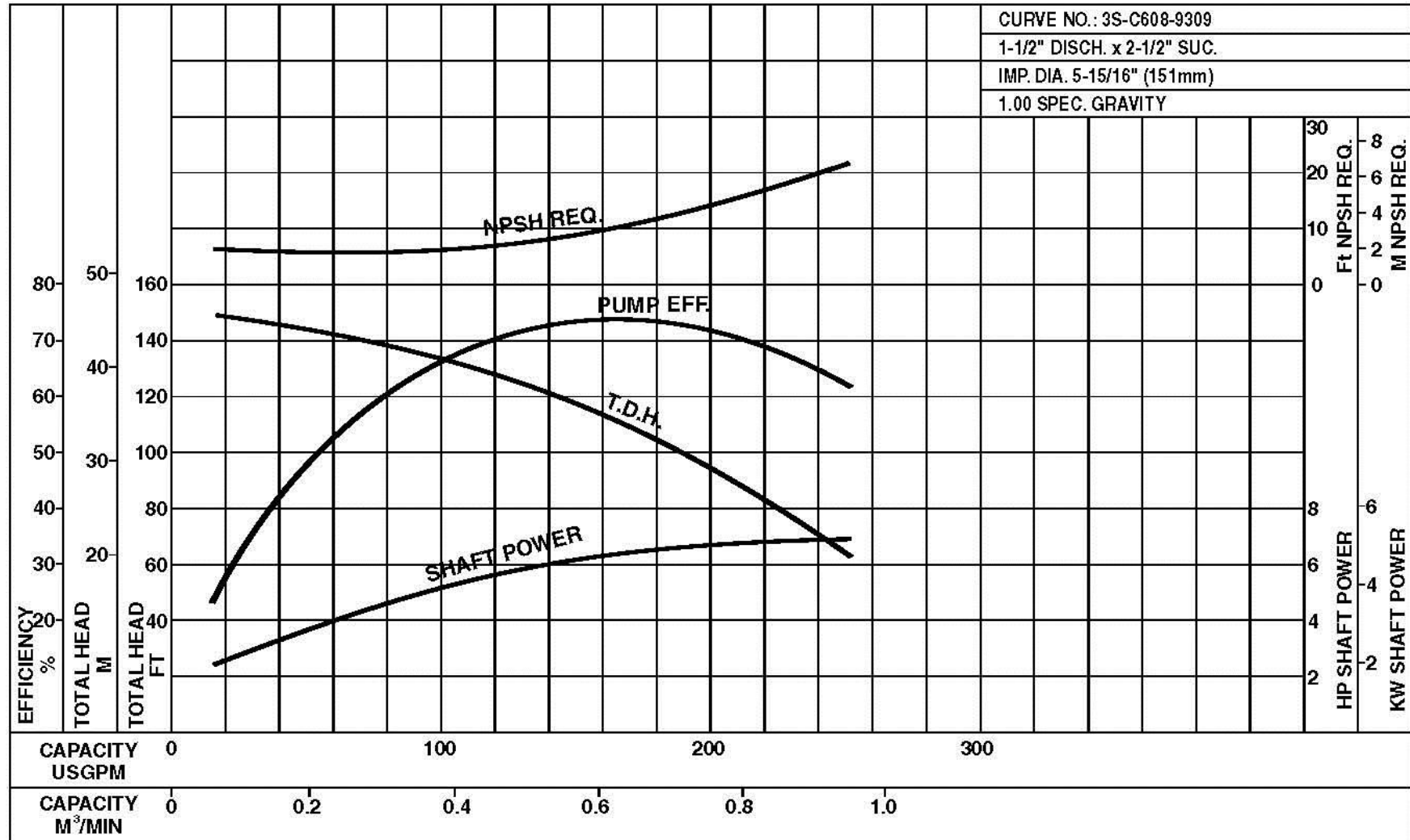
EBARA Stainless Steel Centrifugal Pumps

Performance Curves

3U 40-160-7¹/₂HP

Synchronous Speed: 3450 RPM

Size: 1¹/₂ x 2¹/₂ x 5¹⁵/₁₆



TWO YEAR LIMITED WARRANTY

H.O.K. Sales, Incorporated/AquaMark (referred to as Manufacturer hereinafter) warrants all of its pressure boosting systems (Product) for two years from date of purchase, to be free of defects in materials and workmanship, provided they are installed in accordance with factory specifications (as specified in the "INSTALLATION, OPERATION & MAINTENANCE manual") for each individual system.

This warranty applies to the original purchaser (referred to as Purchaser hereinafter) and subsequent owners. By accepting and keeping this product Purchaser agrees to all the warranty terms and limitations of liability described herein. Manufacturer warrants only to original installation location and only when installed, operated and maintained in accordance with printed instructions accompanying the Product.

All claims must be made within the two (2) year warranty time period measured from the time the Product was purchased.

All warranty claims will be handled as follows: Any defect in material or workmanship will be repaired or, at Manufacturer's option, corrected with new or used replacement parts, or Products, at Manufacturers expense. If after a reasonable number of attempts to remedy the problem, it cannot be repaired so the product will conform to this warranty, a new replacement component or entire Product will be supplied, at the Manufacturer's option. Under no circumstance will any claims for more than the original cost of the Product be accepted, including labor.

This warranty does not cover any failure or problem unless it is caused by a defect in material or workmanship and in addition shall not apply to the following:

- If the product is not correctly installed, operated, repaired, and or maintained as described in the INSTALLATION, OPERATION, & MAINTANANCE manual.
- If any failure or malfunction results from abuse, i.e., freezing, improper or negligent handling, shipping, storage, accident, lightning, flood or environmental conditions.
- If the product is used outside the U.S.A.
- Warranty does not cover any labor costs, shipping and delivery expenses, administrative fees or any costs related to removing or reinstalling the Product.
- If any repair and/or replacement costs are not authorized by Manufacturer or authorized representatives in advance.

Each system has specific electrical and unrestricted piping supply size requirements and they are critical to the application of the one year warranty. See INSTALLATION, OPERATION & MAINTENANCE manual for details.

The remedies in the Warranty are the Purchaser's exclusive remedies. In no circumstances will the Manufacturer or its authorized representatives be liable for more than, and the Purchasers remedies shall not exceed, the price paid for the Product. In no case, shall the Manufacturer or it's authorized representatives be liable for any special damage to property, loss of profits, loss of savings or revenue, loss of use of the Product or any associated equipment, facilities, building or services, downtime, and claims of third parties including customers.

Any covered Warranty service must be authorized by the Manufacturer. Contact the person from whom you purchased the Product, who must receive authorization from the Manufacturer. Before the Manufacturer or an authorized representative determines to provide any replacement parts or Product, it may as a pre-condition to making such a determination, required that the Warranty claimant ship the Product, postage prepaid, to the Manufacturer or an authorized Manufacturer's representative and provide proof of purchase evidenced by the original sales receipt.

In case of replacement of a Product or any component part, the Manufacturer reserves the right to make changes in the design, construction, or material of the substitute components or Products, which shall be subject to all the terms and limitations of the Warranty, except that the applicable warranty period shall be reduced by the amount of time the warranty claimant owned the Product prior to submitting notification of the warranty claim.

AquaMark

245 West Roosevelt Road, Building 12, Suite 83

West Chicago, IL 60185

Tel: (800) 323-4498

Fax: (888) 246-5725