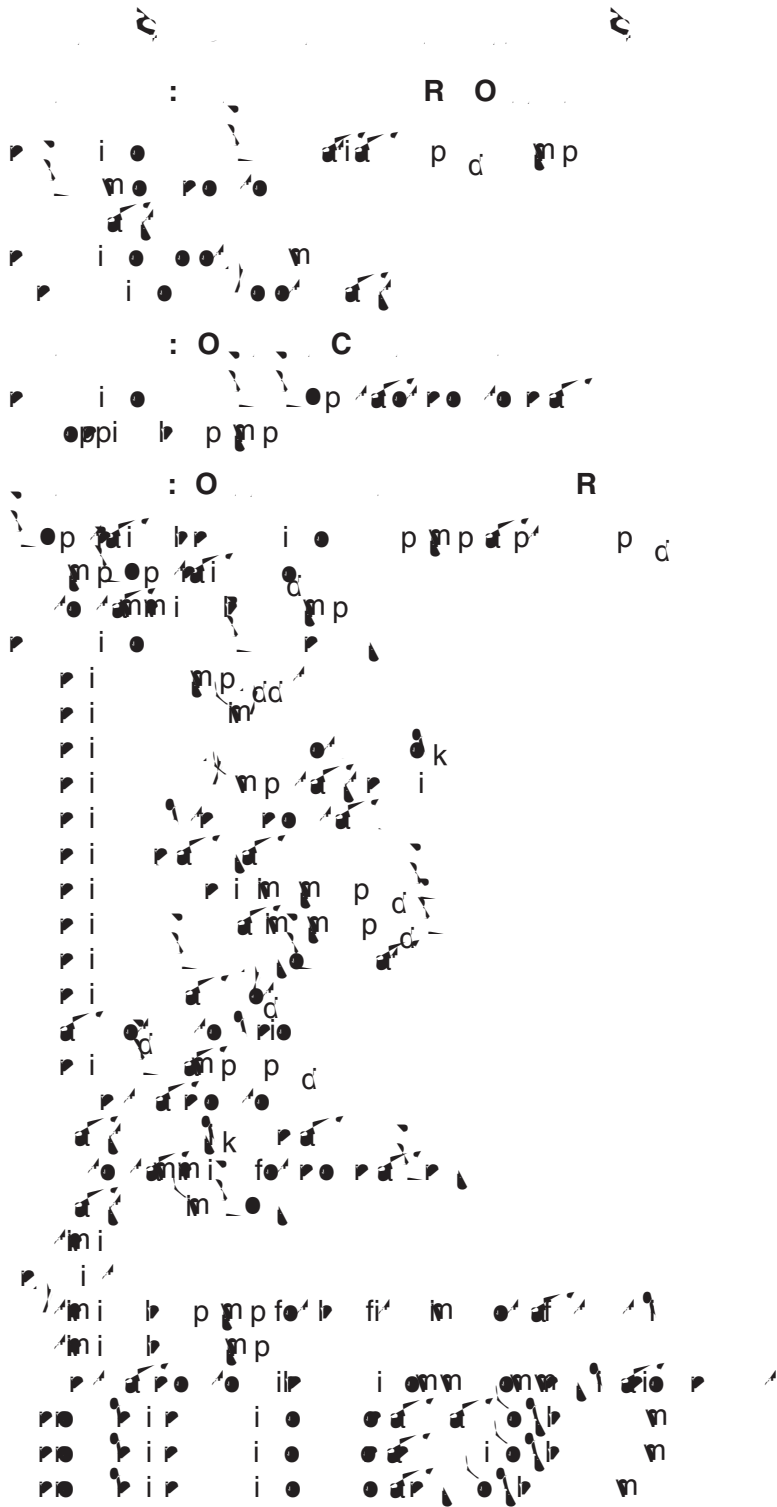




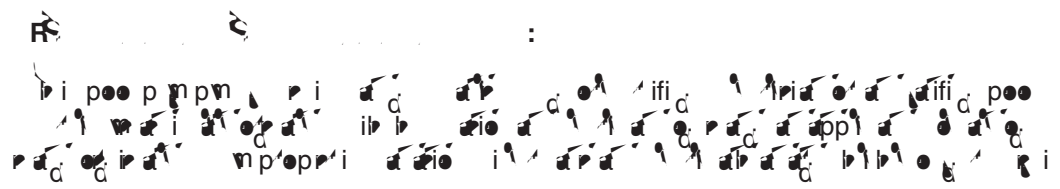
C



apud deum et in conspectu regum confitebor tibi domine in ecclesia magna et in congregatione populi. Quia tuum est regnum et tuum est imperium in saecula saeculorum. Domine deus pater omnipotens et dominus deus solus et dominus deus altissimus. Domine deus pater omnipotens et dominus deus solus et dominus deus altissimus.

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Pa k a



R O

R

The IntelliFlo VS+ SVRS variable speed pump with the safety vacuum release system (SVRS) protection is well suited for all of your pool, spa, waterfall and other applications. The IntelliFlo VS+ SVRS can use up to eight (8) speeds which can be adjusted to run at specific speeds and time intervals. IntelliFlo outperforms all conventional pumps in its class. Advanced energy conservation features ensure that your filtration system is operating at peak efficiency.

The IntelliFlo pump operates at a maximum system flow rate of up to 174 gallons per minute (GPM). System setup for the SVRS requires that the suction vacuum level be adjusted to 25" of mercury (Hg) or less at the pump strainer housing connection.

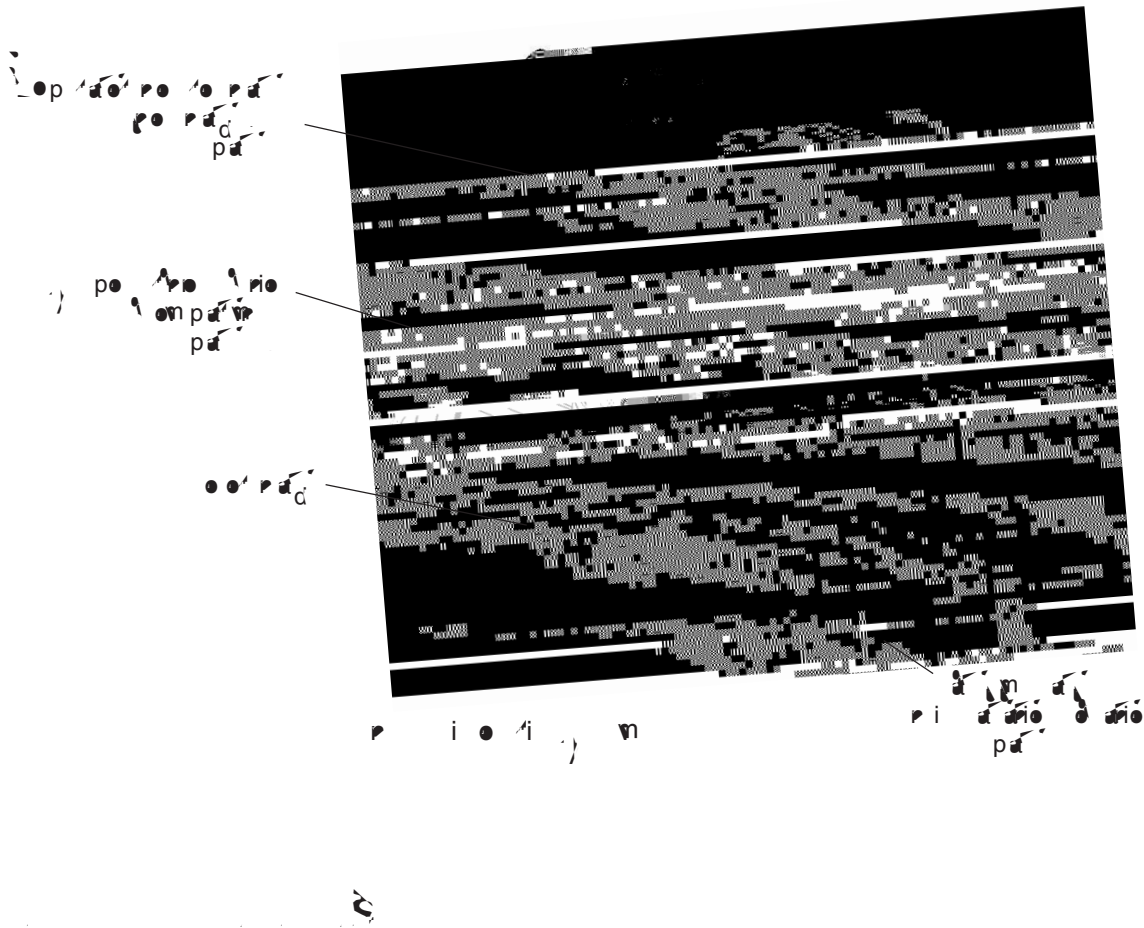
The IntelliFlo VS+ SVRS pump can operate from 1100 RPM to 3450 RPM with preset speeds of 1100, 1500, 2350 and 3110 RPM. The pump can be adjusted from the control panel to run at any speed between 1100 RPM to 3450 RPM for different applications. The IntelliFlo pump control panel alarm LED

D



C

The IntelliFlo drive assembly consists of an operator control panel and the system electronics that drive the motor. The drive microprocessor controls the motor by changing the frequency of the current it receives together with changing the voltage to control the rotational speed.

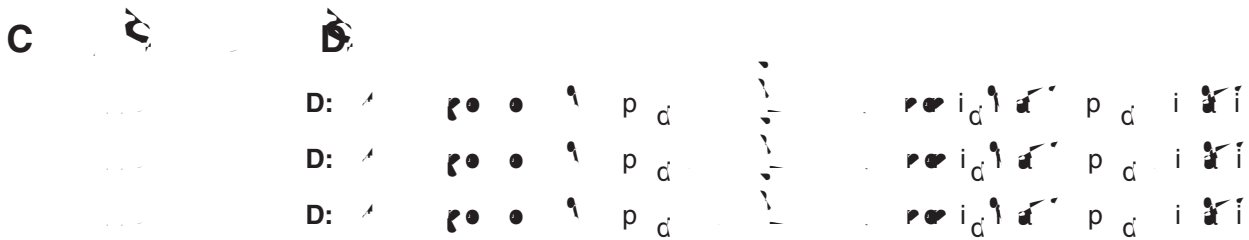


- Permanent Magnet Synchronous Motor (PMSM)
- High efficiency
- Superior speed control
- Operates at lower temperatures due to high efficiency
- Same technology as deployed in hybrid electric vehicles
- Designed to withstand outdoor environment
- Totally enclosed fan cooled
- Three-phase motor
- 56 Square Flange
- Six-Pole
- Low noise

O C

This section describes the IntelliFlo VS+ SVRS operator controls and LEDs.

R O C



A :
 U : • po pi b w oi a d i i l d p i a i i
 D : • po d o r i b w oi a d i i l d p i a i i
 R : • oi i l d p i a i i
 Q C : oi a d p d oi a m p m l p p p i i
 O l a i d p d oi a m p m l p p p i i
 no : a a o n a i a
 R : a a n o a
 O i i p o i o l p i o i p o d

O

R

This section describes how to operate the IntelliFlo VS+ SVRS pump using the control panel buttons and menu features.



1. Be sure the pump is powered on and the green power LED is on.
2. Select one of the speed buttons, then press the **Start** button (LED on) to start the pump.



- Press the **Stop** button to stop the pump.

Note : The pump can automatically restart if the communication cable is connected.

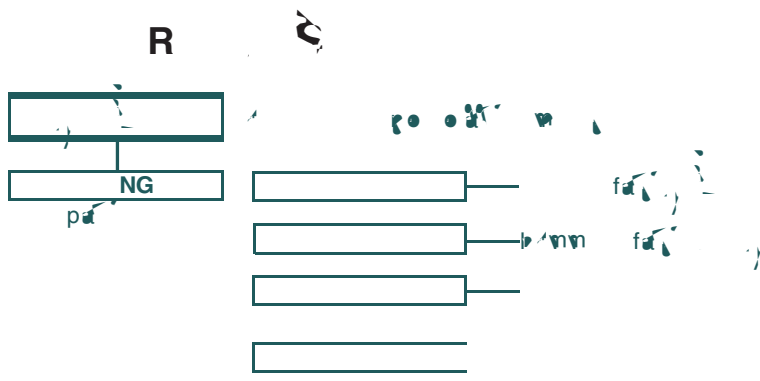


The IntelliFlo VS+ pump can be programmed three ways:

1. **Manual Operation**: Speed buttons 1-4 can be programmed for Manual operation. This means the speed button is pressed and then the start button and the pump runs a programmed speed. Speeds 5-8 can not be programmed for Manual operation because there are no buttons associated with them.

To operate the pump in Manual Mode, press one of the four speed buttons, and press the Start/Stop button to run the assigned speed for that button. When the pump is running a Manual Speed Setting (speed 1, 2, 3 or 4 button pressed manually) and a scheduled speed is set to run, the scheduled speed will take priority regardless of speed number or RPM. When the Scheduled Speed's time is over, it will not revert back to the manually pressed speed. If the pump is running a schedule and a speed button is pressed manually, the pump will run the manually selected speed until the next scheduled speed program.

2. **Event (Duration)**: Speeds 1-4 can be programmed to run for a duration of time once pressed. This means that the Speed button is pressed and then the start button and the pump runs a programmed speed and the speed will turn off at the end of a preprogrammed amount of time.





The IntelliFlo VS+ menu descriptions are as follows:



The IntelliFlo pump address needs to be changed when there is more than one IntelliFlo pump on an automation system. Addressing the pump allows the automation system to know which pump to send a command to. The “Pump Address” setting is used when the IntelliFlo VS+ is connected via the RS-485 COM port to an IntelliTouch®, EasyTouch®, SunTouch® or IntelliComm® system. The default pump address is #1. When connected to EasyTouch®, SunTouch® or IntelliComm® the pump only communicates with address #1. The pump address can be set from 1-16. However, IntelliTouch can communicate to four (1-4) IntelliFlo VS pumps.

N | **I** | **F** | **ca** | **b** | **c** | **c** | **w** | **i** | **i** | **.**

To access the Settings menu:

1. Be sure the green power LED is on and the pump is stopped.
2. Press the **M** | **.** button. “Settings” is displayed.
3. Press the **S** | **c** button. “Pump Address” is displayed. The Factory default setting is address “1.”
4. To change the pump address, press the **S** | **c** button. The first digit “1” selected.
5. Press **U** or **D** | **w** arrow button to change the address number from 1-16.
6. Press the **E** | **i** button to save the setting. To cancel any changes, press the **E** | **ca** button to exit edit mode without saving.
7. Press the **E** | **ca** button to exit.



Use “Set Time” to set the IntelliFlo VS+ system time. The IntelliFlo VS+ system clock controls all scheduled

: **A** **C**

This setting is for changing the pump's time clock from regular time (AM/PM) to a 24 hour clock. For example, Midnight (12:00 AM) is 0000 hr., 8:00 AM is 0800 hr., and 11:00 PM is 2300 hr.

To access the AM/PM or 24 hr. menu:

1. Check that the green power LED is on.
2. Press the **M** button. "Settings" is displayed.
3. Press the **S** button. "Pump Address" is displayed.
4. Use the **U** or **D** arrow button to scroll to "AM/PM."
5. Press the **S** button to change the setting.
6. Press **U** or **D** arrow button to choose between 24 hr and AM/PM.
7. Press the **E** button to save the setting. To cancel any changes, press the **E ca** button to exit edit mode without saving.
8. Press the **E ca** button to exit.

: **U**

Use this setting to set the temperature unit to Celsius (°C), or Fahrenheit (°F). The IntelliFlo Anti Freeze protection feature (see page 17) can be set to either Fahrenheit or Celsius.

To access the Temperature Units menu:

1. Check that the green power LED is on.
2. Press the **M** button. "Settings" is displayed.
3. Press the **S** button. "Pump Address" is displayed.
4. Use the **U** or **D** arrow button to scroll to "Temperature Units" menu item. The Factory default setting is "F" (Fahrenheit).
5. Press the **S** button to change the setting. To cancel any changes, press the **E ca** button to exit edit mode without saving.
7. Press the **E** button to save the setting. To cancel any changes, press the **E ca** button to exit edit mode without saving.
8. Press the **E ca** button to exit.



To access the language menu:

1. Check that the green power LED is on.
2. Press the **M** .



- When Password Protection is enabled the press of any button other than the speed button will cause the Screen to ask for a Password.
- To enter password use the left and right arrows to move the cursor and the **U** and **D** arrow button to scroll through the digit, then press the Enter button to confirm.



The Ramp Speed can be set from 5 RPM to 400 RPM. The default setting is 200 RPM. This means when the pump changes speeds it will ramp at 200 RPM increments. For example, when the pump changes speeds from 1500 RPM to 2350 RPM it will ramp to 1700 RPM wait approximately 5 seconds then move to 1900 RPM, wait 5 seconds and then move to 2300 RPM wait five (5) seconds then move to 2350 RPM. This adjustment is made available to the user to help minimize the occurrence of a false tripping SVRS alarm when switching speeds. **Note:**

When the Ramp Speed is set to 5 RPM the pump will ramp to the next speed in 5 RPM increments. When the Ramp Speed is set to 400 RPM the pump will ramp to the next speed in 400 RPM increments. The Ramp Speed setting is only available when the SVRS is disabled.

To access the Ramp Speed menu:

1. Check that the green power LED is on.
2. Press the **M** button. "Settings" is displayed.
3. Press the **S** button. "Pump Address" is displayed.
4. Use the Up or Down arrow button to scroll to "Ramp Speed".
5. Press the **S** button. The Default setting is 200 RPM.
6. Press the Left or Right arrow button to move cursor and press up and down arrow to change the setting.
7. Press **E** to save the setting.

- (R)

By setting a start time and a stop time, Speeds 1-8 can be programmed to run a certain speed at a certain time of day. To run a scheduled pump speed, press the Start button (LED on). The LCD screen will display "Running Schedules" when it is ready to run a scheduled speed. If the start button is pressed during a scheduled speed time the screen will read Running Speed X and will run speed X. (If priming is enabled it will prime first at the maximum RPM setting of the pump before running speed X.)

N : **T** **L** **F** , **w** **c** **S**ta /St **b** **(LED)** **ac** **R** **Sc** .

To set a schedule to run the pump:

1. Check that the green power LED is on.
2. Press the **M** button. "Settings" is displayed.
3. Use the **U** or **D** arrow button to scroll to "Speed 1-8".
4. Press the **S** button. "Speed 1" is displayed.
5. Use the **U** or **D** arrow button to choose the speed you wish to program.
6. Press the **S** button. Select **Ma**, **a**, **Sc**, or **E** **T** for speeds 1-4. "Disabled" or "Schedule" for speed 5-8 is displayed.
 - S** **1-4** default setting is MANUAL. To create a schedule for speed 1-4 Press Select to highlight manual.
 - S** **5-8** default setting is DISABLED. To create a schedule for speed 5-8, Press Select to highlight Disabled.
7. Use the **U** or **D** arrow button to scroll to "Schedule".
8. Press the **E** button.
9. Press the **D** arrow button. Set speed will be displayed.
10. Press the **S** button to change the speed. The first digit will highlight (ones digit).
11. Use the **U** or **D** arrow button to change the speed.
12. Press the **E** button to save the setting.
13. Press the **D** arrow button. "Set Start Time" is displayed.
14. Press the **S** button to change the start time. The cursor will highlight the minute column.
15. Use the **L** arrow button to move the cursor to the hour column if desired.
16. Press the **E** button to save the setting.
17. Press **D** arrow. "Set Stop Time" is displayed
18. Press the **S** button to change the stop time.
19. Press the **E** button to save the setting.
20. Press the Start/Stop button. The LED above the button will light up and the pump will start if within a scheduled time or "Running Schedule" is displayed.

When the pump is running a scheduled speed or a duration speed (egg timer) the countdown time (T 00:01) showing the hours and minutes is displayed on the screen.

Note: S 5-8 T L F S y. T I F S
(8) (8) y.

Note: w RPM w RPM
S #

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This function is for programming speeds that will run when the IntelliComm power center controller sends it a command. For example, Terminal 3 and 4 in IntelliComm will correspond to External Control Program #1. (5 and 6 to Ext Ctrl #2). Use the External Control feature to program the IntelliComm power center.

To access the Ext. Ctrl. menu:

1. Check that the green power LED is on.
2. Press the **M** button. "Settings" is displayed.
3. Use the **U** or **D** arrow button to scroll to "Ext. Ctrl."
5. Press the **S** button. "Program 1" is displayed.
6. Press the **S** button. "1100 RPM" is displayed.
7. Press the **S** button. The "RPM" number will highlight.
8. Press **U** or **D** arrow button to change the RPM setting.
9. Press the **E** button.

CAUTION: D

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CD

NOBOD

The Default setting for Priming is disabled. Enabling this feature allows the pump to use its "Flow Technology" to make sure the pump is primed when it starts. This feature will not override the "Max Speed" setting. The priming feature ramps the pump to 1800 RPM and pauses for three (3) seconds. If there is sufficient water flow in the pump basket the pump will go out of priming mode and run its commanded speed. If the flow in the pump basket is not sufficient, the pump will ramp to the "Max Speed" setting and stay there for the priming delay time, which is defaulted at 20 seconds. If there is sufficient water flow in the pump basket at this time, it will go out of priming mode and ramp to the commanded speed. If there is still insufficient flow in the pump basket, the pump will try to prime at the "Maximum Speed" for the amount of time set up in the "Maximum Priming Time" menu.

Maximum Priming Time : The Maximum Priming Time can be set from 1 minute to 30 minutes. The default setting is 11 minutes. This is the maximum amount of time the pump will try to prime before giving an error. However if the pump does not see a sufficient amount of water in the pump basket this can cause the pump to report a Dry Priming Alarm within seconds of the beginning of the priming cycle.

Priming Dry Alarm : An insufficient amount of water in the basket during priming will cause the pump to report a Priming Dry Alarm. The basket should be filled with water and the pump restarted when this alarm occurs.

Note: The Priming Dry Alarm will occur if the pump is not primed within 10 seconds of the start of the Priming cycle.

(C)

A AntiFreeze

This feature allows you to set a speed (1100 RPM -3450 RPM) that will run when the pump goes into anti freeze mode. The temperature level that you wish anti freeze mode to start can also be set.

IMPORTANT NOTE: This feature is for protection of the pump. It should not be depended upon for freeze protection of the pool. Certain situations could cause the pump to sense a different temperature than actual air temperature. Your automation systems air temperature sensor should be used to sense actual temperature. For example, if the pump is located indoors, the temperature of the room does not indicate the outdoor temperature. The pump does not sense the water temperature.

To access the AntiFreeze menu:

1. Check that the green power LED is on.
2. Press the **M** button. “Settings” is displayed.
3. Use the **D** **w** arrow button to scroll to “AntiFreeze”.
4. Press the **S** **c** button. The factory default is AntiFreeze “Enabled”.
5. To disable AntiFreeze. Press the **S** **c** button, “Enabled” will highlight.
6. Use the **U** arrow button. “Disabled” is displayed.
7. Press the **E** **i** button.
8. Press the **D** **w** arrow button. “Set Speed” is displayed. The factory default is 1100 RPM.
9. Press the **S** **c** button to change the setting. The cursor will highlight the first column (ones).
10. Use the **U** **D** **w** arrow button to select 1100 - 3450 RPM.
11. Press the **E** **i** button to save the setting.
12. Press the **D** **w** arrow button. “Pump Temperature” is displayed. This is the temperature the pump will activate AntiFreeze. The factory default is 40° F (4.4° C).
13. Press the **S** **c** button to change the setting. The cursor will highlight the first column (ones). This setting can be changed from 40° F to 50° F (4.4° C - 10° C).
14. Press the **S** **c** button. **.0058 Tc 05 (.)-258(P** **i** **57** **;)14(T)T1. 37 T3N3226 ca 13T1 P 5**

Before the IntelliFlo VS pump is started for the first time it must be primed. To prime a pump means filling the pump and suction pipe with water. This process evacuates the air from all the suction lines and the pump. It may take several minutes to prime depending on the depth of water, pipe size and length. It is easier to prime a pump if you allow all the air to escape from the pump and pipes. The water cannot enter unless the air can escape. Pumps do not hold prime, the pool piping system has that task.

CAUTION - Do not start the IntelliFlo VS pump until the pump and suction pipe are completely filled with water. If the pump is started with air in the suction pipe, the pump will be damaged.

C

C

C

C

The IntelliFlo VS+ SVRS can be remotely controlled by the Pentair Water Pool and Spa IntelliComm Communication Center using an optional RS-485 communications cable (P/N 350122). The IntelliComm provides four pairs of input terminal connections. These inputs are actuated by either 15 - 240 VAC or 15 - 100 VDC. Using the device's inputs, the programmed IntelliFlo pump speeds can be controlled.

N : **F** **L** **F** VS+SVRS **acc** **c** **a** **L** **C** , **b** **R** **Sc** (LED **ab** **Sta** **/S** **b** **)).**

If more than one input is active the highest number will be communicated to the IntelliFlo pump. The IntelliComm will always communicate to pump using ADDRESS #1.

P **a** **b** ² **a** **w** : Example: If programs 1 and 2 are activated, program 2 will run, regardless of the assigned speed (RPM). The higher program number (2 being higher) will always take priority. The following table shows the wiring terminal descriptions for IntelliComm.

C

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C



The IntelliFlo VS can be controlled by an EasyTouch system via the RS-485 communication cable

5. Lower down the hinged control panel to access the EasyTouch motherboard.
6. Route the communication cable into the lower plastic grommet, up through the low voltage raceway to the EasyTouch load center motherboard.

7. Strip back the cable conductors $\frac{1}{4}$ inch. Insert the two wires into the screw terminals on the board. Secure the wires with the screws.


8. **EasyTouch IntelliFlo VS+ cable, at:**

C

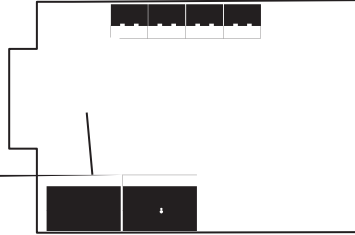
The IntelliFlo VS can be controlled by an IntelliTouch system via the RS-485 communication cable (P/N 350122). In this configuration, IntelliTouch starts, stops and controls the speed of the IntelliFlo VS pump. When the IntelliTouch does this, it rewrites the IntelliFlo VS memory, which can take several seconds. This causes a delay after a command is given on the IntelliTouch control panel until the IntelliFlo VS physically responds.

The IntelliFlo VS control panel is disabled when communicating with the IntelliTouch system. Note that IntelliTouch will not start communicating with the IntelliFlo VS until the appropriate pump address is assigned to a circuit. The IntelliFlo VS default pump address is one. See page 10 for details about how to check the pump address and change if necessary. For more information, refer to the IntelliTouch User's Guide (P/N 520102).

To connect the IntelliFlo VS communication cable to IntelliTouch load center:

1.  **CAUTION** - Switch always off IntelliTouch.
2. Unlatch the IntelliTouch load center front door spring latches, and open the front door.
3. Remove the cover-panel screws securing the high voltage cover-panel, and remove it from the enclosure.
4. Loosen the two control panel access screws and fold down the outdoor control panel.

- Strip back the cable conductors ¼". Insert the wires into the either of the **COM PORTS (J7 a J8)** screw terminals located on the left side of the Personality board. Secure the wires with the screws. For wiring details, refer to "Pin Configuration" shown below. *Note: Make sure the wires are inserted into the correct terminals.*



Pin Configuration IntelliFlo VS IntelliTouch:

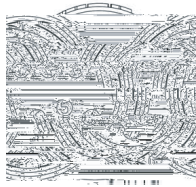
- IntelliFlo VS: Connect pin 6 (green) to IntelliTouch screw terminal pin 2 (green)
- IntelliFlo VS: Connect pin 7 (yellow) to IntelliTouch screw terminal pin 3 (yellow)

- Close the control panel into its original position and secure it with the two access screws.
- Install the high voltage cover panel and secure it with the two retaining screws.
- Close the load center front door. Fasten the two spring latches.
- Switch the power on to the load center.

C

2

The IntelliFlo VS can be controlled by a SunTouch system via the RS-485 communication cable





The following information describes how to service and maintain the IntelliFlo VS pump.

Basket

The strainer, sometimes referred to as the “Hair and Lint Pot,” is in front of the of the pump. Inside there is a basket which must be kept clean of leaves and debris at all times. View the basket through the top see through lid to inspect for leaves and debris.

Regardless of the length of time between filter cleaning, it is most important to visually inspect the hair and lint pot basket at least once a week. A dirty basket will reduce the efficiency of the filter and possibly the heater.



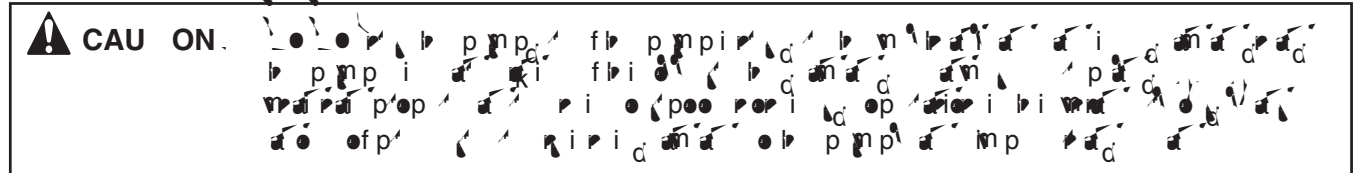
WARNING.

DO NOT operate the IntelliFlo VS pump if the pump filter is dirty or if the pump filter is not properly installed. A dirty pump filter can cause the pump to overheat and possibly catch fire. A pump filter that is not properly installed can cause the pump to leak and possibly cause damage to the pump or the system.

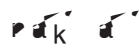
To protect the IntelliFlo VS pump electronics from damage due to freezing conditions, the pump will switch it self on to generate internal heat when the air temperature drops below 40° F. The IntelliFlo VS “Anti Freeze” feature is not intended to protect the system plumbing from freezing. The Anti Freeze temperature feature is adjustable and can be changed from 40° F - 50° F (4.4° C - 10° C). See page 11 for more information.

1. If the air temperature drops below 40° F the water in the pump can freeze and cause damage. Freeze damage is not warrantable.
 2. To prevent freeze damage follow the procedures listed below.
 - Shut off electrical power for the pump at the circuit breaker.
 - Drain the water out of the pump by removing the two thumb-twist drain plugs located at the bottom of the volute. Store the plugs in the pump basket.
 - Cover the motor to protect it from severe rain, snow and ice.
 - Do not wrap the motor in plastic. It will cause condensation and rust on the inside of the motor.
- Note:** In mild climate areas, when temporary freezing conditions may occur, run your filtering equipment all night to prevent freezing.

Before a system start-up, the pump and system must be manually primed. Make sure to reopen valves before operating. To prime IntelliFlo VS, the strainer pot must be filled with water.



For instructions about how to prime the IntelliFlo VS pump, refer to “Priming the pump for the first time or after servicing,” on page 22.



The following information describes how to install the IntelliFlo VS pump.

N : **B**

K **C**



D  (C)

9. To unscrew the impeller from the shaft, twist the impeller counterclockwise.
10. Remove the rotating portion of the mechanical seal from the impeller.
11. Remove the four bolts from the seal plate to the motor, using a 9/16 inch wrench.
12. Place the seal plate face down on a flat surface and tap out the carbon spring seat.
13. Clean the seal plate, seal housing, and the motor shaft.



R  **R**

1. When installing the replacement shaft seal, use silicone sealant on the metal portion before pressing into the seal plate as shown. **N** : **U** ca w a ^{y2} a a . **E** , **t** a **t** a a **t** c **t** a **t** a **t** , **a** c **t** c a c a . **A** w a a **t** c **t** b a b .
2. Before installing the rotating portion of the seal into the impeller, be sure the impeller is clean. Use a light density soap and water to lubricate the inside of the seal. Press the seal into the impeller with your thumbs and wipe off the ceramic and carbon faces with a clean cloth.
3. Remount the seal plate to the motor.
4. Grease the motor shaft thread and screw impeller onto the motor shaft.
5. Screw in the impeller lock screw (counterclockwise to tighten).
6. Remount the diffuser onto the seal plate. Make sure the plastic pins and holding screw inserts are aligned.
7. Grease the diffuser o-ring and seal plate gasket prior to reassembly.
8. Grease the bolt threads, assemble the motor subassembly to the strainer pot-pump body by using the

D R

To remove the IntelliFlo VS drive and control panel from the motor assembly:

1. Make sure all electrical breakers and switches are turned off before removing the drive.
2. Disconnect the RS-485 communication cable from the pump.
3. Open the control panel cover.
4. Remove the three Phillips head screws securing the drive to the motor assembly as shown.

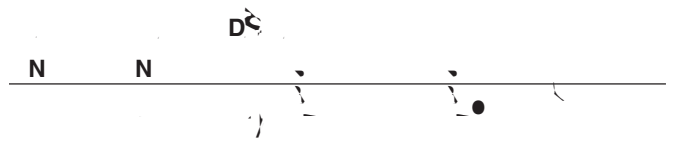
**CAUTION: O A O D C R C A H A A R D D O N O R O H O U R A R
R O O B R O H O O R A B**

5. Lift up the drive assembly and remove it from the motor adapter located on top of the motor assembly.

Note: Be sure to use the correct screws to secure the drive to the motor adapter. Do not use the screws provided with the drive.

To install the IntelliFlo VS drive assembly onto the motor assembly:

1. Make sure all electrical breakers and switches are turned off before installing the drive.
2. Be sure that the gasket between the drive and motor is in place. It is critical in keeping moisture out of the drive and motor. Replace the gasket if damaged. Do not reassemble with a damaged or missing gasket.



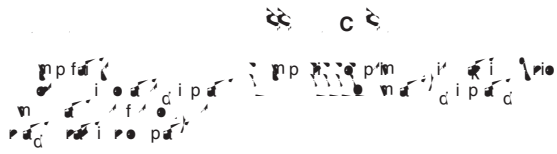
D 



G

Use the following general troubleshooting information to resolve possible problems with your IntelliFlo VS pump.

Note: The following information is for general troubleshooting only. For more detailed information, see the IntelliFlo VS+ SVRS Installation and User's Guide.

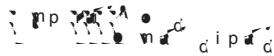
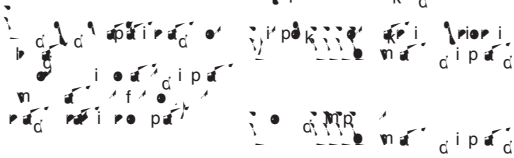


np i o p/m or o b

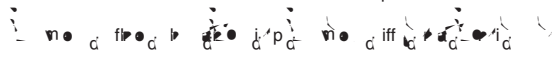
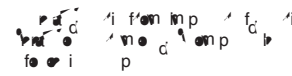
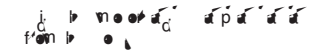
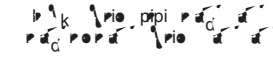
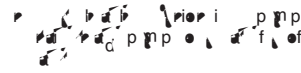
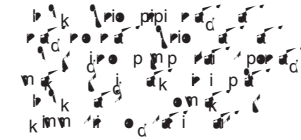
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Continuous Watts

To calculate a system's "Continuous Watts" use the following formula:

$$\text{Amps} \times \text{Voltage} \times \text{Power Factor} = \text{Continuous Watts}$$

Examples:

- 1 HP E+ WhisperFlo = 7.4 amps X (230 Volt) X .90 PF = 1532 watts
- 1 HP Max – E – Pro = 8.0 amps X (230 Volt) X .87 PF = 1600 watts

Swimming pools are great for relaxing, exercising or just having fun. But they also mean higher than average energy bills. The key to saving energy with your pool is to correctly manage the filter pump time, pool temperature and lighting. Consider the following when operating your swimming pool:



Your pool needs to be filtered every 24 hours. The time to filter the pool depends on:

- The size of your pool.
- The filtering equipment.
- How much you use your pool.

Follow a regular program of preventive maintenance, including an annual inspection of the heat exchanger to help maintain heating efficiency.

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