

## **FILTER MEDIAN**



## ESTIMATE

Margate, City of  
Calypso Cove - AFM Glass Media Exchange

Order # 208506-R1  
Date 04/11/23  
Consultant Troy Schaneman  
WQA Alex W Branning  
Fax #  
Billing Terms Net 45

### Proposed To

City of Margate  
Jessica Bono  
6199 NW 10th Street  
Parks & Rec/Comm Center  
Margate, FL 33063

### Ship To

Margate-Calypso Cove Aquatic Facility  
Jessica Bono  
6200 Royal Palm Blvd  
Margate, FL 33063

Phone: (954) 974-4566 Fax:

Courier Service  
BEST WAY

### Order Description

Media Exchange with AFM Glass for (3) Bodies of Water, (4) Filter Tanks  
Activity Pool: (2) National NFS 42", 22.5 SqFt Filters (NFS-42-A-225)  
Plunge Pool: (1) National NFS 34", 15.3 SqFt Filter (NFS-34-A-153)  
Lap Pool: (1) National NFS 42", 22.5 SqFt Filter (NFS-42-A-225)

### Order Items

Line Item Code	Description	Quantity	Unit Price	Item Total
EM E-Glass Media 42230	Activity Pool Multi-Media Package, NFS 42-225 Filter	2	1,802.86	3,605.72
Custom CES Permanent Activated AFM Glass Filter Media package with bio-resistant underbase support media, and high polish glass filter media. Filters finer and uses up to 50% less water than standard media.				
Cover Laterals by 1-2" with DWGM 2.1, and load filter to proper levels with DWGM .45 and DWGM 1.1				
EM DWGM 10005	AFM® NG Drinking Water Grade #1 Glass Media, .45 mm, 55lb bag	64		
Activated .45 mm, AFM® NG Grade #1 permanent glass filter media - used for fine filtration. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.				
NSF 61, NSF 50 certified, 55lb bags				
EM DWGM 10006	AFM® NG Drinking Water Glass Grade #2 Media, 1.1mm, 55-lb bag	10		
Activated 1.1 mm, AFM® NG Grade #2 permanent glass filter media - used for fine filtration. High purity and bioresistant with electrostatic charge for better filtration using up to 50% less water.				
NSF 61, NSF 50 certified, 55lb bag				
EM DWGM 10003	AFM® Drinking Water Glass Grade #3 Media Underbed, 2.1mm, 55-lb bag	35		
Activated 2.1 mm, AFM® Grade #3 permanent glass filter media - used as coarse underbed. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.				
NSF 61, NSF 50 certified, 55lb bags				





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<b>EM E-Glass Media 34153</b>	<b>Plunge Pool Multi-Media Package, NFS 34-153 Filter</b>	<b>1</b>	<b>1,124.72</b>	<b>1,124.72</b>
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Custom CES Permanent Activated AFM Glass Filter Media package with bio-resistant underbase support media, and high polish glass filter media. Filters finer and uses up to 50% less water than standard media.

Cover Laterals by 1-2" with DWGM 2.1, and load filter to proper levels with DWGM .45 and DWGM 1.1

EM DWGM 10005	AFM® NG Drinking Water Glass Grade #1 Media, .45 mm, 55-lb bag	20
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Activated .45 mm, AFM® NG Grade #1 permanent glass filter media - used for fine filtration. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.

NSF 61, NSF 50 certified, 55lb bags

EM DWGM 10006	AFM® NG Drinking Water Glass Grade #2 Media, 1.1mm, 55-lb bag	3
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Activated 1.1 mm, AFM® NG Grade #2 permanent glass filter media - used for fine filtration. High purity and bioresistant with electrostatic charge for better filtration using up to 50% less water.

NSF 61, NSF 50 certified, 55lb bag

EM DWGM 10003	AFM® Drinking Water Glass Grade #3 Media Underbed, 2.1mm, 55-lb bag	11
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Activated 2.1 mm, AFM® Grade #3 permanent glass filter media - used as coarse underbed. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.

NSF 61, NSF 50 certified, 55lb bags

<b>EM E-Glass Media 42230</b>	<b>Lap Pool Multi-Media Package, NFS 42-225 Filter</b>	<b>1</b>	<b>1,819.40</b>	<b>1,819.40</b>
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Custom CES Permanent Activated AFM Glass Filter Media package with bio-resistant underbase support media, and high polish glass filter media. Filters finer and uses up to 50% less water than standard media.

Cover Laterals by 1-2" with DWGM 2.1, and load filter to proper levels with DWGM .45 and DWGM 1.1

EM DWGM 10005	AFM® NG Drinking Water Glass Grade #1 Media, .45 mm, 55-lb bag	32
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Activated .45 mm, AFM® NG Grade #1 permanent glass filter media - used for fine filtration. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.

NSF 61, NSF 50 certified, 55lb bags





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**Fax #**  
**Billing Terms** Net 45

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**Fax:**

**Courier Service**

BEST WAY

EM DWGM 10006	AFM® NG Drinking Water Glass Grade #2 Media, 1.1mm, 55-lb bag	5		
Activated 1.1 mm, AFM® NG Grade #2 permanent glass filter media - used for fine filtration. High purity and bioresistant with electrostatic charge for better filtration using up to 50% less water.				
NSF 61, NSF 50 certified, 55lb bag				
EM DWGM 10003	AFM® Drinking Water Glass Grade #3 Media Underbed, 2.1mm, 55-lb bag	18		
Activated 2.1 mm, AFM® Grade #3 permanent glass filter media - used as coarse underbed. High purity and bio resistant with electrostatic charge for better filtration using up to 50% less water.				
NSF 61, NSF 50 certified, 55lb bags				
<b>EC Hardware Bundle</b>	<b>Internal Air Vent Fittings</b>	4	75.01	300.04
Hardware and Miscellaneous Materials as listed				
JF P6MC4	Compression Fitting 3/8" Comp x 1/4" MT	4		
BD ST138	Suction Line Strainer, 3/8", w/Ceramic weight	4		
Suction Line Strainer, 3/8"				
NA 2511159	Tubing, 3/8" Black, per foot	20		
Polyethylene, LLDPE, 3/8"				
NA Nemato Gasket Material	National Gasket Material, 1/2" x 5/16", Duro 60, EPDM price per ft	20		
1/2" x 5/16", Duro 60, EPDM Gasket material for Nemato National Filters & Strainers; Recommended Minimum Order Length: 5' (for 12" x 16" Manways) Requires Field Measurement, Fitting, and Adhesive; Modified material is not returnable.				
<b>EV 375-01551-AM</b>	<b>Lateral 34" Horizontal and 30" - 36" Verticals</b>	26	14.80	384.80
Lateral, 34" Horizontal Filter, Aftermarket Replacement Fits Various Nemato Filters including 30" (6 Req.) and 34" - 36" Vertical Tanks, Short (4 Req.) Also fits Kenloch FF34-XX 1 1/2 x 8-7/8" (225mm)				
<b>EV 375-01552-AM</b>	<b>Lateral Horizontal 42" Style A Horizontal and 34" - 36" Verticals</b>	44	15.22	669.68
Lateral, 42" Horizontal Filter, Aftermarket Replacement Fits Various Nemato Filters including 34" and 36" Vertical Tanks (Long)				





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<b>CS SRECHARGE</b>	<b>Confined Space Surcharge</b>	<b>4</b>	<b>500.00</b>	<b>2,000.00</b>
<b>CB CES Media Exchange</b>	<b>CES Media Exchange Support Site Services</b>	<b>1</b>	<b>3,850.00</b>	<b>3,850.00</b>

*Support Services based on completion of all work in single work day. Additional trips to billed based on-site and travel hours.*

CES Media Exchange Support Site Services includes:

Supervision of Sand Removal, Internal inspection of the Filter tanks, replacement of laterals if needed, replacement of filter air relief, install manway gasket, supervision of sand addition, and filter start-up.

Media Installation and Parts are not included

### Additional Information

Shipping is estimated,  
Removal and Disposal of existing filter Sand and installation of Glass Media are not included.  
Does not include any services, repairs, or parts not listed in this estimate.

Please click link below to digitally accept this proposal

Proposal Acceptance

<b>Subtotal</b>	<b>13,754.36</b>
<b>Adjustment</b>	<b>0.00</b>
<b>Total</b>	<b>13,754.36</b>
<b>Shipping</b>	<b>1,265.00</b>
<b>Tax</b>	<b>0.00</b>
<b>Grand Total</b>	<b>15,019.36</b>
<b>Payments</b>	<b>0.00</b>
<b>Payment Due</b>	<b>0.00</b>

**Signature**

**Date**

We are pleased to submit the above package for your consideration.

1. Please complete and return the delivery schedule if attached to this package, it is designed to help coordinate delivery dates that best coincide with your construction and draw schedules.
2. It is your responsibility to provide the required permits, bonds and acceptable electrical connections. Proof of these requirements must be presented to CES on demand.
3. You may incur restocking fees if you choose to return any items included in this package to CES. Restocking fees vary per manufacturer.
4. Any changes to this order must be made in writing to CES.
5. Freight charges are estimates only and the actual freight costs may be different at time of shipping.
6. If capital dollars are not readily available, you may acquire this package through a lease or rent to own arrangement pending lending source approvals.
7. Payment terms are subject to the credit agreement you have on file with CES.

This estimate is valid for 30 days from the above date after which the estimate may be subject to change.

Your signature above is considered your acceptance of this proposal and is subject to all terms and conditions of your credit arrangement with CES.  
THANK YOU!



RE: Sole Authorized Distribution

April 6<sup>th</sup>, 2023

To whom it may concern

This is to confirm, that CES Commercial Energy Specialists Inc. and Duffield Aquatics, Inc. in Jupiter, FL are our sole Authorized Distributors of the following Dryden Aqua Products in the State of Florida, the South Atlantic and the East South Central States as well as the Caribbean:

AFM® and AFM®ng – Activated Filter Media, APF® – All Poly Floc, BESGO® Valves, and ACO® – Active Catalytic Oxidizer.

Additionally, these products are protected by copyrights, trademarks and service marks. There are no other items or products available for purchase that would serve the same purpose or function.

For further information, please feel free to contact me at 214 886 8698 or philipp@drydenaqua.com.

Sincerely,



Philipp Meyer

CEO

Dryden Aqua LLC

5950 Berkshire Ln, Ste 1480

Dallas, TX 75225

## **SOFT STARTS**



## ESTIMATE

Margate, City Of

Feature PFD Motor Control Centers, Calypso Cove

Order # 211758-R1  
Date 02/09/24  
Consultant Troy Schaneman  
WQA Alex W Branning  
Fax #  
Billing Terms Net 45

### Proposed To

City of Margate  
Jessica Bono  
6199 NW 10th Street  
Parks & Rec/Comm Center  
Margate, FL 33063

### Ship To

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Margate, FL 33063  
Phone: (954) 974-4566 Fax:  
Courier Service  
BEST WAY

### Order Description

PFD Motor Control Drives for (2) Plunge Pool Slide Pumps and (1) Activity Pool Pump

### Order Items

Line Item Code	Description	Quantity	Unit Price	Item Total
CM CES-PFD-50-1-4XX-065	50HP Precision Control , 4XX Volt, Nema 1 Motor Control Center w/ MCC-VFD, 65 Amps	1	10,455.93	10,455.93
<p>Precision Control PFD 50HP, 4XXV, Nema 1 Motor Control Center with VFD Includes Pre-Wired UL 508 Bypass and Integrated Pump-Specific iQ Software, Conformal Coated electronics and 40C temperature rating (104F) for harsh equipment environments Variable Frequency Drive has continuous display of motor operating parameters (Hz, volts, amps) MCC is equipped with lid-mounted keypad, thermal overload protection, line reactor, Circuit breaker, Y-Bypass, voltage and current surge limitation, integrated hand/off/auto switch, and indicator light package. Programmable Soft Start for reduction of power co. demand charges, and reduced water hammer. Interfaces with BECSys5, 7 and BW to provide direct control of Circulation system GPM for maximum energy savings. Interfaces with energy management system, or web-based monitoring programs. On-site warranty administration, 2-Year Factory Warranty with CES Start-up. 50.82" H x 32.58" W x 18.15" D, 420 lbs, 65 AMP Rated Output NEMA 1 enclosures are intended for use in indoor applications.</p>				
CM CES-PFD-25-1-4XX-034	25HP Precision Control , 4XX Volt, Nema 1 Motor Control Center w/ MCC-VFD, 34 Amps	2	7,204.78	14,409.56
<p>Precision Control PFD 25HP, 4XXV, Nema 1 Motor Control Center with VFD Includes Pre-Wired UL 508 Bypass and Integrated Pump-Specific iQ Software, Conformal Coated electronics and 40C temperature rating (104F) for harsh equipment environments Variable Frequency Drive has continuous display of motor operating parameters (Hz, volts, amps) MCC is equipped with lid-mounted keypad, thermal overload protection, line reactor, Circuit breaker, Y-Bypass, voltage and current surge limitation, integrated hand/off/auto switch, and indicator light package. Programmable Soft Start for reduction of power co. demand charges, and reduced water hammer. Interfaces with BECSys5, 7 and BW to provide direct control of Circulation system GPM for maximum energy savings. Interfaces with energy management system, or web-based monitoring programs. On-site warranty administration, 2-Year Factory Warranty with CES Start-up. 39.82" H x 25.8" W x 15.68" D, XXX lbs, 34 AMP Rated Output Nema 1 enclosures are intended for use in indoor applications.</p>				



Commercial Energy Specialists, LLC \* Since 1972 \* (800) 940-1557 \* [www.aquafinity.com](http://www.aquafinity.com)  
Aquafinity \* Jupiter FL \* Anderson SC \* Addison TX \* Phoenix AZ







## ESTIMATE

Margate, City Of

Feature PFD Motor Control Centers, Calypso Cove

Order # 211758-R1  
Date 02/09/24  
Consultant Troy Schaneman  
WQA Alex W Branning  
Fax #  
Billing Terms Net 45

### Proposed To

City of Margate  
Jessica Bono  
6199 NW 10th Street  
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Margate, FL 33063

### Ship To

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Phone: (954) 974-4566

Fax:

Courier Service

BEST WAY

CB FSU	Factory Site Services, Training, and Warranty Administration	3	645.00	1,935.00
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Factory Site Service and Operator Training, includes support services during construction, warranty registration, training per CES Operator Training Checklist, technical support, and on-site warranty administration.

Factory start up updates most factory warranty start dates from date of manufacture or shipment, as typical, to date of start up.

Installation, Electric, Permits, and Permit Fees (if applicable) by others.

### Additional Information

Freight is estimated; Installation is not included and may be quoted once equipment is on-site  
Start up and Site Services by CES

Subtotal	26,800.49
Adjustment	0.00
Total	26,800.49
Shipping	1,449.28
Tax	0.00
Grand Total	28,249.77
Payments	0.00

Signature

Date

We are pleased to submit the above package for your consideration.

1. Please complete and return the delivery schedule if attached to this package, it is designed to help coordinate delivery dates that best coincide with your construction and draw schedules.
2. It is your responsibility to provide the required permits, bonds and acceptable electrical connections. Proof of these requirements must be presented to CES on demand.
3. You may incur restocking fees if you choose to return any items included in this package to CES. Restocking fees vary per manufacturer.
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Your signature above is considered your acceptance of this proposal and is subject to all terms and conditions of your credit arrangement with CES.  
THANK YOU!



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Aquafinity \* Jupiter FL \* Anderson SC \* Addison TX \* Phoenix AZ



**YASKAWA AMERICA INC.**  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-927-5292

January 18<sup>th</sup> 2024

**To:** To Whom It May Concern

**Subject:** Commercial Energy Specialists – Precision Control PFD Recreational and Entertainment Water Industry Authorization.

This memo is intended to state that CES – Commercial Energy Specialists (based in Jupiter, FL) is Yaskawa's channel exclusively focused on sales and service for the recreational and entertainment water industry authorization.

CES – Commercial Energy Specialists is our only authorized distributor serving the recreational and entertainment water industry with complete solutions using the Precision Control PFD Motor Control VFD (MCC-VFD) line, which is manufactured to their specifications, and is powered by Yaskawa iQPUMP, P1000/V1000 product lines.

CES is also certified as a factory Authorized Service Provider (ASP) providing start up and repair / replacement services.

Please feel free to contact me if I can be of any further assistance in this matter.  
Best regards,

*Joshua Whitlatch*

Via electronic mail

Josh Whitlatch  
Florida Regional Drives Specialist  
[Yaskawa America Inc.](#)  
C: 407-616-0241

cc: Scott Mathews – Yaskawa America, Inc.

**VFD'S**

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# ESTIMATE

Margate, City Of

PFD Motor Control Centers; Calypso Cove

Order # 211924-R2  
Date 02/09/24  
Consultant Troy Schaneman  
WQA Alex W Branning  
Fax #  
Billing Terms Net 45

## Proposed To

City of Margate  
Jessica Bono  
6199 NW 10th Street  
Parks & Rec/Comm Center  
Margate, FL 33063

## Ship To

Margate-Calypso Cove Aquatic Facility  
Jessica Bono  
6200 Royal Palm Blvd  
Margate, FL 33063  
Phone: (954) 974-4566 Fax:  
Courier Service  
BEST WAY

## Order Description

Budget Proposal for PFD Motor Control Centers  
Activity, Lap, and Plunge Pools

## Order Items

Line Item Code	Description	Quantity	Unit Price	Item Total
CM CES-PFD-25-1-4XX-034	25HP Precision Control , 4XX Volt, Nema 1 Motor Control Center w/ MCC-VFD, 34 Amps	1	7,192.19	7,192.19

### For Activity Pool

Precision Control PFD 25HP, 4XXV, Nema 1 Motor Control Center with VFD  
Includes Pre-Wired UL 508 Bypass and Integrated Pump-Specific iQ Software.  
Conformal Coated electronics and 40C temperature rating (104F) for harsh equipment environments  
Variable Frequency Drive has continuous display of motor operating parameters (Hz, volts, amps)  
MCC is equipped with lid-mounted keypad, thermal overload protection, line reactor, Circuit breaker, Y-Bypass, voltage and current surge limitation, integrated hand/off/auto switch, and indicator light package.  
Programmable Soft Start for reduction of power co. demand charges, and reduced water hammer.  
Interfaces with BECSys5, 7 and BW to provide direct control of Circulation system GPM for maximum energy savings.  
Interfaces with energy management system, or web-based monitoring programs.  
On-site warranty administration, 2-Year Factory Warranty with CES Start-up.  
39.82" H x 25.8" W x 15.68" D, XXX lbs, 34 AMP Rated Output  
Nema 1 enclosures are intended for use in indoor applications.

CM CES-PFD-10-1-4XX-014	10HP, Precision Control 4XX Volt, Nema 1 Motor Control Center w/ MCC-VFD, 14 Amps	1	6,435.00	6,435.00
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### For Lap Pool

Precision Control PFD 10HP, 4XXV, Nema 1 Motor Control Center with VFD  
Includes Pre-Wired UL 508 Bypass and Integrated Pump-Specific iQ Software.  
Conformal Coated electronics and 40C temperature rating (104F) for harsh equipment environments  
Variable Frequency Drive has continuous display of motor operating parameters (Hz, volts, amps)  
MCC is equipped with lid-mounted keypad, thermal overload protection, line reactor, Circuit breaker, Y-Bypass, voltage and current surge limitation, integrated hand/off/auto switch, and indicator light package.  
Programmable Soft Start for reduction of power co. demand charges, and reduced water hammer.  
Interfaces with BECSys5, 7 and BW to provide direct control of Circulation system GPM for maximum energy savings.  
Interfaces with energy management system, or web-based monitoring programs.  
On-site warranty administration, 2-Year Factory Warranty with CES Start-up.  
28.8" H x 18.25" W x 13.7" D, XXX lbs, 14 AMP Rated Output  
Nema 1 enclosures are intended for use in indoor applications.



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Aquafinity \* Jupiter FL \* Anderson SC \* Addison TX \* Phoenix AZ





# ESTIMATE

Margate, City Of

PFD Motor Control Centers; Calypso Cove

Order # 211924-R2  
Date 02/09/24  
Consultant Troy Schaneman  
WQA Alex W Branning  
Fax #  
Billing Terms Net 45

## Proposed To

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CM CES-PFD-7.5-1-4XX-011	7.5HP Precision Control , 4XX Volt, Nema 1 Motor Control Center w/ MCC-VFD, 11 Amps	1	6,293.33	6,293.33
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### For Plunge Pool

Precision Control PFD 7.5HP, 4XXV, Nema 1 Motor Control Center with VFD  
Includes Pre-Wired UL 508 Bypass and Integrated Pump-Specific iQ Software,  
Conformal Coated electronics and 40C temperature rating (104F) for harsh equipment environments  
Variable Frequency Drive has continuous display of motor operating parameters (Hz, volts, amps)  
MCC is equipped with lid-mounted keypad, thermal overload protection, line reactor, Circuit breaker, Y-Bypass,  
voltage and current surge limitation, integrated hand/off/auto switch, and indicator light package.  
Programmable Soft Start for reduction of power co. demand charges, and reduced water hammer.  
Interfaces with BECSys5, 7 and BW to provide direct control of Circulation system GPM for maximum energy savings.  
Interfaces with energy management system, or web-based monitoring programs.  
On-site warranty administration, 2-Year Factory Warranty with CES Start-up.  
28.82" H x 18.25" W x 13.76" D XXX lbs, 11 AMP Rated Output  
Nema 1 enclosures are intended for use in indoor applications.

CB FSU	Factory Start-up, Training, and Warranty Admin	3	645.00	1,935.00
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### For VFDs

Factory Site Service and Operator Training, includes support services during construction, warranty registration, training per CES Operator Training Checklist, technical support, and on-site warranty administration.

Factory start up updates most factory warranty start dates from date of manufacture or shipment, as typical, to date of start up.

Installation, Electric, Permits, and Permit Fees (if applicable) by others.



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### Additional Information

Freight is estimated; Installation is not included and may be quoted once equipment is on-site  
Start up and Site Services by CES

Please click link below to digitally accept this proposal

Proposal Acceptance

Subtotal	21,855.52
Adjustment	0.00
Total	21,855.52
Shipping	1,449.28
Tax	0.00
Grand Total	23,304.80
Payments	0.00

Signature

Date

We are pleased to submit the above package for your consideration.

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Aquafinity \* Jupiter FL \* Anderson SC \* Addison TX \* Phoenix AZ



YASKAWA AMERICA INC.  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-927-5292

January 18<sup>th</sup> 2024

**To:** To Whom It May Concern

**Subject:** Commercial Energy Specialists – Precision Control PFD Recreational and Entertainment Water Industry Authorization.

This memo is intended to state that CES – Commercial Energy Specialists (based in Jupiter, FL) is Yaskawa's channel exclusively focused on sales and service for the recreational and entertainment water industry authorization.

CES – Commercial Energy Specialists is our only authorized distributor serving the recreational and entertainment water industry with complete solutions using the Precision Control PFD Motor Control VFD (MCC-VFD) line, which is manufactured to their specifications, and is powered by Yaskawa iQPUMP, P1000/V1000 product lines.

CES is also certified as a factory Authorized Service Provider (ASP) providing start up and repair / replacement services.

Please feel free to contact me if I can be of any further assistance in this matter.  
Best regards,



Via electronic mail

Josh Whitlatch  
Florida Regional Drives Specialist  
[Yaskawa America Inc.](#)  
C: 407-616-0241

cc: Scott Mathews – Yaskawa America, Inc.