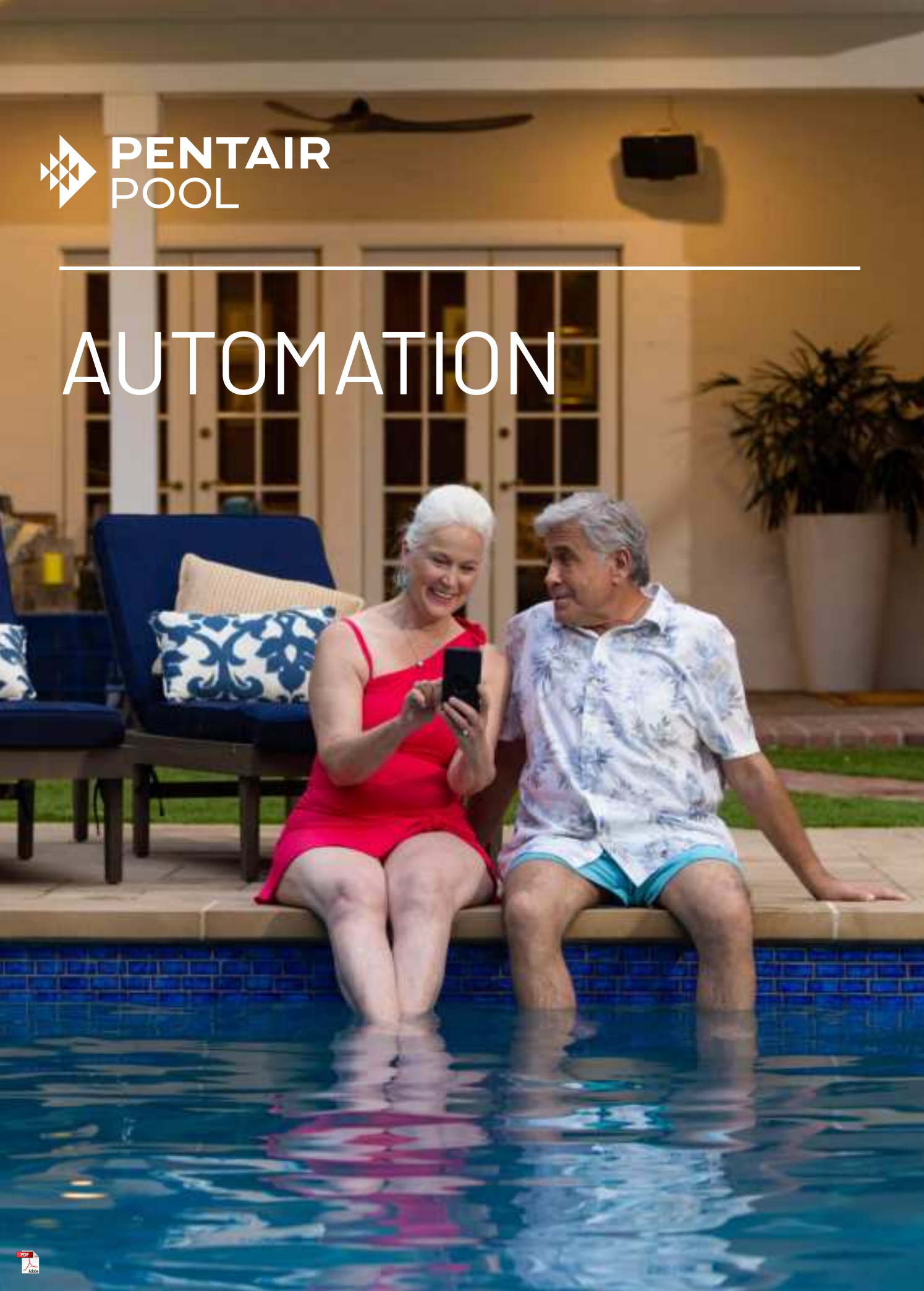# PENTAIR
POOL

AUTOMATION

AUTOMATION DONE RIGHT.

IntelliCenter® Pool Control System is the most versatile Pentair automation system, delivering better-than-ever technology you can count on. Easily expandable, this system is now powered by AWS® technology to help improve connectivity. This automation system is here to make your job easier than ever.

INTUITIVE TOUCHSCREEN FOR EASIER INSTALLATION AND SETUP
Spend less time in the backyard thanks to quicker, easier, step-by-step instructions and Over-the-Air (OTA) updates.

MORE CONSISTENT CONNECTIONS
Say goodbye to late-night service calls with a system powered by AWS technology for increased reliability and stability.

PROACTIVE REMOTE MONITORING
Offer upgraded service with a birds-eye view of all your customers' systems and sort your dashboard to better service your customers.

IMPROVED APP CONTROLS
The IntelliCenter2 app gives pool owners ultimate pool control from anywhere, anytime.

DEDICATED SUPPORT
Access our expert automation specialists when you need assistance.

IntelliCenter Lite System
Lighter where it counts.

- Offers up to five relays, i5P or i5PS bundle options
- Can work with existing breaker panel
- Smaller enclosure, designed with electricians in mind.
- Suitable for new pool installations or existing pools

IntelliCenter Upgrade Kit for EasyTouch®/IntelliTouch®
Bringing the latest automation technology to current systems.

- Smart upgrade for older pool automation systems
- Brings EasyTouch or IntelliTouch Control System up to date with modern features of the IntelliCenter Control System
- Expandable to accommodate new equipment add-ons and product upgrades

INTELLICENTER®
CONTROL SYSTEM FOR POOLS AND SPAS

TRADEGRADE

Featured Highlights

- Easy to program, with the Setup Wizard for step-by-step, on screen instructions
- Color touchscreen interface displays intuitive instructions in clear text and rich colors
- Convenient control from inside and outside the home via outdoor and indoor control panels and remotes
- Remote control and monitoring from anywhere, anytime with the Pentair Pool app and Pentair Pro app

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov.   P/N 200174.A

The IntelliCenter Pool Control System is the most versatile Pentair automation system, delivering better-than-ever technology you can count on. Easily expandable, this system is now powered by AWS® cloud technology for improved stability, connectivity, scheduling and reliable, centralized control for multiple pool devices, from water features to lights to pumps. This system makes pool life as easy as it should be.

Ordering Information

Product	Country	Description	Includes IntelliChlor® Cell	Includes SCG Transformer	Includes Two (2) IntelliValves
BUNDLED SYSTEMS (COMMON LOAD AND PERSONALITY KIT)					
523448	USA	IntelliCenter System (Load Center with i5P Personality Kit)	No	No	No
521905	USA	IntelliCenter System (Load Center with i5P Personality Kit)	Yes, IC40	Yes	No
521906	USA	IntelliCenter System (Load Center with i5PS Personality Kit)	Yes, IC40	Yes	Yes
521907	USA	IntelliCenter System (Load Center with i5PS Personality Kit)	No	No	Yes
521903	USA	IntelliCenter System (Load Center with i8PS Personality Kit)	Yes, IC40	Yes	Yes
521904	USA	IntelliCenter System (Load Center with i8PS Personality Kit)	No	No	Yes
521908	USA	IntelliCenter System (Load Center with i10PS Personality Kit)	Yes, IC40	Yes	Yes
523908	USA	IntelliCenter System (Load Center with i10D Personality Kit)	Yes, IC40	Yes	No
523915	USA	IntelliCenter System (Load Center with i10D Personality Kit)	No	No	No
523125	Canada	IntelliCenter System (Load Center with i5P-C/Personality Kit)	No	Yes	No
523126	Canada	IntelliCenter System with i5PS-C	No	Yes	Yes
523127	Canada	IntelliCenter System with i8PS-C	No	Yes	Yes
523909	Canada	IntelliCenter System with i10D-C	No	No	No

Note: Each system includes an outdoor wireless antenna. Pool/spa systems above include two IntelliValve® Valve Actuators.

INTELLICENTER UPGRADE KITS FOR EASYTOUCH AND INTELLITOUCH CONTROL SYSTEMS		
522045	IntelliTouch/EasyTouch to Next Gen Upgrade Kit - i10P, for LC/PC	Systems manufactured prior to 2012 (2003 to 2012)
522046	IntelliTouch/EasyTouch to Next Gen Upgrade Kit - i10PS, for LC/PC	Systems manufactured prior to 2012 (2003 to 2012)
523218	IntelliTouch to Next Gen Upgrade Kit - i10D, for LC/PC (was 523048)	Systems manufactured prior to 2012 (2003 to 2012)
523530	IntelliTouch/EasyTouch to Next Gen Expansion Upgrade Kit LC/PC	Systems manufactured prior to 2012 (2003 to 2012)
522047	IntelliTouch/EasyTouch to Next Gen Upgrade Kit - i10P, for CLC/CPC	Systems manufactured after 2012
522048	IntelliTouch/EasyTouch to Next Gen Upgrade Kit - i10PS for CLC/CPC	Systems manufactured after 2012
523049	IntelliTouch to Next Gen Upgrade Kit - i10D, for CLC/CPC	Systems manufactured after 2012
523529	IntelliTouch/EasyTouch to Next Gen Expansion Upgrade Kit CLC/CPC	Systems manufactured after 2012

INTELLICENTER® LITE
SYSTEM

INTELLICENTER LITE
SYSTEM

Featured Highlights

• Expandable to support additional relays and
functionality when new products are added
(i5P or i5PS bundle options)

• Designed with electricians in mind

• Get the functionality of the flagship IntelliCenter Pool
Control System including remote monitoring, optional
value Wi-Fi bridge, and color touchscreen

• Optional 900 MHz High Powered Wireless for
expanded control purchased separately

The IntelliCenter Lite System options support five relays
and each system includes a power center rather than a
load center with breaker panels. These options should
be used for IntelliCenter automation applications when
a load center with a breaker panel is not needed.

Ordering Information

STEP 1: PICK YOUR POWER CENTER

Product	Description	Application	Includes Two (2) Compool® Valve Actuators
BUNDLED SYSTEMS (COMMON LOAD AND PERSONALITY KIT)			
523910	IntelliCenter Lite System i5PS (Power Center with i5PS personality kit and two standard valve actuators) WITHOUT Wireless	5 Relay Pool & Spa Breaker Panel Not Included	Yes
523911	IntelliCenter Lite System i5P (Power Center with i5P personality kit) WITHOUT Wireless	5 Relay Pool Only Breaker Panel Not Included	No

STEP 2: PICK YOUR OPTIONAL WI-FI

Product	Description
WIRELESS CONNECTION OPTIONS	
523557	900 MHz Wireless Ethernet Link Kit Includes PoE module and Ethernet cables

INTELLICENTER®
CONTROL SYSTEM FOR POOLS AND SPAS SYSTEMS

A LA CARTE ORDERING
STEP 1: PICK YOUR LOAD AND POWER CENTER

Ordering Information

Product	Description	IntelliChlor Transformer
LOAD AND POWER CENTERS		
522041	Load Center (with Salt Chlorine Generator support)	Included
522042	Power Center (with Salt Chlorine Generator support)	Included
522043	Load Center (without Salt Chlorine Generator support)	Not Included
522044	Power Center (without Salt Chlorine Generator support)	Not Included

STEP 2: PICK YOUR PERSONALITY KIT

Product	Description	Body of Water Style	Motherboard	Daughter Card	No. of Additional Relays**
INTELLICENTER PERSONALITY KITS					
521909	IntelliCenter Personality Kit i5P	Single	i5P	N/A	0
521912	IntelliCenter Personality Kit i5PS	Shared Equipment	i5P	i5PS	0
521910	IntelliCenter Personality Kit i8P	Single	i5P	i8P	3
521913	IntelliCenter Personality Kit i8PS	Shared Equipment	i5P	i8PS	3
521911	IntelliCenter Personality Kit i10P	Single	i5P	i10P	5
521914	IntelliCenter Personality Kit i10PS	Shared Equipment	i5P	i10PS	5
521915	IntelliCenter Personality Kit i10D	Dual Equipment	i5P	i10D	5
522033*	IntelliCenter i5X Expansion Kit	—	i5X	N/A	0
522034*	IntelliCenter i10X Expansion Kit	—	i5X	i10x	5

*Expansion kits use an i5X motherboard. i5P motherboards cannot be used in expansion panels.
** Load center comes with five (5) 3 HP relays.

STEP 3: PICK YOUR ACCESSORIES

Product	Description	Notes
LOAD AND POWER CENTERS / SPACOMMAND REMOTES		
522035	IntelliCenter Indoor Control Panel, White Faceplate	
523059	IntelliCenter Indoor Control Panel, Black Faceplate	
522036	IntelliCenter Wireless Remote with Transceiver	
522038Z	IntelliCenter Valve Expansion Module	Adds six actuator ports to system (on main load center).
522039Z	Pool Cover Interface Expansion Board	Supports two covers.
523434	900 MHz High Power Wireless Ethernet Link Kit	Use for ScreenLogic.
523557	900 MHZ High Power Wireless Ethernet Link Kit	Use for IntelliCenter, IntelliCenter Lite, IntelliCenter Upgrade Kit.
544425	Cable POE/Ethernet High Power Wireless Bundle	900 MHz Wireless Cables
521177	SpaCommand Remote, Black with 250 ft. cable	
521178	SpaCommand Remote, White with 150 ft. cable	
521179	SpaCommand Remote, White with 250 ft. cable	
521180	Mudbox Accessory for recessing SpaCommand Remote into deck or tile. Includes cover plate and bezel.	

INTELLICENTER®
UPGRADE KIT FOR EASYTOUCH®/INTELLITOUCH® SYSTEMS

IntelliCenter Upgrade Kit for EasyTouch®/IntelliTouch® Systems

Featured Highlights

• All the benefits of the IntelliCenter system and the latest Pentair app experience

• Get the most advanced features of the IntelliCenter system

• Enjoy a joyful, effortless app experience

Replace older EasyTouch and IntelliTouch systems with the IntelliCenter system. Installs on the current wiring and housing, just change the bezel, board, and transformer.

Product	Description	Manufacture Date	Identify Bezel by Cutout	
LEGACY: RECTANGULAR CUTOUT				
522045	i 10 Pool		Legacy: Rectangular Cutout	
522046	i 10 Pool/Spa	2003-2012 (Legacy)		
523218	i 10 Dual			
523530	Expansion		EasyTouch	IntelliTouch
CURRENT: SQUARE CUTOUT				
522047	i 10 Pool		Current: Square Cutout	
522048	i 10 Pool/Spa	2012-2023 (Current)		
523049	i 10 Dual			
523529	Expansion		EasyTouch	IntelliTouch

INCLUDED:

Bezel, Personality Kit and High Power Wireless Kit
High Power Wireless Kit #523557

4AMP and 5AMP Circuit Breakers
#523345 (4AMP); #523346 (5AMP)

System Transformer
Current: #522102Z; Legacy: #522062Z (bracket included)

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⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
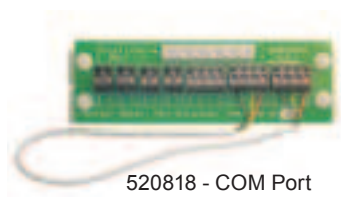www.p65warnings.ca.gov.   P/N 200174 A

INTELLICENTER® CONTROL SYSTEMS ACCESSORIES
POOL/SPA CONTROL SYSTEMS

Product	Description	Product	Description
	ACCESSORIES FOR INTELLICENTER SYSTEMS		
521885	Remote IS4 4-Button White 100'	520198	Two-Speed 3HP Relay
521889	Remote IS4 4-Button White 250'	RCS1	Additional Spa Jets Switch (for multiple jet pumps)
521886	Remote IS4 4-Button Grey 100'	521485	IntelliValve® Valve Actuator
521890	Remote IS4 4-Button Grey 250'	263045	Valve Actuator - Compool Compatible
521892	Remote IS4 4-Button Black 100'	520556	IntelliChlor® 20, IntelliChlor 40, IntelliChlor 60 Power Center
521894	Remote IS4 4-Button Black 250'	520588	IntelliChlor® Pass-through Cell for Winter or start-up
521179	SpaCommand® Spa Side Remote White 250'	520595	IntelliChlor replacement unions (contains 2 O-rings, 2 couplers, 2 nuts)
521500	SpaCommand® Replacement Plastics (black & white trim ring, mounting bracket, screws, and O-ring)	520734	IntelliChlor 15' extension power cord
521503	SpaCommand Replacement Labels (for white remotes)	520818	COM Port Expansion Module with 1' cable
522051	Wireless Control Panel (WCP) System	ESO3	Emergency Shut-Off Switch w/Audible Alarm
522054	Wireless Control Panel (WCP) Battery Replacement Kit	520967	Light Direct Connect Kit (eliminates need for j-box)
523355	Repeater Wireless Remote IntelliCenter System	AI101	Surge Suppressor for 115V transformer wiring
520272	Air & Water Temperature Sensor (white)	AI201	Surge Suppressor for 230V transformer wiring
522101	Solar Temperature Sensor (black)	520199	1000' COM cable, four conductor, 22 AWG
520106	3HP Relay for IntelliCenter and Legacy Automation Products		

520556 - IC20, IC40, IC60 Power Center

520818 - COM Port Expansion Module

521885 - iS4 Remote Control

SpaCommand Remote
TRADEGRADE

520554 - IntelliChlor IC20 Cell
520555 - IntelliChlor IC40 Cell
521105 - IntelliChlor IC60 Cell

INTELLICONNECT®
CONTROL AND MONITORING SYSTEM

TRADEGRADE

IntelliConnect Control and Monitoring System

Featured Highlights

- External antenna offers an average of more than 4.9 times greater reception distance than the original IntelliConnect* system for improved connectivity

- Enables smart connections to any of these Pentair devices: IntelliFlo® or IntelliPro® Pumps, IntelliChlor® or iChlor® Salt Chlorine Generators

- Allows for two relay connections to equipment like pool or landscape lights, pool cleaner booster pumps, or single-speed pumps including competitive models

- Provides real-time information on the status of the filtration system and other pool equipment

- Easily sets up and schedules automatic operation of connected equipment

*Results stated with Ericsson model for city deployment with antenna/unit installed at 1.8m (6ft).

IntelliConnect system allows pool owners to monitor and control various devices, including pumps, lights, salt chlorine generators, and more, all through the Pentair Pool app for easy, convenient control from anywhere. IntelliConnect system provides real-time information on the status of the filtration system and other pool equipment. Pool owners can command the system to work a little harder when extra filtration is needed.
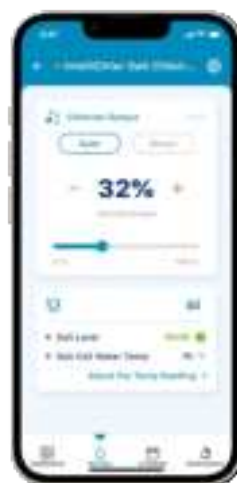
Ordering Information

Product	Description
INTELLICONNECT CONTROL AND MONITORING SYSTEM	
523317	IntelliConnect Control and Monitoring System

Pump Status

Desired Temperature

Chlorine Output

SEE PAGE 321 FOR REPLACEMENT PARTS

Pentair Pro App and Pool App

TAKE CONTROL FROM ANYWHERE

Connected Device Functionality for Pro & Pool App

Product	Pro App	Pool App
IntelliFlo3® Variable Speed and Flow Pool Pump IntelliPro3® Variable Speed and Flow Pool Pump	Invite Pool Owner to Pentair Pool App Program & Set Up through Bluetooth® [1] wireless technology The Pro app can also perform Wi-Fi Provisioning for IntelliFlo3 Service or modify settings with Bluetooth[1] wireless technology Remote Monitoring	Wi-Fi Provisioning Program, Monitor, & Control Ability to Program, Monitor, & Control via Bluetooth[1] wireless technology
IntelliConnect® Pool Control System	Remote Monitoring	Wi-Fi Provisioning Program, Monitor, & Control
Color Sync™ Controller for Pentair Color LED Pool Lights	N/A	Wi-Fi Provisioning Program, Monitor, & Control

GLOSSARY

Term	Description
Bluetooth® Wireless Technology	Local connection to device using the Bluetooth option.
Control	Ability to make adjustments, as needed, to update schedules or take immediate action.
Monitor	Check device status.
Program	Configure settings and create schedules.
Remote Monitoring	Visibility to a customer's pool device status. Ability to work with pool owner off-site. Future state will include capability to control remotely.
Set Up	Connect the pool device to the app and create or add to account.
Wi-Fi Provisioning	Connect device to router for wireless internet connection.

[1] Bluetooth can deliver a quick, direct connection to the device. Internet or cellular connection are required to open and use the Pro or Pool app for Bluetooth or Wi-Fi connectivity.

Wi-Fi Connection Best Practices: Continuous Wi-Fi connection to connected devices will support software updates and ongoing feature additions, even if it is connected to an automation system.

PENTAIR PRO

PENTAIR POOL

Download on the **App Store**

GET IT ON **Google Play**

Learn more at:
pentair.com/connectedpool

INTELLICENTER® POOL CONTROL SYSTEM
REMOTE MONITORING AND CONTROL

Get a bird's eye view of all your customers' systems in one dashboard.

• Proactively monitor customers' systems

• Assess problems before they become issues requiring a service call

• Connect to systems and control equipment from anywhere

• Allows for the ability to offer white glove service

SEE PAGE 321 FOR REPLACEMENT PARTS

SOLARTOUCH®
SOLAR CONTROL SYSTEM

TRADEGRADE

Featured Highlights

- Digital calibration of water and solar temperature in one degree increments
- Integrates with **IntelliFlo3® and IntelliPro3® Variable Speed and Flow Pumps**
- Set pool temperatures and solar temperature differentials with the touch of a button
- Solar valve automatically drains the solar collectors when pump shuts off
- Durable PTFE Seal
- LCD display
- LED indicator lights confirm SolarTouch automation is working. Service indicator LED shows when attention is required.
- Motorized valve actuator has steel gears, low-voltage motor: service switch for flow direction
- Weatherproof composite enclosure
- Nocturnal cooling and recirculation freeze protection with filter-pump timer override
- 3-year warranty

SolarTouch System

The SolarTouch Solar Control System offers full digital control for precise, efficient, swimming pool heating. The digital thermostat is set with the touch of a button and will monitor the temperature of the pool water and solar collectors. SolarTouch Control System integrates with IntelliFlo3 and IntelliPro3 VSF pumps.

Ordering Information

PRODUCT	DESCRIPTION
SOLARTOUCH SOLAR CONTROL SYSTEM	
521592	SolarTouch Solar Control System with 3-way solar drain down valve, valve actuator, and 2 temp sensor (20 ft. water, 40 in. solar)
521632	SolarTouch Solar Control System with 3-way Valve, valve actuator and 2 temp sensors (20 ft. water, 40 in. solar)
521590	SolarTouch Solar Control only

INTELLIVALVE®
VALVE ACTUATOR

TRADEGRADE

IntelliValve Valve Actuator

The IntelliValve Valve Actuator lets you set just the right flow for water features. Its intuitive controls and LED position indicator lights make operation fast and push-button easy. Thirteen (13) bright LEDs provide a clear visual indication of the valve position from fully open to fully closed and everywhere in between. Simply use the left/right and Save buttons to set the flow rate in just seconds.

Featured Highlights

- Thirteen (13) LEDs give precise, easy-to-read indication of valve position
- Built-in interface allows quick and simple set-up of water flow
- Sleek, minimalist design is compact and fits easily within any equipment pad
- Sealed, maintenance-free design is weatherproofed for reliability
- Suitable for 1.5", 2", 2.5" and 3" valve sizes.
- 24-volt operation for use with standard automation systems, 750 mA max amp draw
- Adjustable 3.75-degree increments within the maximum 180-degree swing

Ordering Information

Product	Description	
INTELLIVALVE VALVE ACTUATOR		
521485	For any Pentair Automation System	Compatible with control systems that use standard actuators

VALVE ACTUATOR
VALVE CONTROL SYSTEMS

TRADEGRADE

Featured Highlights

CVA24 Valve Actuator

- Helps Prevent dead-heading of pumps
- Corrosion-proof enclosure
- Service switch (for flow direction)
- ETL recognized
- UL listed for use with IntelliTouch® Automation
- Operates Compool®, Ortega®, or Jandy® Valves
- Compatible with all 24VAC Control Systems

Valve Actuator
Designed for use with 2-port and 3-port valves. Features maximum torque, 24VAC bi-directional motor.

Ordering Information

Product	Model	Voltage	Cable	Rotation	Compatibility	Motor
VALVE ACTUATOR						
263045	CVA24T	24 VAC	3-wire	180 deg.	3-port Compool/Ortega/Jandy Valves	Bi-directional

Jandy® is a registered trademark of Jandy Industries, Inc.

GFCI CIRCUIT BREAKERS

Featured Highlights

- Personnel Protection GFCI
- Meets 2008 to current NEC Standards for Pool Pumps
- Compatible with IntelliTouch® and EasyTouch® Control Systems
- Designed to protect personnel exposed to ground faults in AC, DC, and mixed AC/DC systems where levels exceed 6 milliamps

GFCI Circuit Breakers

Ordering Information

Product	Description	Carton Qty.	Carton Wt (Lbs.)
GFCI CIRCUIT BREAKERS			
P215GFA	2-pole 15 amp GFCI	10	11.50
P220GFA	2-pole 20 amp GFCI	10	11.50

LX80 & LX820 SYSTEMS
COMMERCIAL POOL/SPA CONTROL SYSTEMS

TRADEGRADE

LX802

Designed for a commercial pool and spa application. Provides Remote Spa Jets switch (suitable for outdoor locations) with electronic countdown timer (15/30 minutes).

Featured Highlights

LX802 Commercial Pool/Spa Control System

• Emergency Shut-off Switch (disables all pumps)

• Audio Alarm

• Power Center available at the equipment site, features: mechanical time clocks for the Pool and Spa Filter Pumps, power relays (3) for Pool and Spa Filter Pumps and Spa jet Pump and equipment service switches

LX8202 Emergency Shut-off System

• Emergency Shut-off Switch

• Audio Alarm

• Power Center at the equipment site with equipment status lights and power relays (2) for Spa Filter Pump and Jet Booster Pump

NOTE: System interfaces with existing Spring Wound Timer

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www.p65warnings.ca.gov.   P/N 200174-A

Ordering Information

Product	Circuits	Power Relays Std/Max	Circuit Breaker Capacity	Voltage	Relay Amp Inductive
LX80 & LX820 COMMERCIAL POOL/SPA CONTROL SYSTEMS					
LX802*	Pool Filter, Spa Filter, Jet1, Jet2	3 / 8	N/A	115V/230V	20
LX8202*	Spa Filter, Jet1, Jet2	2 / 3	N/A	115V/230V	20

* LX80 and LX820 systems standard relays included are 20 amp 2HP.

LX8202

Designed for retrofitting commercial spas where an emergency shut-off switch is required.

Product	Description
ACCESSORIES FOR LX80 COMMERCIAL POOL/SPA CONTROL SYSTEM	
RCS1	Additional Spa Jets Switch (for multiple jet pumps)
ES03	Emergency Shut-Off Switch w/Audible Alarm
RLYLX	Additional Power Relay (for auxiliary equipment)
RLYLX3HP**	Additional 25 Amp, 3 HP Power Relay (for auxiliary equipment)
RYALX	Harness to operate 2 Power Relays from one control circuit
ACCESSORIES FOR LX8202 COMMERCIAL POOL/SPA CONTROL SYSTEM	
RLYSC	Additional Power Relay (for second jet pump or filter pump)
RLYSC3HP	Additional 25 Amp, 3 HP Power Relay (for auxiliary equipment))

**Part number RLYLX3HP can be ordered if installing a 3HP pump.