



SpaCatalogue

BWG 2016 International Products Catalogue



Made in the USA

BALBOA
water group

Balboa Water Group

At Balboa Water Group, our fundamental commitment to the leisure water industry has been to provide a simple, comprehensive, one source solution to our products that include the highest quality in pumps, blowers, electronic control systems, jets, fittings and accessories. Our outlook has earned us the position of leading global supplier in our industry with state-of-the-art manufacturing, and an unsurpassed reputation for reliability. With nearly three decades of innovative design, expansion and development, BWG offers a complete line of products for your whirlpool bath or spa.

Balboa Water Group family of products includes the following global brands:

HydroAir and HydroAir International:

Supplies professional manufacturers (OEMs) of whirlpools and spas, system solutions, know-how and an extensive product range including pumps, blowers, hydrotherapy jets, electronic and pneumatic systems, underwater lights and other related articles. As the Balboa Water Group's European, Middle East and African branch, HydroAir International has an established reputation for superior quality and customer service, with a powerful team of sales representatives to support its customers.

Balboa Instruments:

Is a global supplier of electronic control systems and accessories for the leisure water industry. The latest in innovative design and technology include a new generation of spa controls, LED spa lighting, a family of UV and CD spa ozone generators, wireless remotes, spa entertainment products and diagnostic tools.

GG Industries

GG Industries, with its engineers, designers, developers and tool makers second to none in our industry, is able to create unique, quality products, maintaining a reputation for being a world leader in innovation and design. Using state-of-the-art computer-based design tools, any product can be taken from concept to completion, providing leading edge solutions to customers across the globe.



Your Single Source Solution

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Our outlook has earned us the position of leading global supplier in our industry with state-of-the-art manufacturing, and an unsurpassed reputation for reliability.



Valencia | California | USA
16,500 m²



Varde | Denmark
2,800 m²



Tustin | California | USA
11,000 m²

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We believe in working with other organizations to meet quality standards that provide lasting results, and ultimately meet and exceed our standards for the highest quality and expertise for the leisure water industry.



CE



UL



TÜV



NEMKO



VDE

Solutions & Services

We are fundamentally committed to customer satisfaction. Our customers know they can depend on us for quality, reliability and our exceptional performance standards. Balboa Water Group is proud to offer:



Personal Touch

We offer special customizations to create unique product looks and offerings to set our customers apart from the competition. Please call to inquire.



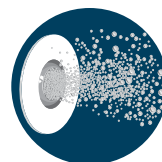
All in one kit

We offer specialized bundling capabilities that include everything our customers need for one spa all packed in one box.



Sales Support

Balboa Water Group is proud to offer an ongoing relationship between the OEMS and our customers where services are rendered throughout the product life cycle until the end of life. Our support includes warranty, upgrades and repair services.



Standard Product Offerings

We offer a wide range of products in various colors, in both metric and imperial. Please call to inquire.



spaTouch™

The all NEW touchscreen panel.

Your phone, car, microwave, thermostat all have them and now your tub does! Almost all new electronic devices today have touch screen interfaces. Now with Balboa's SpaTouch™, your tub can have one too!

See pages: pg. 9.



bwa™

Control Your Tub - Anytime, Anywhere, Anyplace

Download the free app and get connected.

See pages: pg. 11.



Plug N' Click Heater

Easy to Remove and Install

No need to deal with heater straps, screws, wrenches, or broken copper straps. All you need to do is plug-and-click and you're done!

See pages: pg. 13.



bba™

Balboa Bluetooth Audio

Listen to your favorite tunes from your smart device and control it from the convenience of easy to use menus

See pages: pg. 15.



Spa Systems

The latest in spa systems!

The NEW BP2000/2100 and BP500/601 systems designed by our Engineer to produce a much more efficient, reliable and smart system. All systems are flame retardant and Wi-Fi Enabled.

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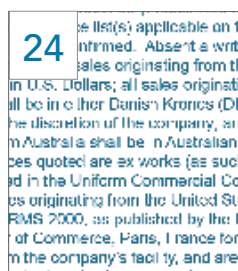
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Introducing the NEW

spaTouch™

ALL NEW DESIGN LOOK AND FEEL

NEW



spaTouch™

The all NEW touchscreen panel

Your phone, car, microwave, thermostat all have them and now your tub does! Almost all new electronic devices today have touch screen interfaces. Now with Balboa's spaTouch™, your tub can have one too!

Based on Balboa's patented touch panel technology, the new spaTouch™ is the next breakthrough in ease of operation for hot tubs. The intuitive screens make controlling your tub a breeze!

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bwa™ CONTROL YOUR TUB

AnytimeAnywhereAnyplace



CONTROL YOUR SPA

In Your Backyard • In Your House • In Your Office • Any Wi-Fi Hotspot • Any 3G/4G Data Network



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Easy to Remove and Install - PLUG N' CLICK HEATER

NEW

OLD



NEW



Announcing Balboa's NEW Plug N' Click Heater

No need to deal with heater straps, screws, wrenches, or broken copper straps. All you need to do is plug-and-click and you're done!



Plug N' Click Heater - Simple As 1-2-3



Step 1

Remove the 2 screws holding the heater system cover in place.



Step 2

Locate the heater power connector (J46).

Note: Your heater connector may be located in a different location if you have a different system shown above.



Step 3

Plug N' Click the heater power back in when you are done.

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Plug N' Click Heater

East to remove and install

Available For All BP Systems

Material No.	Product Descriptions
58300	Replacement Heater Assembly 3.0kW 800 Inc BP
58301	Replacement Heater Assembly 3.0kW 825 Inc BP
58302	Replacement Heater Assembly 3.0kW Titanium BP
58303	Replacement Heater Assembly 4.0kW 800 Inc BP
58304	Replacement Heater Assembly 4.0kW 825 Inc BP
58305	Replacement Heater Assembly 4.0kW Titanium BP
58306	Replacement Heater Assembly 5.5kW 800 Inc BP
58307	Replacement Heater Assembly 5.5kW 825 Inc BP
58308	Replacement Heater Assembly 5.5kW Titanium BP

Available For Non BP Systems

Includes adapter kit for connection to circuit board

Material No.	Product Descriptions	Replaces
58279	Replacement Heater 3.0kW 800 Inc VS/GS/EL/GL	58118
58275	Replacement Heater 3.0kW 825 Inc VS/GS/EL/GL	58107
58277	Replacement Heater 3.0kW Titanium VS/GS/EL/GL	55626
58280	Replacement Heater 4.0kW 800 Inc VS/GS/EL/GL	58104
58276	Replacement Heater 4.0kW 825 Inc VS/GS/EL/GL	58117
58281	Replacement Heater 4.0kW Titanium VS/GS/EL/GL	55625
58282	Replacement Heater 5.5kW 800 Inc VS/GS/EL/GL	58083
58283	Replacement Heater 5.5kW 825 Inc VS/GS/EL/GL	58089
58278	Replacement Heater 5.5kW Titanium VS/GS/EL/GL	55624

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Menu

NEW

bba™

Balboa Bluetooth Audio (Amp)

- Fully integrated with BP series controls
- Controlled by TP800/TP900 Panel
- Powers up to (8) 4ohm speakers
- Dedicated Subwoofer gain level control
- Water resistant design for spa use



Listen to your favorite tunes via Bluetooth connection from your smart device!

CD/DVD players, wired connections, stereos are hot tub entertainment options that have are outdated. Today's users prefer to listen to their own playlists that are stored on their smart devices (iPhone, Androids, Tablets, etc.). Hard wired connection using Apples proprietary connector or a jack from the headphone output is inconvenient and requires OEMs to install waterproof cubby holes in the skirt to house them. Users find it hard to switch music and access alternative songs.

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Technical Overview

The bba™ is a four channel, 120 Watts RMS Bluetooth wireless audio amplifier capable of delivering up to 30W RMS per channel. It has a compact, water resistant design that allows for flexible mounting possibilities. It is integrated into the BP systems and can be controlled via your smart device or a TP800 / TP900 / BPtouch™ panel.

System Specifications

- Speaker Impedance - 2-8 ohm
- Output Power
 - (2 ohm load) 30 Watts RMS per Channel (70W Peak)
 - (4 ohm load) 20 Watts RMS per Channel (50W Peak)
- Frequency Response - 20Hz-40kHz
- Low Pass Crossover- - 18 - 245 Hz
- Operating Voltage- - 13.8V DC (10V-16V)
- Maximum Current Draw (full power) - 5-8 amps
- Amp Dimensions (approx. l x w x h) - 214mm x 106mm x 35mm 8.4" x 4.2" x 1.4"
- Installation Clearance - 250mm free space top/sides
- Weight .68Kg /1.5lbs
- Control pad Cable Length - 610 cm/240 inches/20 feet
- Spa Lights Controls: 1 Amp Max



Material No. 59019

Installation Overview



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MICROSILK®

Your Reflection in the Past

Just Twenty Minutes a Day

MICROSILK®

EXCLUSIVELY BY **BALBOA**

MicroSilk® bundle package.

Material No. 58952-V

Includes: Pump, cable and plastic kit.

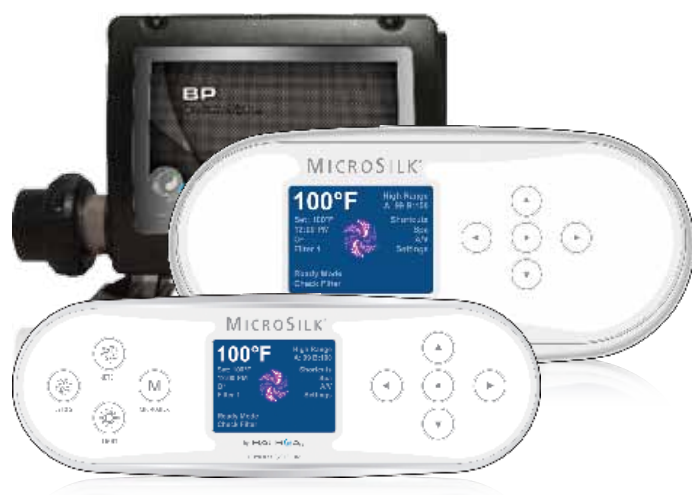
Visit us online for additional information. www.balboawater.com

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MicroSilk®

Incomparable System Reliability

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MicroSilk® – Hydrotherapy, Re-imagined
Water is a fundamental force of the universe. As humans we are mostly made up of water. Early civilizations were founded on proximity and access to water. Our planet is mostly water. Water is power. Water is beauty. Water is life. At least, that's what we believe here at Balboa. As a result we are dedicated to innovation and changing the ways you interact with water while at the same time bringing exciting new technological innovations and approaches to hydrotherapy. Look younger. Feel better. Increase your happiness, all with MicroSilk® Hydrotherapy for spas by Balboa Water Group.

BP2100 for MicroSilk® System Specifications

Material No.	Pump 1	Pump 2	Pump 3	Circ Pump	Blower	AV (Stereo)	Ozone	Spa Lights	Heater
56629-XX*	230V 2 Speed	230V 2 Speed	NA	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 800Inc
56630-XX*	230V 2 Speed	230V 2 Speed	NA	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 825Inc
56631-XX*	230V 2 Speed	230V 2 Speed	NA	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V Titanium

Topside Panels



Panel TP900

50262-XX* (TP900 with overlay 12720)
55994-XX* (TP900 no overlay)



Panel TP600

50014-XX* (TP600 with overlay 13142)
50336-XX* (TP600 with overlay 12740)
50015-XX* (TP600 no overlay)



Panel TP800

50261-XX* (TP800 with overlay 12719)
50261-XX* (TP800 with overlay 13141)
50204-XX* (TP800 no overlay)



Panel TP400

50260-XX* (TP400 with overlay 12741)
55701-XX* (TP400 no overlay)

MicroSilk Bundle Package

Material No. 58952-V

Includes: Pump, cable and plastic kit.

Visit us online for additional information. www.balboawater.com

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SpaElectronics
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NEW

BP2100/6013

"The Next Generation Of Spa Controls"

- New Software with Color Graphics
- Expandable, Configurable.
Supports Dozens of Spa Setups
- Comprehensive Diagnostics
- Multiple Languages
- Wi-Fi Enabled



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BP2100/6013

Incomparable System Reliability

BALBOA
water group

Announcing the all **NEW** BP2100/6013 Control System for Your Hot Tub



Features

- User friendly interface
- Unparalleled system reliability
- Manufacturing Flexibility
- Corrosion and resistant, chemical resistant heater



User Interface

- Intuitive menu
- Easy to read color display with graphics
- 5 Background color choices
- Smart chip will detects any problems in your hot tub
- Multiple languages with easy navigation
- State-of-the-art button technology (press & hold)
- Easy Navigation – Shortcuts
- Real time-clock
- Reminder messages
- Comprehensive diagnostics
- Dedicated button (left side)
- Screen size 2.75" (6.98cm) width x 1.75" (4.44cm) height

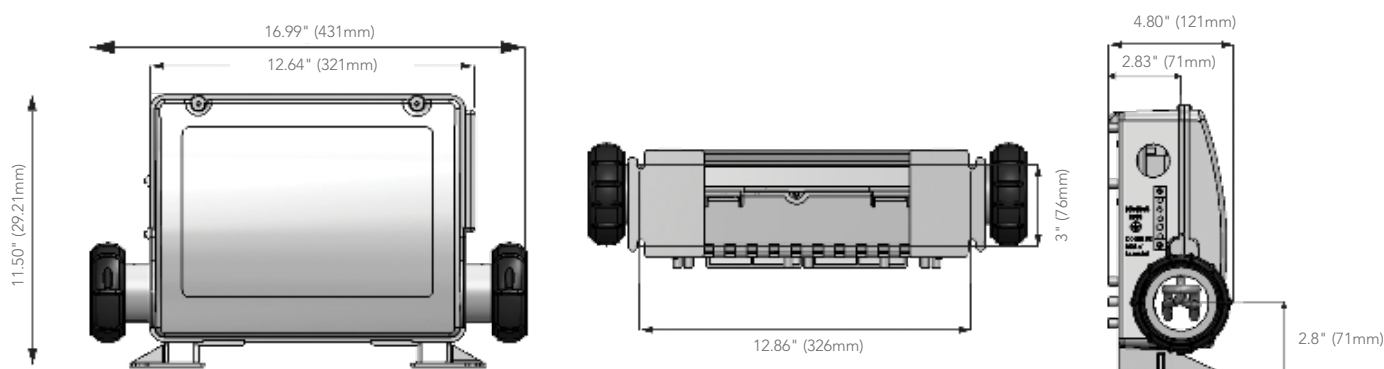


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The BP2100 is the first of a new series based on Balboa's most popular models, utilizing advanced technology and higher flame retardant and impact resistant materials. Wi-Fi Enabled with press and hold buttons for ease of use, meet the newly designed BP2100/6013.



BP2100 System Specifications

Material No.	Pump 1	Pump 2	Pump 3	Circ Pump	Blower	AV (Stereo)	Ozone	Spa Lights	Heater
56389-XX*	230V 2 Speed	230V 2 Speed	230V 2 Speed	Optional	Optional	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 800Inc
56390-XX*	230V 2 Speed	230V 2 Speed	230V 2 Speed	Optional	Optional	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 825Inc
56391-XX*	230V 2 Speed	230V 2 Speed	230V 2 Speed	Optional	Optional	230V	230V	10V @ 1A Max	1-3.0kW @ 230V Titanium

BP6013 System Specifications

Material No.	Pump 1	Pump 2	Pump 3	Circ Pump	Blower	AV (Stereo)	Ozone	Spa Lights	Heater
56610-XX*	230V 2 Speed	230V 1 Speed	Optional	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 800Inc
56611-XX*	230V 2 Speed	230V 1 Speed	Optional	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V 825Inc
56612-XX*	230V 2 Speed	230V 1 Speed	Optional	230V 1 Speed	230V 1 Speed	230V	230V	10V @ 1A Max	1-3.0kW @ 230V Titanium

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

Environmental	
Operating Temperature	-20°C (-4°F) to 60°C (140°F)
Storage Temperature	-25°C (-13°F) to 85°C (185°F)
Humidity	Humidity: up to 85% RH, non condensing
Mechanical	
Dimensions (W x H x D)	15.5" (39.38cm) x 14.8" (37.59cm) x 6.4" (16.25cm) (without tail pieces)
Enclosure	
IPx5	Metal Heater
Certification	
CE	

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BP2100/6013

Wi-Fi Enabled

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Wireless System Control

Now you can control your system wirelessly. With a few simple connections and some additional hardware you can have full control of your spa system. To download the software go to the Apple Apps store and download the free spa app, run through the quick setup and your done.



Wireless Connection

Wi-Fi Module (50350-XX*) and
Kit Wi-Fi Module (51159)

Powerful, Yet Simple User Interface

A sleek new topside panel includes a large easy to read back-lit LCD with simple to follow end user menus. With new press and hold button technology, setting temperature and other common tasks have been simplified. User navigation is intuitive and easier than ever, reducing customer service help calls.

Compatible Topside Panels



Panel TP400

• 4 button with LCD display

Material No.:

55702: No Overlay (TP400W)
55701: No Overlay (TP400T)
50259: With Overlay (12510)
50260: With Overlay (12511)



Panel TP600

• 6 button with
LCD display

Material No.:

55676: Overlay
56046: 15ft. Cord
55673: With Overlay (12101)
50014: For Int'l with overlay (12101)

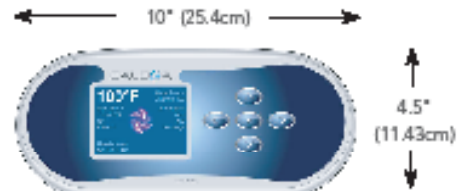


Panel TP800

• 8 button with LCD display

Material No.:

50204: No Overlay
50261: With Overlay (12512)



Panel TP900

• 5 button with LCD display

Material No.:

53994: No Overlay
50262: With Overlay (12513)

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

* TP400W has two temperature buttons ("Warm" and "Cool"). TP400T has one temperature button ("Temp").

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NEW



BP601

Meet the BP601

- Wi-Fi Ready
- New Features in New Enclosure
- The first of a new series of systems
- Press & Hold Buttons for ease of use
- Based on Balboa's most popular model's
- Higher flame retardant and impact resistant materials



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BP601

Transforming the Control of Hot Tubs

BALBOA
water group

Incomparable system reliability

The BP601 is the first of a new series based on Balboa's most popular models, utilizing advanced technology and higher flame retardant and impact resistant materials. Wi-Fi ready with press and hold buttons for ease of use, meet the newly designed BP601.

For serviceability, the new BP601 systems include a new single board configuration and have Balboa's new quick connect heater system – no more removing heater straps, just unplug the old heater and plug in a new one.

Announcing Balboa's NEW Plug N' Click Heater

No need to deal with heater straps, screws, wrenches, or broken copper straps. All you need to do is plug-and-click and you're done!



System Specifications	
Recommended Ozone Support	Balboa ozone (CE certified)
Voltage Supply	230V
Sensors	M7 patented temperature probes
Certifications	NEMKO
Spa Light Control	1AMP Max

System Material Number	Descriptions	Pump 1	Pump 2 or Blower	Pump 3 (Optional with Expander Card)	Heater
56497-XX*	SYSTEM BALBOA BP601G1 800INC – 50 Hz	2 spd or 1 spd with Circ	1 spd	NA	3.0 kW 800 Incoloy Element
56498-XX*	SYSTEM BALBOA BP601G1 825INC – 50 Hz	2 spd or 1 spd with Circ	1 spd	NA	3.0 kW 825 Incoloy Element
56499-XX*	SYSTEM BALBOA BP601G1 TITAN – 50 Hz	2 spd or 1 spd with Circ	1 spd	NA	3.0 kW Titanium Element

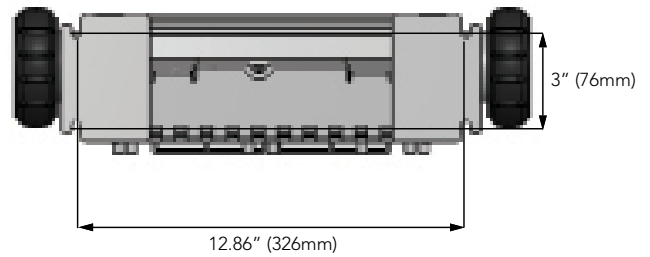
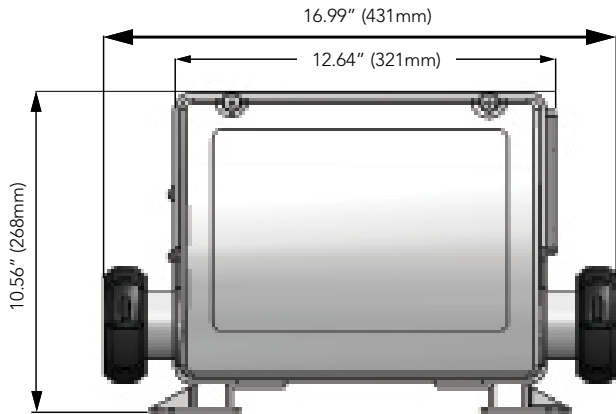
* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information. Available with 2.0 kW, 56562-XX.

Compatible Plumbing Kits (Coupling nuts and seals included)	
55911	2" Tailpieces (2-Speed Pump 1)

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Wireless System Control

Now you can control your system wirelessly. With a few simple connections and some additional hardware you can have full control of your spa system. To download the software go to the Apple Apps store and download the free spa app, run through the quick setup and your done.



Wireless Connection

Wi-Fi Module (50350-XX*) and
Kit Wi-Fi Module (51159)

Note: All spa installation or repairs must be done by a qualified electrician in accordance with the country or local electrical codes in effect at the time of installation.

Additional Hardware Needed For Wi-Fi Connections



Y-Cable 4 Pin (25657)



WI-FI Module (50350-XX*)

Dimension:

Width 3.75" (95.25mm)

Height 4.75" (102.65mm)

Depth: 1.125" (28.57mm)

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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BP601

Transforming the Control of Hot Tubs

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Documentation Not Required – New User Friendly Interface

The sleek new topside panel includes a large easy to read backlit LCD with simple to follow end user menus. With new press and hold button technology, setting temperature and other common tasks have been simplified. User navigation is intuitive and easier than ever, reducing customer service help calls.



Overlay 12198 (Jet 1, Jet 2, Flip, Warm, Light, Cool)



Overlay 12511 (Temp, Jets, Light, Aux)



Overlay 12101 (Jets, Aux, Flip, Warm, Light, Cool)



Overlay 12510 (Warm, Cool, Light, Jets)

Panel TP600

- 56046-XX* (TP600 15 ft cable no overlay)
- 56047-XX* (TP600 15 ft with overlay 12101)
- 50056-XX* (TP600 2 Jets with overlay 12198)
- 55673-XX* (TP600 with overlay 12101)
- 55676-XX* (TP600 no overlay)

Panel TP400

- 55701-XX* (TP400T no overlay)
- 50260-XX* (TP400T with overlay 12511)
- 55702-XX* (TP400W no overlay)
- 50259-XX* (TP400W with overlay 12510)

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

* TP400W has two temperature buttons ("Warm" and "Cool"). TP400T has one temperature button ("Temp").

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NEW

Advanced Hot Tub Control Systems **ALL** at your fingertip.



GS100

"Compact and Rich"

- Great for Tight Spaces
- 10" Remote M7[®] Heater
- Patented Piezo Panels
- Runs 1 Pump/Light/Ozone
- Energy Efficient



GS100

Compact & Rich

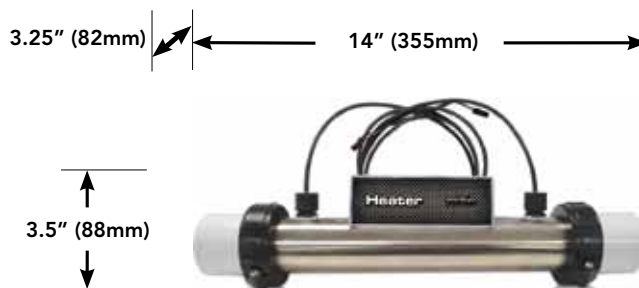
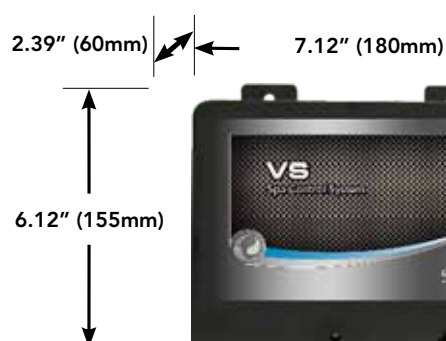
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Introducing the GS100 System, and update on a popular classic

The GS100 inherits the essence of Balboa's line of spa systems. It uses our classic, easy to operate panels, has minimal features needed for comfort, and is trustworthy. The GS100 is readily compatible with either domestic 120V or 240V input voltages for ease of installation. The pump has two speeds for two levels of comfort, and the soft EFX lighting adds to a comforting sensuous experience.

Measurements



GS100 System Specifications

Material No. With Descriptions	System Outputs	Lighting Options
54807-XX* KIT BALBOA GS100 2.0kW 240V HTR	50Hz System & Heater - 1kW Heater @ 120V, GFCI cord 1.5" x 10" Separate Heater Supports: 1, 2 Speed Pump 10V Light Ozone 120V/240V Switchable	MoodEFX Lighting
54806-XX* KIT BALBOA GS100 3.0kW 240V HTR	50Hz System & Heater - 3kW Heater @ 23V	MoodEFX Lighting

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

Base Panels with Measurements



VL401

6.3" (16cm) x 2.2" (5.58cm)



VL403

6.3" (16cm) x 2.2" (5.58cm)



VL406U

7" (17.78cm) x 3.4" (8.63cm)



VL406T

7" (17.78cm) x 3.4" (8.63cm)

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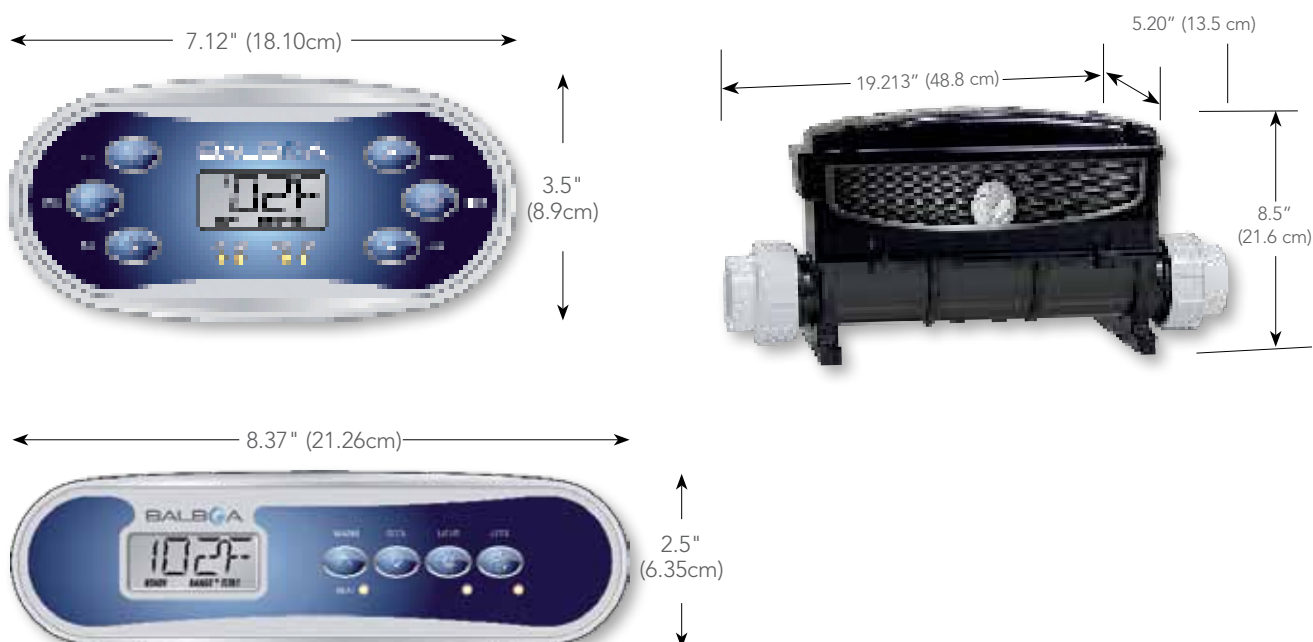
REVOLUTION - Transforming the Control of Hot Tubs

Balboa's Revolution hot tub control is setting a new industry standard for unmatched system reliability, manufacturing flexibility and end user friendliness.

Incomparable System Reliability

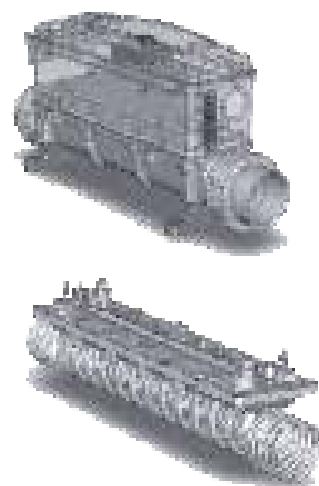
Utilizing advanced technology and high temperature corrosion proof mission critical materials from the automotive and other industries, the Revolution hot tub control systems all but eliminate leaks due to corrosion or harsh chemicals. Together with a newly designed, energy efficient heating coil that reduces element failures due to rattling, Balboa is providing peace of mind for the end-user.

Product Measurements



Revolution Standard Specifications

Recommended Ozone Support	Balboa ozone (UL and CE certified)
Sensors	M7 patented temperature probes
Certifications	UL and CE recognized
Spa Light Control	LED lights only (no incandescent lighting)



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Controls & Panels

Revolution™ Systems

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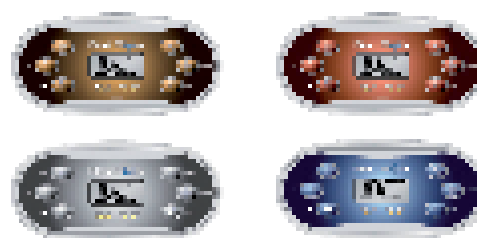


Features

- iPhone application
- Unparalleled system reliability
- Compact design
- Friendly user interface
- Versatile installation
- Corrosion resistant and chemical-resistant heater

Powerful, yet Simple User interface

The sleek new topside panel includes a large easy to read back-lit LCD with simple to follow end user menus. With new press and hold button technology, setting temperature and other common tasks have been simplified. User navigation is intuitive and easier than ever, reducing customer service help calls.



Overlay Article
No. 12198
(Jet 1, Jet 2, Flip,
Warm, Light, Cool)

Overlay Article
No. 12101
(Jets, Aux, Flip,
Warm, Light, Cool)

If you are interested in Customer overlays,
please contact Customer Service.

Revolution BP1600 System Specifications

Material No.	Pump 1	Pump 2/ Blower	Circ Pump & Ozone Combined	Spa Lights	Heater	Option Output
56129-XX*	1 or 2 Speed 230V	1 Speed 230V 8 Amp	230V	10V 1 Amp	3.0kW w/ incoloy element	4 Amp max.
56130-XX*	1 or 2 Speed 230V	1 Speed 230V 8 Amp	230V	10V 1 Amp	3.0kW w/ titanium element	4 Amp max.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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REVOLUTION™ - CE APPROVED
Material No.: 56129-XX*

Heater: 3.0kW, 800 Incoloy

This system can operate:
Pump 1: 1 or 2 Speed 230V

Pump 2/Blower: 1 Speed/230V/8Amp

Circ Pump & Ozone Combined: 230V

Spa Lights: 10V/1Amp

Heater: 3.0kW w/incoloy element

Option Output: 4 Amp Max.

REVOLUTION™ - CE APPROVED
Material No.: 56130-XX*

Heater: 3.0kW, Titanium

This system can operate:
Pump 1: 1 or 2 Speed 230V

Pump 2/Blower: 1 Speed/230V/8Amp

Circ Pump & Ozone Combined: 230V

Spa Lights: 10V/1Amp

Heater: 3.0kW w/titanium element

Option Output: 4 Amp Max.

TP600 TOPSIDE PANEL

- 6 button with LCD Display
- 7.12" wide x 3.5" tall approx.
18.1 cm wide x 8.9 cm tall

Material No.:

50014-XX*: Jet, Aux, Flip, Warm, Light, Cool

50015-XX*: No overlay


WI-FI MODULE

For iPhone®, iPad® and iPod® application

Apple items sold separately.

Material No.:

50350: Wi-Fi module

25657 Y-cable for Revolution

CABLE EXTENSIONS FOR TP PANELS

- 4 pins

Material No.:

25662 2 m/7ft cable

25662-1 7.5 m/25 ft cable

25662-2 15 m/50 ft cable

25662-3 30 m/100 ft cable

Auxiliary Freeze Sensor:

For extremely cold areas Auxiliary Freeze Sensor 22312 is available.

Metric adapter 50 mm:

All heaters are with 2" ID unions. For metric plumbing use reducer 20-0757 2" OD x 50 mm ID, or use tail piece 50084M which is 50mm.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

Controls & Panels

Revolution™ Systems & Auxiliary Panels



AX10 AUXILIARY PANEL

- 1 button
- Ø2.2" approx.
Ø5.6cm

Material No.:

52683-XX*:	Jet 1
52764-XX*:	Jet 2
54709-XX*:	Jet 3
52765-XX*:	Blower
52766-XX*:	Light



AX20 AUXILIARY PANEL

- 2 button
- 5.8" wide x 2.3" tall approx.
14.7cm wide x 5.8cm tall

Material No.:

52682-XX*:	Jet 1&2
52746-XX*:	Jet 1 & Blower



AX40 AUXILIARY PANEL

- 3 button
- 7.5" wide x 2.3" tall approx.
19.1cm wide x 5.8cm tall

Material No.:

52681-XX*:	Jet 1, Jet 2, Blower
------------	----------------------

CABLE EXTENSIONS FOR AUXILIARY PANELS

- 6 pins

Material No.:

11589-1:	7.5 m/25 ft cable
11589-2:	15 m/50 ft cable
11589-3:	30 m/100 ft cable

Auxiliary Freeze Sensor:

For extremely cold areas Auxiliary Freeze Sensor 22312 is available.

Metric tailpiece:

All heaters are with 2" ID unions. For metric plumbing 50 mm tailpiece 50084M is available.

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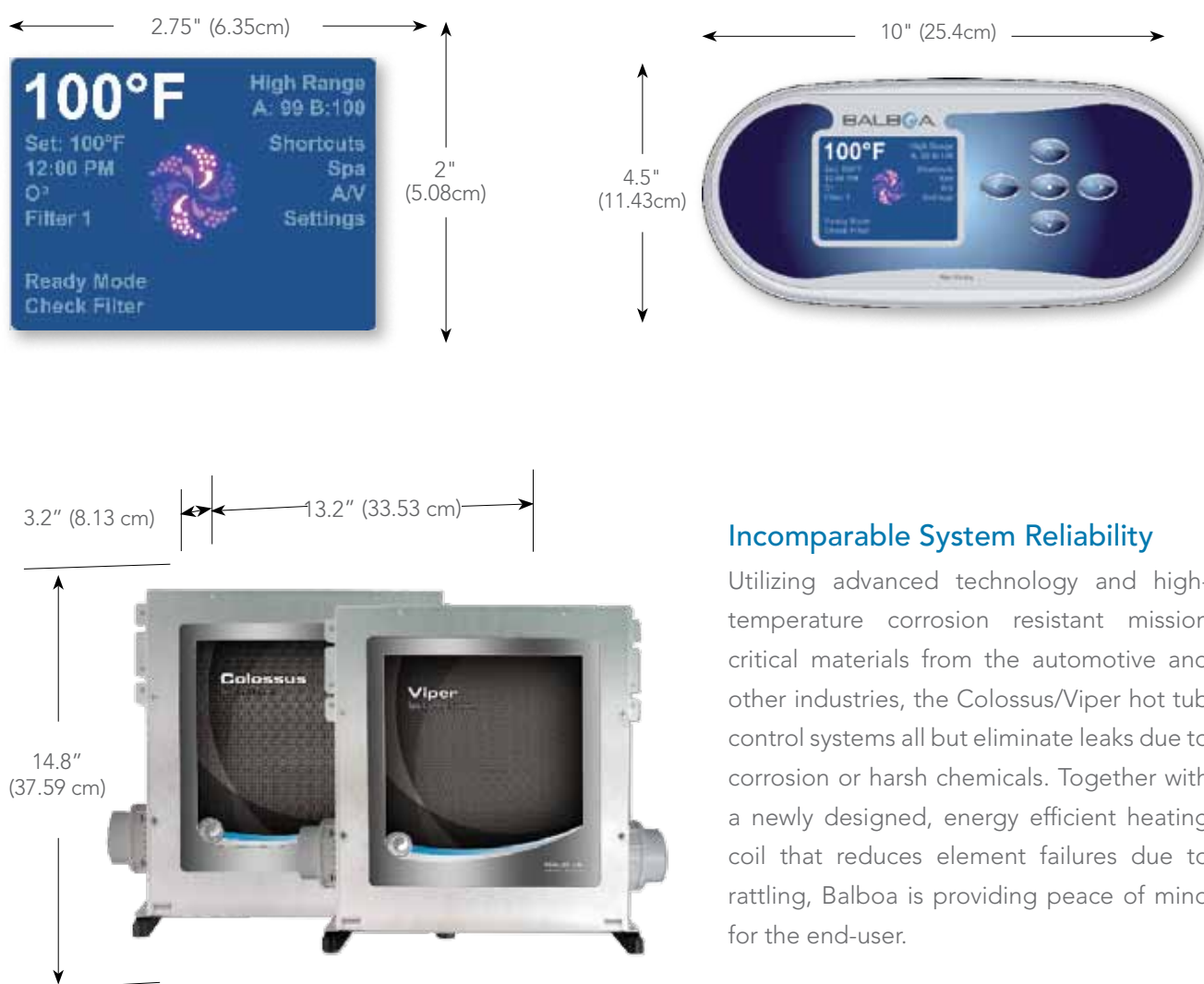
Colossus/Viper - Transforming the Control of Hot Tubs

Balboa's Colossus/Viper hot tub control is setting a new industry standard for unmatched system reliability, manufacturing flexibility and user-friendliness.

Powerful, Yet Simple User interface

A sleek new topside panel includes a large easy to read back-lit LCD with simple to follow end user menus. With new press and hold button technology, setting temperature and other common tasks have been simplified. User navigation is intuitive and easier than ever, reducing customer service help calls.

Product Measurements



Incomparable System Reliability

Utilizing advanced technology and high-temperature corrosion resistant mission critical materials from the automotive and other industries, the Colossus/Viper hot tub control systems all but eliminate leaks due to corrosion or harsh chemicals. Together with a newly designed, energy efficient heating coil that reduces element failures due to rattling, Balboa is providing peace of mind for the end-user.

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Controls & Panels

Colossus/Viper™ System

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Features

- iPhone application
- User friendly interface
- Unparalleled system reliability
- Manufacturing flexibility
- Corrosion resistant and chemical resistant heater
(in remote on Colossus and in box on Viper)

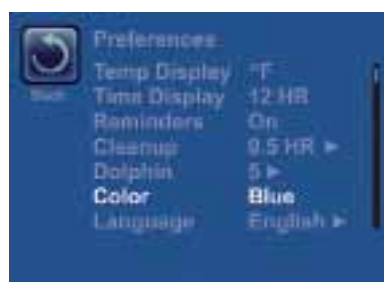
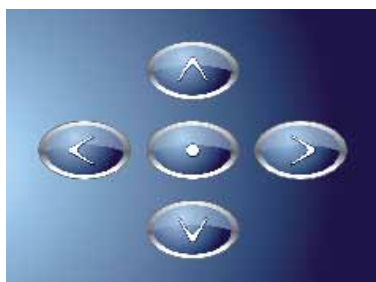
Control Panel

- Multiple languages with easy navigation
- Friendly user interface
- Stylish design



User Interface

- Intuitive menu
- Easy to read color display with graphics
- Background color interchangeable
- Multiple AV operations control your Stereo, TV and DVD
- Smart chip will detect any problems from your hot tub



Easy Navigation

- New button technology solid state
- Up/Down
- Left/Right
- Select

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Colossus/Viper System Specifications

Material No.	Pump 1	Pump 2	Pump 3	Circ Pump	Blower	AV (Stereo)	Ozone	Spa Lights	Heater
55976-XX*	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 1 Speed	230V 1 Speed	230V	230V	10V 1Amp	3.0kW @ 240V 800 Incoloy
55977-XX*	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 1 Speed	230V 1 Speed	230V	230V	10V 1Amp	3.0kW @ 240V Titanium

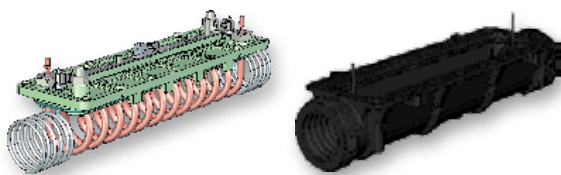
Note: Above are evaluation systems only. Colossus/Viper system models can be custom configured.



- High-tech, high-temperature resistant housing material
- Proven use in mission critical applications for automotive & other industries
- Employs a GFCI trip feature that cuts power in the event that a pump is stuck in the ON position



- Easy to read color digital display
- Multiple languages with easy navigation
- Friendly user interface with intuitive menus
- Easy access to all equipment from the main panel
- Easily change display to five different colors
- The most important information can be seen quickly from the main screen
- Panel displays reminders, heater and system related messages and test menus



- Chemical resistant heater element & sensors
- Low-watt density efficient coiled element
- Patented heater design eliminates "rattle"
- Corrosion resistant, chemical-resistant heater housing
- Titanium element option

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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Controls & Panels

Colossus/Viper™ System



COLOSSUS/VIPER™ - UL & CE APPROVED

Material No.: 55976-XX*

Heater: 3kW, Incoloy

Enclosure: IPX5 Thermoplastic heater

This system can operate:

- Pump 1, 230V, 2 Speed, 12A Max, 15 min. timer
- Pump 2, 230V, 2 Speed, 12A Max, 15 min. timer
- Pump 3, 230V, 2 Speed, 12A Max, 15 min. timer
- Blower, 230V, 1 Speed, 12A Max, 15 min. timer
- Circ Pump (This is the heater pump), 230V, 1 Speed, 2A Max,
- Ozone, 230V, 0.5A Max, Separate relay
- Spa Light, 10V, On/Off, 2A Max, 240 min. timer
- AV (Stereo), 230V, Hot, 5A Max, Always on



COLOSSUS/VIPER™ - UL & CE APPROVED

Material No.: 55977-XX*

Heater: 3kW, Titanium

Enclosure: IPX5 Thermoplastic heater

This system can operate:

- Pump 1, 230V, 2 Speed, 12A Max, 15 min. timer
- Pump 2, 230V, 2 Speed, 12A Max, 15 min. timer
- Pump 3, 230V, 2 Speed, 12A Max, 15 min. timer
- Blower, 230V, 1 Speed, 12A Max, 15 min. timer
- Circ Pump (This is the heater pump), 230V, 1 Speed, 2A Max,
- Ozone, 230V, 0.5A Max, Separate relay
- Spa Light, 10V, On/Off, 2A Max, 240 min. timer
- AV (Stereo), 230V, Hot, 5A Max, Always on



TP900 TOPSIDE PANEL

- 5 button with LCD Display
- 10" wide x 4.5" tall approx.
25.4 cm wide x 11.4 cm tall

Material No.:

50262-XX:

55994: No overlay



TP800 TOPSIDE PANEL

- 9 button with LCD Display
- 10" wide x 3.5" tall approx.
25.4 cm wide x 8.9 cm tall

Material No.:

50261-XX:

50204: No overlay

CABLE EXTENSIONS FOR TP PANELS

- 4 pins

Material No.:

25662

2 m/7ft cable

25662-1

7.5 m/25 ft cable

25662-2

15 m/50 ft cable

25662-3

30 m/100 ft cable

Auxiliary Freeze Sensor:

For extremely cold areas Auxiliary Freeze Sensor 22312 is available.

Metric tailpiece:

All heaters are with 2" ID unions. For metric plumbing 50 mm tailpiece 50084M is available.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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Global Series (GS) of Spa Controls

The Global Series (GS) of spa control systems were designed using Balboa's patented M7 temperature flow and sensor technology and a new universal control platform. These features increase the reliability, ease of installation and serviceability of the control.

Designed for easy installation and service

The GS family is based on a common universal control platform, which increases feature flexibility while reducing installation and configuration problems. The GS family has exceptionally good feature flexibility, so its performance is competitive with much higher end products. The units incorporate Balboa's patented M7 temperature probe technology, which eliminates the more failure prone pressure switches and simplifies the installation process by not having to drill additional holes in the spa.

Product Measurements



Features

All controls have the following features:

- Circulation pump, 24 hrs or 1.5C safety shut off
- Spa light 10V/12W on/off
- Audio/visual device power output
- Ozone ready

Flexible, High Reliability, Feature Rich

The systems have a plastic enclosure to eliminate water intrusion. Connectors are built onto the circuit board minimizing wires and simplifying service. The different models have controls for a single 2-speed pump or and additional blower or pump. All models feature a power supply that is wired to 230V, support multiple topside panels and offer 1, 2 and 3 kW heater.

GS System Specifications

System	Material No.	Pump 1	Pump 2	Pump 3	Blower	Circ Pump	AV (Stereo)	Ozone Voltage	Spa Lights	Heater	VL Panel
GS500Z M7	54523-XX*	230 V 2 Speed	-	-	-	230V	230V	230V	10V	2.0kW	400, 401, 402, 403, 404, 406
GS500Z M7	54509-XX*	230V 2 Speed	-	-	-	230V	230V	230V	10V	3.0kW	400, 401, 402, 403, 404, 406
GS501Z M7	54511-XX*	230V 2 Speed	230V 1 Speed (if no blower)	-	230V 1 Speed (if no pump 2)	230V	230V	230V	10V	3.0kW	400, 401, 402, 403, 404, 406
GS511Z M7	54519-XX*	230V 2 Speed	230V 2 Speed	-	-	230V	230V	230V	10V	3.0kW	400, 401, 402, 403, 404, 406
GS501SZ M7	55248-XX*	230V 2 Speed	230V 1 Speed (if no blower)	-	230V 1 Speed (if no pump 2)	230V	230V	230V	10V	2.0kW	600, 700, 701, 702
GS501SZ M7	54515-XX*	230V 2 Speed	230V 1 Speed (if no blower)	-	230V 1 Speed (if no pump 2)	230V	230V	230V	10V	3.0kW	600, 700, 701, 702
GS504SZ M7	54650-XX*	230V 2 Speed	230V 1 Speed	-	-	230V	230V	230V	10V	3.0kW	600, 700, 701, 702
GS510SZ M7	54517-XX*	230V 2 Speed	230V 1 Speed	-	230V 1 Speed	230V	230V	230V	10V	3.0kW	700, 701, 702
GS511SZ M7	54521-XX*	230V 2 Speed	230V 2 Speed	-	-	230V	230V	230V	10V	3.0kW	600, 700, 701, 702
GS501DZ M7	55250-XX*	230V 2 Speed	230V 1 Speed (if no blower)	-	230V 1 Speed (if no pump 2)	230V	230V	230V	10V	3.0kW	801, 802
GS510DZ M7 (3-phase)	55415-XX*	230V 2 Speed	230V 1 Speed	-	230V 1 Speed	230V	230V	230V	10V	3.0kW	801, 802
GS523DZ M7	54763-XX*	230V 2 Speed	230V 1 Speed	230V 1 Speed	230V 1 Speed	230V	230V	230V	10V	3.0kW	801, 802

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GS500Z M7 SYSTEM - CE APPROVED
Material No.: 54523-XX*

Heater: 2kW, 800 incoloy

Panels: VL401, VL403

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS501Z M7 SYSTEM - CE APPROVED
Material No.: 54511-XX*

Heater: 3kW, 800 Incoloy

Panels: VL401, VL402

This system can operate:

- Blower, One-speed (if no pump 2)
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (if no blower)
- CIRC pump, 24hr operation w/1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


VL400 LITE DUPLEX PANEL

- 4 button with LCD Display
- 7.5" wide x 2.3" tall approx.
19.1cm wide x 5.8cm tall

Material No.:

55129-XX*:	Light, Temperature, Jet, Auxiliary
50176-XX*:	Light, Temperature, Jet 1, Jet 2
50175-XX*:	Light, Temperature, Jet
55130:	No overlay


GS500Z M7 SYSTEM - CE APPROVED
Material No.: 54509-XX*

Heater: 3kW, 800 Incoloy

Panels: VL401, VL403

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS511Z M7 SYSTEM - CE APPROVED
Material No.: 54519-XX*

Heater: 3kW, 800 Incoloy

Panels: VL401, VL402, VL403, VL404

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, Two-speed
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


VL401 LITE DUPLEX PANEL

- System:** 500Z, 501Z, 511Z
- 4 button with LCD Display
- 6.3" wide x 2.2" tall approx.
16cm wide x 5.6cm tall

Material No.:

54094-XX*:	Blower, Jet, Light, Temperature
54665-XX*:	Jet, Light, Cool, Warm
54135-XX*:	Blank, Jet, Temperature, Light
54251-XX*:	Jet, Jet, Temperature, Light
52424:	No overlay

Controls & Panels

GS500Z Systems & Duplex panels



VL402 DUPLEX DIGITAL PANEL

- System: 501Z, 511Z
- 4 button with LCD Display
 - 7.3" wide x 3.2" tall approx.
18.5cm wide x 8.1cm tall

Material No.:

- 54093-XX*: Blower, Light, Jet, Set
54100-XX*: Light, Jet, Set
54107-XX*: Jet 2, Light, Jet 1, Set
51876: No overlay



VL403 LITE DUPLEX PANEL

- System: 500Z, 511Z
- 4 button with LED Display
 - 6.3" wide x 2.2" tall approx.
16cm wide x 5.6cm tall

Material No.:

- 51676-XX*: Blower, Jet, Temp, Light
54105-XX*: Blank, Jet, Temperature, Light
52345-XX*: Jet, Light, Warm, Cool (White)
54664-XX*: Jet, Light, Cool, Warm
54160: No overlay



VL404 DUPLEX DIGITAL PANEL

- System: 511Z
- 4 button with LED Display
 - 7.3" wide x 3.2" tall approx.
18.5cm wide x 8.1cm tall

Material No.:

- 51223-XX*: Set, Blower, Jet, Light
51248-XX*: Set, Jet 2, Jet 1, Light
51225-XX*: Set, Blank, Jet, Light
54145: No overlay



VL406T DUPLEX DIGITAL PANEL

- 4 button with LCD Display
- 7.0" wide x 3.4" tall approx.
17.8cm wide x 8.6cm tall

Material No.:

- 55349-XX*: Jet, Blower, Light, Temperature
55570-XX*: Jet 1, Jet 2, Light, Temperature
50217-XX*: Jet, Light, Temperature
50210: No overlay (3 m/10 ft cable)
50195: No overlay (5.4 m/18ft cable)
50222: No overlay (7.5 m/25ft cable)



VL406U DUPLEX DIGITAL PANEL

- 4 button with LCD Display
- 7.0" wide x 3.4" tall approx.
17.8cm wide x 8.6cm tall

Material No.:

- 55350-XX*: Jet, Light, Warm, Cool
55417: No overlay



CABLE EXTENSIONS FOR VL PANELS

- 8 pins

Material No.:

- 30311: 3 m/10 ft cable
22640: 15 m/50 ft cable

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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GS501SZ M7 SYSTEM - CE APPROVED
Material No.: 55248-XX*

Heater: 2kW

Panel: VL600, VL701S

This system can operate:

- Blower, One-speed (if no pump 2)
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (if no blower)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS504SZ M7 SYSTEM - CE APPROVED
Material No.: 54650-XX*

Heater: 3kW, 800 Incoloy

Panel: VL701S

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (if no blower)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS511SZ SYSTEM - CE APPROVED
Material No.: 54521-XX*

Heater: 3kW, 800 Incoloy

Panel: VL600S, VL700S, VL701S

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, Two-speed
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS501SZ M7 SYSTEM - CE APPROVED
Material No.: 54515-XX*

Heater: 3kW, 800 Incoloy

Panel: VL600, VL701S

This system can operate:

- Blower, One-speed (if no pump 2)
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (if no blower)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS510SZ M7 SYSTEM - CE APPROVED
Material No.: 54517-XX*

55401-01 (3-phase)

Heater: 3kW, 800 Incoloy

Panel: VL700S, VL701S, VL702S

This system can operate:

- Blower, One-speed
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready

Controls & Panels

GS500SZ Systems & Serial Standard Panels



VL600S SERIAL STANDARD PANEL

System: 501SZ, 511SZ

- 6 button with LCD Display
- 7.0" wide x 3.4" tall approx.
17.8cm wide x 8.6cm tall

Material No.:

54547-XX*:	Jet, Blower, Light, Warm, Cool, Mode
54548-XX*:	Jet 1, Jet 2, Light, Warm, Cool, Mode
54681-XX*:	Jet, Aux, Light, Warm, Cool, Mode
54546:	No overlay



VL700S SERIAL STANDARD PANEL

System: 510SZ, 511SZ

- 7 button with LCD Display
- 9.8" wide x 3.1" tall approx.
24.9cm wide x 7.9cm tall

Material No.:

53811-XX*:	Light, Blower, Jet 1, Jet 2, Warm, Cool, Mode
54716-XX*:	Light, Blank, Jet 1, Jet 2, Warm, Cool, Mode
53812:	No Overlay



VL701S SERIAL STANDARD PANEL

System: 501SZ, 510SZ, 511SZ

- 7 button with LCD Display
- 7.4" wide x 3.3" tall approx.
18.8cm wide x 8.4cm tall

Material No.:

55390-XX*:	Light, Mode, Jet 1, Jet 2, Jet 3, Warm, Cool
53189-XX*:	Blower, Mode, Jet 1, Jet 2, Light, Warm, Cool
54170-XX*:	Aux, Mode, Jet 1, Jet 2, Light, Warm, Cool
51247-XX*:	Mode, Jet 1, Jet 2 Light, Warm, Cool
51057-XX*:	Mode, Jet, Blower, Light, Warm, Cool
54112:	No overlay



VL702S SERIAL STANDARD PANEL

System: 510SZ

- 7 button with LCD Display
- 10.3" wide x 4.6" tall approx.
26.2cm wide x 11.7cm tall

Material No.:

54652-XX*:	Blower, Mode, Jet 1, Jet 2, Light, Warm, Cool
54539:	No overlay



CABLE EXTENSIONS FOR VL PANELS

- 8 pins

Material No.:

30311:	3 m/10 ft cable
22640:	15 m/50 ft cable

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GS501DZ M7 SYSTEM - CE APPROVED
Material No.: 55250-XX*

Heater: 3kW, 800 Incoloy

Panel: VL801D, VL802D

This system can operate:

- Blower, One-speed (if no pump 2)
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (if no blower)
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


GS523DZ M7 SYSTEM - CE APPROVED
Material No.: 54763-XX*

Heater: 3kW, 800 Incoloy

This system can operate:

- Blower, One-speed
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed
- Pump 3, One-speed
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


VL802D DELUXE DIGITAL PANEL
System: 501DZ

- 8 button with LCD Display
- 10.3" wide x 4.6" tall approx.
- 26.2cm wide x 11.7cm tall

Material No.:

54528-XX*: Time, Mode/Prog., Warm, Cool, Blower,
Light, Jet 1, Jet 2

54562: No overlay

Auxiliary Freeze Sensor:

For extremely cold areas Auxiliary Freeze Sensor 22312 is available.

Metric tailpiece:

All heaters are with 2" ID unions. For metric plumbing 50 mm tailpiece 50084M is available.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.


GS510DZ M7 SYSTEM - CE APPROVED
Material No.: 55106-XX*

55415-01 (with 3-phase)

Heater: 3kW, 800 Incoloy

Panel: VL801D

This system can operate:

- Blower, One-speed
- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed
- CIRC pump, 24hr operation w/ 1.5°C (3°F) safety shut-off
- Spa light, 10V 12W, On/Off
- Audio/Visual device power output
- Ozone ready


VL801D DELUXE DIGITAL PANEL
System: 501DZ, 510DZ

- 8 button with LCD Display
- 7.4" wide x 3.3" tall approx.
- 18.8cm wide x 8.4cm tall

Material No.:

54108-XX*: Time, Mode/Prog., Warm, Cool, Blower,
Light, Jet 1, Jet 2 (OL 10763)

54128-XX*: Time, Mode/Prog., Warm, Cool, Blower,
Light, Jet, Auxiliary (OL 10823)

54142-XX*: Time, Mode/Prog., Warm, Cool, Blank,
Light, Jet, Aux, (OL 10841)

51058-XX*: Warm, Time, Light, Cool, Jet 1, Blower
(OL 10299)

54121: No Overlay


CABLE EXTENSIONS FOR VL PANELS

- 8 pins

Material No.:

30311: 3 m/10 ft cable

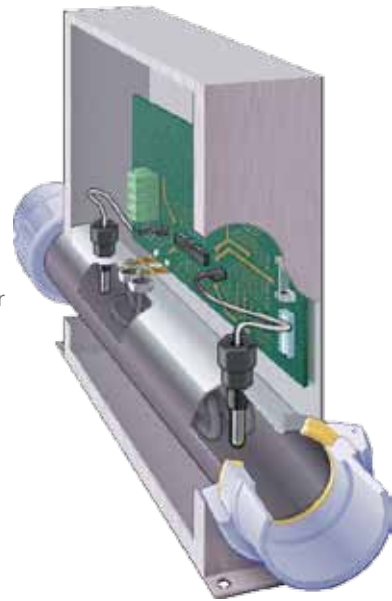
22640: 15 m/50 ft cable

Controls & Panels

GS Expansion Options - Spare Parts

M7 means.....

- 1 Patented algorithms to monitor safety
- 2 Patented technology to prolong heater element life
- 3 Can be plumbed from suction or pressure side making plumbing easier
- 4 Dual temp sensors in heater prolongs heater life
- 5 Reduces failures by eliminating pressure switches
- 6 Reduces costs by eliminating external temperature probe & wire
- 7 Saves labor by eliminating drilling hole in tub



Did you know

...M7® systems offer a longer life expectancy than traditional, non-M7 technology?

Balboa's systems feature automated diagnostics, electronic non-pressure switches, and dip switches, some of which can be configured in the field for greater flexibility.

...M7® sensors monitor each other via software to accurately measure water flow and temperature?

These smart sensors offer multiple high-limit safety systems, eliminate excessive cycling and automatically adapt to flow direction.

...Most of the components in a spa create electrical noise that can interfere with a variety of spa equipment?

To suppress this noise, Balboa's line of controls features built-in hardware and software filters that optimize hot tub electrical operations.

...Having output connectors onboard eliminates the maze of wires in the enclosure and ultimately reduces assembly time, corrosion and the margin for error?

Connectors that are mounted on the board are less susceptible to corrosion and are less likely to come loose since they are inside the enclosure. This also means that there are fewer holes in the enclosure so the entire system is protected against moisture and chemical intrusion.

...High amperage components such as heaters, pumps and blowers can cause undo wear and tear on relays if they are not turned on correctly?

Balboa's EL/GL line of controls uses "zero crossing technology," so those components are turned on and off at the optimal zero crossing of AC power. This means relays can be expected to last virtually a lifetime.

...Moisture can cause premature failure of a membrane switch no matter how small?

Balboa's patented Piezo switch technology makes our panels more reliable due to its design with no moving parts, no contacts, no air gaps and no electrical current to cause problems.

...Piezo switches are user friendly?

Not only is the Piezo moisture proof, but the panel can be installed facing the inside of the tub for ease-of-use by the tub owner. The Piezo is also four times larger than the average membrane switch, which makes it the perfect size for a fingertip.

...The selling price of a spa pack system is only a fraction of its comprehensive lifetime cost?

Equipment failure and servicing costs can be staggering over the life of a product. That's why Balboa builds the highest reliability products available and even provides remote diagnostic tools to help OEM manufacturers and service technicians cut costs in the installation and repair processes.

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Hot Tub Control Systems

The Global Series (GL) family of hot tub control systems were designed using Balboa's patented M7 temperature and water flow sensing technology and a new universal control platform. These features increase the reliability, ease of installation and serviceability of the control. Innovative features include having output connectors on the board, which eliminates a maze of wires in the enclosure and ultimately reduces assembly time and margin for error.



GL8000 Enclosure
Metal Enclosure



GL2000 and GL2001
Plastic Enclosure

Features

All controls have the following features:

- Output connectors on the board
- State of the art design
- CE Approvals
- Rigid heater mounting enclosure
- Cable capture mounting system
- Plastic enclosures available on certain models

Flexible, High Reliability, Feature Rich

The systems have a plastic enclosure to eliminate water intrusion. Connectors are built onto the circuit board minimizing wires and simplifying service. The different models have controls for a single 2-speed pump and/or additional blower or pump. All models feature a power supply that is wired to 230V, support multiple topside panels and offer 1, 2 and 3 kW heater.

Controls & Panels

GL2000 & 8000 Systems & ML Panels

GL System Specifications

System	GL2000	GL2000	GL2001	GL2001	GL8000	GL84P
Material no.	55048-XX*	53885-XX*	55216-XX*	53883-XX*	53859-XX*	N/A
Pump 1	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 2 Speed
Pump 2	230V 1 Speed	230V 1 Speed	230V 2 Speed	230V 2 Speed	230V 2 Speed	230V 2 Speed
Pump 3	-	-	-	-	230V 2 Speed	230V 1 Speed
Pump 4	-	-	-	-	-	230V 1 Speed
Circ Pump	230V	230V	230V	230V	230V	230V
Blower	230V 1 Speed	230V 1 Speed	230V 1 Speed	230V 1 Speed	230V 1 Speed	
AV Stereo	230V	230V	230V	230V	230V	12V
Ozone	230V	230V	230V	230V	230V	120V
Lights	10V	10V	10V	10V	10V	10V
Mister	-	-	-	-	230V	
Fibre Optic Light & Wheel	-	-	-	-	230V	230V
Heater	3.0kW 800 Incoloy	3.0kW 825 Incoloy	3.0kW 800 Incoloy	3.0kW 825 Incoloy	3.0kW	3.0kW
ML Panel	400, 550, 551 700, 900	400, 550, 551 700, 900	400, 550, 551 700, 900	400, 550, 551 700, 900	400, 550, 551 700, 900	400, 550, 551 700, 900

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

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GL2000 MACH 3

Material No.: 55048-XX*

Heater: 3kW, 800 Incoloy heater with M7 sensors

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (2-speed option)
- Blower, One-speed

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready



GL2000 MACH 3

Material No.: 53885-XX*

Heater: 3kW, 825 Incoloy heater

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, One-speed (2-speed option)
- Blower, One-speed

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready



GL2001 MACH 3

Material No.: 55216-XX*

Heater: 3kW, 800 Incoloy heater with M7 sensors

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, Two-speed (1-speed option)
- Blower, One-speed

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready



GL2001 MACH 3

Material No.: 53883-XX*

Heater: 3kW, 825 Incoloy heater

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, Two-speed (1-speed option)
- Blower, One-speed

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready



GL8000 MACH 3

Material No.: 53859-XX*

Heater: 3kW, 800 Incoloy heater with M7 sensors

This system can operate:

- Pump 1, Two-speed (One-speed with CIRC)
- Pump 2, Two-speed (One-speed option)
- Pump 3, Two-speed (One-speed option)
- Blower, One-speed

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready



GL84P

Material No.: 56168-XX*

Heater: 3kW, 800 Incoloy heater

This system can operate:

- Pump 1, Two-speed
- Pump 2, Two-speed (One-speed option)
- Pump 3, Two-speed (One-speed option)
- Pump 4, Two-speed (One-speed option)

- CIRC pump, One-speed
- Spa light, 10V/230V, On/Off
- Audio/Visual device power output
- Ozone ready

Controls & Panels

GL2000 & 8000 Systems & ML Panels



ML400 PANEL

System: GL2000, GL2001, GL8000

- 4 button with LCD Display
- 7.5" wide x 2.3" tall approx.
- 19.1cm wide x 5.8cm tall.

Material No.:

- 52684-XX*: Jets, Aux, Temp, Light (Blue)
54460-XX*: Jets, Aux, Temp, Light (Grey)
53291: No overlay



ML550 PANEL

- 7 button with LCD Display
- 13.7" wide x 2.5" tall approx.
- 34.8cm wide x 6.4cm tall.

Material No.:

- 54726-XX*: Jet 1, Jet 2, Jet 3/Blower, Light, Mode, Cool, Warm (Blue)
55989-XX*: Jet 1, Jet 2, Jet 3, Jet 4, Light, Mode, Cool, Warm (Blue)
53392-XX*: Jet 1, Jet 2, Blower, Light, Mode, Cool, Warm (Grey)
53393: No overlay



ML551 CLEAR PANEL

System: GL2000, GL2001, GL8000

- 7 button with LCD Display
- 7.4" wide x 3.3" tall approx.
- 18.8cm wide x 8.4cm tall.

Material No.:

- 53502-XX*: Light, Jet 1, Jet 2, Blower, Mode, Warm, Cool (Blue)
55304-XX*: Light, Jet 1, Jet 2, Jet 3, Mode, Warm, Cool (Blue)
55600-XX*: Light, Jet 1, Mode, Jet 2, Jet 3, Jet 4, Warm, Cool
50806-XX*: Light, Jet 1, Blower, Mode, Warm, Cool (White)
53503: No overlay



ML700 CLEAR PANEL

System: GL2000, GL2001, GL8000

- 8 button with LCD Display
- 9.8" wide x 3.1" tall approx.
- 24.9cm wide x 7.9cm tall

Material No.:

- 55693-XX*: Light, Jet 1, Jet 2, Jet 3, Time, Mode/Prog, Warm, Cool (Blue)
55609-XX*: Light, Jet 1, Blower, Time, Mode/Prog, Warm, Cool (Blue)
52649-XX*: Light, Jet 1, Jet 2, Blower, Time, Mode/Prog, Warm, Cool (Grey)
53567-XX*: Light, Jet 1, Jet 2, Jet 3, Time, Mode/Prog, Warm, Cool (Grey)
54506-XX*: Light, Jet 1, Jet 2, Blower, Time, Mode/Prog, Warm, Cool (Grey)
52798-01: No overlay



ML900 PANEL

System: GL2000, GL2001, GL8000

- 12 button with LCD Display
- 11.7" wide x 3.2" tall approx.
- 29.7cm wide x 8.1cm tall

Material No.:

- 52654-XX*: Jet 1, Jet 2, Jet 3, Option, Invert, Fiber, Light, Blower, Time, Mode/Prog, Cool, Warm
54589-XX*: Jet 1, Jet 2, Jet 3, Jet 4, Invert, Fiber, Light, Option, Time, Mode/Prog, Cool, Warm
55536-XX*: Jet 1, Jet 2, Jet 3, Jet 4, Invert, Light, Blower, Option Time, Mode/Prog, Cool, Warm
55580-XX*: Jet 1, Jet 2, Jet 3, Jet 4, Invert, Light, Blower, Option, Time, Mode/prog, Cool, Warm
52797: No overlay



CABLE EXTENSIONS FOR ML PANELS

- 8 pins

Material No.:

- 11588: 2 m/7 ft cable
11588-1: 7.5 m/25 ft cable
11588-2: 15 m/50 ft cable
11588-3: 30 m/100 ft cable

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AX10 AUXILIARY PANEL

- 1 button
- Ø2.2" approx.
- Ø5.6cm

Material No.:

52683-XX*:	Jet 1
52764-XX*:	Jet 2
54709-XX*:	Jet 3
52765-XX*:	Blower
52766-XX*:	Light



AX20 AUXILIARY PANEL

- 2 button
- 5.8" wide x 2.3" tall approx.
- 14.7cm wide x 5.8cm tall

Material No.:

52682-XX*:	Jet 1&2
52746-XX*:	Jet 1 & Blower



AX40 AUXILIARY PANEL

- 3 button
- 7.5" wide x 2.3" tall approx.
- 19.1cm wide x 5.8cm tall

Material No.:

52681-XX*:	Jet 1, Jet 2, Blower
------------	----------------------



AX40 AUXILIARY PANEL

- 4 button
- 7.5" wide x 2.3" tall approx.
- 19.1cm wide x 5.8cm tall

Material No.:

52678-XX*:	Jet 1, Jet 2, Blower, Light
------------	-----------------------------

CABLE EXTENSIONS FOR AUXILIARY PANELS

- 6 pins

Material No.:

11589-1:	7.5 m/25 ft cable
11589-2:	15 m/50 ft cable
11589-3:	30 m/100 ft cable

Auxiliary Freeze Sensor:

For extremely cold areas Auxiliary Freeze Sensor 22312 is available.

Metric tailpiece:

All heaters are with 2" ID unions. For metric plumbing 50 mm tailpiece 50084M is available.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

Controls & Panels

Spare Parts for Controls

Spare Part Overview

System	Article number	Replacement Board	Replacement Heater	Replacement Sensor
Revolution	56129-02	56131/56132	3kW 55969	53605
Revolution	56130-02	56131/56132	3kW 55970	53605
Colossus/Viper	55976-02	55865/56064	3kW 55978	53605/32016
Colossus/Viper	55977-03	55865/56064	3kW 58153	53605/32016
GS500Z	54523-01	55432	2kW 58145	53605
GS500Z	54509-01	54510-01	3kW 58118/58107	53605
GS501Z	54511-01	54512-01	3kW 58118/58107	53605
GS511Z	54519-02	54520-02/53427	3kW 58118/58107	53605
GS501SZ	55248-03	55319-01	2kW 58145	53605
GS501SZ	54515-02	54516-02	3kW 58118/58107	53605
GS504SZ	54650-01	54651-01	3kW 58118	53605
GS510SZ	54517-02	54518-02/53547	3kW 58118/58107	53605
GS510SZ	55401-01	55402-01/55025	3kW 58118/58107	53605
GS511SZ	54521-02	54522-02/53427	3kW 58118/58107	53605
GS501DZ	55250-01	55251-01	3kW 58118/58107	53605
GS510DZ	55106-01	55107-01/53547	3kW 58118/58107	53605
GS510DZ	55415-01	55416-01/55025	3kW 58118/58107	53605
GS523DZ	54763-01	55857-01/55138	3kW 58118/58107	53605
GL2000, 800 Inc	55048-04	53708-04	3kW 58118/58107	53605
GL2000, 825 Inc	53885-04	53708-04	3kW 58118/58107	53605
GL2001, 800 Inc	55216-03	53975-04/53311	3kW 58118/58107	53605
GL2001, 800 Inc	53883-04	53975-04/53311	3kW 58118/58107	53605
GL8000, M7	53859-04	53860-04	3kW 58143CE/58061TUV	53605
GL84P	56168-01	53169-01	3kW 58143CE/58061TUV	53605

Plug N' Click Heaters For All BP Systems

Material No.	Product Descriptions
58300	Replacement Heater Assembly 3.0kW 800 Inc BP
58301	Replacement Heater Assembly 3.0kW 825 Inc BP
58302	Replacement Heater Assembly 3.0kW Titanium BP
58303	Replacement Heater Assembly 4.0kW 800 Inc BP
58304	Replacement Heater Assembly 4.0kW 825 Inc BP
58305	Replacement Heater Assembly 4.0kW Titanium BP
58306	Replacement Heater Assembly 5.5kW 800 Inc BP
58307	Replacement Heater Assembly 5.5kW 825 Inc BP
58308	Replacement Heater Assembly 5.5kW Titanium BP

Plug N' Click Heaters For Non BP Systems (Includes adapter kit for connection to circuit board)

Material No.	Product Descriptions	Replaces
58279	Replacement Heater 3.0kW 800 Inc VS/GS/EL/GL	58118
58275	Replacement Heater 3.0kW 825 Inc VS/GS/EL/GL	58107
58277	Replacement Heater 3.0kW Titanium VS/GS/EL/GL	55626
58280	Replacement Heater 4.0kW 800 Inc VS/GS/EL/GL	58104
58276	Replacement Heater 4.0kW 825 Inc VS/GS/EL/GL	58117
58281	Replacement Heater 4.0kW Titanium VS/GS/EL/GL	55625
58282	Replacement Heater 5.5kW 800 Inc VS/GS/EL/GL	58083
58283	Replacement Heater 5.5kW 825 Inc VS/GS/EL/GL	58089
58278	Replacement Heater 5.5kW Titanium VS/GS/EL/GL	55624

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AMP PIN CONNECTOR MALE

To be used for connecting bare lead to Balboa control panels

Material No.:

40-1691: Incl. 2 pins (for light)
 40-1692: Incl. 4 pins (for 2-speed pump)



AMP CABLES

Material No.:

59102: Cable for 59xxx lights, 2.4 m
 43-0335: Cable for other lights, 2.0 m
 21086: Cable for 1-speed pump, 1.8 m
 21087: Cable for 2-speed pump, 1.8 m
 40-1695: Cable for blower and ozonator, 2.0 m



2.0 AND 3.0 KW HEATER

- Plastic box enclosure
- With sensors
- For GS and GL 2000 series

Material No.:

58145: 2kW 800 incoloy heater assembly with M7
 58118: 3kW 800 incoloy heater assembly with M7
 58107: 3kW 825 incoloy heater assembly with M7



3.0 KW HEATER

- Metal box enclosure
- With sensors
- For GL 8000 series only

Material No.:

58143CE: 800 incoloy heater assembly with M7
 58061TUV: 825 incoloy heater assembly with M7



SLAVE HEATER - CE/UL APPROVED

- Plastic box enclosure

Material No.:

58133: Includes 3kW 800 Incoloy heater assembly



HEATER UNION

Material No.:

55911: Union kit for Revolution systems
 50086: Split nut for Colossus/Viper, GS & GL systems
 50084: Union tail piece 2" ID for Colossus/Viper, GS & GL systems
 50084M: Union tail piece 50 mm ID for Colossus/Viper, GS & GL systems

Controls & Panels

System Size Comparison



GS100 System

Measurements:

Width 7.12" (180mm), Height 6.12" (155mm), Depth 2.39" (60mm)



Revolution System

Measurements:

Width 19.21" (48.8cm), Height 8.5" (21.60cm), Depth 5.20" (13.50cm)



Colossus/Viper System

Measurements:

Width 13.20" (33.53cm), Height 14.80" (37.59cm), Depth 3.20" (8.13cm)



BP601 and GS System

Measurements:

Width 13" (33cm), Height 12" (30.48cm), Depth 5" (12.70cm)



BP2100, GL2000 and GL2001 System

Measurements:

Width 13" (33cm), Height 12.75" (32.38cm), Depth 5" (12.70cm)



GL8000 System

Measurements:

Width 12.25" (31.11cm), Height 15.02" (38.15cm), Depth 3.56" (9.04cm)

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Remotes

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Remotes

Wi-Fi module/Wireless Remotes



WI-FI MODULE

For All BP Systems, Revolution and Colossus/Viper systems

Material No.:

50350-XX For All BP Systems, Revolution, Colossus/
Viper systems
25657 Y-cable for Revolution only
51159 Wi-Fi Kit



ROUND REMOTE

Works with all GS and GL systems

Material No.:

53306-01 4 buttons



4 LED IR REPEATER

Material No.:

52437 IR Repeater with 4 LEDs



INFRARED RECEIVER - STANDARD & DELUXE PANELS

Material No.:

52435-01 Standard & Deluxe panels. Designed for
GS5xxSZ and GS5xxDZ
52452 Duplex panels. Designed for GS5xxZ



UNIVERSAL RECEIVER

Designed for Colossus/Viper and GL systems

Mach3 IR receivers are not interchangeable.

Material No.:

52751 Mach 1
53236 Mach 2
54329 Mach 3

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc. Check with customer service for additional information.

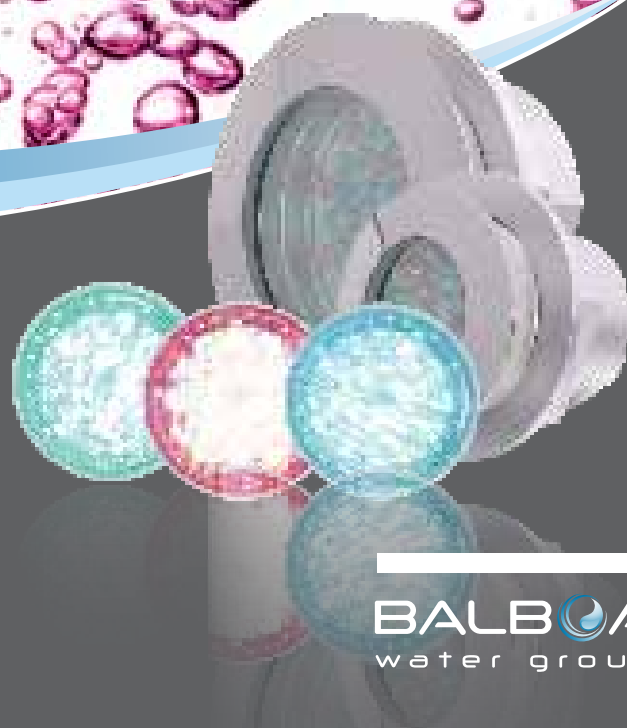
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Lights

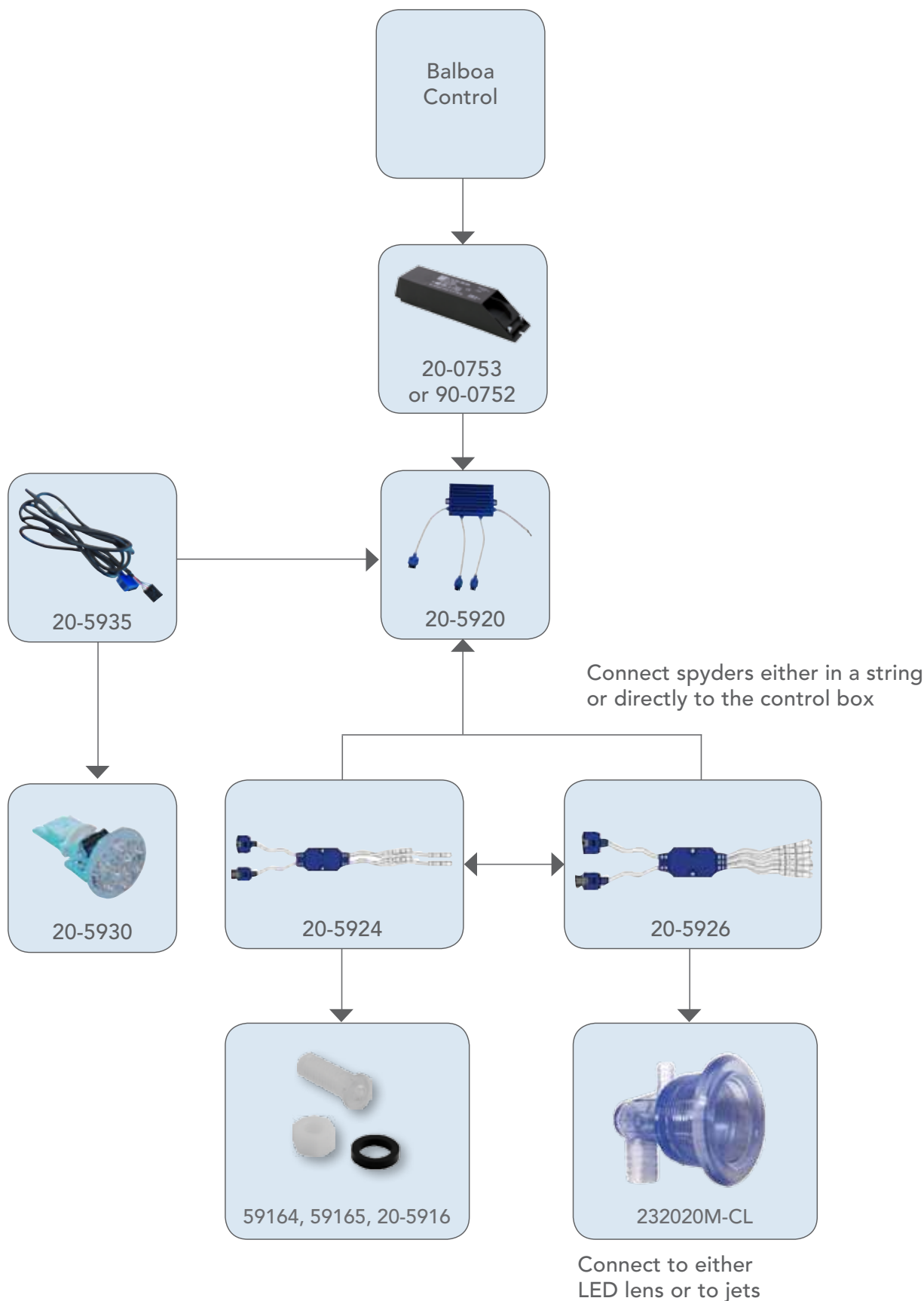
Your Single Source Solution



BALBOA
water group

String Lights with Master Light

For lighted jets/components or lenses



Your Single Source Solution

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The String Lights can add that little extra to your whirlpool or spa.

With the 6 brilliant colours and the colour transition program, you can add a touch of exclusivity to your whirlpool system.

The string lights can be connected to any system with a 12V AC connection, or can be used as a stand-alone system, if connected to a control box and a LED button or other button/panel. Connect up to 24 lights in one system.



CONTROL BOX

Connect up to 50 LEDs. Colour change cycle and colour stop option choose a colour to match your mood.

Article no.:

20-5920

Description:

12V 1.5A



LED SPYDER LIGHTS

For string connection

Incl. rubber boots for lenses or lighted jets/components

Article no.:

20-5924

Description:

4 x LED spyder, cables: 2 x 60 cm + 2 x 96 cm



LED SPYDER LIGHTS

For string connection

Incl. rubber boots for lenses or lighted jets/components

Article no.:

20-5926

Description:

6 x LED spyder, cables: 6 x 120 cm



MASTER LIGHT

Connect more master lights.

Ex. 2 master lights + up to 32 LED's in a spa.

Article no.:

20-5930

Description:

9 LED Master light. Fits bath/spa light 5900 or 59350



SLIMLITE Ø83 MM

Stainless steel, incl. attached transformer
Hole size 65 mm
230V/50Hz, cable length 1.5 m.
Note: For use in Balboa controls, cut of transformer and add AMP con. 40-1691

Material No.:

21-1970-5	Cool white 4W LED
21-1972-5	Warm white 4W LED
21-1973-5	Blue 4W LED



SLIMLITE Ø83 MM COLOUR CHANGE

Stainless steel, incl. attached transformer
Hole size 65 mm
230V/50Hz, cable length 1.5 m
Note: For use in Balboa controls, cut of transformer and add AMP con. 40-1691

Material No.:

21-1971-5	7 colours 4W LED
-----------	------------------



CABLE

Article no.:

59169

Description:

Cable to connect more master light in a string, 3m.



AMP PIN CONNECTOR MALE

To be used for connection of bare lead to Balboa control panel

Article no.:

40-1691

Description:

2 pin connector (for light)



LED LENS Ø13 MM ROUND

Hole size 10 mm

Material No.:

59164	LED lens round, thread length 27 mm
59165	Nut for 59164
20-5916	Level washer for 59164



CABLE

Article no.:

20-5935

Description:

Cable for master light 20-5930, 1.8 m



Aromatherapy

Your Single Source Solution





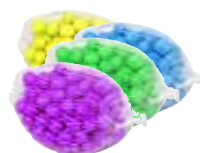
AROMATHERAPY BEAD DISPENSER

Material No.:

13881 Dispenser housing sub.
13883 Strip Dispenser.

NEW!

46105 Light Ring for Aromatherapy



BEAD SCENTS

Yellow: Energy
Blue: Tranquility
Green: Romance
Purple: Relaxing

Material No.:

10404-V Bead Scents
10400-V Strip Scents



DISPENSER CAP

Material No.:

13889-XX Breeze Aroma Therapy Cap



DISPENSER CAP

Material No.:

13887-XX Aroma Therapy Scalloped Cap



DISPENSER CAP

Material No.:

13886-XX Breeze Aroma Therapy Cap



Ozone

Your Single Source Solution





OZONATOR, CD CHIP

50 mg/h
110-240V, 50/60 Hz, 6W
CUR/UR, CE, RoHS approved
Expected life time 9,000 hours

Material No.:

54449

Black plastic housing, with 1.5 m AMP cable.
Includes 1.5 m 6 mm ID tube and check valve



OZONATOR, CD CARTRIDGE

75 mg/h
110-240V, 50/60Hz, 8.5W
CUR/UR, CE, RoHS approved
Expected life time 15,000 hours

Material No.:

54451

Black plastic housing with 1.5 m AMP cable.
Includes 1.5 m 6 mm ID tube and check valve



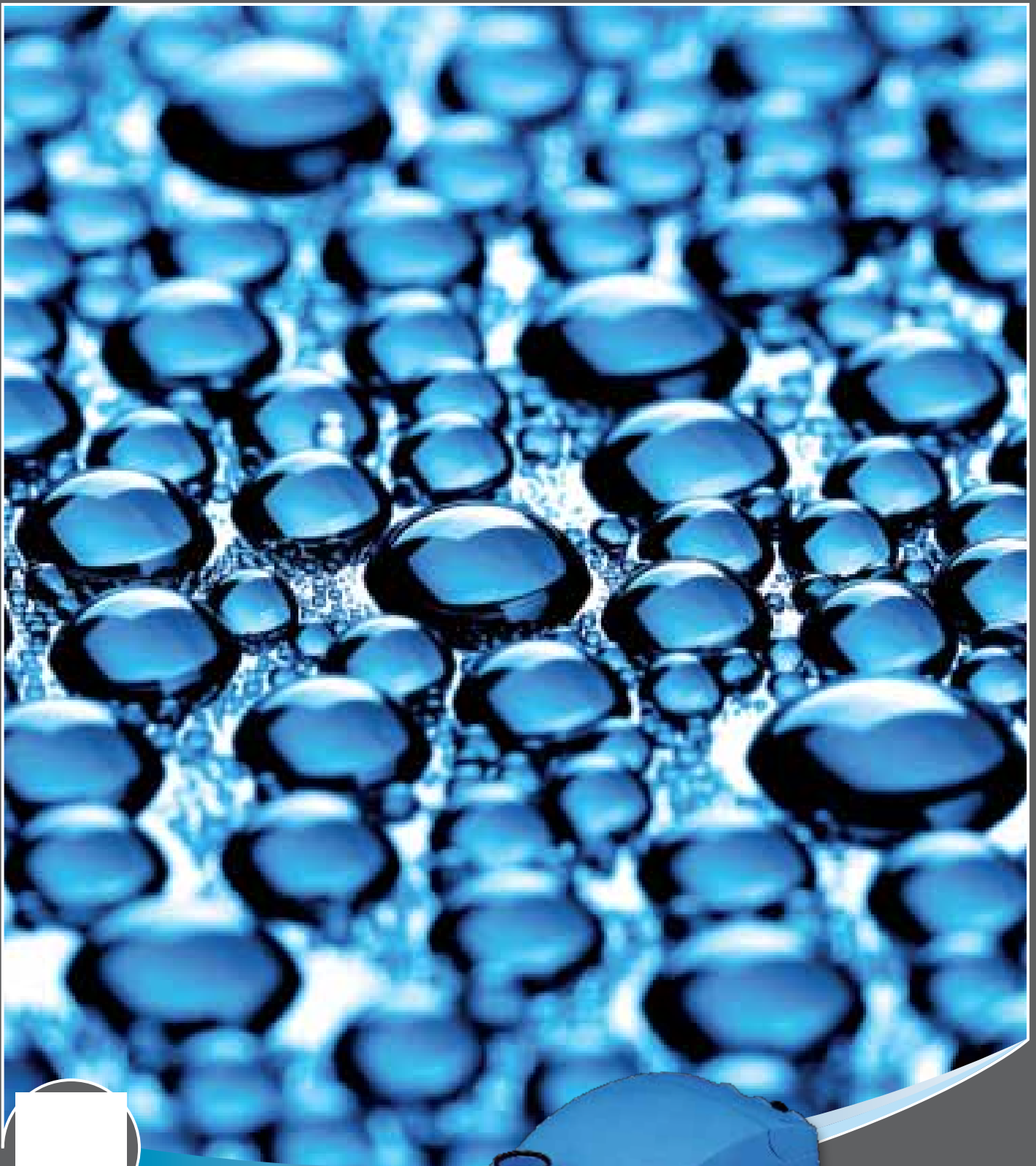
CHECK VALVE

Valve Check 6.3mm To 6.3mm

Material No.:

21626

Check valve, spare.



Blowers

Your Single Source Solution



Features

- 3-speed models
- Automatic dry-out of air system
- Electronic and pneumatic models
- Excellent performance
- Supplied with 1.5 m cable
- Heater option
- Ingress protection: IPX5
- Massage mode "pulsating effect"
- Recommended for variable speed control
- Silent running
- 1.5 BSP thread
- Uni-directional discharge port

The ideal blower!

A unique combination of standard and sophisticated features.

The extensive Genesis range enables you to find the ideal blower for exactly your application.

Packaging

All blowers are single packed but are also available in bulk (64 blowers per pallet).

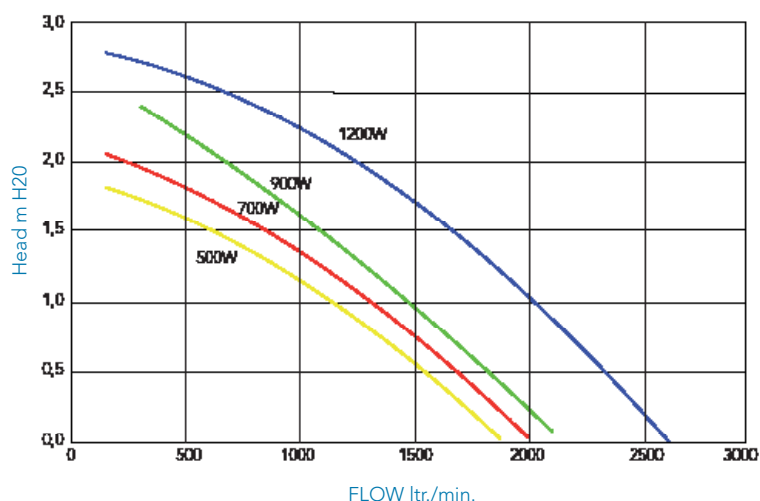
Approvals

The blowers are TÜV approved according to EN 60335-1 and EN 60355-2-60

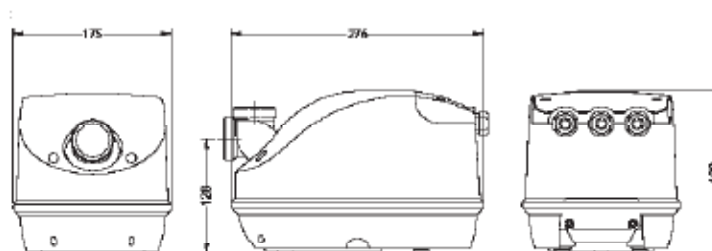
Material

Blue PP housing.

Performance Curve



Dimensions



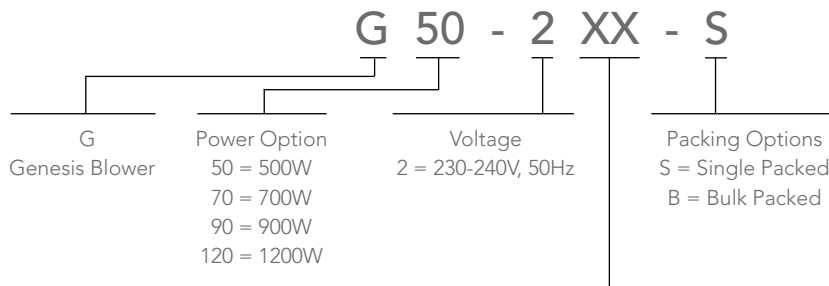
Dimensions in mm

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Genesis Blower Model Overview - 230-240V/50Hz



Features

- NN = Electronic on/off blower.
- AN = Pneumatic on/off blower.
- HN = Electronic on/off blower with built in heating element to reduce cold air in up start.
- AH = Pneumatic on/off blower with built-in heating element to reduce cold air in upstart.
- VN = Electronic variable speed blower. With variable massage mode and automatic dry-out of air system. To be used with special touch UK01658A connected directly to the blower. See functional descriptions under "VH".
- VH = Electronic variable speed blower with built-in heating element to reduce cold air in upstart. With variable massage mode and automatic dry-out of air system. To be used with special touch UK01658A connected directly to the blower.
Functional description for "VN" and "VH":
 1. Press on/off = high speed
 2. Press +/- = increase/decrease blower speed
 3. Press ~ = massage mode "pulsating effect"
 4. Press on/off = off
 Automatic safety stop after 30 minutes
- VNT = Electronic 3-speed blower. With variable massage mode and automatic dry-out of air system. To be used with one on/off touch or LED button. See functional descriptions under "VHT".
- VHT = Electronic 3-speed blower with built-in heating element to reduce cold air in upstart. With variable massage mode and automatic dry-out of air system. To be used with one on/off touch or LED button.
Functional description for "VNT" and "VHT":
 1. First press = high speed
 2. Second press = medium speed
 3. Third press = low speed
 4. Fourth press = massage mode "pulsating effect"
 5. Fifth press = off
 Automatic safety stop after 30 minutes
- ANT* = Pneumatic 3-speed blower. With variable massage mode and automatic dry-out of air system. To be used with one standard pneumatic button. See functional descriptions under "AHT".
- AHT* = Pneumatic 3-speed blower with built-in heating element to reduce cold air in upstart. With variable massage mode and automatic dry-out of air system. To be used with one standard pneumatic button.
Functional description for "ANT" and "AHT":
 1. First press = high speed
 2. Second press = medium speed
 3. Third press = low speed
 4. Fourth press = massage mode "pulsating effect"
 5. Fifth press = off
 Automatic safety stop after 30 minutes

* The preset programme can be changed via jumpers inside the blower to change order of functions or to eliminate the drying cycle. Request manual for detailed information.

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Genesis Blower 500W

MATERIAL NO.	HEATER W	POWER W	V/Hz	PNEUMATIC	3-SPEED PROGRAMME
G50-2NN-S		500W	230-240V/50-60Hz		
G50-2HN-S	250W	750W	230-240V/50-60Hz		
G50-2VNT-S		500W	230-240V/50-60Hz		x
G50-2ANT-S		500W	230-240V/50-60Hz	x	x
G50-2VH-S*	250W	750W	230-240V/50-60Hz		

Genesis Blower 700W

MATERIAL NO.	HEATER W	POWER W	V/Hz
G70-2NN-S		700W	230-240V/50-60Hz
G70-2HN-S	250W	950W	230-240V/50-60Hz
G-70-2VH-S*	250W	950W	230-240V/50-60Hz

Genesis Blower 900W

MATERIAL NO.	HEATER W	POWER W	V/Hz	PNEUMATIC
G90-2NN-S		900W	230-240V/50-60Hz	
G90-2AN-S		900W	230-240V/50-60Hz	x
G90-2HN-S	250W	1150W	230-240V/50-60Hz	

Genesis Blower 1200W

MATERIAL NO.	POWER W	V/Hz	PNEUMATIC
G120-2NN-S	1200W	230-240V/50-60Hz	
G120-2AN-S	1200W	230-240V/50-60Hz	x

Note: Union are included in all blowers (32mm)

* Touch UK01658A to be ordered separately.



Features

- Silent running
- Excellent performance
- Recommended for variable speed control
- Electronic and pneumatic models
- Thermal protection
- Supplied with 1.5 m cable
- 2.5" buttress thread

One of the most silent blowers on the market

The HA7000 blower will surprise you with its extremely low noise level and high performance! It is engineered with high performance plastics for enhanced safety and durability.

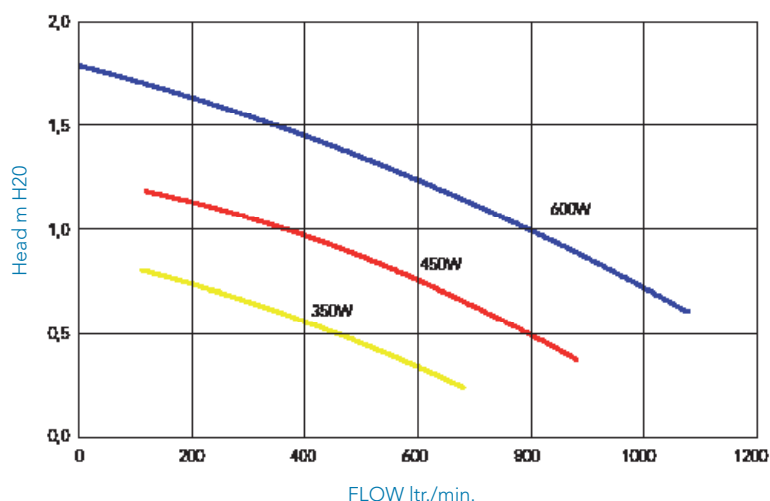
Packaging

All blowers are single packed but are also available in bulk (64 blowers per pallet).

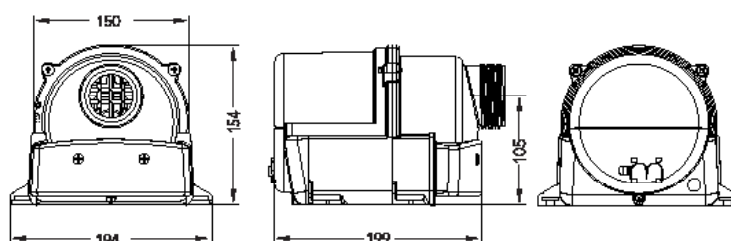
Approvals

The blowers are TÜV approved according to EN 60335-1 and EN 60355-2-60 (EMC and LVD).

Performance Curve



Dimensions



Dimensions in mm

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HA7000 Blower

NO AIR SWITCH	NO AIR SWITCH + HEATER	AIR SWITCH	AIR SWITCH + HEATER	RATED POWER	RATED CURRENT
22-7350		22-73501		350W	1.5A
	22-7352		22-73521	650W	2.9A
22-7450		22-74501		450W	2.0A
	22-7452		22-74521	750W	3.4A
22-7600		22-76001		600W	2.6A
	22-7602		22-76021	900W	4.1A

Blowers are available with AMP upon request

Note: Union must be ordered separately.



32 MM UNION

For HA7000 blowers

Material No.:

92015M 50 mm ID union. White PVC/ABS
27-06052 50 mm OD x 32 mm ID reducer. Grey PVC



1" UNION

For HA7000 blowers

Material No.:

2614022 1 1/2" ID union White PVC/ABS
437-211 1 1/2" OD x 1" ID reducer. White PVC



CHECK VALVE

For HA7000 blowers

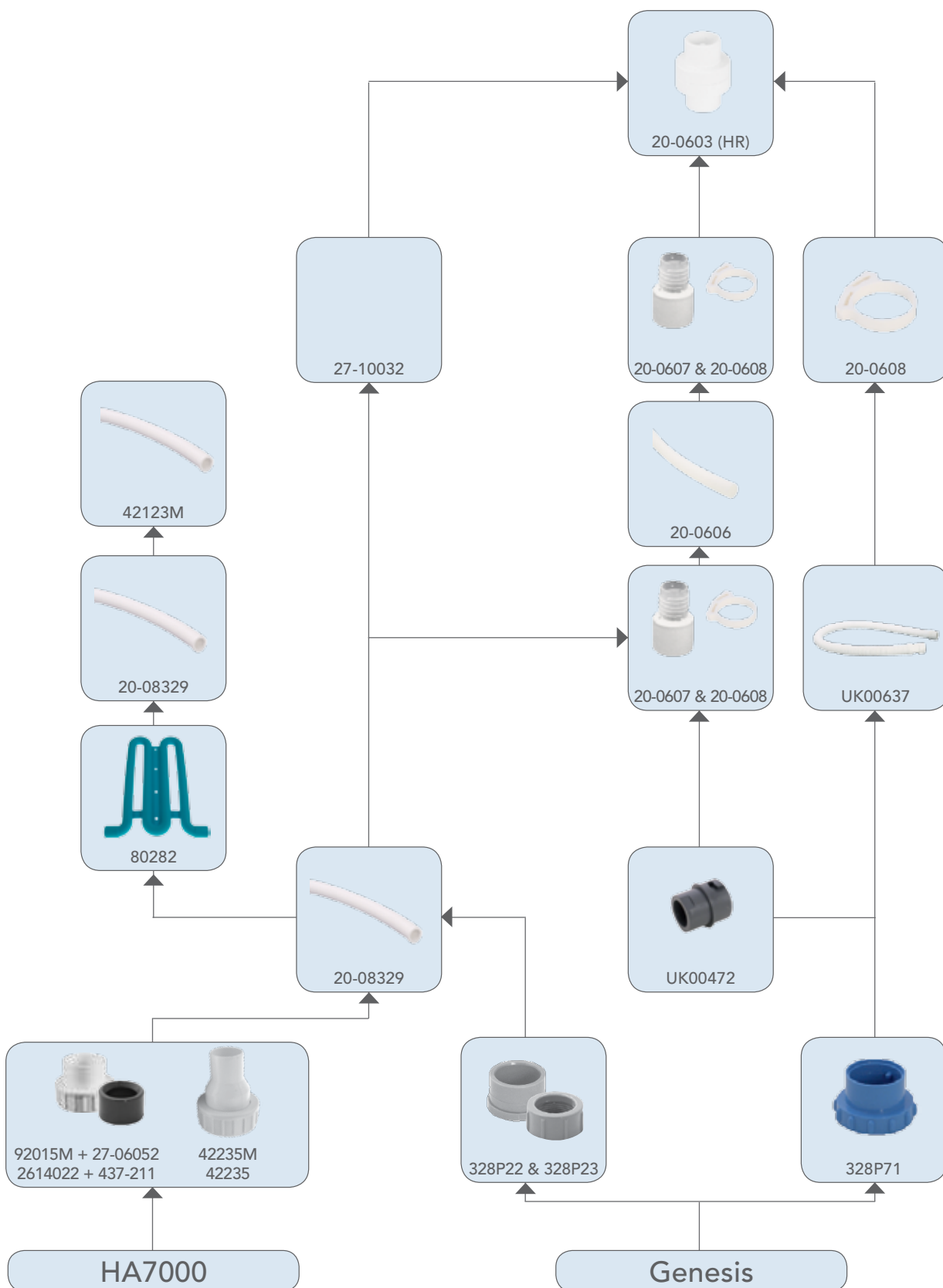
Material No.:

20-0603 Check valve 32mm OD PVC max 60°
20-0603HR Check valve 32mm OD Lexan 90°

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Spa Blowers

Accessories for Multiple Blower Applications



32 MM UNION

For HA7000 blowers
Incl. O-ring

Material No.:

92015M 50 mm ID union. White PVC/ABS
27-06052 50 mm OD x 32 mm ID reducer. Grey PVC



1" UNION

For HA7000 blowers
Incl. O-ring

Material No.:

2614022 1 1/2" ID union. White PVC/ABS
437-211 1 1/2" OD x 1"ID reducer. White PVC



32 MM UNION

For Genesis blowers

Material No.:

328P22 Union sleeve. 32 mm ID. Grey PVC



1" UNION

For Genesis blowers

Material No.:

328P49 Union sleeve. 1" ID. Blue PVC
328P23 Union nut. Blue ABS

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BAYONET ADAPTOR

For Genesis blowers
To be used with either blower hose UK00637 or bayonet UK00472 for quick connection

Material No.:

328P71

Blue ABS



BAYONET

For Genesis blowers
To be used with bayonet adaptor 328P71 for quick connection

Material No.:

UK00472

32 mm OD. Grey PP



AIR BLOWER HOSE WITH BAYONET

For Genesis blowers
To be used with bayonet adaptor kit 328P71 for quick connection

Material No.:

UK00637

32 mm OD. Length 1 m. White PP



HOSE CLAMP

To be used with hose cuff 20-0607

Material No.:

20-0608

36.7 mm ID. White PA



HOSE CUFF

To be used with hose 20-0606

Material No.:

20-0607

32 mm ID. White PP/TPE



AIR BLOWER HOSE

To be used with hose cuff 20-0607
Not to be used with water

Material No.:

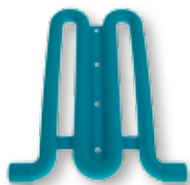
20-0606

32 mm OD. Roll of 15 m. White PP

Spa Blowers

Accessories for Multiple Blower Applications

7



SAFETY LOOP

To be used with adaptor 112 for 1" or 32 mm hose

Material No.:

80282

Loop x blower hose 1" OD. Height 380 mm, top width 105 mm, bottom width 295 mm



CHECK VALVE

Special blower version, opening pressure 13 mbar

Material No.:

20-0603

32 mm OD. White PVC. Not recommended for use at temperatures exceeding 60°
Length 69mm

20-0603HR

32 mm OD. Grey Lexan. Heat resistant.
Length 69mm



CHECK VALVE

Opening pressure 45 mbar

Material No.:

25-110020

20 mm ID. Grey PVC. Length 94 mm

42123M

32 mm ID. Grey PVC. Length 118 mm

25-110050

50 mm ID. Grey PVC. Length 150 mm



AMP PIN CONNECTOR MALE

To be used for connecting bare lead to Balboa control panel

Material No.:

40-1692

Incl. 4 pins for blowers



AirInjectors

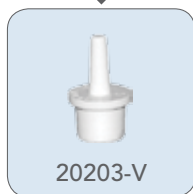
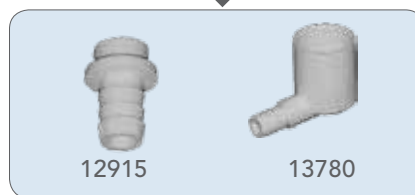
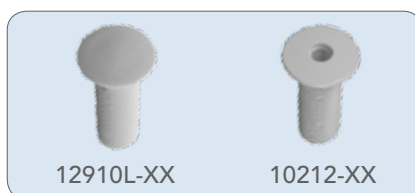
Your Single Source Solution



NOTES:

8

Complete Air Injectors



Your Single Source Solution

Air Injectors

Complete and Split Air Injectors



COMPLETE AIR INJECTOR Ø34 MM

6 hole air injector assembly
Air: Hose 20-0838 and clamp 20-08048
Hole size: 26 mm

Material No.:

1068803	3/8" barb. Stainless steel/PVC
1068800	3/8" barb. White ABS/PVC
1068818	3/8" barb. Grey ABS/PVC



COMPLETE AIR INJECTOR Ø41.5 MM

Multi hole air injector assembly
Air: Hose 20-0838 and clamp 20-08048
Hole size: 14 mm

Material No.:

13446U-WH	3/8" barb. White ABS/PVC
13446U-CG	3/8" barb. Grey ABS/PVC
13446U-BK	3/8" barb. Black ABS/PVC



COMPLETE AIR INJECTOR Ø41.5 MM

16 side hole air injector assembly
Use with tee 401-010 or reducing tee 20-0712 to 32 mm
Hole size: 19 mm

Material No.:

11-9200WHT	1" OD. White ABS/PVC
11-9200GRY	1" OD. Grey ABS/PVC



AIR INJECTOR Ø38 MM

Hole size: 24 mm
Thread length: 60 mm

Material No.:

10212-WH	Air injector with top hole. White ABS
10212-CG	Air injector with top hole. Grey ABS
12910L-WH	Air injector slotted with 2 side holes. White ABS



NUT

To be used with air injector 12910L or 10212

Material No.:

12980	White ABS
-------	-----------



AIR INJECTOR BARB

To be used with air injector 10212 or 12910L
Air: Hose 20-0838 and clamp 20-08048

Material No.:

12915	3/8" barb. White PVC
-------	----------------------



AIR INJECTOR ELBOW

To be use with air injector 10212 or 12910L

Air: Hose 20-0838 and clamp 20-08048

Material No.:

13780 3/8" 90° barb. White PVC



MICRO JET BODY

Hole size: 24 mm

Air: Hose 160016 for 1/2", 20-08209 for 20 mm

To be used with plug 20203-V

Material No.:

20205-V 2 x 1/2" ID White PVC
20205M 2 x 20 mm ID White PVC



BARB AIR INJECTOR BODY

Hole size: 24 mm

Air: Hose 20-0838 and clamp 20-08048

Material No.:

10207-V 3/8" barb. White PVC



BARB MICRO JET BODY

Hole size: 24 mm

Air: Hose 20-0838 and clamp 20-08048

To be used with plug 20203-V

Material No.:

20209-V 3/8" barb.. White PVC



GASKET

Material No.:

20215-V Clear gasket



PLUG FOR 3/8" BARBS

Plug for all 3/8" barbs and 20205/20209 Micro jet body

Material No.:

20203-V White PVC



NOTES:

8

Spa & Swimming Pool Pumps
Your Single Source Solution



BALBOA
water group

NEW

**"SO QUIET
you'll ask if it is running"**



VariMax™ Pump

"Like Having Your Own Masseuse"

- Infinite Speed Settings from 1100 RPM to 3400 RPM
- Replaces a Circulation Pump and/or a 1 or 2 Speed Pump
- Ultra Quiet
- Wave/Pulse Modes
- 2 Pumps in 1



BALBOA
water group

VariMax™ Pump

"So Quiet! You'll ask if it is running!"

BALBOA
water group

Experience Customized Massage with The VariMax™ Pump

Introducing VariMax™, the newest innovation in spa pumps from Balboa Water Group. The VariMax™ pump will provide a full body massage that will make you feel as though you have your own personal masseuse.

The VariMax™ pump allows you to create your own hydrotherapy options with a simple push of a button. You can enjoy water movement that is gentle, firm or anything in between by increasing or decreasing the intensity of the sensation or by selecting the wave/pulse massage option.

Enjoy lounging in your spa knowing you have the ability to customize your massage settings. Experience water moving across your body – caressing your neck and shoulders, then pulsating down your back, legs and feet.

There are so many things in life that are out of your control, but your massage experience doesn't have to be one of them. Start your day with an invigorating massage or end your day with a soothing water sensation with a VariMax™ pump. It's your choice!



"SO QUIET
you'll ask if it is running"



Pump Specs:

Pump Material No.: 1016950U

Volage: 230V

Frequency: 50Hz/60Hz

Current: 7.6A

HP: 2.0

Union included (2", 63mm, 50mm)



VARIMax™ Control Panel (50279-XX*)

- 3 button panel with LED light
- 3.625in round approx.
- 92.075mm round

Plumbing configuration affects pump performance.
Engineering consultation is available to find the best pump for all your spa needs.

* = XX represents the latest system revision. Example -XX can be -01, -02, -03 etc.
Check with customer service for additional information.

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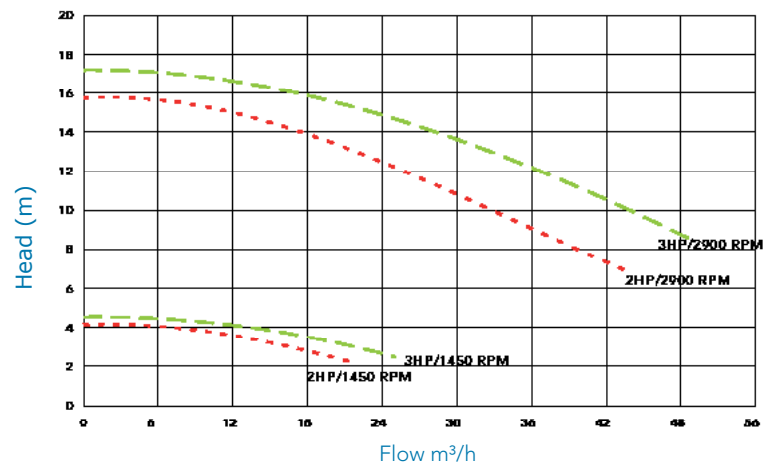
Features

- Easy installation
- Silent running
- 90 frame size
- True rated 2 and 3 HP models
- Centre suction/radial side discharge orientation
- 230V, 50Hz TEFC motors for Europe, IPX5
- High flow rates exceeding 44 m³/h for maximum performance
- 2" suction and discharge port
- Class F insulation
- Cable with AMP plug, ready for all spa pack or plug and play connection
- Carbon ceramic with Viton® elastomers mechanical seal
- The pumps are supplied with centre suction and 2 drain connections to ensure total drainage of pump.
- Supplied with 3m cable with AMP plug

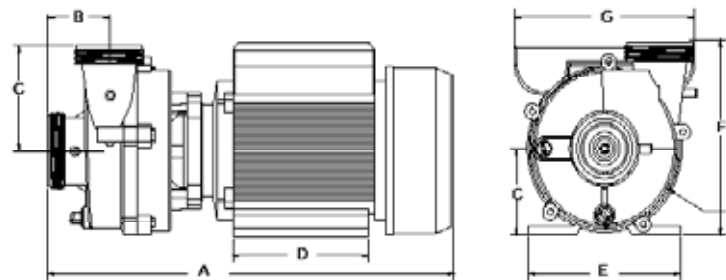
Approvals

The Niagara pumps are VDE approved according to European norms EN60335-1 and EN60335-2-41.

Performance Curve



Dimensions



MATERIAL NO.	A	B	C	D	E	F	G	H
1023321	397	67	109	102	125	203	168	94
1023322	459	67	109	125	140	203	203	94
1023331	459	67	109	125	140	203	203	94
1023332	459	67	109	125	140	203	203	94

Dimensions in mm

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Niagara, 2HP

MATERIAL NO.	POWER (P1)	V/HZ/AMP	SPEED	CABLE
1023321	1.5kW/2.00HP	230V/50Hz/8.7A	Single	3 m with AMP plug
1023322*	1.5kW/2.00HP	230V/50Hz/9.0/1.9A	2-speed	3 m with AMP plug

Niagara, 3HP

MATERIAL NO.	POWER (P1)	V/HZ/AMP	SPEED	CABLE
1023331	2.2kW/3.00HP	230V/50Hz/11.5A	Single	3 m with AMP plug
1023332*	2.2kW/3.00HP	230V/50Hz/11.5/2.5A	2-speed	3 m with AMP plug

Note: Union 2", 63mm, 50mm ID included.

* The high and low AMP represent the values for the 2-speed pump.



VIBRATION MOUNT

Material No.:

1216001

Vibration mount



Features

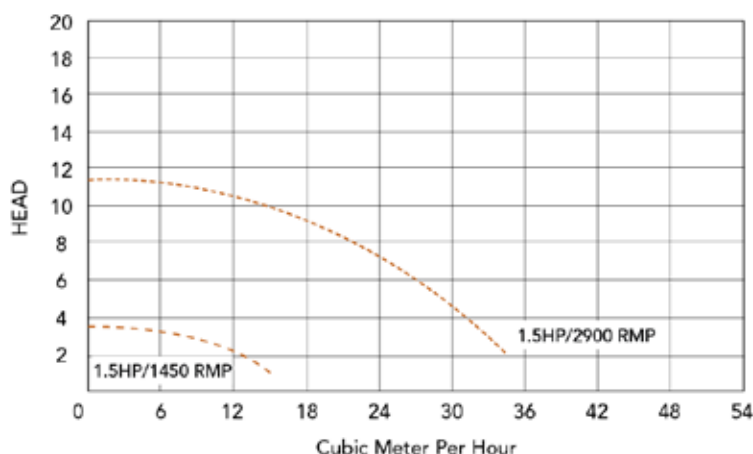
- High flow rates exceeding 34 m³/h for maximum performance in your luxury applications.
- All seals are carbon ceramic with Viton® elastomers for long-lasting performance, easily enduring prolonged heat and chemical exposure.
- Multi-directional volute mountings provide the flexibility to accommodate any configuration; 63mm, 2" and 2.5" union options.
- Choose single or 2-speed motors.
- HA440NG pumps are VDE approved according to European norms EN60335-1 and EN60335-2-41. This applies to the pump without cable.

Specifications

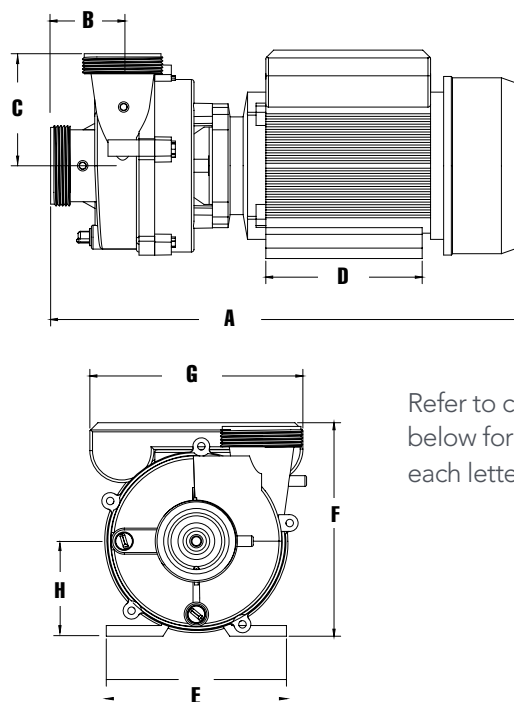
- Center suction/radial side discharge orientation
- 230V, 50Hz TEFC motors for Europe, IPX5
- 2" suction and discharge port
- Class F insulation
- Cable with AMP plug, ready for all spa pack or plug and play connection
- The pumps are supplied with centre suction and 2 drain connections to ensure total drainage of pump

Premier HA440NG pumps are the ultimate benchmark in design, flexibility and performance. From small applications for zone seating and focused therapy up to multi pump configurations to run several jetted systems, HA440NG pumps supply the specific performance features you require and the long service life and powerful performance spa owners demand.

Performance Curve



Dimensions



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HA440NG, 1.50kW, Center Suction With Drain Screw

Material No.	Volt	Hz	KW	Amps	HP	Speed	Cable	A	B	C	D	E	F	G	H
1023063 metric unions	230V	50Hz	1.3	5.6A	1.5HP	Single	3m with AMP plug	394	67	109	102	124	197	168	94
1023024 metric unions	230V	50Hz	1.3/ 0.35	5.7/ 1.5A	1.5HP	2-Speed	3m with AMP plug	394	67	109	102	124	197	168	94

Note: Include unions 2", 63mm and 50mm ID.

The pumps with 2 values for the amps, are the 2 speed pumps, so it is at high and low speed.

Unions and Noise Abatement

Union Kit Female 2" Socket - Material No: 2614029

Union Kit Female 63mm Socket - Material No: 2614020

Union Kit Female 2.5" Socket - Material No: 2614030

Vibration Mount - Material No: 1216001



VIBRATION MOUNT

Material No.:

1216001

Vibration mount

Spa Pump

Circulation Pump

BALBOA
water group



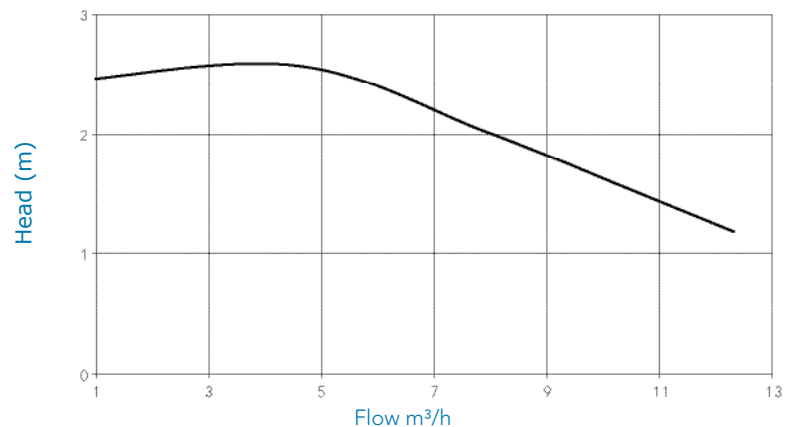
Features

- Compact design for easy installation
- Class F insulation
- Nearly silent operation assures a peaceful spa experience
- All seals are carbon ceramic with Viton® elastomers for long-lasting performance, easily enduring prolonged heat and chemical exposure
- Center suction / radial side discharge
- Multi-directional volute mounting provides the flexibility to accommodate any plumbing configuration
- Supplied with 1.3 m cable with AMP plug

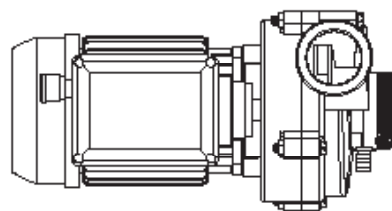
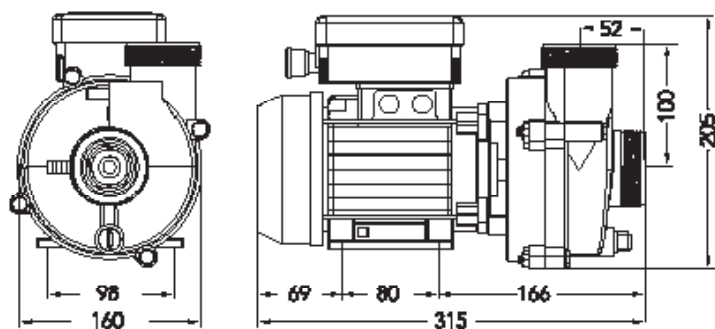
Approvals

The Circulation pumps are TÜV approved according to European norms EN60335-1 and EN60335-2-41.

Performance Curve



Dimensions



Dimensions in mm

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Circulation Pump, 0.25HP

MATERIAL NO.	POWER (P1)	V/HZ/AMP	CABLE
1030025	0.2kW/0.25HP	230V/50Hz/0.8A	1.3 m with AMP plug



PUMP UNION

Material No.:

92015M 50 mm ID union. White PVC/ABS
2614022 1 1/2" ID. White PVC/ABS

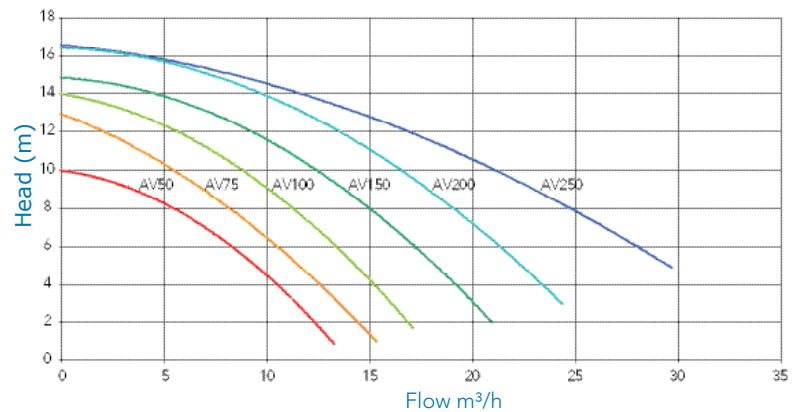


Features

- 1 & 3-phase models
- BSP 2 3/4" thread
- Motor: Extruded aluminium
- Clear PC tank cover and large strainer basket
- Ingress protection: IPX5
- PP tank, high chemical resistance
- Self priming up to 3 m
- Stainless steel AISI 316 shaft
- The seal is suitable for a wide range of applications including chlorine, bromine, iodine and sea water (if flushed through with fresh water on shut down).
- Is extremely silent running and is therefore also recommendable for above-ground installation e.g. spas.

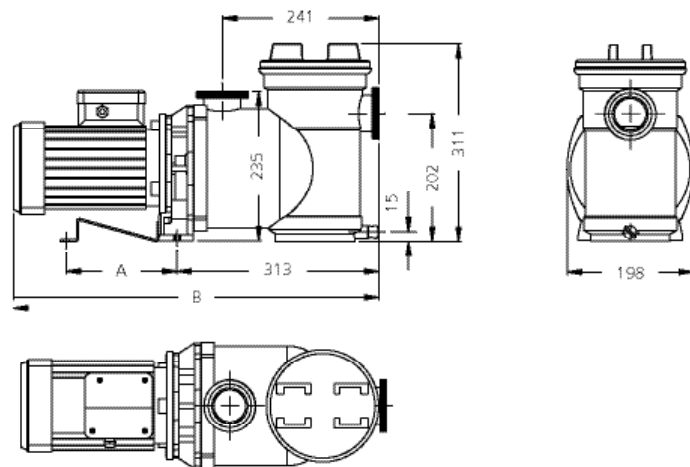
Approvals

The Argonaut pumps are TÜV approved according to European norms EN60335-1 and EN60335-2-41.



Dimensions

1-Phase	A	B	3-Phase	A	B
AV50-2DN-S	144	533	AV50-3DN-S	144	527
AV75-2DN-S	164	533	AV75-3DN-S	164	533
AV100-2DN-S	164	533	AV100-3DN-S	164	533
AV150-2DN-S	164	561	AV150-3DN-2	164	563
AV200-2DN-S	174	561	AV200-3DN-2	174	563
AV250-2DN-S	174	564	AV250-3DN-2	174	578



Dimensions in mm

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Argonaut 1-Phase

MATERIAL NO.	POWER (P1)	PERFORMANCE (P2)	V/HZ/AMP	Q(MAX)	H(MAX)
AV50-2DN-S	0.45kW/0.60HP	0.24kW/0.32HP	230V/50Hz/2.3A	13 m3/h	11 m
AV75-2DN-S	0.60kW/0.80HP	0.37kW/0.50HP	230V/50Hz/2.7A	16 m3/h	13 m
AV100-2DN-S	0.70kW/0.94HP	0.55kW/0.74HP	230V/50Hz/3.2A	18 m3/h	15 m
AV150-2DN-S	1.00kW/1.34HP	0.75kW/1.00HP	230V/50Hz/4.5A	22 m3/h	16 m
AV200-2DN-S	1.30kW/1.74HP	1.10kW/1.48HP	230V/50Hz/5.7A	26 m3/h	18 m
AV250-2DN-S	1.80kW/2.41HP	1.50kW/2.01HP	230V/50Hz/8.6A	32 m3/h	18 m

Argonaut 3-Phase

MATERIAL NO.	POWER (P1)	PERFORMANCE (P2)	V/HZ/AMP	Q(MAX)	H(MAX)
AV50-3DN-S	0.45kW/0.60HP	0.24kW/0.32HP	400V/50Hz/0.8A	13 m3/h	11 m
AV75-3DN-S	0.60kW/0.80HP	0.37kW/0.50HP	400V/50Hz/1.0A	16 m3/h	13 m
AV100-3DN-S	0.70kW/0.94HP	0.55kW/0.74HP	400V/50Hz/1.1A	18 m3/h	15 m
AV150-3DN-2*	1.00kW/1.34HP	0.75kW/1.00HP	400V/50Hz/1.8A	22 m3/h	16 m
AV200-3DN-2*	1.30kW/1.74HP	1.10kW/1.48HP	400V/50Hz/2.4A	26 m3/h	18 m
AV250-3DN-2*	1.80kW/2.41HP	1.50kW/2.01HP	400V/50Hz/3.4A	32 m3/h	18 m

Note: Unions 2", 63mm ID included.

* IE2 pumps



PUMP UNION

Material No.:

25-402062

2" ID union. Grey PVC

25-402063

63 mm ID union. Grey PVC



SPARE PARTS

Material No.:

UK01566

Drain plug

UK01596

Seal

For full overview of spare parts for Argonaut pumps, see our website.

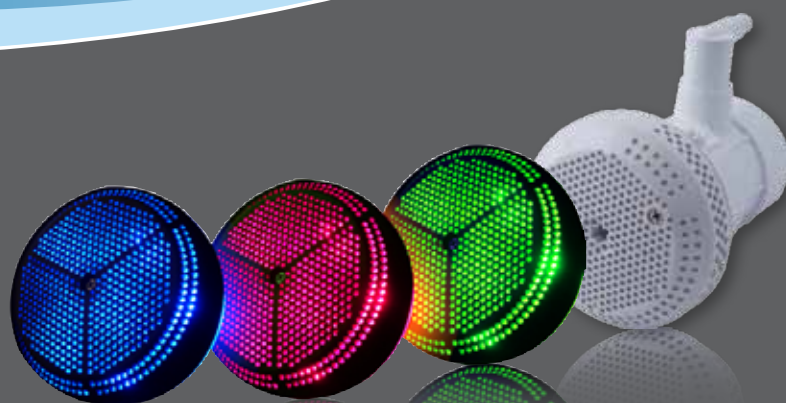


NOTES:

9

Suctions

Your Single Source Solution



VGB Suctions

124 and 211 GPM



VGB SUCTION - 124 GPM - Ø95 MM IAPMO LISTED

With 3/8" safety barb. Use hose 20-0838
Water: Hose 160050 or pipe SH-2116
Use with socket 429-020, elbow 409-020
or tee 401-020

Material No.:

90146-WH 2" OD. White ABS/PVC
90146-CG 2" OD. Grey ABS/white PVC



VGB SUCTION - 179 GPM - Ø125 MM UL APPROVED

No safety barb
Water: Hose 160050 or pipe SH-2116
Use with socket 429-020, elbow 409-020
or tee 401-020

Material No.:

90148-CG 2" OD. Grey ABS/white PVC



VGB SUCTION - 256 GPM - Ø125 MM UL APPROVED

With 3/4" safety barb. Use hose 20-0834
Water: Hose 160050 or pipe SH-2116
Use with socket 429-020, elbow 409-020
or tee 401-020

Material No.:

39167-WH 2" OD. White ABS/PVC
39167-CG 2" OD. Grey ABS/white PVC
39167-MG 2" OD. Metal grey ABS/white PVC
39167-BK 2" OD. Black ABS/white PVC



VGB SUCTION - 256 GPM - Ø125 MM UL APPROVED

With 3/4" safety barb. Use hose 20-0834
Use with socket 429-025

Material No.:

39169-WH 2½" OD. White ABS/PVC



LIGHTED VGB SUCTION - 179 GPM - Ø125 MM UL APPROVED

No safety barb
Water: Hose 160050 or pipe SH-2116
Use with socket 429-020, elbow 409-020
or tee 401-020
Required Clear wall fitting 30241-CL
and Compensating Ring 30238-CL

Material No.:

30240U-WH 2" OD. White ABS/white PVC
30240U-CG 2" OD. Grey ABS/white PVC
30240U-MG 2" OD. Metal grey ABS/white PVC
30240U-BK 2" OD. Black ABS/white PVC



LIGHTED VGB SUCTION - 256 GPM - Ø125 MM UL APPROVED

With 3/4" safety barb. Use hose 20-0834
Use with socket 429-025
Required Clear wall fitting 30341-CL
and Compensating Ring 30238-CL
Requires 2" fitting 30167-V or
2 1/2" fitting 30169-V

Material No.:

30240U-WH 2" OD. White ABS/white PVC
30240U-CG 2" OD. Grey ABS/white PVC
30240U-MG 2" OD. Metal grey ABS/white PVC
30240U-BK 2" OD. Black ABS/white PVC

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MassageJets

Your Single Source Solution



[illegible]

NEW

12

SlimlineJets

Ultra Low Profile and Unobtrusive

- Easy to install and service
- Chrome-plated stainless steel
- Available in different colors or lighted jets
- NEW stylish look and modern design
- NEW ultra low profile and smooth to the touch



[illegible]

NEW

13



PearlEssenceJets™

Balboa Water Latest Translucent Jet Collections

- Proven Jets Design
- Stainless Steel Rings
- Designer Look Eyeball
- Proprietary Color Blend Material
- New, Modern and Energy Efficient Lighting



BALBOA
water group

Pearl Essence Jets

Dress up your tub with proven technology and add show room bling to help sell hot tubs. Other components such as filters and water features can be made in clear to blend in with the look.



Pearl Essence Pismo Jets

2" PISMO ESC PEARL IVORY	943002-XX
2" SS PISMO DIRECT FLOW	982300-XX
2" SS PISMO DIRECTIONAL	982301-XX
3" SS PISMO DIRECTIONAL	983300-XX
3" SS PISMO SWIRL METAL	983301-XX
3" SS PISMO PIN SPIN	983304-XX
3" SS PISMO NECK JET CLEAR EYEBALL	983305-XX
3.5" SS PISMO DIRECTIONAL	983530-XX
3.5" SS PISMO SWIRL	983531-XX
3.5" SS PISMO PIN SPIN	983534-XX
5" SS PISMO DIRECTIONAL	985300-XX
5" SS PISMO SWIRL	985301-XX
5" SS PISMO PIN SPIN	985304-XX

Pearl Essence Venice Jets

2" SS VENICE DIRECTIONAL	982501-XX
3" SS VENICE DIRECTIONAL	983500-XX
3" SS VENICE SWIRL	983501-XX
3.5" SS VENICE DIRECTIONAL	9835500-XX
3.5" SS VENICE SWIRL	9835501-XX
5" SS VENICE DIRECTIONAL	985500-XX
5" SS VENICE SWIRL	985501-XX

Note: CL = Clear

Note: Pearl Essence are also available in Air Controls.
Pg. 145.

XX - Additional Available Colors



Ivory Pearl = PIVCL



Sky Blue= PSBCL



Mahogany = PMYCL



Silver Pearl = PSLCL



Java Pearl = PJVCL



Red Pearl = PRDCL

Color Chart

For more information about our Pearl Essence jets please call our customer service 714.384.0384.

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LAGUNA DIRECTIONAL

Flat design
Flow-adjustable

Material No.:

940136XX Ø2" /52 mm, 0.25" orifice



LAGUNA FIXED

Flat design
Flow-adjustable

Material No.:

940140XX Ø2" /52 mm, 0.25" orifice



LAGUNA SWIRL

Flat design
Flow-adjustable

Material No.:

940815XX Ø2" /52 mm, 0.25" orifice



LAGUNA DIRECTIONAL

Round design
Flow-adjustable

Material No.:

901056XX Ø3" /76 mm, 0.28" orifice
940138XX Ø3.5" /90 mm, 0.38" orifice
940139XX Ø4" /110 mm, 0.38" orifice
900119XX Ø5" /129 mm, 0.38" orifice



LAGUNA SWIRL

Round design
Flow-adjustable

Material No.:

901080XX Ø3" /76 mm, 0.28" orifice
940133XX Ø3.5" /90 mm, 0.38" orifice
940132XX Ø4" /110 mm, 0.38" orifice
900118XX Ø5" /129 mm, 0.38" orifice



LAGUNA PULSATOR

Round design
Flow-adjustable

Material No.:

901064XX Ø3" /76 mm, 0.28" orifice
900819XX Ø3.5" /90 mm, 0.38" orifice
900820XX Ø4" /110 mm, 0.38" orifice
900120XX Ø5" /129 mm, 0.38" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white



LAGUNA PIN SPIN

Round design
Flow-adjustable

Material No.:

901048XX Ø3"/76 mm, 0.28" orifice
901104XX Ø3.5"/90 mm, 0.38" orifice
901112XX Ø5"/129 mm, 0.38" orifice



LAGUNA ROUND ULTRA BLASTER

Round design
Flow-adjustable

Material No.:

940282XX Ø5"/129 mm, 0.38" orifice
28725XX Ø7"/168 mm, complete incl. jet body



LAGUNA TWIN SPIN

Round design
Flow-adjustable

Material No.:

901072XX Ø3"/76 mm, 0.28" orifice
901096XX Ø3.5"/90 mm, 0.38" orifice
900121XX Ø5"/129 mm, 0.38" orifice



LAGUNA WATERFALL

Round design
Flow-adjustable

Material No.:

900205XX Ø5"/129 mm, 0.38" orifice



LAGUNA OVAL ULTRA BLASTER

Round design
Flow-adjustable

Material No.:

940283XX Ø5/129 mm, 0.38" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white

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2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

947600 3/8" air barb x 3/4" w/ later barb
90015000 3/8" air barb x 3/4" water barb with check valve



2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

947700 3/8" air barb x 3/4" ID water
90015100 3/8" air barb x 3/4" ID water with check valve



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

90094800 3/8" air barb x 3/4" water barb



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

90094900 3/8" air barb x 3/4" ID water



3.5" AND 4" JET BODY

Hole size 2.56"/65 mm" for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

985900 3/8" air barb x 3/4" water barb
986200 3/8" air barb x 3/4" water barb with check valve



3.5" AND 4" JET BODY

Hole size 2.56"/65 mm for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

986000 3/8" air barb x 3/4" ID water
986300 3/8" air barb x 3/4" ID water with check valve



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

47970000 3/8" air barb x 3/4" water barb
960200 3/8" air barb x 3/4" water barb with check valve



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

47960000 3/8" air barb x 3/4" ID water
958100 3/8" air barb x 3/4" ID water with check valve



GASKET

Material No.:

943506 L-design, for 2" jet bodies
959000 L-design, for 3" jet bodies
985700 L-design, for 3.5" and 4" jet bodies
948601 Flat design, for 3.5" and 4" jet bodies
946600 L-design, for 5" jet bodies
47930000 Flat design, for 5" jet bodies



COMPENSATOR RING

Material No.:

943509 For 2" jet bodies
90095100 For 3" jet bodies
985800 For 3.5" and 4" jet bodies
47950000 For 5" jet bodies



NUT

Material No.:

985734 For 2" jet bodies
955900 For 3" jet bodies
985600 For 3.5" and 4" jet bodies
47940000 For 5" jet bodies



INSTALLATION TOOL

Material No.:

943519 3/8" drive, for 2" jet bodies
973500 3/8" drive, for 3" jet bodies
989900 3/8" drive, for 3.5" and 4" jet bodies
940008 1/2" drive, for 5" jet bodies



PISMO DIRECTIONAL

Flat design
Flow-adjustable

Material No.:

982301-XX Ø2" /52 mm, 0.25" orifice



PISMO DIRECTIONAL

Round design
Flow-adjustable

Material No.:

983300-XX Ø3" /76 mm, 0.28" orifice
983530-XX Ø3.5" /90 mm, 0.38" orifice
985300-XX Ø5" /129 mm, 0.38" orifice



PISMO FIXED

Flat design
Flow-adjustable

Material No.:

982300-XX Ø2" /52 mm, 0.25" orifice



PISMO SWIRL

Round design
Flow-adjustable

Material No.:

983301-XX Ø3" /76 mm, 0.28" orifice
983531-XX Ø3.5" /90 mm, 0.38" orifice
985301-XX Ø5" /129 mm, 0.38" orifice



PISMO SWIRL

Flat design
Flow-adjustable

Material No.:

982302-XX Ø2" /52 mm, 0.25" orifice



PISMO PULSATOR

Round design
Flow-adjustable

Material No.:

983302-XX Ø3" /76 mm, 0.28" orifice
983532-XX Ø3.5" /90 mm, 0.38" orifice
985302-XX Ø5" /129 mm, 0.38" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white



PISMO PIN SPIN

Round design
Flow-adjustable

Material No.:

983304-XX Ø3"/76 mm, 0.28" orifice
983534-XX Ø3.5"/90 mm, 0.38" orifice
985304-XX Ø5"/129 mm, 0.38" orifice



PISMO OVAL ULTRA BLASTER

Round design
Flow-adjustable

Material No.:

985306-XX Ø5"/129 mm, 0.38" orifice



PISMO TWIN SPIN

Round design
Flow-adjustable

Material No.:

983303-XX Ø3"/76 mm, 0.28" orifice
983533-XX Ø3.5"/90 mm, 0.38" orifice
985303-XX Ø5"/129 mm, 0.38" orifice



PISMO ROUND ULTRA BLASTER

Round design
Flow-adjustable

Material No.:

985305-XX Ø5"/129 mm, 0.38" orifice
287701-XX Ø7/168 mm, complete incl. jet body"

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white

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2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

947600 3/8" air barb x 3/4" w/ later barb
90015000 3/8" air barb x 3/4" water barb with check valve



2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

947700 3/8" air barb x 3/4" ID water
90015100 3/8" air barb x 3/4" ID water with check valve



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

90094800 3/8" air barb x 3/4" water barb



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

90094900 3/8" air barb x 3/4" ID water



3.5" JET BODY

Hole size 2.56/65 mm" for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

985900 3/8" air barb x 3/4" water barb
986200 3/8" air barb x 3/4" water barb with check valve



3.5" JET BODY

Hole size 2.56"/65 mm for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

986000 3/8" air barb x 3/4" ID water
986300 3/8" air barb x 3/4" ID water with check valve

Pismo Jet Components

Components for Pismo Jets



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

47970000 3/8" air barb x 3/4" water barb
960200 3/8" air barb x 3/4" water barb with check valve



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

47960000 3/8" air barb x 3/4" ID water
958100 3/8" air barb x 3/4" ID water with check valve



GASKET

Material No.:

943506 L-design, for 2" jet bodies
959000 L-design, for 3" jet bodies
985700 L-design, for 3.5" jet bodies
948601 Flat design, for 3.5" jet bodies
946600 L-design, for 5" jet bodies
47930000 Flat design, for 5" jet bodies



COMPENSATOR RING

Material No.:

943509 For 2" jet bodies
90095100 For 3" jet bodies
985800 For 3.5" jet bodies
47950000 For 5" jet bodies



NUT

Material No.:

985734 For 2" jet bodies
955900 For 3" jet bodies
985600 For 3.5" jet bodies
47940000 For 5" jet bodies



INSTALLATION TOOL

Material No.:

943519 3/8" drive, for 2" jet bodies
973500 3/8" drive, for 3" jet bodies
989900 3/8" drive, for 3.5" jet bodies
940008 1/2" drive, for 5" jet bodies

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VENICE DIRECTIONAL

Flow-adjustable

Material No.:

982501-XX Ø2" /50 mm, 0.25" orifice



VENICE DIRECTIONAL

Flow-adjustable

Material No.:

983500-XX Ø3" /74 mm, 0.28" orifice
9835500-XX Ø3.5" /89 mm, 0.38" orifice
985500-XX Ø5" /126 mm, 0.38" orifice



VENICE FIXED

Flow-adjustable

Material No.:

982500-XX Ø2" /50 mm, 0.25" orifice



VENICE SWIRL

Flow-adjustable

Material No.:

983501-XX Ø3" /74 mm, 0.28" orifice
9835501-XX Ø3.5" /89 mm, 0.38" orifice
985501-XX Ø5" /126 mm, 0.38" orifice



VENICE SWIRL

Flow-adjustable

Material No.:

982502-XX Ø2" /50 mm, 0.25" orifice



VENICE PULSATOR

Flow-adjustable

Material No.:

983502-XX Ø3" /74 mm, 0.28" orifice
9835502-XX Ø3.5" /89 mm, 0.38" orifice
985502-XX Ø5" /126 mm, 0.38" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white



VENICE PIN SPIN
Flow-adjustable

Material No.:

983504-XX	Ø3"/74 mm, 0.28" orifice
9835504-XX	Ø3.5"/89 mm, 0.38" orifice
985504-XX	Ø5"/126 mm, 0.38" orifice



VENICE OVAL ULTRA BLASTER
Flow-adjustable

Material No.:

985506-XX	Ø5"/126 mm, 0.38" orifice
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VENICE TWIN SPIN
Flow-adjustable

Material No.:

983503-XX	Ø3"/74 mm, 0.28" orifice
9835503-XX	Ø3.5"/89 mm, 0.38" orifice
985503-XX	Ø5"/126 mm, 0.38" orifice



VENICE ROUND ULTRA BLASTER
Flow-adjustable

Material No.:

985505-XX	Ø5"/126 mm, 0.38" orifice
287705-XX	Ø7"/168 mm, complete incl. jet body

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.
Colours available: Black, metallic grey, grey and white

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2" JET BODY

Hole size 1.5"/38 mm

Hose: Air 20-0838 and water 20-0834

Clamps: Air 8010156 and water 63098

Material No.:

947600
90015000

3/8" air barb x 3/4" w/ later barb
3/8" air barb x 3/4" water barb with check valve



2" JET BODY

Hole size 1.5"/38 mm

Hose: Air 20-0838 and water 20-0834

Clamp: Air 8010156

Material No.:

947700
90015100

3/8" air barb x 3/4" ID water
3/8" air barb x 3/4" ID water with check valve



3" JET BODY

Hole size 2.125"/54 mm

Hose: Air 20-0838 and water 20-0834

Clamps: Air 8010156 and water 63098

Material No.:

90094800

3/8" air barb x 3/4" water barb



3" JET BODY

Hole size 2.125"/54 mm

Hose: Air 20-0838 and water 20-0834

Clamp: Air 8010156

Material No.:

90094900

3/8" air barb x 3/4" ID water



3.5" JET BODY

Hole size 2.56"/65 mm" for L-gasket

Hole size 2.5"/64 mm for flat gasket

Hose: Air 20-0838 and water 20-0834

Clamps: Air 8010156 and water 63098

Material No.:

985900
986200

3/8" air barb x 3/4" water barb
3/8" air barb x 3/4" water barb with check valve



3.5" JET BODY

Hole size 2.56"/65 mm for L-gasket

Hole size 2.5"/64 mm for flat gasket

Hose: Air 20-0838 and water 20-0834

Clamp: Air 8010156

Material No.:

986000
986300

3/8" air barb x 3/4" ID water
3/8" air barb x 3/4" ID water with check valve



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

47970000	3/8" air barb x 3/4" water barb
960200	3/8" air barb x 3/4" water barb with check valve



5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

47960000	3/8" air barb x 3/4" ID water
958100	3/8" air barb x 3/4" ID water with check valve



GASKET

Material No.:

943506	L-design, for 2" jet bodies
959000	L-design, for 3" jet bodies
985700	L-design, for 3.5" jet bodies
948601	Flat design, for 3.5" jet bodies
946600	L-design, for 5" jet bodies
47930000	Flat design, for 5" jet bodies



COMPENSATOR RING

Material No.:

943509	For 2" jet bodies
90095100	For 3" jet bodies
985800	For 3.5" jet bodies
47950000	For 5" jet bodies



NUT

Material No.:

985734	For 2" jet bodies
955900	For 3" jet bodies
985600	For 3.5" jet bodies
47940000	For 5" jet bodies



INSTALLATION TOOL

Material No.:

943519	3/8" drive, for 2" jet bodies
973500	3/8" drive, for 3" jet bodies
989900	3/8" drive, for 3.5" jet bodies
940008	1/2" drive, for 5" jet bodies



TEXTURED FIXED
Flow-adjustable

Material No.:

900875XX

Ø2"/51 mm, 0.25" orifice



TEXTURED SWIRL
Flow-adjustable

Material No.:

900145XX

Ø2"/51 mm, 0.25" orifice



EMERALD FIXED
Flow-adjustable

Material No.:

900143XX

Ø2"/51 mm, 0.25" orifice



EMERALD SWIRL
Flow-adjustable

Material No.:

900147XX

Ø2"/51 mm, 0.25" orifice



DIAMOND FIXED
Flow-adjustable

Material No.:

900142XX

Ø2"/51 mm, 0.25" orifice



DIAMOND SWIRL
Flow-adjustable

Material No.:

900146XX

Ø2"/51 mm, 0.25" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white

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TEXTURED SWIRL
Flow-adjustable

Material No.:

901077XX	Ø3"/75 mm, 0.28" orifice
901078XX	Large Ø3"/83 mm, 0.28" orifice
9840XX	Ø3.5"/89 mm, 0.38" orifice
9841XX	Ø4"/104 mm, 0.38" orifice
4783XX	Ø5"/127 mm, 0.375" orifice
940258XX	Ø6.5"/165 mm



TEXTURED DIRECTIONAL
Flow-adjustable

Material No.:

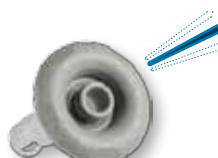
900876XX	Ø2"/51 mm, 0.25" orifice
901053XX	Ø3"/75 mm, 0.28" orifice
901054XX	Large Ø3"/83 mm, 0.28" orifice
9838XX	Ø3.5"/89 mm, 0.38" orifice
9839XX	Ø4"/104 mm, 0.38" orifice
9782XX	Ø5"/127 mm, 0.375" orifice
940262XX	Ø6.5"/165 mm, 0.375" orifice



EMERALD SWIRL
Flow-adjustable

Material No.:

901073XX	Ø3"/75 mm, 0.28" orifice
901074XX	Large Ø3"/83 mm, 0.28" orifice
9846XX	Ø3.5"/89 mm, 0.38" orifice
9847XX	Ø4"/104 mm, 0.38" orifice
944511XX	Ø5"/127 mm, 0.375" orifice
940257XX	Ø6.5"/165 mm, 0.375" orifice



EMERALD DIRECTIONAL
Flow-adjustable

Material No.:

900139XX	Ø2"/51 mm, 0.25" orifice
901049XX	Ø3"/75 mm, 0.28" orifice
901050XX	Large Ø3"/83 mm, 0.28" orifice
9844XX	Ø3.5"/89 mm, 0.38" orifice
9845XX	Ø4"/104 mm, 0.38" orifice
944530XX	Ø5"/127 mm, 0.375" orifice
940261XX	Ø6.5"/165 mm, 0.375" orifice



DIAMOND SWIRL
Flow-adjustable

Material No.:

9852XX	Ø3.5"/89 mm, 0.38" orifice
9853XX	Ø4"/104 mm, 0.38" orifice
9415XX	Ø5"/127 mm, 0.375" orifice



DIAMOND DIRECTIONAL
Flow-adjustable

Material No.:

900138XX	Ø2"/51 mm, 0.25" orifice
901051XX	Ø3"/75 mm, 0.28" orifice
9850XX	Ø3.5"/89 mm, 0.38" orifice
9851XX	Ø4"/104 mm, 0.38" orifice
9416XX	Ø5"/127 mm, 0.375" orifice
940260XX	Ø6.5"/165 mm, 0.375" orifice

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Colours available: Black, metallic grey, grey and white

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TEXTURED PULSATOR
Flow-adjustable

Material No.:

901061XX	Ø3"/75 mm, 0.28" orifice
901062XX	Large Ø3"/83 mm, 0.28" orifice
940046XX	Ø3.5"/89 mm, 0.38" orifice
9785XX	Ø5"/127 mm, 0.375" orifice



TEXTURED PIN SPIN
Flow-adjustable

Material No.:

901045XX	Ø3"/75 mm, 0.28" orifice
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EMERALD PULSATOR
Flow-adjustable

Material No.:

901057XX	Ø3"/75 mm, 0.28" orifice
901058XX	Large Ø3"/83 mm, 0.28" orifice
940048XX	Ø3.5"/89 mm, 0.38" orifice
940049XX	Ø4"/104 mm, 0.38" orifice
9511XX	Ø5"/127 mm, 0.375" orifice
940269XX	Ø6.5"/165 mm, 0.375" orifice



EMERALD PIN SPIN
Flow-adjustable

Material No.:

901041XX	Ø3"/75 mm, 0.28" orifice
901042XX	Large Ø3"/83 mm, 0.28" orifice
901097XX	Ø3.5"/89 mm, 0.38" orifice
901105XX	Ø5"/127 mm, 0.375" orifice



DIAMOND PULSATOR
Flow-adjustable

Material No.:

940050XX	Ø3.5"/89 mm, 0.38" orifice
940051XX	Ø4"/104 mm, 0.38" orifice
9781XX	Ø5"/127 mm, 0.375" orifice



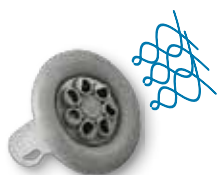
DIAMOND PIN SPIN
Flow-adjustable

Material No.:

901099XX	Ø3.5"/89 mm, 0.38" orifice
901108XX	Ø6.5"/165 mm, 0.375" orifice

All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white



TEXTURED TWIN SPIN
Flow-adjustable

Material No.:

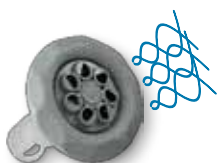
901069XX	Ø3"/75 mm, 0.28" orifice
901070XX	Large Ø3"/83 mm, 0.28" orifice
901093XX	Ø3.5"/89 mm, 0.38" orifice
901094XX	Ø4"/104 mm, 0.38" orifice
9784XX	Ø5"/127 mm, 0.375" orifice
940266XX	Ø6.5"/165 mm, 0.375" orifice



EMERALD TWIN SPIN
Flow-adjustable

Material No.:

901065XX	Ø3"/75 mm, 0.28" orifice
901066XX	Large Ø3"/83 mm, 0.28" orifice
901089XX	Ø3.5"/89 mm, 0.38" orifice
9510XX	Ø5"/127 mm, 0.375" orifice
940265XX	Ø6.5"/165 mm, 0.375" orifice



DIAMOND TWIN SPIN
Flow-adjustable

Material No.:

901091XX	Ø3.5"/89 mm, 0.38" orifice
9693XX	Ø5"/127 mm, 0.375" orifice



EMERALD ROUND SHOWERHEAD
Flow-adjustable

Material No.:

940246XX	Ø5"/127 mm, 0.375" orifice
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EMERALD OVAL SHOWERHEAD
Flow-adjustable

Material No.:

940250XX	Ø5"/127 mm, 0.375" orifice
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DIAMOND OVAL SHOWERHEAD
Flow-adjustable

Material No.:

940249XX	Ø5"/127 mm, 0.375" orifice
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All jet front versions are available in all sizes upon request. Ask sales for minimum order quantity.

Colours available: Black, metallic grey, grey and white

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2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

947600 3/8" air barb x 3/4" w/ later barb
90015000 3/8" air barb x 3/4" water barb with check valve



2" JET BODY

Hole size 1.5"/38 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

947700 3/8" air barb x 3/4" ID water
90015100 3/8" air barb x 3/4" ID water with check valve



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

90094800 3/8" air barb x 3/4" water barb



3" JET BODY

Hole size 2.125"/54 mm
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

90094900 3/8" air barb x 3/4" ID water



3.5" AND 4" JET BODY

Hole size 2.56"/65 mm" for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

985900 3/8" air barb x 3/4" water barb
986200 3/8" air barb x 3/4" water barb with check valve



3.5" AND 4" JET BODY

Hole size 2.56"/65 mm for L-gasket
Hole size 2.5"/64 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

986000 3/8" air barb x 3/4" ID water
986300 3/8" air barb x 3/4" ID water with check valve



5" AND 6.5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamps: Air 8010156 and water 63098

Material No.:

47970000 3/8" air barb x 3/4" water barb
960200 3/8" air barb x 3/4" water barb with check valve



5" AND 6.5" JET BODY

Hole size 3.9"/99 mm for L-gasket
Hole size 3.75"/96 mm for flat gasket
Hose: Air 20-0838 and water 20-0834
Clamp: Air 8010156

Material No.:

47960000 3/8" air barb x 3/4" ID water
958100 3/8" air barb x 3/4" ID water with check valve



GASKET

Material No.:

943506 L-design, for 2" jet bodies
959000 L-design, for 3" jet bodies
985700 L-design, for 3.5" and 4" jet bodies
948601 Flat design, for 3.5" and 4" jet bodies
946600 L-design, for 5" and 6.5" jet bodies
47930000 Flat design, for 5" and 6.5" jet bodies



COMPENSATOR RING

Material No.:

943509 For 2" jet bodies
90095100 For 3" jet bodies
985800 For 3.5" and 4" jet bodies
47950000 For 5" and 6.5" jet bodies



NUT

Material No.:

985734 For 2" jet bodies
955900 For 3" jet bodies
985600 For 3.5" and 4" jet bodies
47940000 For 5" and 6.5" jet bodies



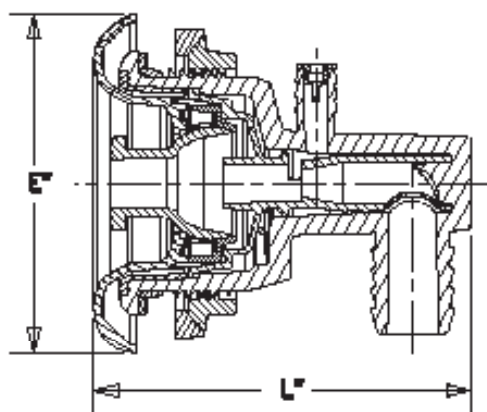
INSTALLATION TOOL

Material No.:

943519 3/8" drive, for 2" jet bodies
973500 3/8" drive, for 3" jet bodies
989900 3/8" drive, for 3.5" and 4" jet bodies
940008 1/2" drive, for 5" and 6.5" jet bodies

Jet dimensions and approximate flow rates

Front	L" – Length	Hole size L gasket	Hole size Flat gasket	Recommended flow rate
2"	70 mm/2.75"	38 mm/1.5"		1.5m ³ /h@ 10.5 m H ₂ O
3"	90 mm/3.55"	54 mm/2.125"		2.2m ³ /h@ 10.5 m H ₂ O
3.5" or 4"	97 mm/3.80"	65 mm/2.56"	64 mm/2.5"	2.7m ³ /h@ 10.5 m H ₂ O
5" or 6.5"	137 mm/5.40"	99 mm/3.9"	96 mm/3.75"	3.6m ³ /h@ 10.5 m H ₂ O
7"	190 mm/7.50"		152mm/6"	26m ³ /h@ 10.5 m H ₂ O



Jet colour codes

Colour	Code XX
Black	BK or 11
Metallic grey	MG
Grey	35 or CG
White	WH or 001



NOTES:

[illegible]

LightedJets

Your Single Source Solution



Lighted Pismo Jets

Stainless steel over clear plastic



3", 3.5" & 5" SS OVER PLASTIC LIGHT UP PISMO PIN SPIN

With light port for string lights

Material No.:

983304-MGCL	Surface Diameter: 3" (50.8mm) Jet Depth: 3.5" (71.12mm) Jet Body: 90094800-CL
983534-MGCL	3.5" with Jet Body: 985900-CL
985304-MGCL	5" with Jet Body: 47970000-CL



3", 3.5" & 5" SS OVER PLASTIC LIGHT UP PISMO SWIRL

With light port for string lights

Material No.:

983301-MGCL	Style: Stainless steel over plastic Surface Diameter: 3" (50.8mm) Jet Depth: 3.5" (71.12mm) Jet Body: 90094800-CL
983531-MGCL	3.5" with Jet Body: 985900-CL
985301-MGCL	5" with Jet Body: 47970000-CL



3.5" & 5" SS OVER PLASTIC LIGHT UP PISMO DIRECTIONAL

With light port for string lights

Material No.:

983530-MGCL	Surface Diameter: 3.5" (88.9mm) Jet Depth: 3.90" (99.06mm) Jet Body: 985900-CL
985300-MGCL	5" with Jet Body: 47970000-CL

PISMO ROUND ULTRA BLASTER

With light port for string lights

Material No.:

287701-MGCL	Ø7" / 168 mm, complete incl. clear jet body
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3", 3.5" & 5" LIGHT UP PISMO SWIRL

With light port for string lights

Material No.:

903301-MGCL	Surface Diameter: 3" (50.8mm)
	Jet Depth: 3.5" (71.12mm)
	Jet Body: 90094800-CL
903531-MGCL	3.5" with Jet Body: 985900-CL
905301-MGCL	5" with Jet Body: 47970000-CL



3", 3.5" & 5" LIGHT UP PISMO PIN SPIN

With light port for string lights

Material No.:

903304-MGCL	Surface Diameter: 3" (50.8mm)
	Jet Depth: 3.5" (71.12mm)
	Jet Body: 90094800-CL
903534-MGCL	3.5" with Jet Body: 985900-CL
905304-MGCL	5" with Jet Body: 47970000-CL



**3" LIGHT UP PISMO MICRO
CYCLONE II NECK JET**

With light port for string lights

Material No.:

903305-MGCL	Surface Diameter: 3" (50.8mm)
	Jet Depth: 3.5" (71.12mm)
	Jet Body: 90094800-CL



**3.5" & 5" LIGHT UP PISMO
DIRECTIONAL JET**

With light port for string lights

Material No.:

903530-MGCL	Surface Diameter: 3.5" (88.9mm)
	Jet Depth: 3.90" (99.06mm)
	Jet Body: 985900-CL
905300-MGCL	5" with Jet Body: 47970000-CL

**5" LIGHT UP PISMO SUPER
CYCLONE DIRECTIONAL**

With light port for string lights

Material No.:

905307-MGCL	Surface Diameter: 5" (127mm)
	Jet Depth: 5.54" (140.72mm)
	Jet Body: 47970000-CL

Lighted Venice Jets

Plastic over clear plastic



2" LIGHT UP VENICE DIRECTIONAL

With light port for string lights

Material No.:

902501-MG

Surface Diameter: 2" (50.8mm)
Jet Depth: 2.8" (71.12mm)
Jet Body: 947600-CL



2" LIGHT UP VENICE DIRECT FLOW

With light port for string lights

Material No.:

902500-MG

Surface Diameter: 2" (50.8mm)
Jet Depth: 2.8" (71.12mm)
Jet Body: 947600-CL



3", 3.5" & 5" LIGHT UP VENICE DIRECTIONAL

With light port for string lights

Material No.:

903500-MG

Surface Diameter: 3" (50.8mm)
Jet Depth: 3.5" (71.12mm)
Jet Body: 90094800-CL

9035500-MG

3.5" with Jet Body: 985900-CL

905500-MG

5" with Jet Body: 47970000-CL



3", 3.5" & 5" LIGHT UP VENICE PIN SPIN

With light port for string lights

Material No.:

903504-MG

Surface Diameter: 3" (76.2mm)
Jet Depth: 3.5" (88.9mm)
Jet Body: 90094800-CL

9035504-MG

3.5" with Jet Body: 985900-CL

905504-MG

5" with Jet Body: 47970000-CL



3", 3.5" & 5" LIGHT UP VENICE PULSATOR

With light port for string lights

Material No.:

903502-MG

Surface Diameter: 3" (76.2mm)
Jet Depth: 3.5" (88.9mm)
Jet Body: 90094800-CL

9035502-MG

3.5" with Jet Body: 985900-CL

905502-MG

5" with Jet Body: 47970000-CL



3", 3.5" & 5" LIGHT UP VENICE SWIRL

With light port for string lights

Material No.:

903501-MG

Surface Diameter: 3" (76.2mm)
Jet Depth: 3.5" (88.9mm)
Jet Body: 90094800-CL

9035501-MG

3.5" with Jet Body: 985900-CL

905501-MG

5" with Jet Body: 47970000-CL

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5" LIGHT UP VENICE TWIN SPIN

With light port for string lights

Material No.:

905503-MG

Surface Diameter: 5" (127mm)

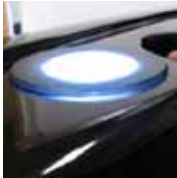
Jet Depth: 5.54" (140.72mm)

Jet Body: 47970000-CL



NEW! WATERFALL

Material No.:	
212900-CL	228mm Waterfall x 1/2S (12.7mm) CL without gasket.
212903-MG	228mm Waterfall snap lid MG.
212904	Waterfall gasket.



CUP HOLDER UNDERWATER LIGHT

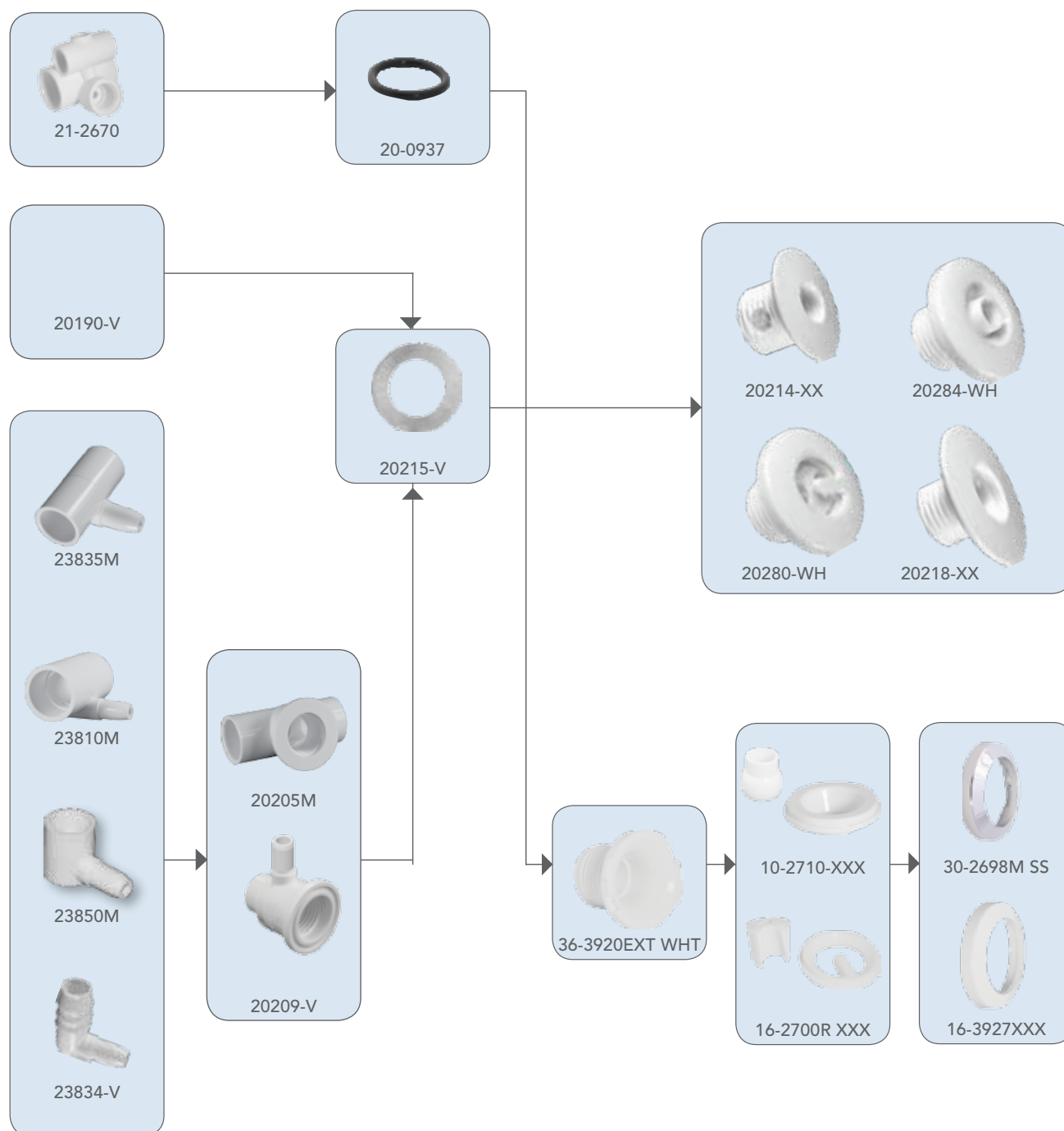
With light port for up to 7 string lights
Hole size: 57 mm

Material No.:	
59410-CL	Cup holder/underwater light



BackJets
Your Single Source Solution





Recommended flow rate: Approx. 1m³/h @ 7m H₂O

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MICRO JET FRONT Ø38 MM

No eyeball
Shaft length 10 mm

Material No.:

20214-WH 12 mm hole. White ABS
20214-CG 12 mm hole. Grey ABS



MACRO JET FRONT Ø50 MM

No eyeball
Shaft length 17 mm

Material No.:

20218-WH 20 mm hole. White ABS
20218-CG 20 mm hole. Grey ABS



MICRO JET FRONT Ø38 MM

Directional eyeball
Shaft length 17 mm

Material No.:

20284-WH White ABS



MICRO JET FRONT Ø38 MM

Pulse assembly
Shaft length 17 mm

Material No.:

20280-WH White ABS



DUO BLASTER ESC. Ø43 MM

To be used with 10-2710 or 16-2700R Duo Blaster sets

Material No.:

30-2698M SS Stainless steel



DUO BLASTER ESC. Ø41.5 MM

To be used with 10-2710 or 16-2700R Duo Blaster sets

Material No.:

16-3927WHT White ABS
16-3927GRY Grey ABS



DUO BLASTER DIRECTIONAL SET

To be used with 36-3920EXT WHT Duo Blaster wall fitting

Material No.:

10-2710WHT White ABS
10-2710GRY Grey ABS
10-2710BLK Black ABS



DUO BLASTER ROTATING SET

To be used with 36-3920EXT WHT Duo Blaster wall fitting

Material No.:

16-2700R WHT White ABS
16-2700R GRY Grey ABS



DUO BLASTER WALL FITTING

Shaft length 22 mm

Material No.:

36-3920EXT WHT White ABS



O-RING

For Mini jet body 21-2670

Material No.:

20-0937

Black



GASKET

For Micro and Flexio jets

Material No.:

20215-V

Clear



MINI JET BODY

Hole size: 24 mm

Hose: Air 20-08209 and water 20-08329

Material No.:

21-2670

32 mm ID water x 20 mm ID air. White PVC



MICRO JET BODY

Hole size: 24 mm

Hose: Air 20-0838 and water 20-0834

Clamps: Air 8010156 and water 63098

Material No.:

20190-V

3/4" water barb x 3/8" air barb. White PVC

15



MICRO JET BODY

For orifice

Hole size: 24 mm

Hose: Water 20-08209 for 20 mm
Water 160016 for 1/2"

Material No.:

20205M

20 mm ID air. White PVC

20205-V

1/2" ID air. White PVC



MICRO JET BODY

For orifice or 1/2" OD water connection

Hole size: 24 mm

Hose: Air 20-0838 and clamp 2010156

Material No.:

20209-V

1/2" OD x 3/8" air barb.. White PVC



ORIFICE TEE

For Micro jet bodies

1/4" orifice

Hose: Water 20-08329 for 32 mm
Water 160027 for 1"

Material No.:

23810M
23810-V

32 mm ID water. White PVC
1" ID water. White PVC



DUO BARB 90° ELBOW

For Micro jet bodies

1/4" orifice

Hose: Water 20-08209

Material No.:

23850M

20 mm ID water. White PVC



ORIFICE TEE

For Micro jet bodies

1/4" orifice

Hose: Water 20-08209 for 20 mm
Water 160016 for 1/2"

Material No.:

23835M
23835-V

20 mm ID water. White PVC
1/2" ID water. White PVC



ORIFICE BARB 90° ELBOW

For Micro jet bodies

1/4" orifice

Hose: Water 20-0834 and clamp 63098

Material No.:

23834-V

3/4" water barb. White PVC



JET THERAPY PILLOW

Use with sock 29102-XX

Material No.:

29100-BK Silver, 280 x 140 mm



JET PILLOW SOCK

Material No.:

29102-WH White
29102-BK Black



JET BODY

Hole size: 24 mm

Hose: 20-0838

Clamp: 8010156

Material No.:

20199-V 3/8" barb



JET WALL FITTING

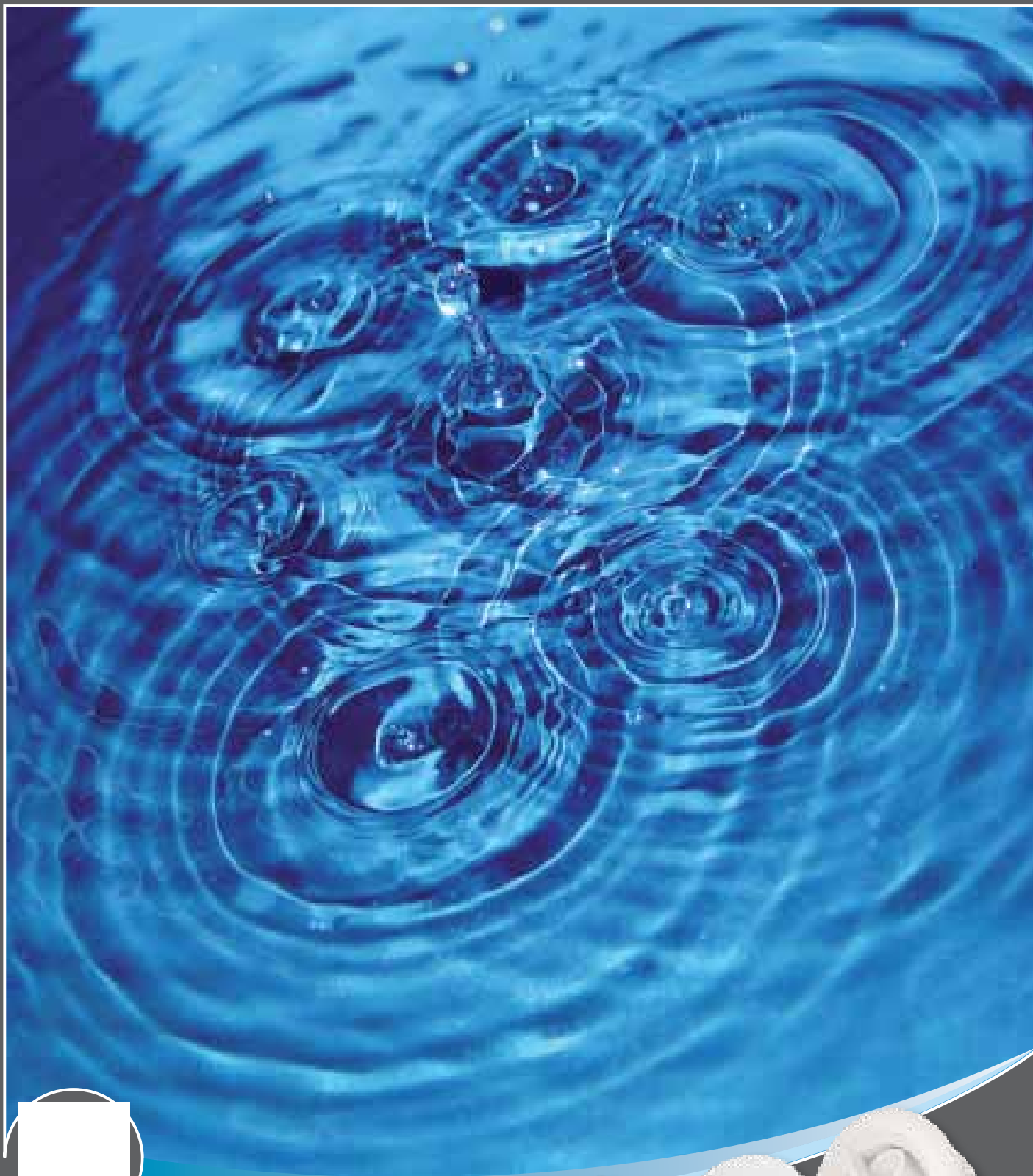
Material No.:

20229-WH Wall fitting



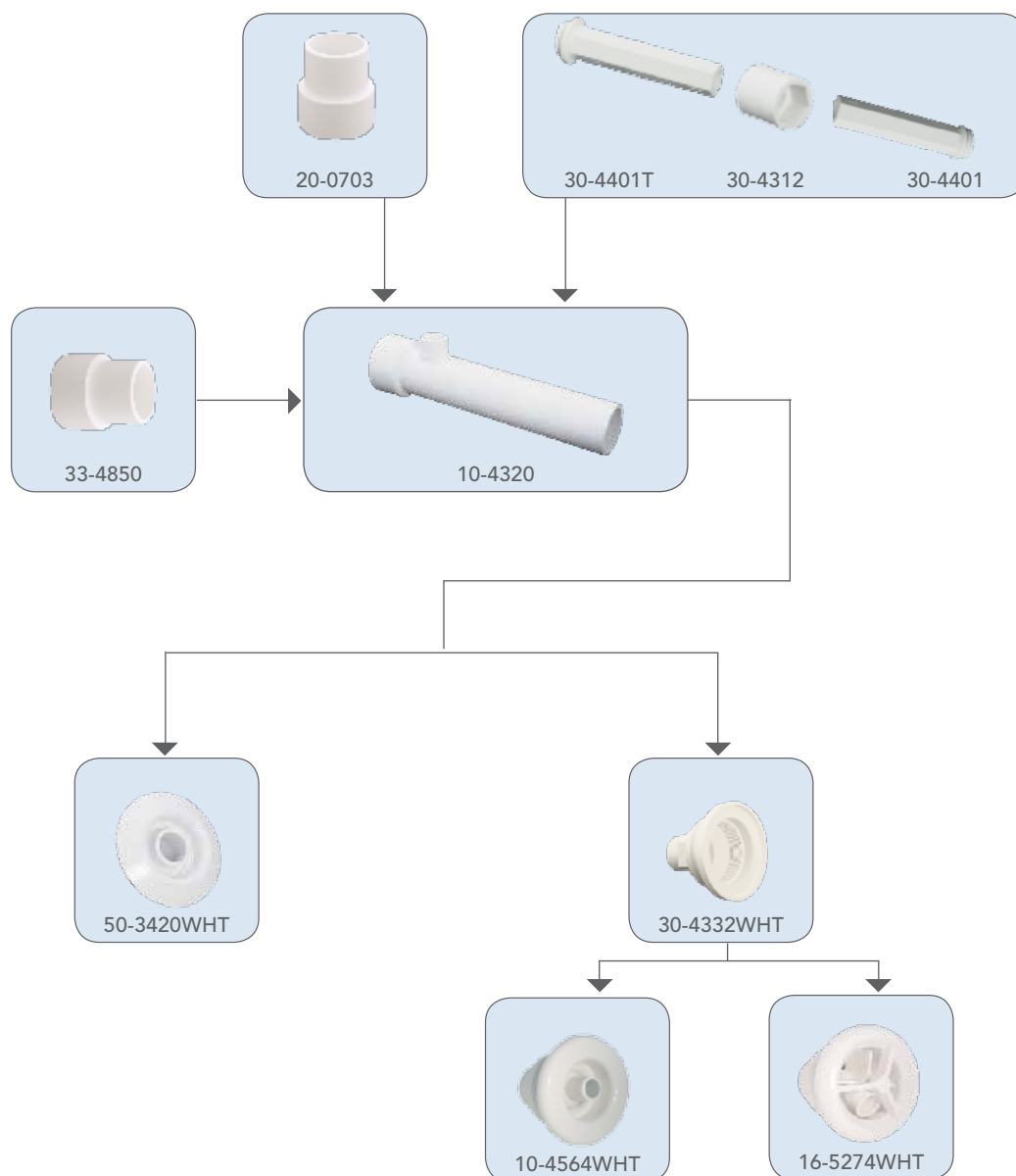
NOTES:

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GuniteJets

Your Single Source Solution





GUNITE VENTURI TEE

To be used with reducers 20-0703, 33-4850 and discharge tee 31-1510. Max concrete wall thickness 260 mm.

Material No.:

10-4320

1 1/2" ID water x 1/2" ID / 3/4" OD air.
5/4" ID glue connection. White PVC



GUNITE FITTING (NICHE)

To be used with jet fronts 10-4564 and 16-5274

Material No.:

30-4332

White ABS



COVERTASSAGE JET FRONT Ø90 MM

To be used with gunite fitting 30-4332

Material No.:

10-4564WHT

White ABS/PVC



MICROSSAGE JET FRONT Ø90 MM

To be used with gunite fitting 30-4332

Material No.:

16-5274WHT

White ABS/PVC



F.I.S. JET FRONT Ø68.7 MM

To be used with gunite tee 10-4320

Material No.:

10-3420WHT

White ABS



GUNITE NOZZLE TWIST LOCK

With twist lock for tee 10-4320

Material No.:

30-4401T

White ABS



GUNITE EXTENSION NOZZLE

To be used with 30-4401T and 30-4312

Material No.:

30-4401

White ABS



HEXAGONAL COUPLING

To be used with 30-4401T and 30-4401

Material No.:

30-4312

White ABS



AirControls
Your Single Source Solution



Air Controls

32 mm / 1" Air Controls



AIR CONTROL

With light port for up to 4 string lights
Silent air intake below rim
Toggle cap
Hole size: 55 mm
Thread length: 74 mm

Material No.:

13779U

1" ID x 5/4" OD thread. Grey ABS/PVC



AIR CONTROL Ø62 MM

Silent air intake below rim.
Tear drop scalloped cap.
Hole size 43 mm
Thread length: 65 mm

Material No.:

13590-WH
13590-CG

1" ID x 5/4" OD thread. White ABS/PVC
1" ID x 5/4" OD thread. Grey ABS/PVC



AIR CONTROL Ø62 MM

Silent air intake below rim
With tear drop scalloped cap.
Hole size: 43 mm
Thread length: 65 mm

Material No.:

13594-WH
13594-CG

1" ID x 5/4" OD thread. White ABS/PVC
1" ID x 5/4" OD thread. Grey ABS/PVC



AIR CONTROL Ø67 MM

Air intake above rim
Handle cap
Hole size: 43 mm
Thread length: 57 mm

Material No.:

10-2100ME WHT
10-2100ME GRY
10-2100ME BLK
10-2100WHT
10-2100GRY
10-2100BLK

32 mm ID x 5/4" OD thread. White ABS/PVC
32 mm ID x 5/4" OD thread. Grey ABS/PVC
32 mm ID x 5/4" OD thread. Black ABS/PVC
1" ID x 5/4" OD thread. White ABS/PVC
1" ID x 5/4" OD thread. Grey ABS/PVC
1" ID x 5/4" OD thread. Black ABS/PVC



AIR CONTROL Ø62 MM

Silent air intake below rim
Toggle cap
Hole size: 49 mm
Thread length: 74 mm

Material No.:

13777U-CG

1" ID x 5/4" OD thread. Grey ABS/PVC



REDUCER

Material No.:

00113M 1" OD x 32 mm ID. White PVC

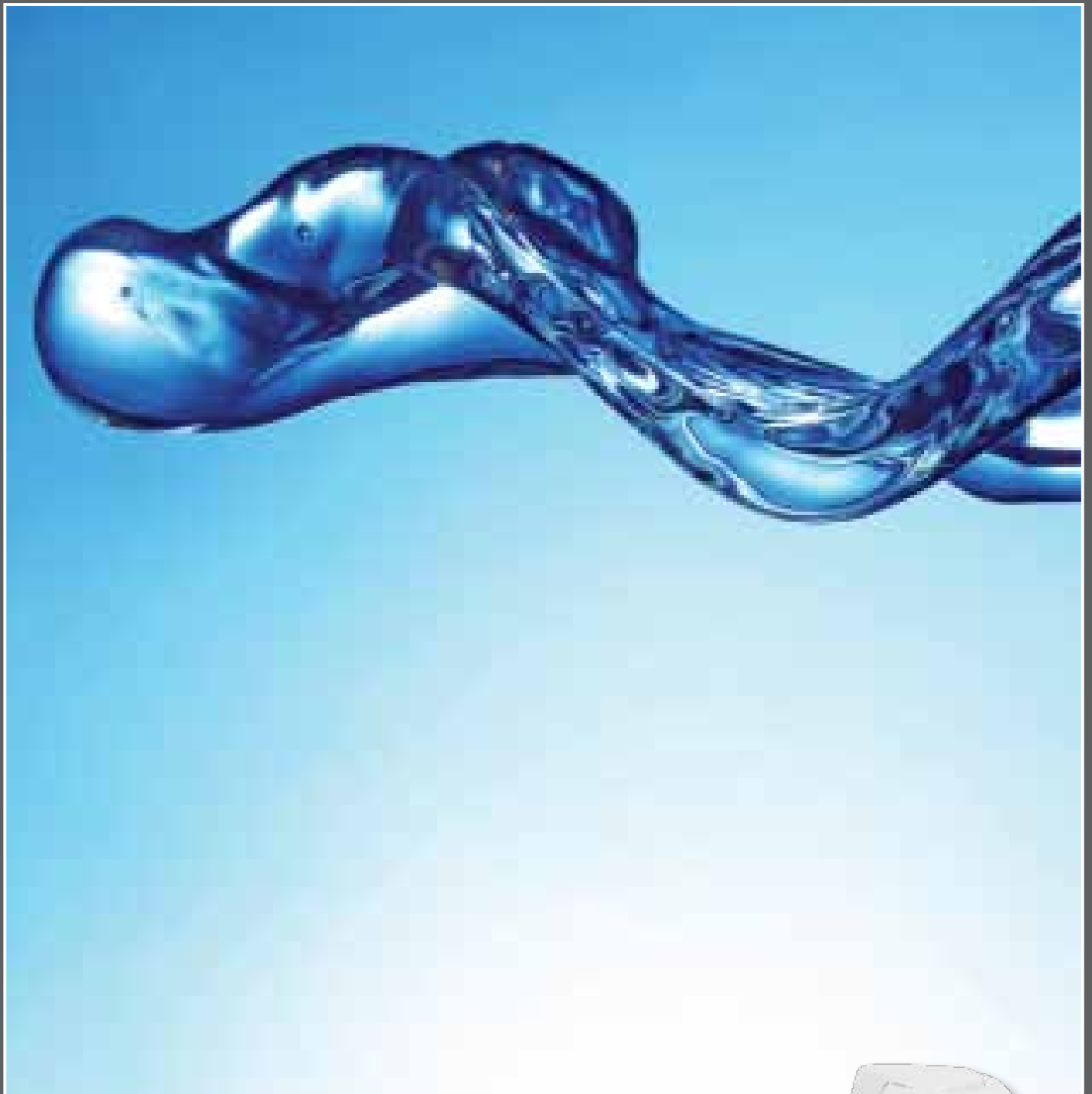


1" AIR CONTROL ELBOW

For air controls 13590, 13594, 13777U and 10-2100.

Material No.:

31-6200 5/4" ID thread x 1" ID. White PVC



Directional Valves

Your Single Source Solution



Pearl Essence Valves

2 & 3 Way Valves



Ø95 MM 3-WAY DIVERTER VALVE ASSEMBLED

Crescent handle
Hole size 80.5 mm

Material No.:

11-4093PIV	3 X 2"ID. Clear Plastic/Ivory Pearl ABS handle
11-4093PSL	3 X 2"ID. Clear Plastic/Silver Pearl ABS handle
11-4093PSB	3 X 2"ID. Clear Plastic/Sky Blue ABS handle
11-4093PJV	3 X 2"ID. Clear Plastic/Java Pearl ABS handle
11-4093PMY	3 X 2"ID. Clear Plastic/Mahogany ABS handle
11-4080PRD	3 X 2"ID. Clear Plastic/Red Pearl ABS handle



Ø64 MM ON/OFF CRESCENT VALVE ASSEMBLED

Crescent handle
Hole size 54 mm

Material No.:

18-4053PIV	2 X 1"ID. Clear Plastic/Ivory Pearl ABS handle
18-4053PSL	2 X 1"ID. Clear Plastic/Silver Pearl ABS handle
18-4053PSB	2 X 1"ID. Clear Plastic/Sky Blue ABS handle
18-4053PJV	2 X 1"ID. Clear Plastic/Java Pearl ABS handle
18-4053PMY	2 X 1"ID. Clear Plastic/Mahogany ABS handle
18-4053PRD	2 X 1"ID. Clear Plastic/Red Pearl ABS handle



Ø64 MM PEARL ESSENCE VALVE ASSEMBLED

Crescent handle
Hole size 54 mm

Material No.:

18900PIV	1"ID. Clear Plastic/Ivory Pearl ABS handle
18900PSL	1"ID. Clear Plastic/Silver Pearl ABS handle
18900PSB	1"ID. Clear Plastic/Sky Blue ABS handle
18900PJV	1"ID. Clear Plastic/Java Pearl ABS handle
18900PMY	1"ID. Clear Plastic/Mahogany ABS handle
18900PRD	1"ID. Clear Plastic/Red Pearl ABS handle



Ø20 MM ON/OFF POSISEAL SAPPHIRE VALVE ASSEMBLED

Crescent handle

Material No.:

11-4062PIV	.75"ID. Clear Plastic/Ivory Pearl ABS handle
11-4062PSL	.75"ID. Clear Plastic/Silver Pearl ABS handle
11-4062PSB	.75"ID. Clear Plastic/Sky Blue ABS handle
11-4062PJV	.75"ID. Clear Plastic/Java Pearl ABS handle
11-4062PMY	.75"ID. Clear Plastic/Mahogany ABS handle
11-4062PRD	.75"ID. Clear Plastic/Red Pearl ABS handle

Note: Pearl Essence are also available for Spa Jets.
Pg. 103.



Ø95 MM 3-WAY SAPHIRE DIVERter VALVE ASSEMBLED

Sapphire handle
Hole size 80.5 mm

Material No.:

11-4080PIV	3 X 2"ID. Clear Plastic/Ivory Pearl ABS handle
11-4080PSL	3 X 2"ID. Clear Plastic/Silver Pearl ABS handle
11-4080PSB	3 X 2"ID. Clear Plastic/Sky Blue ABS handle
11-4080PJV	3 X 2"ID. Clear Plastic/Java Pearl ABS handle
11-4080PMY	3 X 2"ID. Clear Plastic/Mahogany ABS handle
11-4080PRD	3 X 2"ID. Clear Plastic/Red Pearl ABS handle



Ø64 MM ON/OFF CLEAR SAPHIRE DIVERter VALVE ASSEMBLED

Sapphire handle
Hole size 54 mm

Material No.:

11-4090PIV	2 X 1"ID. Clear Plastic/Ivory Pearl ABS handle
11-4090PSL	2 X 1"ID. Clear Plastic/Silver Pearl ABS handle
11-4090PSB	2 X 1"ID. Clear Plastic/Sky Blue ABS handle
11-4090PJV	2 X 1"ID. Clear Plastic/Java Pearl ABS handle
11-4090PMY	2 X 1"ID. Clear Plastic/Mahogany ABS handle
11-4090PRD	2 X 1"ID. Clear Plastic/Red Pearl ABS handle

Spa Directional Valves

On/Off & 3 Way Valves



HYDROFLOW™ 3-WAY VALVE Ø60 MM

Tear drop handle
Hole size 52 mm

Material No.:

11-4020AME WHT 3 x 32 mm ID. White PVC/white ABS handle
11-4020AMEHAGRY 3 x 32 mm ID. White PVC/grey ABS handle
11-4020MEHABLK 3 x 32 mm ID. White PVC/black ABS handle



HYDROFLOW™ 3-WAY VALVE Ø95 MM

Tear drop handle
Hole size 80.5 mm

Material No.:

11-4000WHT 3 X 2"ID. White PVC/white ABS handle
11-4000GRY 3 X 2"ID. White PVC/grey ABS handle
11-4000BLK 3 X 2"ID. White PVC/black ABS handle



ON/OFF VALVE Ø64 MM

Without handle. Use with handle 43235U
Hole size 54 mm

Material No.:

43030 2 x 1" ID. White PVC
43235U-BK Black ABS scalloped handle



90° ON/OFF VALVE Ø64 MM

Without handle. Use with handle 43235U
Hole size 54 mm

Material No.:

43025-V 2 x 1" ID. White PVC
43235U-BK Black ABS scalloped handle



POSI-SEAL™ ON/OFF VALVE Ø60 MM

Tear drop handle
Hole size 52 mm

Material No.:

11-4033ME WHT 2 X 20 mm ID. White PVC/white ABS handle
11-4033ME GRY 2 X 20 mm ID. White PVC/Grey ABS handle
11-4033ME BLK 2 X 20 mm ID. White PVC/black ABS handle

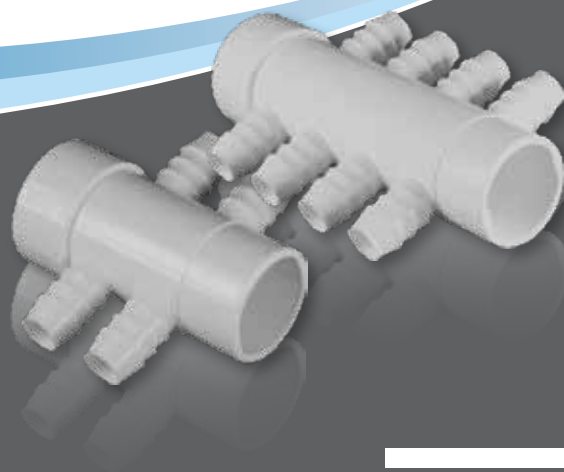


3-WAY VALVE Ø62.3 MM

Without handle. Use with handle 43400
Hole size 31 mm

Material No.:

43006-V 3 x 1" ID. White PVC,
43400-WH White ABS tear drop scalloped handle
43400-CG Grey ABS tear drop scalloped handle



Manifolds&Barbs

Your Single Source Solution

Air Manifolds & Barbs

1/2" Air Manifolds with 3/8" Barbs



1/2" AIR BARB
3/8" 1-BARB

Material No.:

73818 (1) 3/8" air barb. 1/2" OD. White PVC



1/2" AIR BARB 90° ELBOW
3/8" 1-BARB

Material No.:

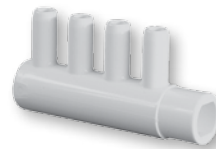
73890 (1) 3/8" 90° air barb. 1/2" OD. White PVC



1/2" AIR MANIFOLD
3/8" 2-BARBS

Material No.:

10316-V (2) 3/8" smooth barb. 1/2" OD. White PVC



1/2" AIR MANIFOLD
3/8" 4-BARBS

Material No.:

72024 (4) 3/8" smooth barb. 1/2" OD x blind end. White PVC



1/2" AIR MANIFOLD
3/8" 4+1-BARBS

Material No.:

72025 (4 +1) 3/8" smooth barbs. 1/2" OD x barbed end. White PVC



1/2" AIR MANIFOLD
3/8" 6-BARBS

Incl. 1/2" ID cap and 2 plugs

Material No.:

72016 (6) 3/8" smooth barb, 1/2" ID x 1/2" ID. White PVC



1/2" / 3/4" BARB 90° ELBOW
3/8" 1-BARB

Material No.:

73790

3/8" 90° barb. 1/2" ID / 3/4" OD. White PVC

Air Manifolds & Barbs

1" Air Manifolds with 3/8" Barbs



1" AIR BARB
3/8" 1-BARB

Material No.:

73812

(1) 3/8" smooth barb. 1" OD. White PVC



1" AIR BARB 90° ELBOW
3/8" 1-BARB

Material No.:

73810

(1) 3/8" 90° barb. 1" OD. White PVC



1" AIR MANIFOLD
3/8" 2-BARBS

Description:

Material No.:

72092

(2) 3/8" barbs. 1" OD. White PVC



1" AIR MANIFOLD
3/8" 2-BARBS

Material No.:

72094

(2) 3/8" barbs. 1" ID. White PVC



1" AIR MANIFOLD
3/8" 4-BARBS
Incl. 2 plugs

Material No.:

72004

(4) 3/8" smooth barbs. 1" OD. White PVC



1" AIR MANIFOLD
3/8" 5-BARBS

Material No.:

72005

(5) 3/8" smooth barbs. 1" OD. White PVC



32 MM / 1" AIR MANIFOLD

3/8" 4-BARBS

Incl. 2 plugs

Material No.:

72095M (4) 3/8" barbs. 32mm ID x 32mm OD. White PVC
72091 (4) 3/8" barbs. 1" ID x 1" OD. White PVC



1" AIR MANIFOLD

3/8" 4-BARBS

Incl. 2 plugs

Material No.:

72097 (4) 3/8" barbs. 1" ID x blind end. White PVC



1" AIR MANIFOLD

3/8" 8-BARBS

Material No.:

72098 (8) 3/8" barbs. 1" ID x 1" OD. White PVC



32 / 1" MM AIR MANIFOLD

3/8" 8-BARBS

Incl. 1" ID cap and 2 plugs

Material No.:

72082M (8) 3/8" barbs. 32mm ID x 1" OD. White PVC
72082 (8) 3/8" barbs. 1" ID x 1" OD. White PVC



32 / 1" MM AIR MANIFOLD

3/8" 8-BARBS

Incl. 1" ID cap and 2 plugs

Material No.:

72080M (8) 3/8" barbs. (2) 1" OD x 32mm ID. White PVC
72080 (8) 3/8" barbs. (2) 1" OD x 1" ID. White PVC



1" AIR MANIFOLD

3/8" 12-BARBS

Material No.:

53016200 (12) 3/8" barbs. 1" OD x 1" OD. White PVC

Air Manifolds

1½" Air Manifolds with 3/8" Barbs



1 ½" AIR MANIFOLD

3/8" 16-BARBS

Material No.:

53015500

(16) 3/8" barbs. 1 ½" ID x 1 ½" OD. White
PVC



1 ½" AIR MANIFOLD

3/8" 16-BARBS

Material No.:

72086

(16) 3/8" barbs. 1 ½" ID x blind end. White
PVC

3/8" & 1/2" Barbs Fittings and Plugs for Air Manifolds



3/8" BARB FITTING
4 BARBS

Material No.:

73894 (4) 3/8" barb. White PVC



3/8" BARB FITTING
2 BARBS

Material No.:

73896 3/8" barb coupling. White PVC



3/8" BARB FITTING
3 BARBS

Material No.:

73893 (3) 3/8" barb tee. White PVC



PLUG FOR 3/8" BARBS

Material No.:

943555 White PVC



PLUG FOR 3/8" BARBS

Material No.:

20203-V White PVC



1/2" 90° BARB

Material No.:

73895 1/2" barb x 1/2" OD. White PVC

Water Manifolds & Barbs

1" Water Manifolds with 3/4" Barbs



1" WATER BARB
3/4" 1-BARB

Material No.:

72602 (1) 3/4" barb. 1" OD (3/4" ID). White PVC



1" WATER BARB
3/4" 1-BARB

Material No.:

72070 (1) 3/4" 45° barb. 1" ID. White PVC



1" WATER MANIFOLD
3/4" 2-BARBS

Material No.:

72087 (2) 3/4" barbs. 1" ID x 1" OD. White PVC



1½" / 50 MM WATER MANIFOLD
¾" 4-BARBS

Material No.:

72044M (4) ¾" barbs. 50mm ID x 1 ½" OD. White PVC
72044 (4) ¾" barbs. 1 ½" ID x 1 ½" OD. White PVC



1½" / 50 MM WATER MANIFOLD
¾" 4-BARBS

Material No.:

72045M (4) ¾" barbs. 50 mm ID x Blind end. White PVC
72045 (4) ¾" barbs. 1½" I.D x Blind end. White PVC



1½" WATER MANIFOLD
¾" 4-BARBS

Material No.:

72083 (4) ¾" barbs. 1 ½" ID x 1 ½" OD. White PVC



1½" WATER MANIFOLD
¾" 8-BARBS

Material No.:

72088 (8) ¾" barbs 1 ½" ID x 1 ½" OD. White PVC



50 MM / 1½" WATER MANIFOLD
¾" 8-BARBS

Material No.:

72089M (8) ¾" barbs. 50 mm ID x Blind end. White PVC
72089 (8) ¾" barbs. 1½" ID x Blind end. White PVC

Water Manifolds

2" Water Manifolds with 3/4" Barbs



2" WATER BARB
3/4" 1-BARB

Material No.:

73822 (1) 3/4" barb. 2" OD. White PVC



2" WATER MANIFOLD
3/4" 2-BARBS

Material No.:

72079 (2) 3/4" barbs. 2" OD. White PVC



2" WATER MANIFOLD
3/4" 2-BARBS

Material No.:

53016500 (2) 3/4" barbs. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD
3/4" 2-BARBS

Material No.:

944410 (2) 3/4" barbs. 2" ID x Blind end. White PVC



2" WATER MANIFOLD
3/4" 4-BARBS

Material No.:

53016300 (4) 3/4" barbs. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD
3/4" 4-BARBS

Material No.:

94023400 (4) 3/4" barbs. 2" ID x 2" ID. White PVC



2" WATER MANIFOLD
3/4" 4-BARBS

Material No.:

944406 (4) 3/4" barbs. 2" ID x blind end. White PVC



2" WATER MANIFOLD
3/4" 6-BARBS

Material No.:

955100 (6) 3/4" barbs. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD
3/4" 6-BARBS

Material No.:

955200 (6) 3/4" barbs. 2" ID x 1 1/2" ID / 2" OD.
White PVC

Water Manifolds

3/4" Barb Fitting for Water Manifolds



3/4" BARB FITTINGS

Material No.:

73480 (1) 3/4" barb. 1/2" OD. White PVC
73434 (1) 3/4" barb. 3/4" OD / 1/2" ID. White PVC



3/4" BARB FITTINGS

Material No.:

73490 3/4" 90° barb. 1/2" OD. White PVC
73590 3/4" 90° barb. 1/2" OD, long. White PVC



3/4" BARB FITTINGS

Material No.:

73403 (3) 3/4" barb wye fitting. White PVC



3/4" BARB FITTINGS

Material No.:

73410 (2) 3/4" barbs. 1" barb. White PVC



PLUG FOR 3/4" BARBS

Material No.:

72048 White PVC



PLUG FOR 3/4" BARBS

Material No.:

42321900 White PVC



2" WATER MANIFOLD

1" 3-BARBS

Incl. plug

Material No.:

943562

(3) 1" barbs. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD

1" 3-BARBS

Incl. plug

Material No.:

943560

(3) 1" barbs. 2" ID x blind end. White PVC

Water Manifolds

1 ½" Water Manifolds with ½ ID Ports



1 ½" WATER MANIFOLD
6-PORTS

Material No.:

72062 (6) ½" ID. 1 ½" ID x 1 ½" OD. White PVC



1 ½" WATER MANIFOLD
6-PORTS
Incl. plug

Material No.:

72060 (6) ½" ID. 1 ½" ID x 1 ½" OD. White PVC



1 ½" WATER MANIFOLD
6-PORTS

Material No.:

72056 (6) ½" ID. 1 ½" ID. White PVC



1 ½" WATER MANIFOLD
10-PORTS

Material No.:

72010 (10) ½" ID. 1 ½" ID x 1 ½" OD. White PVC



2" WATER MANIFOLD
6-PORTS

Material No.:

72057 (6) 1/2" ID x 2" OD. White PVC



2" WATER MANIFOLD
6-PORTS

Material No.:

72058 (6) 1/2" ID x 2" ID. White PVC



2" WATER MANIFOLD
2-PORTS

Material No.:

53016600 (2) 3/4" ID. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD
6-PORTS

Material No.:

955300 (6) 3/4" ID. 2" ID x 2" OD. White PVC



2" WATER MANIFOLD
6-PORT

Material No.:

977600 (6) 1" ID. 2" ID x 2" OD. White PVC

Water Manifolds

Plugs for ID



PLUG FOR 3/4" ID MANIFOLD

Material No.:

86003400

White PVC

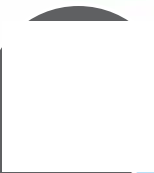
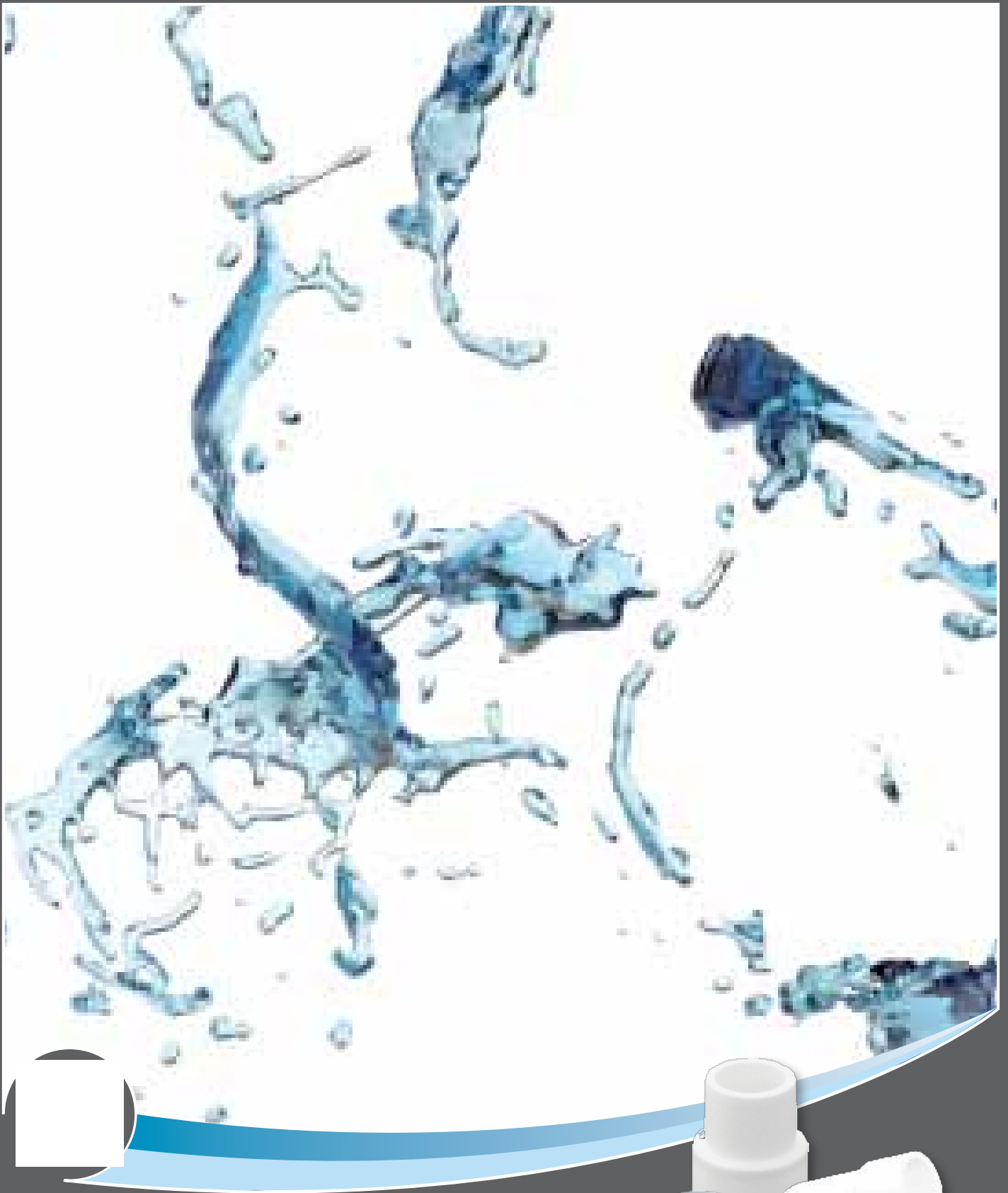


PLUG FOR 1" ID MANIFOLD

Material No.:

86003800

White PVC



Fittings

Your Single Source Solution



ELBOW 45°

White PVC

Material No.:

27-02020	20 x 20 mm ID
27-02032	32 x 32 mm ID
27-02050	50 x 50 mm ID
417-005	1/2" x 1/2" ID
417-010	1" x 1" ID
417-015	1 1/2" x 1 1/2" ID
417-020	2" x 2" ID



STREET ELBOW 45°

White PVC

Material No.:

427-010	1" OD x 1" ID
427-015	1 1/2" OD x 1 1/2" ID
427-020	2" OD x 2" ID



SOCKET

White PVC

Material No.:

27-10020	20 x 20 mm ID
27-10032	32 x 32 mm ID
27-10050	50 x 50 mm ID
429-005	1/2" x 1/2" ID
429-010	1" x 1" ID
429-015	1 1/2" x 1 1/2" ID
429-020	2" x 2" ID



ELBOW 90°

White PVC

Material No.:

27-01020	20 x 20 mm ID
27-01032	32 x 32 mm ID
27-01050	50 x 50 mm ID
406-005	1/2" x 1/2" ID
406-010	1" x 1" ID
406-015	1 1/2" x 1 1/2" ID
406-020	2" x 2" ID
406-130	Reducing 1" x 1/2" ID



STREET ELBOW 90°

White PVC

Material No.:

25-01550	50 mm OD (40 mm ID) x 50 mm ID
409-005	1/2" OD x 1/2" ID
409-010	1" OD x 1" ID
409-015	1 1/2" OD x 1 1/2" ID
409-020	2" OD x 2" ID



TEE

White PVC

Material No.:

27-03020	20 x 20 x 20 mm ID
27-03032	32 x 32 x 32 mm ID
27-03050	50 x 50 x 50 mm ID
401-005	1/2" x 1/2" x 1/2" ID
401-007	3/4" x 3/4" x 3/4" ID
401-010	1 x 1 x 1" ID
401-015	1 1/1" x 1 1/2" x 1 1/2" ID
401-020	2" x 2" x 2" ID



REDUCING TEE

Grey* or White PVC
Threaded

Material No.:

25-03320*	20 mm x 1/2" x 20 mm ID
25-03331*	32 mm x 1/2" x 32 mm ID
25-03351*	50 mm x 1/2" x 50 mm ID
27-04041	32 x 20 x 32 mm ID
27-04064	50 x 32 x 50 mm ID



REDUCING TEE

White PVC

Material No.:

20-0425	32 x 50 x 32 mm ID
20-0712	32 mm x 1" x 32 mm ID
401-130	1" x 1/2" x 1" ID
401-133	1" x 1 1/2" x 1" ID
31-1510	1" ID x 1 1/2" OD x 1" ID



REDUCING TEE - REINFORCED

Grey PVC
Threaded

Material No.:

25-03620	20 mm x 1/2" reinforced x 20 mm ID
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ADAPTOR
Grey PVC
Threaded ID

Material No.:

25-06132 25 mm x 3/4" ID
25-05332 32 mm x 1" ID



ADAPTOR
Grey PVC
Threaded OD

Material No.:

25-11020 20 mm ID/25 mm OD x 1/2" OD
25-09321 25 mm ID/32 mm OD x 3/4" OD



ADAPTOR
White PVC
For 1/2" and 1" Air Controls to 32 mm

Material No.:

10134M 1/2" ID/1" OD to 32 mm ID



ADAPTOR
White PVC

Material No.:

01155M 50 mm ID x 1 1/2" OD. 3/8" barb
1155 1 1/2" ID x 1 1/2" OD. 3/8" barb



Y-ADAPTOR
White PVC

Material No.:

00360M 3 x 32 mm ID
360 3 x 1" ID
20-0722 3 x 2" ID



REDUCER

White PVC

Material No.:

25-06032	20 mm ID x 32 mm OD
25-06052	32 mm ID x 50 mm OD
25-06065	50 mm ID x 63 mm OD.



REDUCER

Grey* or white PVC

Material No.:

20-0703	20 mm ID x 1/2" OD
20-0705	32 mm ID x 1" OD
33-4850	50 mm ID x 1 1/2" OD
33-5048	50 mm ID x 1 1/2" ID
20-0757*	50 mm ID x 2" OD



REDUCER

White PVC

Material No.:

00113M	1" OD x 32 mm ID
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REDUCER

White PVC

Material No.:

437-130	1" OD x 1/2" ID
437-131	1" OD x 3/4" ID
437-211	1 1/2" OD x 1" ID
437-251	2" OD x 1 1/2" ID



REDUCER

White PVC

Material No.:

515	1 1/2" ID x 1/2" ID
115	1 1/2" ID x 1" ID



CHECK VALVE

White PVC

Material No.:

41140	1/2" ID
41100	1" ID
41100M	32 mm ID
41115	1 1/2" ID
42122	2" ID
41122	3/8" barb
41130	Reducing 1/2" ID x 3/8" barb



UNIONIZED CHECK VALVE

White PVC/ABS

Material No.:

42150	1 1/2" ID, 1/4 lb. Spring, UL
42156	1 1/2" ID, 3/32 lb. Spring UL



CHECK VALVE

Opening pressure 45 mbar
Grey PVC

Material No.:

25-110020	20 mm ID. Length 94 mm.
42123M	32 mm ID. Length 118 mm.
25-110050	50 mm ID. Length 150 mm.



BLOWER CHECK VALVE

Special blower version, opening pressure 13 mbar

Material No.:

20-0603	32 mm OD. White PVC. Not recommended for use at temperatures exceeding 60°
20-0603HR	32 mm OD. Grey Lexan. Heat resistant



BALL VALVE

With teflon seat and EPDM o-ring.
Grey PVC

Material No.:

25-01132	32 x 32 mm ID. Length 117 mm
25-01150	50 x 50 mm ID. length 148 mm



SLIDE VALVE

PVC

Material No.:

45015-V	1 1/2" ID
45012-V	2" ID



FLEXIBLE HOSE

White PVC

Material No.:

20-08209	20 mm OD. Roll of 25 m
20-08329	32 mm OD. Roll of 25 m
20-08509	50 mm OD. Roll of 25 m
160016	1/2" OD. Roll of 30 m
160027	1" OD. Roll of 30 m
160040	1 1/2" OD. Roll of 30 m
160050	2" OD. Roll of 30 m



REINFORCED FLEXIBLE HOSE

For 3/8" and 3/4" barbs

White PVC

Material No.:

504010	10 mm ID x 16 mm OD. For 3/8" barbs. Roll of 100 m
20-08219	20.5 mm ID. For 3/4" barbs. Roll of 25 m



REINFORCED FLEXIBLE HOSE

For 3/8" and 3/4" barbs

Clear PVC

Material No.:

20-0838	10 mm ID x 15 mm OD. For 3/8" barbs. Roll of 50 m
20-0834	20 mm ID x 28 mm OD. For 3/4" barbs. Roll of 50 m



RIGID PIPE

White PVC

Material No.:

20-1820	20 mm OD. Length 3 m
20-1832	32 mm OD. Length 3 m
20-1850	50 mm OD. Length 3 m
SH-2114	1" OD. Length 1.5 m
SH-2115-1.0	1 1/2" OD. Length 1 m
SH-2116	2" OD. Length 1.5 m



TUBE

Clear PE

Recommended for quick connections

Material No.:

20-0811	6 mm ID x 8 mm OD. Roll of 50 m
20-0813	8 mm ID x 10 mm OD. Roll of 25 m



FLEXIBLE TUBE

Clear PVC

Material No.:

20-0853	3 mm ID x 5 mm OD. Roll of 50 m
20-0871	7 mm ID x 11 mm OD. Roll of 50 m



HOSE MOUNTING CLIP

ABS

Material No.:

22540-V For 32 mm and 1" hose



HOSE/TUBE CLAMP

Metal

Material No.:

8010156 Metal double wire spring clip. For 3/8" barbs
63098 Metal double wire spring clip. For 3/4" barbs
20-0923 11-13 mm ID. Metal. For 8 mm barbs



HOSE/TUBE CLAMP

Plastic

Material No.:

20-08048 16.8 mm ID. Black. For 3/8" barbs
20-0608 36.7 mm ID. White. For hose cuff 20-0607



CAP

Grey* or white PVC

Material No.:

447-010 1" ID
447-015 1 1/2" ID
447-020 2" ID

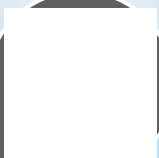
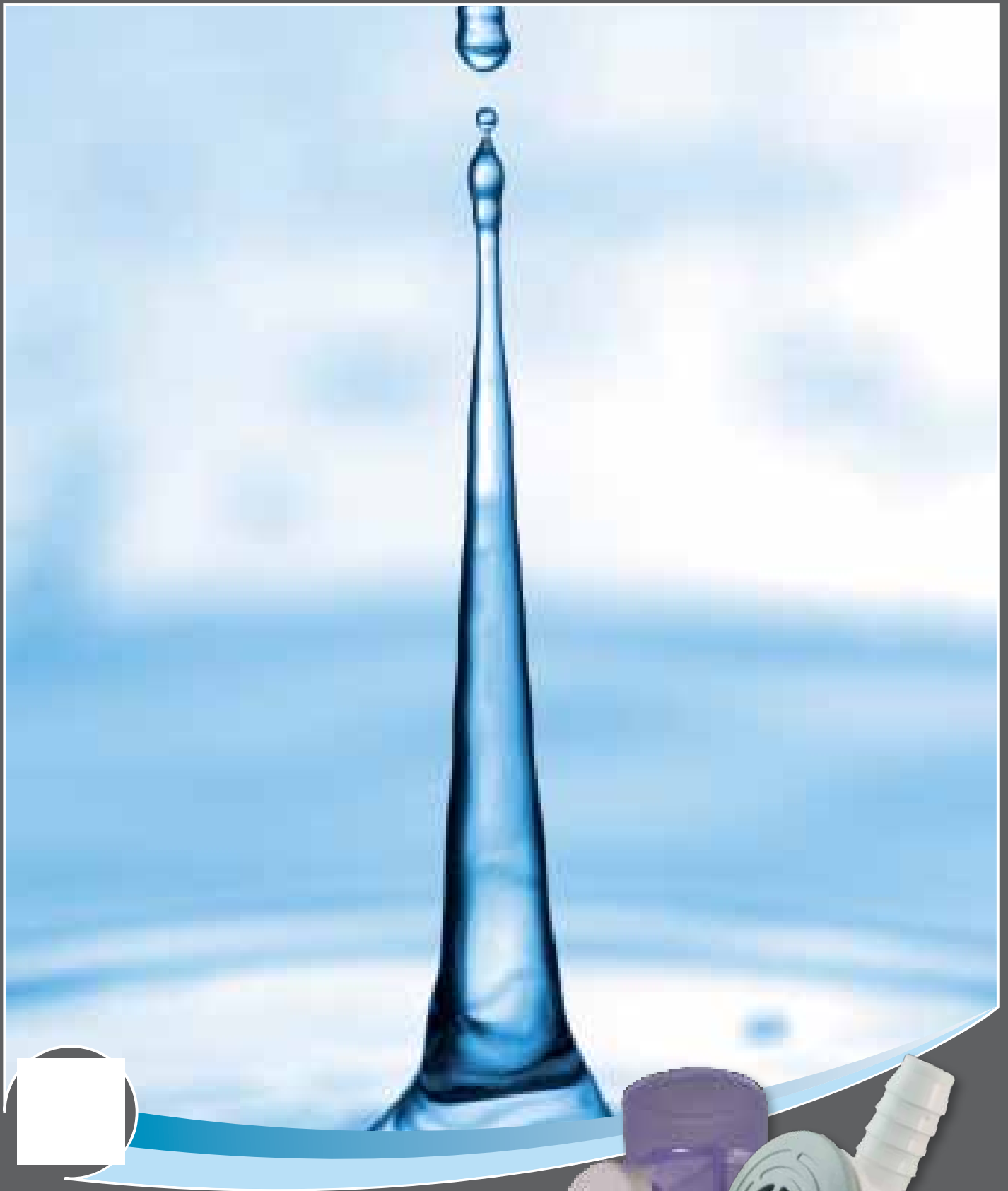


PLUG

White PVC

Material No.:

00055M 20 mm OD
00015M 32 mm OD
30-1015ME 50 mm OD
55 1/2" OD
15 1" OD
449-015 1 1/2" OD
449-020 2" OD



DrainSystem
Your Single Source Solution

Drain System

Accessories for Drain



GRAVITY SPA DRAIN Ø63 MM

Includes cover, wall fitting and 3/4" barb body

Hole size: 42 mm

Material No.:

41975-WH	3/4" barb. White ABS/PVC
41975-CG	3/4" barb. Grey ABS/PVC
41975-MG	3/4" barb. Metal grey ABS/PVC
41975-BK	3/4" barb. Balack ABS/PVC



GRAVITY SPA DRAIN Ø48 MM

To be used with reducer 20-0705

Hole size: 27 mm.

Material No.:

10-2294WHT	Clear blue PVC drain, white ABS cover
10-2294GRY	Clear blue PVC drain, grey ABS cover



SPA DRAIN

Can be connected to garden hose for drainage of tub.

To be used with 41920-BK

Material No.:

41930-BK	1/2" ID. Thread length 55 mm. Black ABS
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SPA DRAIN

Can be connected to garden hose for drainage of tub.

To be used with 41920-BK

Material No.:

41927-BK	3/4" barb. Thread length 42 mm. Black ABS
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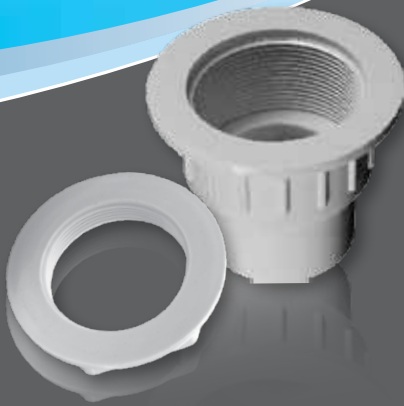


SPA DRAIN NICHE WITH NUT

To be mounted onto spa cabinet. Use with spa drain 41930-BK or 41927-BK

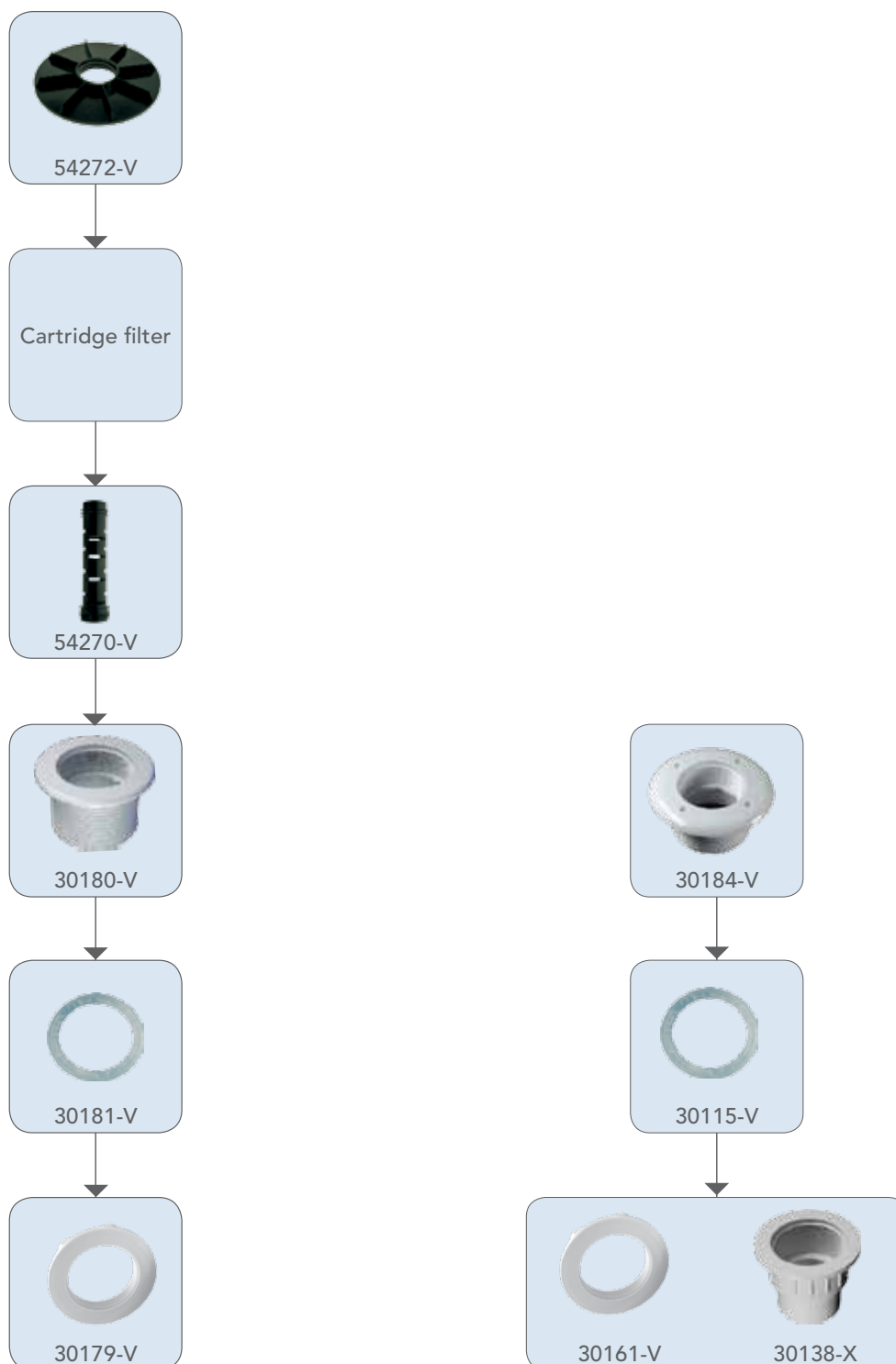
Material No.:

41920-BK	With nut. Black ABS
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FilterFittings
Your Single Source Solution

[illegible]



Cartridge Filter Fittings

1 1/2" Bulkhead Fitting



BULKHEAD FITTING

To be used with 1 1/2" threaded cartridge filters

Material No.:

30184-V 1 1/2" ID threaded bulkhead fitting. PVC



GASKET

For 30184-V

Material No.:

30115-V Gasket



NUT

For 30184-V

Material No.:

30161-V Nut. ABS



THREADED ADAPTOR

For 30184-V

Material No.:

30138M 50 mm OD. PVC
30138-V 1 1/2" OD. PVC



BULKHEAD FITTING

To be used with spindle 54270-V and filter lid 54272-V for cartridge filters without thread

Material No.:

30180-V 2" ID. Thread length 2"/55 mm. White PVC



GASKET

For 30180-V

Material No.:

30181-V Gasket



NUT

For 30180-V

Material No.:

30179-V White ABS



FILTER SPINDLE

To be used with 54272-V and 30180-V for cartridge filters without thread

Material No.:

54270-V Length 180 mm, Ø55 mm, black ABS



FILTER LID

To be used with 30180-V and 54270-V for cartridge filters without thread

Material No.:

54272-V Black ABS



NOTES:

[illegible]



eFAST&RMA
Your Single Source Solution

EFAST™ TEST STATION

The Final Analysis Spa Test (F.A.S.T.) was designed for OEM manufacturers to eliminate manual errors and oversights that can cause problems with a spa before it leaves their dock. This system runs through a predefined series of tests to check the operations of pumps, blowers and other ancillary products on the spa to make sure they were installed correctly and are working properly.



EFAST™ SINGLE BAY TEST STATION

Material No.: 50258

Description: 50Hz. Standard test station. Runs one water test at a time.

EFAST™ THREE BAY TEST STATION

Material No.: 54076

Description: 50 Hz. Enhanced test station. Capable of running up to three water tests from one computer concurrently.

Computer requirements:

- Pentium 4/1GB/CDROM/NIC/100GB HD
- Internet access and FTP access
- One unused USB port
- Windows 2000 – XP
- CRT or LCD display, – 17" – 22"
- Installation of LogMeln software (comes with device)

EFAST™ SOFTWARE CD

Material No.: 60127

Description: Included with the Single Bay and Three Bay test stations.

Power requirements:

- 240VAC, 50A, 60Hz
- 230 VAC, 30/60A, 50Hz
- Power connectors supplied by customer

RMA™ TESTER

Balboa's RMA™ Tester allows for remote factory testing in order to zero in on boards suspected of field failure. This diagnostic tool performs a complete functional output and sensor input test for all Balboa circuit boards using a step-by-step program that notifies the user when something is not connected correctly.



KIT RMA™ TESTER

Material No.: 70042

Description: Kit RMA™ Tester.

Your Single Source Solution

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Terms&Conditions
Your Single Source Solution

§1. In the absence of any specific written agreement to the contrary between the parties, the standard terms of sale and delivery presented below shall apply to all sales of products and services to purchasers located outside of the United States of America by Balboa Water Group and/or any of its affiliated entities (collectively, the "company" as defined below).

§ 2. Drawings and description

All information concerning weight, dimensions, capacity, technical and technological data, etc. as well as prices listed in catalogues, advertisements, photographic material, price lists and the like is approximate. Such information shall only be considered binding in the event that such is expressly stated in the confirmation of order issued by the company or in any form of written agreement signed by the company.

§3. Prices

The company shall be entitled to change its prices and/or price lists at any time without advance notice. In the absence of any written agreement to the contrary, sales shall be made using the prices for products set forth in the company's standard price list(s) applicable on the date on which the order was confirmed. Absent a written agreement to the contrary, all sales originating from the United States shall be in U.S. Dollars; all sales originating from Denmark shall be in either Danish Kroner (DKK) or Euros (EUR) in the discretion of the company; and all sales originating from Australia shall be in Australian Dollars (AUD). Prices quoted are ex works (as such shipping term is defined in the Uniform Commercial Code (the "UCC") for sales originating from the United States or in INCOTERMS 2000, as published by the International Chamber of Commerce, Paris, France for international sales) from the company's facility, and are for products and standard packaging only and are exclusive of all installation, warehousing or other services or requests, and exclusive of all VATs, GSTs, tariffs, duties, export and import taxes, sales taxes, use taxes, inbound governmental charges or fees, documentation fees, regional taxes and fees and like levies or taxes. Any taxes, fees or duties which the company may be required to pay or collect relating to the sale, delivery, processing, use or transportation of the products shall be for the account of the purchaser who shall promptly reimburse the company on demand. Prices are based on the currency exchange rates applicable at the time the offer was made, and may therefore be amended by the company at any time to accommodate changes in the price/currency ratio. Prices quoted on custom products are open for the time stated in the quote or a maximum of thirty (30) days from the quotation date and are based on estimated quantities, labor and material requirements and other factors, and are subject to adjustment by the company from time to time.

§4. Delivery

Delivery is ex works from the company's facility. Risk of loss for the products passes to the purchaser at the time of delivery by the company to the freight carrier at the point of shipment. The shipment will be sent at the risk and the expense of the purchaser and the company has no liability and shall not accept responsibility for loss or damage occurring in transit. Unless the company has received specific instructions in advance, the company shall be entitled to select the means of transport and delivery route. The purchaser will provide the company with a copy of all applicable export documentation associated with exporting products within fifteen (15) days after shipment from the port of export. The purchaser assumes the responsibility to obtain adequate insurance on each shipment. However, for shipments of products from Denmark to Danish customers only, the company shall take out and pay premiums for standard transport insurance to cover such shipments within Denmark. The company can also include the insurance premium as part of the freight on the invoice. This premium will usually be equal to 0.2% of the sum of the invoice, though not displayed separately.

§ 5. Freight policy

Unless otherwise agreed in writing, transportation, import and export costs are the sole responsibility of the purchaser, provided that:

i) GG Australia

Effective January 1, 2009, orders shipped from the GG Australia facility or designated warehouse and are not under contract, will be assessed a \$15 AUD fee for shipments under 3KG and a \$25 AUD fee for shipments exceeding 3KG.

ii) Valencia-Canada

Effective January 1, 2009, all purchase orders exceeding \$15,000 for products shipped from our Valencia California location to locations within Canada will be shipped freight prepaid.

iii) For products shipped from Denmark, purchasers will be required to pay a documentation fee of DDK 525/ EUR 70/ GBP 47/ USD 100 for export documents as well as dispatch fees for all orders with total net value of less than DKK 2,500/ EUR 350 GBP 240/ USD 430 of DKK 350/ EUR 50/ GBP 40/ USD 60.

§ 6. Delivery times

The delivery time quoted is approximate, with reservations for delays on account of Force Majeure Events (as defined below). Should any Force Majeure Event occur, delivery times will be postponed for a period equivalent to the duration of the event(s) in question. Deliveries made on the postponed delivery date shall in all respects be considered to have been made on time. Insofar as the delivery time may be stated as specific number of days or weeks, this period shall be calculated from the time when the company received from the purchaser all the precise information required to implement the order. Insofar as the purchaser may fail to meet any payment obligations by or on the due dates of same, the delivery time shall be postponed for a period equivalent to the duration in the delay of the payment in question. Insofar as delays arise for reasons other than those mentioned above, such shall not entitle the purchaser to cancel any order either fully or in part unless the delay in question can be considered significant and the company fails to complete the delivery no later than 14 days after having been notified to do so in writing by the purchaser. The company reserves the right to delay shipment of phone orders until it receives a written confirmation of the order.

§7. Payment

All payments for products will be paid in full in advance of shipment until credit is established. Payment shall be made in the applicable currency specified in Section 3 above on or before the date stated on the invoice. In the event that no such date is

stated on the invoice, the sum owing shall be paid in cash in advance of shipment. Upon written approval by the company's credit department, invoices may be due thirty (30) days from the date of invoice or on such other terms as approved by the company's credit department in writing. The credit department may decline at any time to permit shipment of products hereunder until receipt of payment, establishment of a letter of credit or written agreement upon terms and conditions satisfactory to the credit department in its sole discretion. Payments shall be due on a pro rata basis in the case partial shipments are made by the company; provided that, delays in the delivery of a non-significant part of the shipment shall not entitle the purchaser to refrain from paying the full amount owing pursuant to the agreements reached. Should the purchaser fail to make payment on time, in addition to collection costs, the company shall be entitled to charge interest on the sum owing at the lesser of (a) 1.5 percent (1.5%) per month, or (b) the maximum percentage then permitted by law, in either case on the balance remaining from the time of delivery until such time as payment may be made. If the company retains a third party to collect overdue amounts, all collection costs resulting from such retainer, including, without limitation, legal fees and disbursements, shall be payable upon demand by the purchaser to the company.

In the event that the purchaser fails to accept or permit delivery on time for products that are to be delivered at a specific time, the company can choose to either sell said products at the purchaser's expense, having notified the purchaser of its intention to do so, or to store said products at the purchaser's expense such that the purchaser is required to pay all costs linked to the period of storage. Irrespective of any delays in delivery, the purchaser is in all events obliged to make the stipulated payment on or by the applicable due date. The purchaser bears the full risk and cost for any items placed in storage.

§ 8. Inspection

The purchaser is encouraged, immediately upon reception of the items purchased, to carry out an inspection of the products received with good business practice. The purchaser shall have no right to inspect any products prior to delivery, and any inspection of the products by the purchaser shall be made within eight (8) days after their arrival at the purchaser's receiving point. Failure to make inspection and provide the company with written notice specifying any claimed basis for rejection within that time will constitute deemed acceptance of the products and, if the purchaser has established credit terms, a final waiver of the right to make any inspection prior to full payment for all of the products.

§ 9. Conditions of ownership

If payment is not made before or at time of delivery, title to all products at any time delivered to the purchaser and which have not been paid for in full shall remain with the company until all payments have been made in full, and the purchaser hereby grants to the company a security interest (including without limitation, a purchase money security interest) in such products at any time delivered by the company to the purchaser, and in all replacements and substitutions thereof, all additions and accessories thereto, and all proceeds thereof, to secure payment of the purchase price of all products, any collection costs, and any other debts owing to the company by the purchaser, and interest thereon. The company and the purchaser agree that the security interest granted hereunder attaches upon the issuance of the purchaser order by the purchaser to the company. The purchaser agrees to do all acts necessary to perfect and maintain such right, title and security interest in the company. The purchaser, at its expense, shall fully insure the products against all perils until the company has been paid in full.

§ 10. Changes to design or product offering

The company reserves the right, prior to delivery and without notifying the purchaser in advance, to carry out such alterations to the design, construction, etc. of its products as the company may deem necessary in its discretion. Such alterations shall only entitle the purchaser to cancel an unfulfilled purchase order insofar as the purchaser proves that the purchase was conditional upon a specific design, construction or similar requirement. Changes made and any resultant cancellation of the purchase order does not entitle the purchaser to any form of compensation or damages, or to a proportional discount in the purchase price. The company reserves the right to discontinue products or product components at any time for any or no reason.

§11. Confidentiality

The purchaser agrees to protect and hold in strict confidence all trade secrets, proprietary and confidential information relating to the products or the company of which it has or gains knowledge. All drawings, estimates, description and other material of the company made available on the issuing of offers or deliveries are and shall remain the sole property of the company and may not, in the absence of express permission in writing from the company, be copied, presented to other companies or used as the basis for performing work. Drawings and other materials that the company has prepared for use in connection with offers are to be returned or destroyed on request.

§ 12. Packaging

Products will be shipped in standard packaging designated and supplied by the company from time to time in its discretion, which may vary depending on whether the shipment is made by air or ship or other common carrier. Product containers shall be accompanied by such packing IDs, and/or any other documents and materials as deemed necessary by the company. Custom packaging will only be available at the purchaser's expense pursuant to a written agreement, and company is not responsible for charges associated with overseas containers, containerizing or packaging for long-term storage, pier handling, marshalling, demurrage, lighterage, heavy lifts and the like. Boxes and/or other packaging returned will not be credited and will only be accepted on the basis of a written agreement.

§ 13. Returns

Products which are normally stocked by the company for sale (specifically excluding any custom products or products using or integrating purchaser's equipment) ordered in error may be returned, at the purchaser's expense, within thirty (30) days of delivery for credit, less an amount equal to 25% of the original purchase price, representing a restocking charge. No product is to be returned to the company by the purchaser without the prior written consent, acceptance and authorization of the company, and all returns require a return authorization number which must be included on all shipping

paperwork. The company shall have no liability for products damaged in shipment. To apply for permission to return products, the purchaser must first complete the "Return Goods" form, which can be found on www.balboawatergroup.com for shipments from the United States and Australia, or www.hydroair.dk for shipments from Denmark, and then contact the company for further instructions.

§14. Company warranty policy

The company's limited warranty entitled "Balboa Water Group Limited Warranty" is accepted in its entirety by the purchaser as the sole warranty relating to the products, and is incorporated herein and made a part of these terms and conditions by this reference.

§ 15. Product liability

The purchaser shall at all times indemnify, defend and hold the company and its present and former directors, officers, employees agents and affiliates (collectively, "indemnities") harmless against all claims, proceedings, demands and liabilities of any kind whatsoever, including reasonable legal expenses and attorneys' fees, arising out of the death of or injury to any person or persons or out of any damage to property, resulting from the development, production, manufacture, sale, use, or advertisement of the purchaser's products. The purchaser shall obtain and carry in full force and effect at all times commercial, general liability insurance which shall protect the purchaser and the indemnities from all such claims. Such insurance shall be written by a reputable insurance company and shall be endorsed to include product liability coverage, and shall contain limits not less than those necessary to adequately insure for all such potential claims. The purchaser shall, upon request, provide the company with certificates of insurance from the insurance carrier evidencing the foregoing insurance coverage.

§ 16. Product information advice liability

Absent the existence of a specific written agreement to the contrary, any product information, technical advice or other informational assistance furnished by the company relating in any manner to its products shall be furnished without additional charge and will be given and accepted at the purchaser's sole risk. The company has no obligation to provide any information or assistance prior to receipt of the full purchase price from the purchaser for the products. The company will have no liability for damages, loss or expense arising out of the provision of information or assistance or any act or omission, including negligence, by the company or its agents. Notwithstanding the foregoing, in the limited circumstance where the company has supplied separate, non-standard written advice to the purchaser in the form of the preparation of specific, customized written calculations or in the form of a specific, customized written statement concerning the suitability of the items sold for a specified purpose issued to a purchaser who cannot reasonably be considered to possess the requisite professional knowledge of the area to be able to evaluate the suitability of the items without assistance, then the company shall accept limited liability only if the advice provided can be considered indefensible in relation to the knowledge the company possessed regarding the object of the advice at the time same was given. The company shall accept no liability for statements if it has been made clear that such statements are based on an approximate evaluation or estimation. Should errors be discovered in the written advice supplied by the company in connection with the delivery from the company, the purchaser shall, without undue delay and immediately after the purchaser has or should have become aware of the presence of the errors, inform the company of same. Should this provision be ignored or waived, the company shall only pay compensation for such losses as may have arisen as a direct consequence of the incorrect advice from the company at the time at which the purchaser should have informed the company.

In no event shall the liability of the company for losses incurred as a result of incorrect information or advice exceed the obligation to repair or replace the product in question with like product, and in no event shall the company be liable to purchaser for any amounts in excess of the purchase price paid for the individual product which is the subject of the cause of action. The liability of the company for losses incurred as a result of errors in information or advice shall lapse no later than one (1) year after the items to which the information or advice is linked have been delivered to the purchaser.

§ 17. Limitation on liability

THE COMPANY SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE OR OTHER BREACH OF THESE TERMS AND CONDITIONS AND IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED ON CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL THE COMPANY'S LIABILITY TO THE PURCHASER EXCEED THE PURCHASE PRICE PAID FOR THE INDIVIDUAL PRODUCT WHICH IS THE SUBJECT OF THE CAUSE OF ACTION. IN NO EVENT SHALL THE COMPANY'S LIABILITY TO THE PURCHASER EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, operating losses, business interruption, loss of use or revenue, cost of capital, fines or other indirect losses, or loss or damage to property or equipment.

§ 18. Minimum orders

No orders will be accepted under:

\$250.00 USD
1500 DKK
200 GBP
200 EUR
350 AUD

§ 19. Governing laws and venue

By issuing a purchase order to the company, the purchaser accepts these terms and conditions as applicable therein. Any blanket replacement by the purchaser's terms and conditions is hereby rejected, and in the event of any inconsistency between the terms and conditions hereof and the purchase order, the terms and conditions hereof shall prevail in all instances. For shipments originating from the United States, these terms and conditions shall be governed by, interpreted under, and construed and enforced in accordance with the internal laws of the State of California, U.S.A. applicable to agreements made and to be performed wholly within the State of California, U.S.A.,

including without limitation the California Uniform Commercial Code and excluding the application of the United Nations Convention on Contracts for the International Sale of Goods and INCOTERMS 2000. In the event a judicial proceeding is necessary, the sole forum for resolving disputes arising under or relating in any manner to these terms and conditions and any purchase order for shipments originating from the United States are the state or federal district courts located in the County of Orange, State of California, U.S.A. and all related appellate courts, and the parties hereby consent to the jurisdiction of such courts, and that venue shall be in County of Orange, State of California, U.S.A. For shipments originating from Denmark, these terms and conditions shall be governed by, interpreted under, and construed and enforced in accordance with the normal rules of Danish law, excluding, without limitation, the application of the United Nations Convention on Contracts for the International Sale of Goods, and any and all disputes shall be heard solely by Esbjerg Court, Denmark. For shipments originating from Australia, these terms and conditions shall be governed by, interpreted under, and construed and enforced in accordance with the internal laws of the Province of Victoria of Australia excluding, without limitation, the application of the United Nations Convention on Contracts for the International Sale of Goods, and any and all disputes shall be heard solely by the provincial court located in Melbourne, Australia.

Each party hereto waives any right to challenge or move the foregoing designated jurisdictions and venues on grounds of inconvenient forum. Service of process may be made in any manner provided for by applicable law, and for shipments from the United States, if purchaser is not otherwise subject to service of process in the State of California, purchaser agrees to and does hereby irrevocably appoint the Secretary of State of the State of California as purchaser's agent for the acceptance of service of process, and a copy of such process shall be mailed by company to purchaser at purchaser's last known address. These terms and conditions are binding upon and enure to the benefit of the parties hereto and their respective heirs, executors, successors and permitted assigns, as the case may be. Except with the prior written approval of the company, the purchaser may not assign a purchaser order or the terms and conditions applicable to it. If any provision contained herein is determined to be invalid or unenforceable in whole or in part, such invalidity or unenforceability shall attach only to such provision and all other provisions shall remain in full force and effect.

§ 20. Force majeure

The company shall not be liable for any delay in performance, shipment or delivery or inability to provide the purchaser with any products due to causes beyond its reasonable control, including, without limitation, strikes, lock-outs, riots, wars, terrorism, mobilization, impoundment, currency restrictions, obstacles to transport, restrictions on fuel or materials, weather, fire, flood, earthquake, other Acts of God, governmental order or regulation, missing or incomplete deliveries from subcontractors, loss of electricity, and acts of the purchaser (including failure to timely provide the company with requested evidence that any export or import license or permit has been issued to the purchaser) or any other such causes beyond the control of the company (collectively, "Force Majeure Events"). Performance, shipment and/or delivery shall be deemed to be suspended for so long as performance of the same is delayed due to causes beyond the company's reasonable control, and the purchaser agrees to accept deliveries whenever such causes have been remedied in accordance with the terms of the "Delivery times" section above.

§ 21. Compliance with laws

All transactions hereunder shall at all times be subject to and conditioned upon compliance with all applicable export control laws and regulations, including those of the country from which products are shipped and those of the U.S. Government. The purchaser agrees that it shall not, except as said laws and regulations may expressly permit, make any disposition by way of transshipment, re-export, diversion or otherwise, of U.S. origin goods and technical data (including computer software), or the direct product thereof, supplied by the company hereunder. The obligations of the parties to comply with all applicable export control laws and regulations shall survive any termination, or discharge of any other contract obligations. The purchaser undertakes to keep itself fully informed of, and to comply with, the applicable export control laws and regulations, including those of the U.S. Government and any amendments thereof. Notwithstanding any other provisions herein, the purchaser shall be responsible for timely obtaining any required authorization, such as an export license, import license, foreign exchange permit, work permit or any other governmental authorization, even though any such authorization may be applied for by the company. The parties shall provide each other reasonable assistance in obtaining required authorizations. The company shall not be liable if any authorization is delayed, denied, revoked, restricted or not renewed and the purchaser shall not be relieved thereby of its obligations to pay the company for its products or services or any other charges which are the obligation of the purchaser hereunder. The purchaser certifies that the products, materials, services, technical data, software or other information or assistance furnished by the company will not be (a) used by any individual or entity listed as a prohibited party on any list of the U.S. Government or foreign country of prohibited or denied parties, (b) sent to any party in a country listed as a prohibited country by the U.S. Government or any foreign country, or (c) used in the design, development, production, stockpiling or use of chemical, biological, or nuclear weapons either by the purchaser or by any entity acting on the purchaser's behalf.

§ 22. Publicity

The purchaser shall not make or authorize any news release, advertisement or other disclosure which directly or indirectly identifies the company as the source of products without the prior written consent of the company in each instance.

§ 23. Definitions

As used herein, the "company" is comprised of the following affiliated entities and divisions: Balboa Water Group, a Delaware corporation; Balboa Instruments, Inc., a California corporation; HydroAir; HydroAir International and GG Industries.

Terms & Conditions

International Warranty Terms



Balboa Water Group, a Delaware corporation, and its affiliated entities (collectively "BWG," as defined below), warrants to trade purchasers of its products that the products will be free from defects in workmanship and material under normal use and conditions for a specified length of time as outlined below. BWG reserves the sole authority to make any type of warranty or representation concerning our products. BWG will not be responsible for any warranty or representation made by any outside source, including dealers, distributors, retailers, contractors or OEMs.

1. LIMITED PRODUCT WARRANTY

- a. Subject to the limitations set forth below, BWG warrants that its products will be free of defects in material and workmanship under normal use.
- b. All products or components thereof purchased by BWG from a third party for resale to purchaser shall carry only the warranty extended by the original manufacturer.

2. USE OF INSTRUCTIONS

- a. Purchaser should carefully read the instructions supplied prior to installing or using the product. If purchaser does not have the instructions, please request them from customer service, at the numbers provided.
- b. Products are to be operated only in accordance with the instructions provided.
- c. The warranty is void if the product is used in a manner not in accordance with the instructions.

3. WARRANTY COVERAGE

- a. If a product proves to be defective in material or workmanship during the applicable warranty period then BWG will, at its sole option, either repair or replace the product with like product. Purchaser shall pay all disassembly, removal, refitting and installation costs.
- b. Replacement product may include remanufactured or refurbished parts or components.
- c. Replacement product may include an appropriate substitute product.
- d. All warranty claims must be applied for within sixty-days (60) from when the defect becomes known.

4. WARRANTY PERIOD

- a. Refer to Appendix A labeled "Product Warranty" to find the warranty time period applicable to each product category or family.

5. WARRANTY PROCESS

- a. Any warranty claim must be processed with BWG only by the trade purchaser (manufacturer or distributor) who originally purchased the products from BWG. See "How to Get Service" below for further details.

6. WARRANTY EXCLUSIONS

- a. This warranty does not extend to and is void for any products that have been subjected to:
 - i. Improper installation or storage;
 - ii. Improper maintenance;
 - iii. Repairs or alterations not authorized or performed by BWG;
 - iv. Accident, damage, abuse, misuse or problems with electrical power;
 - v. Abnormal or unusual operating conditions or applications;
 - vi. Use not in accordance with product instructions for intended purposes, or use beyond rated capacity, or use in non-residential applications or multi-tenant residential common area applications of more than eight units;
 - vii. A purpose or application in any way different from that for which products were designed;
 - viii. Color variations within a product line or material are common within the industry, and are not the responsibility of BWG. BWG does not warrant any product returned due to mismatching of a color to a particular line or material for which the color was selected.

7. SPARE PARTS AND TECHNICAL ADVICE

- a. Spare parts are usually stocked by BWG for a reasonable amount of time following the last production run of the product in question.
- b. BWG does not warrant that spare parts will be made available for the duration of the warranty coverage or any other specific period of time, and reserves the right to cease supplying spare parts or providing facilities for the repair of spare parts in its discretion.
- c. Any technical advice or assistance furnished by BWG with respect to its products covered by this warranty shall be furnished without charge and will be given and accepted at purchaser's sole risk.

8. HOW TO GET SERVICE

Products cannot be returned to BWG without prior approval and a return authorization number that must be applied on all shipping documents and boxes. Shipments must be via pre-paid freight to the location specified by BWG.

- a. To start the warranty process, please contact a customer service representative at the numbers provided.
- b. You will need to provide the following:
 - i. The product
 - ii. Confirmation, in writing, specifying the nature of the claim
 - iii. Proof of the date of original purchase
 - iv. Full contact details, including name and address
 - v. The serial number, if applicable
- c. Freight is at sender's expense unless otherwise authorized by BWG.
- d. A \$50 USD/ 40EUR hourly fee plus reimbursement of all shipping expenses, if applicable, will be charged to purchaser for any merchandise returned for inspection that does not reveal defects of material or workmanship.

9. LIMITATION OF WARRANTIES

BWG'S SOLE RESPONSIBILITY FOR DEFECTS IN MATERIALS AND WORKMANSHIP IS STRICTLY LIMITED TO REPAIR OR REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT. BWG EXPRESSLY DISCLAIMS AND EXCLUDES ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCTS, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT WARRANTIES, AND SPECIFICALLY DISCLAIMS ALL LIABILITIES TO THIRD PARTIES. In no event shall BWG

be liable to purchaser for any amounts in excess of the purchase price paid for the individual product which is the subject of the cause of action.

10. EXCLUSION OF DAMAGES

This is BWG's sole and exclusive warranty and supersedes and replaces all other warranties, written or oral, expressed or implied. BWG will not be liable for any loss, liability, damage, expense, cost or obligation, whether direct or indirect, including but not limited to water damages, removal and replacement labor, damages due to delay in performance, property loss, injury, death or any other consequential, incidental, special or punitive damages of any type, resulting from the purchase or use of its products, and purchaser assumes all such risks and shall indemnify, defend and hold BWG harmless from all such risks and shall carry adequate insurance against all such risks. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use of revenue, cost of capital or loss or damage to property or equipment.

Further, BWG does not assume liability for defective products or software or damage caused by defective products or software not manufactured or sold by it even though such products or software may be used in conjunction with BWG's products. This warranty is NOT a consumer warranty, is not transferable or assignable (by operation of law or otherwise), and does not extend to anyone other than those who purchase products directly from BWG.

11. GOVERNING LAWS AND VENUES

For products shipped from the United States, this warranty will be interpreted and enforced in accordance with the laws of the State of California regardless of any choice of law principles and excluding the application of the United Nations Convention on Contracts for the International Sale of Goods and INCOTERMS 2000. The parties will submit any dispute or claim arising under or relating to this warranty to the exclusive jurisdiction of the U.S. federal or California state courts within the County of Orange, State of California, and the parties hereby submit to, and waive any objection to, personal jurisdiction and venue in such courts for such purpose. For products shipped from Denmark, this warranty shall be governed by, interpreted under, and construed and enforced in accordance with the normal rules of Danish law, excluding, without limitation, the application of the United Nations Convention on Contracts for the International Sale of Goods, and any and all disputes shall be heard solely by Esbjerg Court, Denmark. For products shipped from Australia, this shall be governed by, interpreted under, and construed and enforced in accordance with the internal laws of the Province of Victoria of Australia excluding, without limitation, the application of the United Nations Convention on Contracts for the International Sale of Goods, and any and all disputes shall be heard solely by the provincial court located in Melbourne, Australia. If any provision of this warranty is found by a court of competent jurisdiction to be unenforceable, that provision will be severed and the remainder of this warranty will continue in full force and effect.

12. DEFINITIONS

As used herein BWG is comprised of the following affiliated entities and divisions: Balboa Water Group, a Delaware corporation; Balboa Instruments, Inc., a California corporation; HydroAir; HydroAir International and GG Industries.

Your Single Source Solution

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APPENDIX A PRODUCT WARRANTY		
Specific Product Warranty		
Warranty applies to residential applications only		
Covered Product	Limited Warranty Period	Exceptions
Spa Electronic Systems: EL, GL, VS, GS	1 Year From Date of Manufacture	Heaters are warranted as a complete heater unit. Removal of the heater element from the heater tube, probes, sensors or altering any component at any time before returning to BWG voids the warranty.
All other systems and components when sold separately and all other items not listed. This includes bath controls, topsides, heaters, and related components.	1 Year From Date of Manufacture	
Spa Control Panels: ML, VL, Auxiliary	1 Years From Date of Manufacture	
Ozone Generators:	1 Year From Date of Manufacture	
Accessories: All other products including spa accessories, wireless panels, pressure switches, misc. components, spa monitor, Mighty-Vac, lighting, stereo and accessories, etc.	1 Year From Date of Manufacture	Batteries
Plastic Fittings and components:	1 Year from Date of Purchase	
Blowers & Vacs:	1 Year From Date of Manufacture	If pipe is glued to the base of the Blower, warranty will be voided.
Pumps:	1 Year From Date of Manufacture Label Program	56 Frame Spa pumps 3 years from date of motor manufacture
Circuit Boards: Repaired out of warranty circuit board	90 days	From date of repair
Circuit Boards: Sold used and reconditioned circuit boards	90 days	From date of shipment

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