



**SUBMITTAL**  
DIVISION: 22  
NO.: 221116-02

**Title:**

Domestic Water - Domestic Water Booster Pump Product Data

**PRIORITY:** High

**Division:** 22

**No.:** 221116-02

**Contract No.:** E6L38

**LEAD Project No.:** 18-04

**DESIGN TEAM REVIEW**

Rev.	Description	Received	From	Sent	To	Returned	Forwarded	Status	Days Held
A	Domestic Water - Domestic Water Booster Pump Product Data	13-Nov-19	KL	14-Nov-19	APCTE			OUT FOR REVIEW	

**FDOT REVIEW**

Rev.	Description	Received	From	Sent	To	Returned	Forwarded	Status	Days Held
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Review is for general conformance with the Contract Documents. Comments shall not be construed as relieving the supplier/subcontractor from strict compliance with such documents. The supplier/subcontractor remain responsible for details and accuracy, for complying with standards of the industry regarding fabrication, assembly, erection, and installation procedures.

☒ REVIEWED ☐ REVISED & RESUBMIT  
☐ REVIEWED AS NOTED ☐ REJECTED

By: Joanna Flores

Date: 11/14/2019

**Walker**

Project Submittal Number: \_\_\_\_\_

- ☒ No Exception Taken ☐ Make Corrections Noted  
Resubmittal not Required  
☐ Rejected ☐ Revise and Resubmit  
☐ Submittal Not Required  
No Review Performed

Drawings have been reviewed for design intent and general compliance with the information given in the contract documents. Deviations from contract documents shall be clearly identified and are not reviewed nor accepted unless identified. Contractor is responsible for dimensions, quantities, fabrication, processes, and techniques of construction, coordination of its work with that of all other trades and satisfactory performance of its work.

Date: 11/15/2019 By: LFauss

**KL RECEIVED 11/15/2019**



# Submittal #114.0 22 1116G (PGTH) - DOMESTIC WATER PIPING (WALKER)

Kaufman Lynn Construction, Inc.  
3185 S. Congress Avenue  
Delray Beach, Florida 33445  
Phone: 561-361-6700  
Fax: 561-361-6979

**Project:** 1074 - Golden Glades Multimodal Transportation Facility  
SW Quadrant of the Golden Glades Interchange Miami-Dade  
Florida

## Domestic Water - Domestic Water Booster Pump Product Data

<b>SPEC SECTION:</b>	22 1116G (PGTH) - DOMESTIC WATER PIPING (WALKER)	<b>SUBMITTAL MANAGER:</b>	Tom Reeder (Kaufman Lynn Construction, Inc.)
<b>STATUS:</b>	Open	<b>DATE CREATED:</b>	11/13/2019
<b>ISSUE DATE:</b>	11/13/2019	<b>REVISION:</b>	0
<b>RESPONSIBLE CONTRACTOR:</b>	Integ Miami LLC	<b>RECEIVED FROM:</b>	Eduardo Pereira
<b>RECEIVED DATE:</b>	10/14/2019	<b>SUBMIT BY:</b>	12/2/2019
<b>FINAL DUE DATE:</b>	11/21/2019	<b>LOCATION:</b>	
<b>SUB JOB:</b>		<b>COST CODE:</b>	
		<b>TYPE:</b>	Product Data

**APPROVERS:** Mario Rojas (A & P Consulting Transportation Engineers Corp.)

**BALL IN COURT:**  
Joanna Flores (Lead Engineering Contractors)

**DISTRIBUTION:**  
Carlos Teijeiro (Kaufman Lynn Construction, Inc.) , Tom Reeder (Kaufman Lynn Construction, Inc.) , Leonor Flores (Kaufman Lynn Construction, Inc.) , Joanna Flores (Lead Engineering Contractors) , Albert Acevedo (Kaufman Lynn Construction, Inc.)

**DESCRIPTION:**

**ATTACHMENTS:**  
[#22 1116G-2 Domestic Water - Domestic Water Booster Controller\\_Pump - Submitted.pdf](#)

## SUBMITTAL WORKFLOW

NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
Joanna Flores	Submitter		11/14/2019		Pending		
Mario Rojas	Approver		11/21/2019		Pending		

BY

DATE

COPIES TO

**Submittal # #48****KL SUBMITTAL #22 1116G-2**

FO-INTEG-PROJECT-PO0001-REV.03 Gestión de Control de Calidad / Quality Management

## Information

**Status:** In Review**Task/tareas condition****Legend**

Overdue



Issue



On Time



Delayed Start



Inactive

**Project (CDC) - Empresa/ COMPANY:** Integ Miami LLC

**Project (CDC) - CDC ( Centro de Costo )** I-PLUMBING-GGMFT-021919

**Project (CDC) - Customer Name** Kaufman Lynn Construction

**Project (CDC) - Ubicacion** 15890 Northwest 7th Avenue, Miami, Florida 33169

## Submittal

**Title:** DOMESTIC WATER BOOSTER

**Spec Section:** ~~SECTION 22-1005~~  
SECTION 22 1116

**Description:** DOMESTIC WATER BOOSTER**Submittal Type :** Product Data**Submitted On:** 16-10-2019**Responsible Contractor:** Integ Miami LLC**Submittal Manager:** Eduardo Pereira**Issue Date:** 18-10-2019 12:00 AM**Final Due Date:** 25-10-2019**Lead Time:** 5**Ball in Court:** Kaufman

## Attachment

**Attachment:** 48 Submittal Simplex Booster Controller.pdf**Linked Drawings:****Notes:**

## Stamp Info

**Stamp Date:** 14-10-2019**Other Name:**
☐ **Show Stamp on PDF:**

## Submittal logs

Add Submittal LOG

**KAUFMAN LYNN CONSTRUCTION - SUBMITTAL**  
Project No. 1074 Submittal No. #22 1116G-2



Reviewed

Make Corrections Noted

Submit Specified Item

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Subcontractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques sequences of construction, coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 11/13/2019 BY: T. REEDER



Revision #	Date Submittal REV	Attachement Document:	Comments:
No submittal logs found			

## Submittal Approval

☐ Approval

Name/Title:

Signature \_\_\_\_\_

Created today at 8:06 AM (PDT). Last updated by [pma@integca.com](mailto:pma@integca.com), PMA today at 2:52 PM (PDT). Owned by [pma@integca.com](mailto:pma@integca.com), PMA.

### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-2

☒ Reviewed ☐ Make Corrections Noted

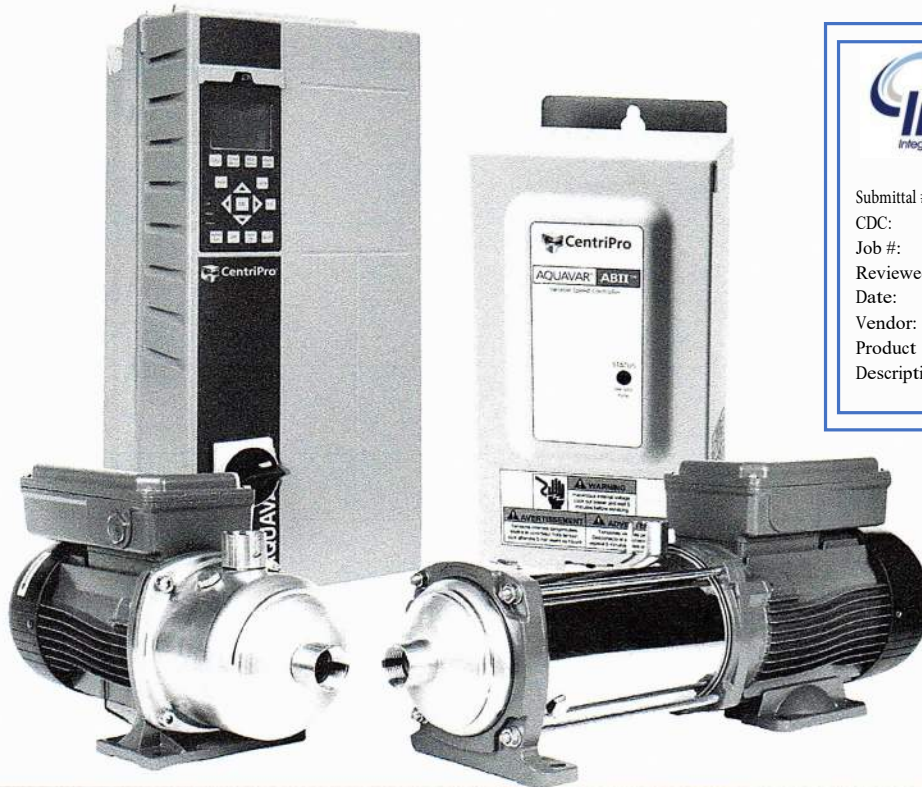
\_\_\_\_\_. Submit Specified Item

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DATE: 11/13/2019 BY: T. REEDER

## TECHNICAL BROCHURE

BAQUAeABII R4



Reviewed for general conformance to the contract documents. This review does relieve the vendor of the responsibility of making the work conform to the plans and the **FDOT Design Standards**.

Submittal #:	48
CDC:	I-PLUMBING-GGTMF-021919
Job #:	424
Reviewed by:	EDUARDO PEREIRA
Date:	10/14/2019
Vendor:	REVISION
Product	DOMESTIC WATER BOOSTER
Description:	

\* Available up to 100 GPM systems

# Aquavar e-ABII

## VARIABLE SPEED CONSTANT PRESSURE SYSTEMS

- 1 HP thru 5 HP - Pressure Booster Packages
- 1AB2 and 2AB2 Prewired Pump/Controller Kits

### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-2

Reviewed ☒ Make Corrections Noted ☐

Submit Specified Item ☐

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DATE: 11/13/2019 BY: T. REEDER

 **CentriPro**  
a xylem brand



## Residential and Commercial Water Systems

KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-2

Reviewed Make Corrections Noted

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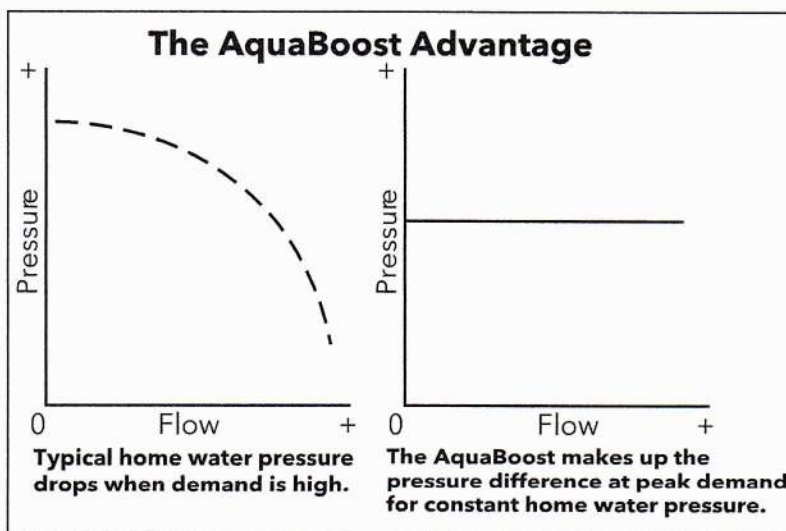
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DATE: 11/13/2019 BY: T. REEDER

### FEATURES

The e-AB2 variable speed pump controller and complete booster package kits, provide an economical answer for municipal water district customers with low water pressure. Both domestic and light commercial applications can benefit. As water use increases, the controller changes pump speed to maintain pressure. Large supply tanks are eliminated and less wear and tear on your pump and motor.

Think of it as "Cruise Control" for your pump! The e-AB2 is available with a range of flow rates to handle homes with up to four baths, irrigation, filtration and fire suppression systems. Light commercial applications up to 100 GPM at 55 PSI boost. The e-AB2 is available as either a separate controller or as part of a complete pump package with everything you need to plumb it to a domestic water line.



1 HP and 2 HP Controller



3 HP and 5 HP Controller

### AQUAVAR IPC CONTROLLER PROVIDES CONSTANT PRESSURE CONTROL PLUS MORE FOR THE 3 HP AND 5 HP MOTOR SIZES (REPLACES 3AB2 AND 5AB2 CONTROLLER)

#### NEW FEATURES

- Programmed to motor electrical characteristics; just select set pressure.
- Application specific "Start-Up Genie" guides you through quick and easy commissioning
- Removable, graphical control panel with display
- Alarm Log records the last 5 alarms
- Hand on, Auto on, and Off buttons for easy pump operation at the keypad - No toggling between local and remote operation!
- Capable of controlling up to 2 fixed speed pumps, with one standard drive
- Duplex variable speed pumping control with auto lead/lag and alternate

## Residential and Commercial Water Systems

### e-AB2 HYDRAULIC SELECTION (e-HM and MCS)

FEET	PSI BOOST	GPM									
		5-10	20	30	40	50	60	70	80	90	100
46	20	1	4	4	9	9	9	9	9	14	14
58	25	1	4	4	9	9	9	9	14	14	14
69	30	1	4	4	10	10	14	14	14	14	14
81	35	1	4	4	10	10	14	14	14	14	14
92	40	2	4	5	11	11	14	14	14	14	14
104	45	2	5	5	11	11	14	14	14	14	14
116	50	2	5	5	11	11	14	14	14	14	15
127	55	2	5	6	11	11	14	14	15	15	15
139	60	3	6	6	12	12	15	15	15	15	
150	65	3	6	7	12	12	15	15	15		
162	70	3	6	7	12	12	15	15	15		
173	75	3	7	8	12	12	13				
185	80	3	7	8	12	13	13				

### e-AB2 CONFIGURATIONS (e-HM and MCS)

Selection	Part Number	Description
1	1151AB21HM04 1AB21HM04	115v 1HP 1" disch, 1" suct V6P N3R wired 230v 1HP 1" disch, 1" suct V6P N3R wired
2	1151AB21HM06 1AB21HM06	115v 1HP 1" disch, 1" suct V6P N3R wired 230v 1HP 1" disch, 1" suct V6P N3R wired
3	2AB23HM06	230v 2HP 1" disch, 1" suct V6P N3R wired
4	1151AB25HM03 1AB25HM03	115v 1HP 1" disch, 1.25" suct V15P N3R wired 230v 1HP 1" disch, 1.25" suct V15P N3R wired
5	2AB25HM04	230v 2HP 1" disch, 1.25" suct V15P N3R wired
6	2AB25HM05	230v 2HP 1" disch, 1.25" suct V15P N3R wired
7	2AB25HM06	230v 2HP 1" disch, 1.25" suct V15P N3R wired
8	3AVN35HM07 3AVN15HM07	230v 3HP 1" disch, 1.25" suct IPC-N3R 230v 3HP 1" disch, 1.25" suct IPC-N1
9	2AB22MS1G2D2	230v 2HP 1.25" disch, 1.5" suct V15P N3R wired
10	2AB210HM02	230v 2HP 1.25" disch, 1.5" suct V15P N3R wired
11	3AVN310HM03 3AVN110HM03	230v 3HP 1.25" disch, 1.5" suct IPC-N3R 230v 3HP 1.25" disch, 1.5" suct IPC-N1
12	5AVN310HM04 5AVN110HM04	230v 5HP 1.25" disch, 1.5" suct IPC-N3R 230v 5HP 1.25" disch, 1.5" suct IPC-N1
13	5AVN310HM05 5AVN110HM05	230v 5HP 1.25" disch, 1.5" suct IPC-N3R 230v 5HP 1.25" disch, 1.5" suct IPC-N1
14	5AVN32MS1J2K2 5AVN12MS1J2K2	230v 5HP 1.25" disch, 1.5" suct IPC-N3R 230v 5HP 1.25" disch, 1.5" suct IPC-N1
15	5AVN315HM03 5AVN115HM03	230v 5HP 1.5" disch, 2" suct IPC-N3R 230v 5HP 1.5" disch, 2" suct IPC-N1

#### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

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DATE: 11/13/2019 BY: T. REEDER

\* 1 HP available in 115 volt input models. Items 8, 11 thru 15 do not include tank. Recommend bladder tank, sized to 20% of pump flow (gpm). Pressure Transducer supplied with all configurations.

**NOTE:** PSI is boosting pressure, NOT total system pressure.



## Residential and Commercial Water Systems

### INPUT AND OUTPUT POWER (VOLTAGE AND PHASE)

- All 1AB2 and 2AB2 require single-phase input power
  - All will work on 1Ø, 208-230V input power
  - 1151AB2's will work on 1Ø, 115V input power
- All controllers output three-phase, 230 Volt power
- All pumps are equipped with three-phase motors

#### 1151AB21HM04

- 115v SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 4 stg) and Tank (V6P) included
- Wall mount set; Transducer; pre-wired

#### 1AB21HM04

- 230v SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 4 stg) and Tank (V6P) included
- Wall mount set; Transducer; pre-wired

#### 1151AB21HM06

- 115V SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 6 stg) and Tank (V6P) included
- Wall mount set; Transducer; pre-wired

#### 1AB21HM06

- 230v SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 6 stg) and Tank (V6P) included
- Wall mount set; Transducer; pre-wired

#### 2AB23HM06

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (e-HM 6 stg) and Tank (V6P) included
- Wall mount set; Transducer; pre-wired

#### 1151AB25HM03

- 115V SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 3 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 1AB25HM03

- 230v SINGLE PHASE INPUT
- 1 HP variable speed controller (1AB2); Nema 3R
- Pump (e-HM 3 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 2AB25HM04

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (e-HM 4 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 2AB25HM05

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (e-HM 5 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 2AB25HM06

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (e-HM 6 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 3AVN35HM07

- 230v SINGLE PHASE INPUT
- 3 HP variable speed controller (Aquavar IPC); Nema 3R
- Pump (e-HM 7 stg) and Transducer (included)
- Tank (not included) and wiring (by others)

#### 3AVN15HM07

- 230v SINGLE PHASE INPUT
- 3 HP variable speed controller (Aquavar IPC); Nema 1
- Pump (e-HM 7 stg) and Transducer (included)
- Tank (not included) and wiring (by others)

#### 2AB22MS1G2D2

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (MCS) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 2AB210HM02

- 230v SINGLE PHASE INPUT
- 2 HP variable speed controller (2AB2); Nema 3R
- Pump (e-HM 2 stg) and Tank (V15P) included
- Wall mount set; Transducer; pre-wired

#### 3AVN310HM03

- 230v SINGLE PHASE INPUT
- 3 HP variable speed controller (Aquavar IPC); Nema 3R
- Pump (e-HM 3 stg) and Transducer (included)
- Tank (not included) and wiring (by others)

#### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-2

Reviewed \_\_\_\_\_ Make Corrections Noted \_\_\_\_\_

Submit Specified Item \_\_\_\_\_

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DATE: 11/13/2019 BY: T. REEDER



## Residential and Commercial Water Systems

### DIMENSIONS (For Reference Only - Do not use for construction purposes)

#### e-HM PUMPS

**Capacities** – to 12 GPM (1HM)   
to 23 GPM (3HM)  
to 45 GPM (5HM)

**Rotation** – Right hand clockwise,  
viewed from motor end

**Materials** – 316L stainless steel for all liquid  
handling components

**Motor** – 1 HP, TEFC, Three Phase, 208-230/460V  
– 1.5 HP, TEFC, Three Phase, 208-230/460V  
– 2 HP, TEFC, Three Phase, 208-230/460V

**Pipe Connections** – 1 x 1 NPT (1HM/3HM)  
– 1 x 1 1/4 NPT (5HM)

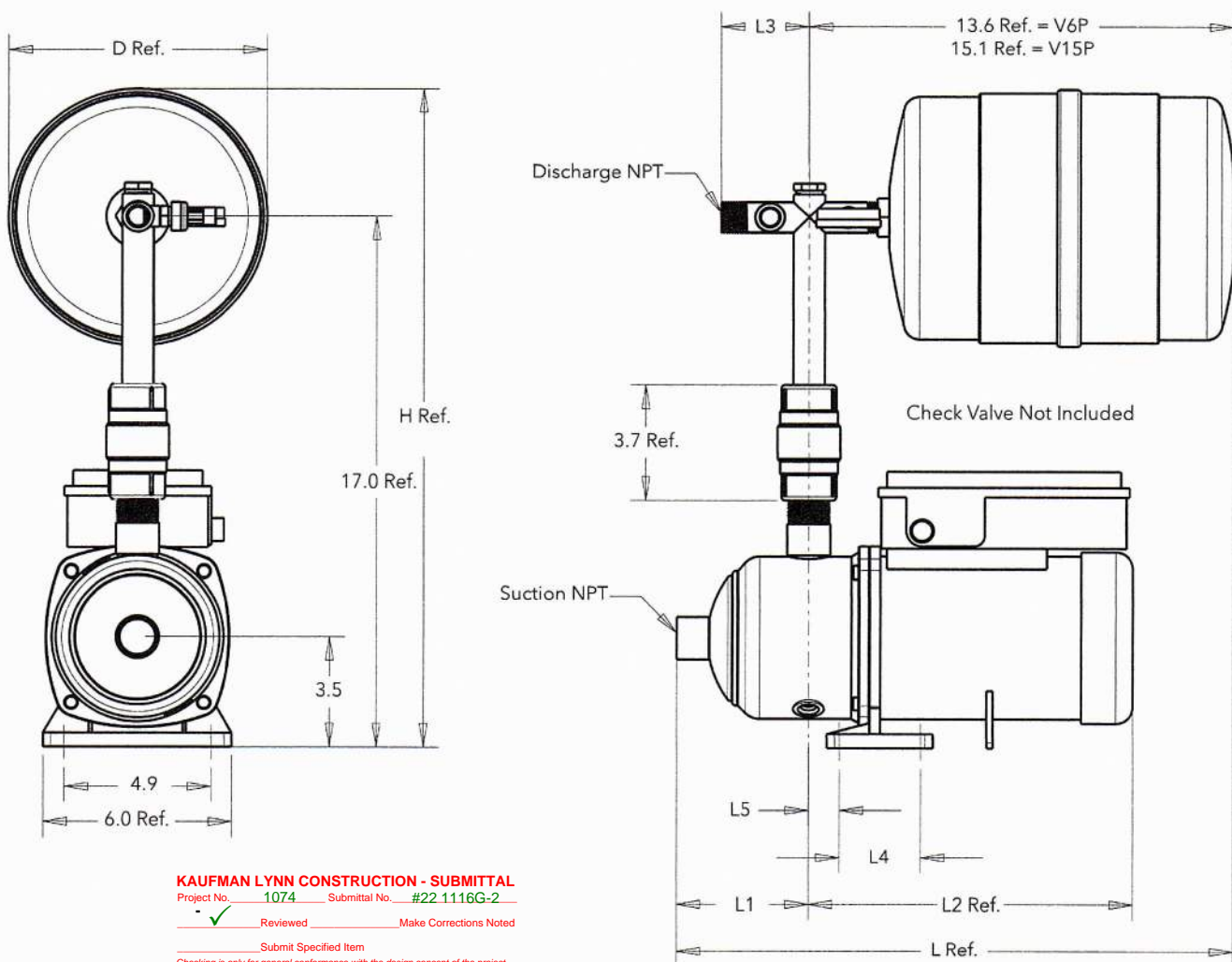
**Maximum Temperature of Water** – 120° F

**NOTE:** Tank Liquid Temperature Limit is 120° F  
Pump Liquid Temperature Limit is 212° F

**Maximum System Working Pressure** – 145 psi

**Seal** – Carbon / Silicon Carbide / EPR

Overload protection, starters, heaters not required. Dimensions are in inches.



#### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

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Reviewed Make Corrections Noted

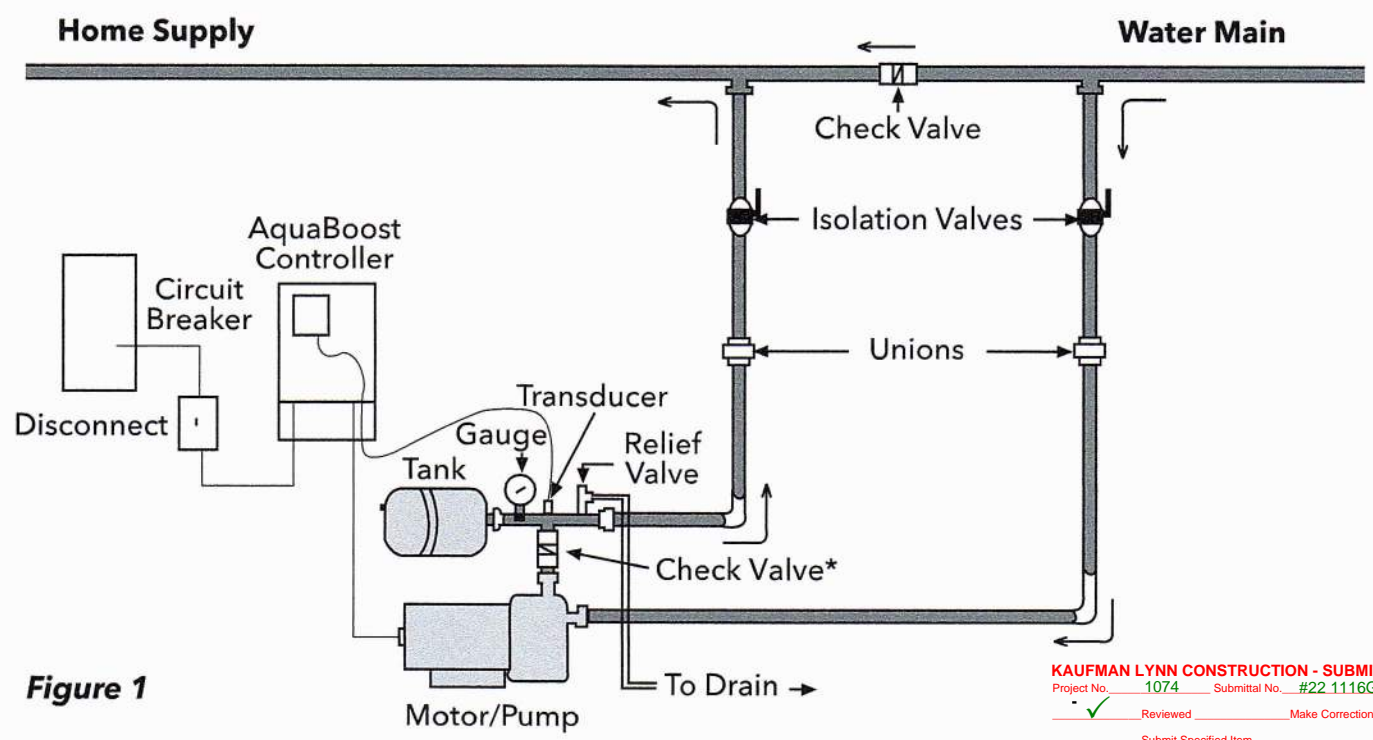
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DATE: 11/13/2019 BY: T. REEDER

# Residential and Commercial Water Systems

## SUGGESTED AB2 INSTALLATION FOR MUNICIPAL WATER SYSTEM

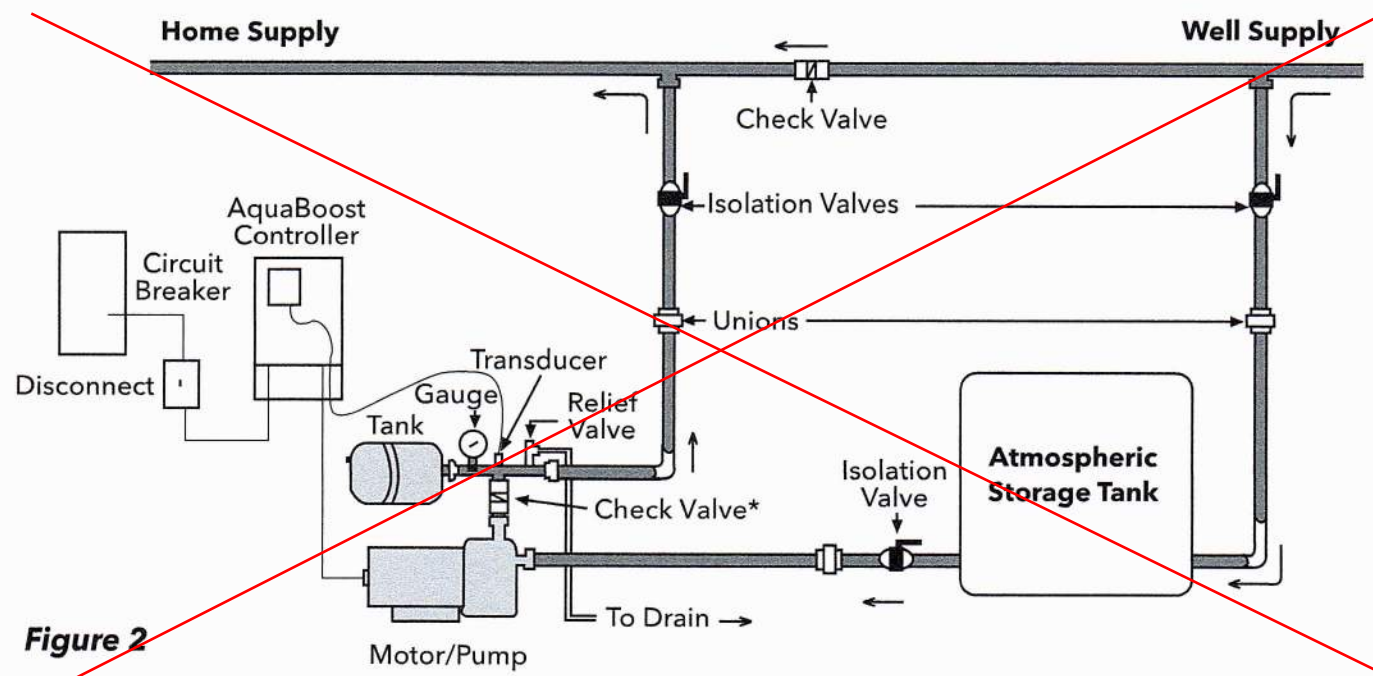


**Figure 1**

\*Check valve - provided by installer

**KAUFMAN LYNN CONSTRUCTION - SUBMITTAL**  
 Project No. 1074 Submittal No. #22 1116G-2  
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 DATE: 11/13/2019 BY: T. REEDER

## SUGGESTED AQUABOOST INSTALLATION FOR WELL PUMP SYSTEM

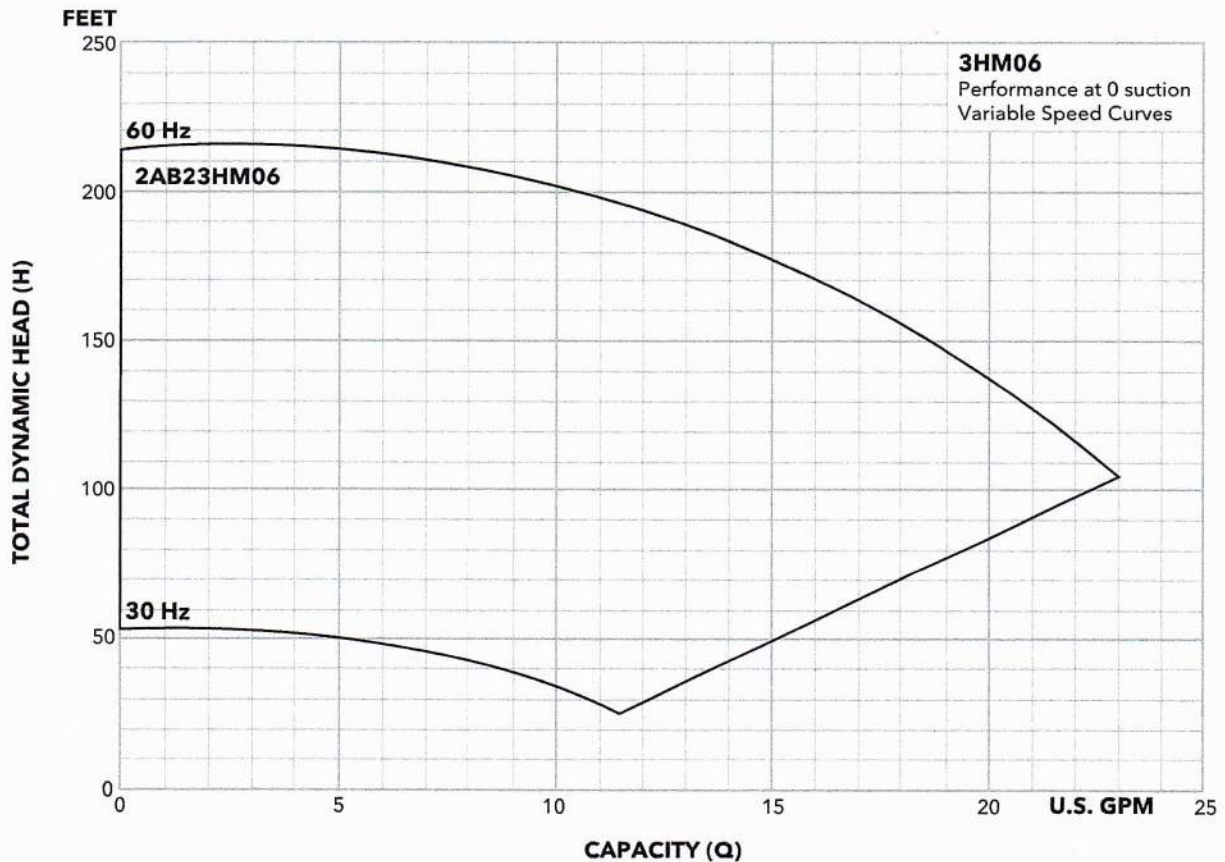
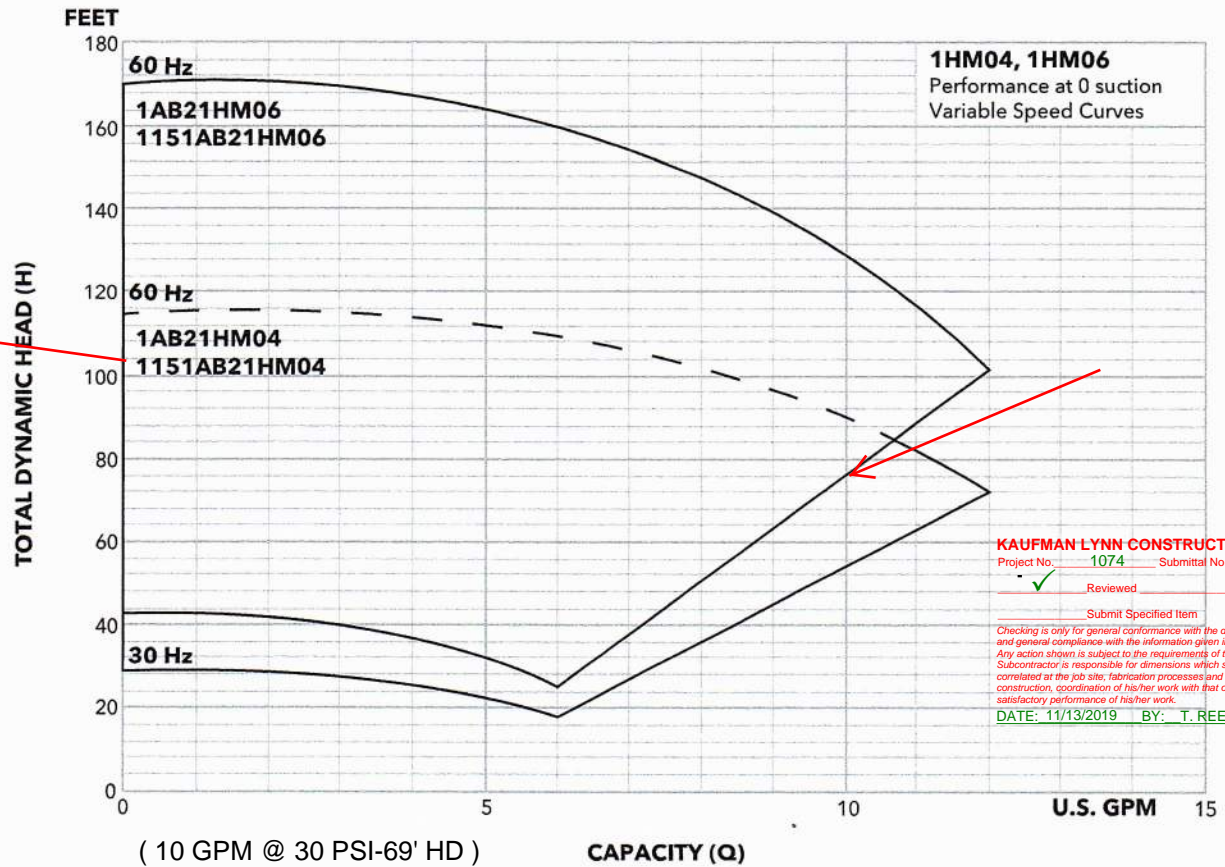


**Figure 2**

\*Check valve - provided by installer



# Residential and Commercial Water Systems





## Residential and Commercial Water Systems

### AQUAVAR ABII CONTROLLER FEATURES

**Input Power\*** – 208-230V  $\pm 15\%$ , single phase  
(controller only)

**Output Power** – Up to 230V three phase (based on  
input voltage). Motor rated for 208-230V,  $\pm 10\%$ .

**Maximum Output Current** – 4.2 amps - 1AB2 (1 HP) →  
– 6.9 amps - 2AB2 (2 HP)

**Input Controls** – Up and down buttons to set pressure.

**Signal Lights** – Power on, pump running, inverter  
stopped, pump stopped, standby, faults/errors.

**Electrical Efficiency** – Over 95% at full load

**Protection Against** – Short circuit, under voltage, over-  
load, motor temperature, dead heading, run out, suc-  
tion loss, sensor fault, bound pump, over voltage, static  
discharge. **Note:** Suction loss/run out is set for minimum  
10 psi at discharge!

**Ambient Temperature** – 34° F to 104° F

**Maximum Humidity** – 95% at 104° F, non-condensing

**Air Pollution** – Avoid mounting in areas with excessive  
dust, acids, corrosives and salts.

**Approvals** –  (Listing on Controller Only)

**Controller Enclosure** – Outdoor, NEMA 3R, IP 43  
(Rain-tight)

**Mounting** – Wall mount with mounting hardware.

**Cooling** – Convection with cast aluminum heat sink.  
– 3 HP, 5 HP with temperature fan

**Transducer** – 0.5 - 4.5 VDC with 5 VDC power supply,  
100 psi range, 10-foot 3-wire shielded cable.

**Input Wire** – 5 feet of 14, 10 or 8 gauge cable. Depend-  
ing on size, cable is pre-wired to controller and motor  
conduit box.

**Output Wire** – 10 feet of 14 gauge cable. Cable is pre-  
wired to controller and pump motor (when provided).

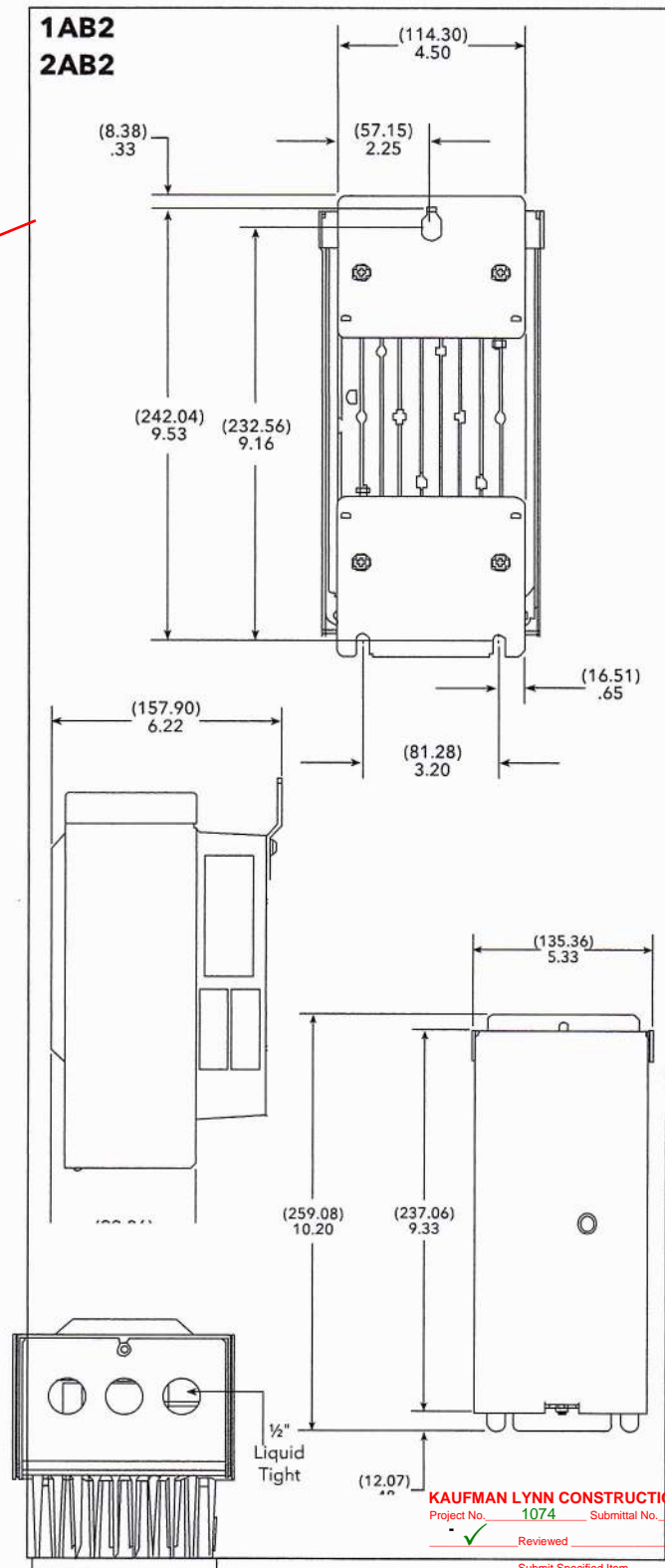
\*Low input voltage may affect motor operation.

### PRESSURE RANGE

Nominal Range – Field adjustable from 20 - 85 psi, total system pressure.



**DO NOT SET REQUIRED SYSTEM PRESSURE ABOVE 85 PSI. SEVERE DAMAGE TO  
PLUMBING COULD RESULT. PLUMB RELIEF VALVE OUTSIDE OR TO A DRAIN.**



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