# **3DT**

### RISING DRAGON INTERNATIONAL INC.

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# BUILD BETTER SPAS

PRODUCT CATALOGUE







# BUILD BETTER SPAS.™

Quality First, Service Oriented

The Rising Dragon Group of Companies began in 2000 with the establishment of the cover and lighting divisions. Later we added the Plastics and Billiards divisions. All divisions operate ISO9001 manufacturing facilities and were developed for the export market....

Rising Dragon is truly a unique company, blending the best of both Western and Chinese business principles and best practices. This has in turn led to a company that is open-minded, creative, innovative, competitive, and solution oriented.

Rising Dragon's commitment to superior quality raw materials and excellence in design and manufacturing techniques is positioning us as one of the fastest growing and most reliable suppliers in the global spa industry.



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**BUILD BETTER SPAS** 



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# CLIPLESS & BEARINGLESS JETS

One of the first plastic projects Rising Dragon executed was the creation of the now patented "Axis" bearingless jet.

These self-cleaning jets use a floating stainless steel shaft seated into a forward steel bushing, instead of bearings, which can become easily clogged with suspended debris in the water. The pin spins more freely as well delivering a better massage with less horsepower.

We did not stop with this patented idea. Product durability and performance continue to dominate the development focus for all our jet products. We are continually seeking better and more forgiving raw materials and designs to offset end client water chemistry mistakes. Many new jets have been added to the line up this year, and still more are under development.

Quantum jet technology from Rising Dragon is the only jet offered in the market that effectively deals with the post sale consumer problems long associated with water chemistry. Patent pending technology eliminates jets popping out and keep both dealers and end consumers from the headaches and costs of after-market service and replacement. All Quantum jets are made with specially formulated plastic that is "tried and true" in all water sanitizers and, of course, our patent pending threaded design that incorporates on and off functions without the use of clips, We offer full private labeling design faces as well as exclusive co-development of your ideas, so ask us how we can make your insight a reality.



# **GROUND SERIES**











Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.

### 1"JET



13112-008-00 Ground Series Directional Jet Internal



13113-006-00 **Ground Series** 

Dual Spinning Jet Internal



### 2"JET



13212-034-00 **Ground Series** Directional Jet Internal



13213-027-00 Ground Series Dual Spinning Jet Internal



13312-031-00 **Ground Series** Directional Jet Internal



13313-041-00 Ground Series Dual Spinning Jet Internal

### 4"JET



13412-029-00 **Ground Series** Directional Jet Internal



13413-040-00 **Ground Series** Dual Spinning Jet Internal

### 5"JET

3"JET



13512-021-00 Ground Series Directional Jet Internal



13513-063-00 **Ground Series** Dual Spinning Jet Internal



# **BLINKING JETS**





Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.

### 3"JET



13302-005-00 Blinking Diamond Cut Face Directional Jet Internal 140



13303-004-00 Blinking Diamond Cut Face Spinning Jet Internal



### 5"JET



13502-001-00 Blinking Diamond Cut Face Directional Jet internal 48



13503-026-00 Blinking Diamond Cut Face Spinning Jet Internal

# **ALPHA JETS**



















Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.

### 2"JET



13213-007-00

Alpha Face Spinning Jet Internal Two Tone (Screw-in)



### 13212-011-00

Alpha Face Directional Jet Internal Two Tone (Screw-in)



### 2.5"JET



13213-004-00

Alpha Face Spinning Jet Internal Two Tone (Screw-in)



13212-007-00

Alpha Face Directional Jet Internal Two Tone (Screw-in) 250





13312-013-00

Alpha Face Directional Jet Internal Two Tone (Screw-in)



13313-015-00

Alpha Face Twin Pulse Internal Two Tone (Screw-in) 140

### LARGE 4 "JET



13412-008-04

Alpha Face Directional Jet Internal Two Tone (Screw-in)



13413-017-00

Alpha Face Twin Pulse Internal Two Tone (Screw-in)

### 5"JET



### 13512-008-00

Alpha Face Directional Jet Internal Two Tone (Screw-in)



13513-012-00

Alpha Face Twin Pulse Internal Two Tone (Screw-in)

# **PEPPER LEAF JETS**













Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.

### 2"JET



### 13213-005-00

Pepper Leaf Face Spinning Jet Internal Two Tone (Screw-in) 250



### 13212-009-00

Pepper Leaf Face Directional Jet Internal Two Tone (Screw-in) 250



### 2.5"JET



13213-002-00

Pepper Leaf Face Spinning Jet Internal Two Tone (Screw-in)



13212-005-00

Pepper Leaf Face Directional Jet Internal Two Tone (Screw-in)





### 13313-010-00

**3"JET** 

Pepper Leaf Face Twin Pulse Internal Two Tone (Screw-in)



### 13312-012-00

Pepper Leaf Face Directional Jet Internal Two Tone (Screw-in)

### LARGE 4 "JET



13413-013-00

Pepper Leaf Face Twin Pulse Internal Two Tone (Screw-in)



### 13412-009-02

Pepper Leaf Face Directional Jet Internal Two Tone (Screw-in)





### 13513-046-00

Pepper Leaf Face Twin Pulse Internal Two Tone (Screw-in)



13512-007-00

Pepper Leaf Face Directional Jet Internal Two Tone (Screw-in)

# **SUN BLASTER JETS**









Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.

### 2"JET



13213-001-00

Sun Blaster Spinning Jet Internal Two Tone (Screw-in)



### 13212-003-00

Sun Blaster Directional Jet Internal Two Tone (Screw-in)



### 3"JET



13313-004-00

Sun Blaster Twin Pulse Jet Internal Two Tone (Screw-in)



13312-007-00

Sun Blaster Directional Jet Internal Two Tone (Screw-in) 140

### 4"JET



13413-004-00

Sun Blaster Twin Pulse Jet Internal Two Tone (Screw-in)



13412-014-00

Sun Blaster Directional Jet Internal Two Tone (Screw-in)

### 5"JET



13513-016-00

Sun Blaster Twin Pulse Jet Internal Two Tone (Screw-in)



Two Tone (Screw-in) 42



### 13512-003-00

Sun Blaster Directional Jet Internal

# WHIRLPOOL JETS

Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.



13620-005-00

Whirlpool Jet 5 "Alpha Face Internal (Screw-in)



13619-002-00

Whirlpool Jet 5 "Alpha Face Internal (Screw-in)





13619-011-00

Whirlpool Alpha Face Foot Massage Jet Interal with On/Off (Screw-in) Two Tone



13619-008-00

Whirlpool Pepper Leaf Face Jet Internal With On/Off (Screw-in)



13619-003-00

Whirlpool Jet - 5"Scallop Face Internal w Smooth SS (Screw-in) Standard Grey



13619-003-06

Whirlpool Jet - 5"Scallop Face Internal w Smooth SS(Screw-in)



13619-006-01

Whirlpool Scallop Face Jet Internal w Smooth SS Standard Grey



### 13619-006-00

Whirlpool Scallop Face Jet Internal w Smooth SS





# **DIRECT JETS**

1"JET

Custom Color and Combinations Available. Polished, Brushed, Titanium Coated SS surface finish options available.



### 1"JET



13111-004-00

Small Face Direct Jet Insert 1200



13111-005-00

Large Face Direct Jet Insert 1200



13114-001-00

Multi-flow Air Injector Insert



13112-002-00

Large Face Directional Jet Internal 1000

# **JET BODIES**

(2"JET BODY) (2.5"JET BODY)

(3"JET BODY

(4"JET BODY)

5"JET BODY

### 1"JET BODY



13801-001-00

Low Profile Direct Jet Body 3/4"Spg x 3/8"SB



13801-002-00

Low Profile Direct Jet Body 1/2"Soc x 3/8"SB



13801-004-00

Low Profile Direct Jet Body 3/4"RB x 3/8"SB



13801-008-00

Direct Jet Body 1/2"Soc x 3/8"SB 450



13801-015-00

Direct Jet Body 3/4"SB x 3/8"SB 1200



13806-002-00

Whirlpool Jet Straight Body 1 1/2"Soc x 3/8" Spg air (Screw-in) w/o O-ring Groove 48



13806-003-05

Whirlpool Jet Body 1 1/2"Spg x 1/2"Soc air (Screw-in)



13806-004-01

Whirlpool Jet Body 1 1/2"Soc x 1/2"Soc air (Screw-in)



23801-037-00

Whirlpool Jet Body1" Soc x 1/2"Soc air (Screw-in)



### 2"JET



**13802-003-00** 1/2" Soc x 3/8" SB 2" Jet Body (Screw-in) 350



13802-006-00 3/4" SB x 3/8" SB 2" Jet Body (Screw-in) 350



13802-007-00 3/4" RB x 3/8" SB 2" Jet Body (Screw-in) 350



13802-039-00 2" Jet Body Assembly 2021 Series, Low Profile with Teeth





**13802-001-00** 3/4" SB x 3/8" SB 2.5" Jet Body (Screw-in) 200



13802-002-00 1/2" Soc x 3/8" SB 2.5" Jet Body (Screw-in) 200



13802-005-00 3/4" RB x 3/8" SB 2.5" Jet Body (Screw-in) 200





13803-002-00 3/4" SB x 3/8" SB 3" Jet Body (Screw-in) 140



13803-005-00 1/2" Soc x 3/8" SB 3" Jet Body (Screw-in) 140



**13803-009-00** 3/4" RB x 3/8"SB 3" Jet Body (Screw-in) 140



13803-035-00 3" Jet Body Assembly 2021 Series, Low Profile with Teeth

4"JET



13804-004-00 1/2" Soc x 3/8" SB 4" Jet Body (Screw-in) 90



**13804-005-00** 3/4" SB x 3/8" SB 4" Jet Body (Screw-in) 90



**13804-006-00** 3/4" RB x 3/8" SB 4" Jet Body (Screw-in) 90



13804-025-00 4" Jet Body Assembly 2021 Series, Low Profile with Teeth



### 5"JET



**13805-005-00** 1/2" Soc x 3/8" SB 5"Jet Body (Screw-in) 36



13805-006-00 3/4" Soc x 3/8" SB 5" Jet Body(Air/Water same side) (Screw-in)



**13805-007-00** 3/4" SB x 3/8" SB 5" Jet Body (Screw-in) 36



13805-011-00 3/4" SB x 3/8" SB 5" Jet Body (Screw-in) 36



**13805-012-00** 3/4" RB x 3/8" SB 5" Jet Jet Body (Screw-in) 36



13805-029-00 5" Jet Body Assembly 2021 Series, Low Profile with Teeth



13806-013-00 5" Whirlpool Jet Body Assembly 2021 Series, Low Profile with Teeth





**14305-009-00** 1/2 " Spg x 3/8" SB Adapter





**13902-005-00**Nut - (5" Jet/5" Light Housing)



**13902–018–00**Nut – 3" Jet/Air Control Nut

### **ORIFICES**



**13620-001-00** 3/4" Orifice insert



**13620-002-00** 5/8" Orifice insert



**13620-003-00** 1/2" Orifice insert

# 301

# **SPA FITTINGS**

- **10** 24201-062-00
- **24201-063-00**Middle base
- **® 24201-064-00**Base
- **Q4201-061-00**Base body

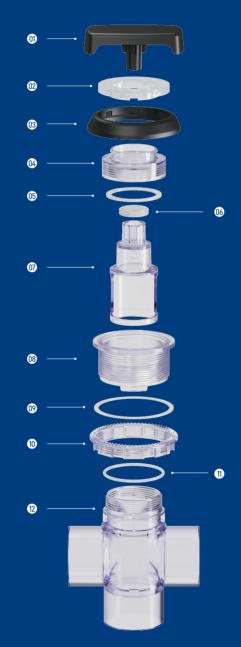
- **5 34102-091-00** Sealing gasket
- **34101-167-00**O-ring
- **© 24201-043-00** Insert
- **3 24201-041-00**Wall fitting

- **-00**
- **10** 23901–007–00

**9** 34102-092-00

O-ring

- **34101-115-00** O-ring
- **24201-042-00**Body



# **VALVES**

### **GROUND SERIES**



14201-029-00 2023 Ground Series Water Diverter Assembly 4287C



14205-049-00 2023 Ground Series On/Off Valve Assembly 4287C



14206-037-00 2023 Ground Series Air Control Check Valve Assembly 4287C



### **ALPHA COVER**



14205-017-00

1"SB / 3/4"Soc On/Off Valve Assembly Alpha Cover 50

### **DELTA COVER**



14205-018-00

1"SB / 3/4"Soc On/Off Valve Assembly Delta Cover



14206-016-00

1"Air Control Assembly Two Tone Alpha Cover 168



14206-011-00

1"Air Control Assembly Delta Face 168

### **NOTCHED COVER**



14205-014-00

1"SB / 3/4"Soc On/Off Valve Assembly Notched Cover

### **SCALLOPED COVER**



14206-008-00

1" Air Control Assembly Scalloped Face 168

### **INDEX COVER**



14201-008-00

Standard Diverter Assembly Scalloped Index Handle 20



14205-016-00

1"SB / 3/4"Soc On/Off Valve Assembly Scalloped Index Cover



### 14206-014-00

1"Air Control Assembly Two Tone Index Cover 168

### **S COVER**



### 14201-009-00

Standard Diverter Assembly Scalloped "S" Handle 20



### 14205-015-00

1"SB / 3/4"Soc On/Off Valve Assembly Scalloped "S" Cover 50



### 14206-016-00

1" Air Control Assembly Two Tone "S" Cover



# **WATER FEATURE & WATERFALL**

### SS 53 WATER FEATURE



14201-029-00 12mm Single Stream Water Feature Assembly

### WF 124 WATERFALL



14001-015-00 Ground Series On/Off Waterfall 4287C

# **UNIONS**

14306-001-00

2"Spg 2 1/2"Pump Union Body



### 14306-005-00

2"Soc 90° Sweep Pump Union Assembly



### 14306-003-00

2"Spg 90° sweep Pump Union Assembly 44



### 14306-007-00

2"Spg 2"Pump Union Body





# **OZONE PRODUCTS**

# CLEARCORE™ OZONE REACTION CHAMBER

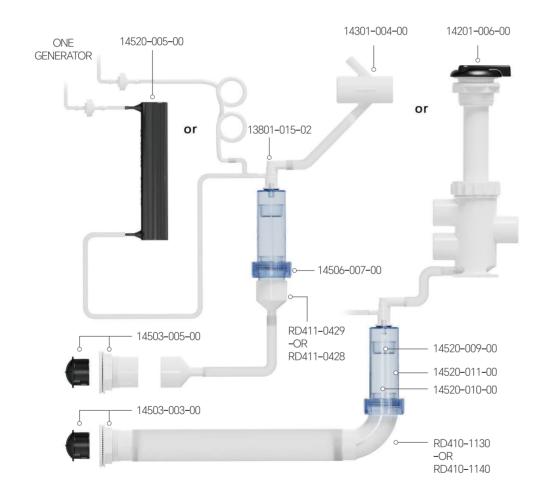
Almost all spas made these days come with some sort of ozonator or ozone purification system. The fact is when used correctly ozone can really cut the maintenance on a spa and deliver crystal clear water effortlessly. Many people like the idea of a natural system that does not require active involvement of the end customer. However, the challenge for manufacturers is to enable the engingeering department to deliver ozone systems that live up to the promises that the marketing department makes.

The first problem lies in the fact that ozone is a gas and we are trying to get it to purify water, a liguid. The best systems on themarket use elaborate mixing tanks, specialized injectors, diffusers and often several proprietary set ups all aimed at facilitating an ozone reaction with contaminants in the water.

The CLEARCORE™ Ozone Reaction Chamber merges these separate components into one effective core system, Imagine, one piece to install, which gives you injection, diffusion, mixing, and reaction time. The compact, all-in-one design allows for easy installation either at the factory or in the field and is less than the cost of what some companies would charge for just an injector.

The system is even set up with two small light housings built in to allow the CLEARCORE™ chamber to be backlit with your spas lighting package to make the feature even more noticeable in your customer's eyes.

Finally, an inexpensive system that dose it al, is a snap to install and lives up to it's billing. No ozone system should be installed without this part.





**14201-006-00**2"Water Diverter Asser

2"Water Diverter Assembly Delta Handle - Standard Grey



14201-006-01

2"Water Diverter Assembly BLK Delta Handle



14503-003-00

Diffusion Return Wall Fitting Assembly 2"Soc 72



14503-005-00

Diffusion Return Wall Fitting Assembly 2"Spg 72



14520-005-00

2 Port Balance Barometer



14520-009-00

Ozone Diffusion Plate 200



14520-010-00

Diffusion Plate Spacer



14520-011-00

Clear Core Chamber 55



# **SPECIALTY PARTS**



14406-003-00 Prism Accent Lens Assembly 120



14520-007-00 Ozone Diffusion Grate 500

# **AIR FITTINGS**



**14301-030-00** 1"Spg x 3/4"SB Tee 500



**14302-003-00** 3/4"SB x (12)3/8"SB Air Manifold with 3 Plugs



**14302-001-00** 3/4"SB x 3/4"SB x (6)3/8"SB Ports 2-4-6 Manifold 200



**14303-003-00** 1"Spg x 3/4"SB 90° Elbow 500



**14302-002-00** 1"Spg x (4)3/8" Barbs Air Manifold with 2 Plugs 500



# **MANIFOLDS**

# 1/2"SOCKET

### 2 PORT MANIFOLDS



**14301-019-00** 2"Soc x 2"Soc x (2)1/2"Soc - Manifold



**14301-020-00** 2"Soc x 2"Spg x (2)1/2" Soc - Manifold

### **4 PORT MANIFOLDS**



14301-012-00 2"Soc x 2"Soc x (4)1/2"Soc - Manifold



**14301–013–00** 2"Soc x 2"Spg x (4)1/2"Soc – Manifold 48

### **6 PORT MANIFOLDS**



14301-017-00 2"Soc 2 1/2" Soc x (6)1/2"Soc - Manifold



14301-018-00 2"Soc 2 1/2" Spg x (6)1/2"Soc - Manifold

### 12 PORT MANIFOLDS



14301-022-00 2"Soc x 2"Soc x (12)1/2"Soc - Manifold



14301-023-00 2"Soc x 2" Spg x (12)1/2"Soc - Manifold



**14301–024–00** 2"Spg x 2"Spg x (12)1/2"Soc – Manifold 26



# 3-4"SB

### 2 PORT MANIFOLDS



14301-007-00

2"Soc x 2" Spg x (2)3/4" SB - Manifold 60

### **4 PORT MANIFOLDS**



14301-008-00

2"Spg x 2"Spg x (4)3/4"SB - Manifold



14301-009-00

2"Soc x 2" Spg x (4)3/4"SB - Manifold



14301-014-00

2"Soc x Dead End x (4)3/4"SB - Manifold



14301-028-00

2"Soc x 2"Soc x (4)3/4"SB - Manifold

### **6 PORT MANIFOLDS**



14301-010-00

14301-021-00

2"Spg x 2"Spg x (6)3/4"SB - Manifold

**12 PORT MANIFOLDS** 

2"Spg x 2"Spg x (12)3/4"SB - Manifold



### 14301-011-00

2"Soc x 2"Spg x (6)3/4"SB - Manifold



### 14301-015-00

2"Soc x Dead End x (6)3/4"SB - Manifold

### SPECIALITY PART



14301-026-00

2"Soc x 2"Spg x(12)3/4"SB - Manifold



### 14301-004-00

2"Spg x 2" Spg x (2)3/4" SB Flow Divert - Manifold 70



# **GENERAL FITTINGS**

### 2" SOC FITTINGS



14305-008-00

2"Soc x1/2"Soc Adapter 143



14305-012-00

2"Soc x 3/4"Spg Adapter



RD441-0428

2"Soc x 1/2"Soc Adapter - Clear 143



### RD441-0429

2"Soc x 3/4"Spg Adapter - Clear

### 2" SPA FITTINGS



14301-003-00

2"Spg x 2"Spg - Moulded Nipple



14301-005-00

2"Spg x 2"Spg x 2"Spg - Y Manifold



### 14301-006-00

2"Spg x 2"Spg x 2"Spg - Tee



### 14303-001-00

2"Spg x 2"Spg - 45° Elbow

### **ADAPTERS**



14301-002-00

3/4"SB x 3/4"SB x 3/8"Tee 600



### 14305-004-00

3/8"SB x 3/8" Thread Pump Bleeder Adapter

### COUPLES



14305-003-00

3/4"SB x 3/4"SB Coupler 700





14305-005-00

3/8"SB x 3/8"SB Coupler 6000



# **DRAIN FITTINGS**



14102-001-02 Low Profile Drain Assembly (3/4"SB)

Star Face (Black)



14112-001-01 Low Profile Drain Assembly (3/4"SB) Star Face SS (Standard Grey)



14102-002-01 Low Profile Drain Assembly (3/4"Soc / 1"Spg) Star Face (Black)



14112-002-01 Low Profile Drain Assembly (3/4"Soc / 1"Spg) Star Face SS (Standard Grey)

# **SUCTIONS**

### 198 GPM SUCTIONS

# ANSI/APSP-16 2011 14101-006-00 198 GPM Beehive Suction Assembly with 2:5'Soc Fitting 24 14101-012-00 198 GPM Beehive Suction Assembly with 2'Spg Fitting 32



# FILTERS FILTRATIONS

### **Active Skim™ Filter**

The new Active Skim™ Filter Canister from Rising Dragon Plastics combines innovative engineering with minimal design, giving manufacturers a superior filtration system that can be fitted into most existing spa models.

A key ingredient to the performance of this filter is the perpetual silent skimming action provided at both high and low pumps speeds. There are no gates or telescopic tubes to stick, which can lead to pump cavitation. The tight grate pattern prevents debris and other floating objects from blocking the filter area.

The best part is a particle and hair basket is built right into the floating skimmer, prescreening larger debris prior to the filter itself. When the skimmer is removed from the water, the debris is removed with it, unlike skimmer baskets where the debris floats out as soon as the pump is turned off.

The product can be accented with a chrome or even a backlit trim ring and can be private labeled with a customized logo on top of the skimmer.









14501-006-00

1.5" SAE Thread Filter Adapter - 2"Soc 62



14506-004-00

800 sqf Generic Micro Filter Cartridge



14502-006-00

1.5" SAE Thread Filter Adapter - 2"Spg 62



### 14506-006-00

800 sqf Active Skim Micro Filter Cartridge



14506-002-00

241mm Micro Filter Cartridge



# **AROMATHERAPY**

### The LastingScents™ Aromatherapy System

Rising Dragon's LastingScents™ Aromatherapy System gives spa manufacturers an effective feature with little extra cost and functionality that will drive repeat sales.

While the LastingScents™ canister itself is comparable with most other existing scent diapensing systems but there is a twist. LastingScents™ utilizes an adjustable cartridge that allows the customer to turn the scent on and off and even change the intensity of the scent. This means the system works well and the scent lasts between usages.

LastingScents™ can work with either blower or venturi based air injection systems and installs or retrofits in just a few minutes.

An assortment of LastingScents™ aroma oil cartridges are available and come prepackaged in POP display material, making a new exclusive profit center for you and your dealers.

UPGRADE KIT FROM STANDARD TO Lasting Scents™

InstallI vertical or horizontal



14207-003-00

Lasting Scents Aromatherapy Canister L-Body / T - Body



### NINE FRAGRANCES AVAILABLE



14207-005-00 Lasting Scents Essential Oil Pack

CITRUS SORBET - green



14207-010-00 Lasting Scents Essential Oil Pack SANDALWOOD SPICE - light brown / tan PINA COLADA - white



14207-006-00 Lasting Scents Essential Oil Pack WILDFLOWERS - violet / purple



14207-011-00 Lasting Scents Essential Oil Pack





14207-007-00

SUMMER ORCHARD - red

14207-012-00 Lasting Scents Essential Oil Pack LAVENDER - violet



14207-008-00 Lasting Scents Essential Oil Pack Lasting Scents Essential Oil Pack PEACH PASSION - orange / peach



14207-009-00

Lasting Scents Essential Oil Pack

EVENING MUSK - dark brown

14207-013-00 Lasting Scents Essential Oil Pack EUCALYPTUS - violet

### STANDARD CONVENTIONAL AROMATHERAPY WITH BEADS







# LIGHT LENSES



14402-002-00 2" Light Housing Assembly 230 Sets



**14412-001-00** 2" Light Housing with S/S Ring (Assembly)



14403-004-00 3.5" Light Housing Assembly 120 Sets



14413-001-00 3.5" Light Housing with S/S Ring (Assembly)



14405-001-00 5" Light Housing Assembly 36 Sets



14415-001-00 5" Light Housing with S/S Ring (Assembly)

# MINI POL HOUSINGS



14401-001-00 1" Multi - Facet POL Light Housing - Clear



14401-002-00 Pinwheel Mini POL Light Housing - Clear 4000



14401-003-00 Standard Mini POL Light Housing - Clear



14401-006-00
Pinwheel Mini POL Light Housing - Opaque



14401-007-00 Blossom Mini POL Light Housing - Clear



14401-008-00 Blossom Mini POL Light Housing - Opaque



14401-010-00 Anchor POL Light Housing - Opaque



14401-012-00 1" Multi - Facet POL Light Housing - Opaque





14401-013-00 Sun Mini POL Light Housing - Clear



14401-014-00 Sun Mini POL Light Housing - Opaque 4000



**14401-015-00**Anchor Mini POL Light Housing - Clear 4000



**14401-025-00**POL Nut Housing



14401-001-00 1" Multi - Facet POL Light Housing - Clear



14401-002-00 Pinwheel Mini POL Light Housing - Clear 4000



14401-003-00 Standard Mini POL Light Housing - Clear



14401-006-00
Pinwheel Mini POL Light Housing - Opaque

# **INSTALLATION NOTES**

### **HOLE SAW SIZES**

Puoducts	Hole saw size(mm)	Puoducts	Hole saw size(mm)	Puoducts	Hole saw size(mm)
1"Jets	ø22.40	Thermo-well	ø28.10	1.5"SAE Thread Filter Adapter	ø73.30
2"Jets	ø38.50	1"SB / 3/4"Soc On/Off Valve	ø55.00	125GPM Suction	ø73.30
2.5"Jets	ø44.50	1"Air Control	ø43.90	200GPM Suction	ø82.80
3"Jets	ø55.30	Amomatherapy Canister	ø44.90	Active Skim Fi <b>l</b> ter	ø172.00
4"Jets	ø65.70	2"Water Diverter	ø81.80	Mini PoL Housing	ø12.20
5"Jets	ø95.50	Drain Assembly	ø30.70	2"Light Housing	ø44.50
Whir <b>l</b> pool Jets	ø94.00	3/4"Soc / 1"Spg Spa Drain/Fi <b>ll</b>	ø44.00(keyed to stay	3.5"Light Housing	ø66.00
Therapy Air Injectors	ø22.40	Valve without housing	in p <b>l</b> ace:ø8.00*4.30)	5"Light Housing	ø95.50
3/4"SB Waterfall	ø28.50	Spa Drain/Fi <b>ll</b> Valve Housing	ø134.00		
Water Slot	ø205.30*40.20	Diffusion Return Wall Fitting	ø73.30		

### RECOMMENDED FLOW AND PRESSURE REQUIREMENT

### DIRECTIONAL JET

Jet Size	10 PSI	15 PSI		Moderate PSI
1"	4	5	GPM	10-12PSI
2"	4	5	GPM	10-12PSI
2.5"	6	7	GPM	10-12PSI
3"	8	9	GPM	9-11PSI
4"	8	9	GPM	9-11PSI
5"	10	12	GPM	9-11PSI

### **SPINNING JET**

Jet Size		10 PSI	15 PSI		Moderate PSI
1"		4	5	GPM	10-12PSI
2"		4	5	GPM	10-12PSI
2.5"		9	10	GPM	9-11PSI
3"		9	10	GPM	9-11PSI
4"		9	10	GPM	9-11PSI
5"		14	17	GPM	9-11PSI
	1/2"Orifce	23	28	GPM	7 <b>-</b> 9PSI
Whirlpool	5/8"Orifce	40	43	GPM	7-9PSI
	3/4"Orifice	63	66	GPM	7 <b>-</b> 9PSI



# **POOL & SPA LIGHTS**

Rising Dragon Technology (RDT) is an advanced product development firm dedicated to creating new LED technologies and applications.

At RDT, we pride ourselves on developing products that are easier to use and install than competitive products and that performs beyond expectations.

While most products in this industry still utilize traditional LEDs: arrays of tiny red, green and blue LEDs haphazardly arranged on a board without regard for proper color mixing and over effect, RDT uses Precision Beam Diffusion™ technology to deliver perfectly mixed TRUE color, even white!

Further, we use Wide Radius Projection™ technology to deliver more light to all areas of your pool or spa and create light that is pure, warm and mood enhancing unlike anything else on the market

Precision Beam Diffusion™ and Wide Radius Projection™ are technologies exclusive to our Evolution and Pinnacle lighting series.



### PINNACLE PLUS SERIES (P+)

Introducing the Pinnacle Plus (P+) two-wire spa lighting series, the latest innovation from Rising Dragon (RDT). This groundbreaking lighting system stands out as the pinnacle of innovation in the spa industry. Unlike the traditional four-wire systems, P+ utilizes a streamlined two-wire setup, maintaining the bus wire's functionality while enhancing efficiency.

With P+, you can effortlessly connect Point of Lights (POLs) to the bus wire at any desired location, providing unparalleled flexibility. This new system not only boosts installation efficiency but also enhances reliability. It ensures a cleaner, more organized appearance at the back of the spa, making it a standout choice for those seeking both performance and aesthetics.

### TOOLS FREE!

### **Press-N-Puncture Connection**

The P+ series employs a cutting-edge connector, meticulously engineered by RDT, specifically for its unique connection needs. This innovative design stands out as a pioneer in the spa industry, offering a stark contrast to conventional connectors. The connection process is remarkably user-friendly, requiring no additional tools. With a gentle press on the lid, the connector punctures the bus wire effortlessly, ensuring a secure and stable connection.

### **Orientation-free Connection**

Just as smartphones have evolved from Micro USB to the versatile USB Type-C, the P+ connector has taken a similar leap forward in design. It's fully reversible, eliminating the risk of misconnection and ensuring a hassle-free, orientation-free connection experience.







### **New Main Light**

The latest series of main light bases from RDT has revolutionized spa lighting with a design that seamlessly integrates the main light housing and light body into a single, cohesive unit. This innovative approach simplifies the installation process, significantly reducing time and effort while delivering a sleek, clean aesthetic.

Beyond the conventional radial lighting effects that have dominated spa main lights for decades, the new LUNA series introduces a paradigm shift. It offers a more uniform and smooth lighting effect that envelops the spa in a gentle, even glow. This new lighting experience is not only visually pleasing but also profoundly soothing and relaxing, setting the stage for a tranquil and rejuvenating spa experience.

### **Higher Reliability**

Our unique low pressure injection molding technology is being applied in all of our spa lighting parts. More reliable manufacturing process ensures the highest product quality.

### **High Compatibility**

Despite utilizing only two wires instead of the typical four, the P+ series is fully compatible with the majority of spa packs available on the market. Whether it's providing AC12V, DC12V, or even sophisticated PWM signals, the P+ series ensures robust support, guaranteeing optimal performance for all your lighting needs.



Sparkling

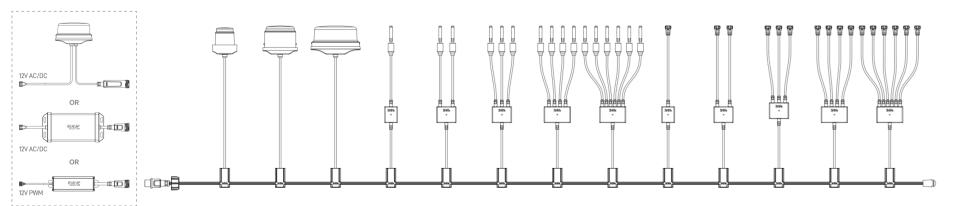




Main Light 2.0



P+ System Collection



### **MASTER LIGHTS**







### 10102-012-00

2" L3MTL Master Light, P+ System

### 10103-011-00

3.5" L4MTL Master Light, P+ System

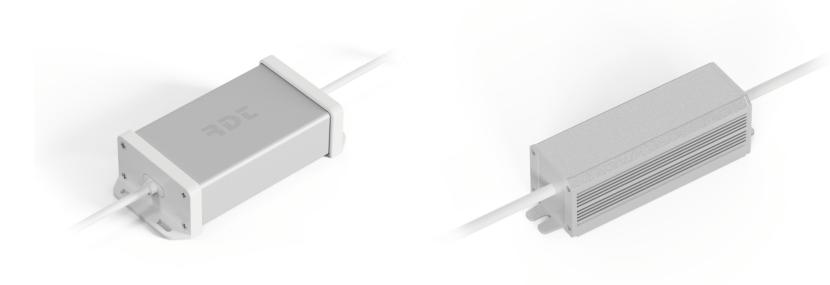
10104-022-00

5" L7MTL Master Light, P+ System

Part No.	Model	LED QTY	Color	Input Voltage	Power (Without POL)	Max Capability (POL)	Input Connector	Notes
10102-012-00	L3MTL	3	RGB	12V AC/DC	1.0W	10	MTA-156 3Pin Plug	Turn off/on to switch modes (3 Animated + 8 Solid Colors)
10103-011-00	L4MTL	4	RGB	12V AC/DC	1.0W	30		
10104-022-00	L7MTL	7	RGB	12V AC/DC	1.2W	30		(or will lated a cooling colors)

# BDT

### **CONTROLLER & CONVERTER**



10406-006-00

K75HTL Controller, P+ System

10409-030-00

PWM Converter, P+ System

Part No.	Model	Input Voltage	Max. Power	Max Capability (POL)	Input Connector	Notes
10406-006-00	K75	12V AC/DC	15W	75	MTA-156 3Pin Plug	Turn off/on to switch modes (3 Animated + 8 Solid Colors)
10409-030-00	Converter	12V PWM	10W	40	MTA-100 4Pin Plug	Connect to Spa pack (PWM)

### MAIN LIGHTS







10102-013-00

2" L3STL Main Light, P+ System

10103-012-00

3.5" L4STL Main Light, P+ System

10104-023-00

5" L7STL Main Light, P+ System

Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input Connector	Notes	
10102-013-00	L3STL	3	RGB	12V DC	0.4W			
10103-012-00	L4STL	4	RGB	12V DC	0.6W	Press-N-Puncture Connector	Connect to RDT Master Light, Controller or Converter	
10104-023-00	L7STL	7	RGB	12V DC	0.8W			



### STANDARD POLS



Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input Connector	Notes	
10110-048-00	Single Mini	1	RGB	12V DC	0.4W			
10110-035-00	Double Mini	2	RGB	12V DC	0.4W		Connect to RDT Master Light, Controller or Converter	
10110-036-00	Triple Mini	3	RGB	12V DC	0.4W	Press-N-Puncture Connector		
10110-037-00	Quadri Mini	4	RGB	12V DC	0.6W			
10110-049-00	Six Mini	6	RGB	12V DC	0.6W			

### L-SHAPED POLS



10110-050-00 Single L-shaped POL, P+ System



10110-051-00 Double L-shaped Mini POL, P+ System



10110-052-00 Triple L-shaped Mini POL, P+ System



10110-053-00 Quadri L-shaped Mini POL, P+ System



10110-054-00 Six L-shaped Mini POL, P+ System

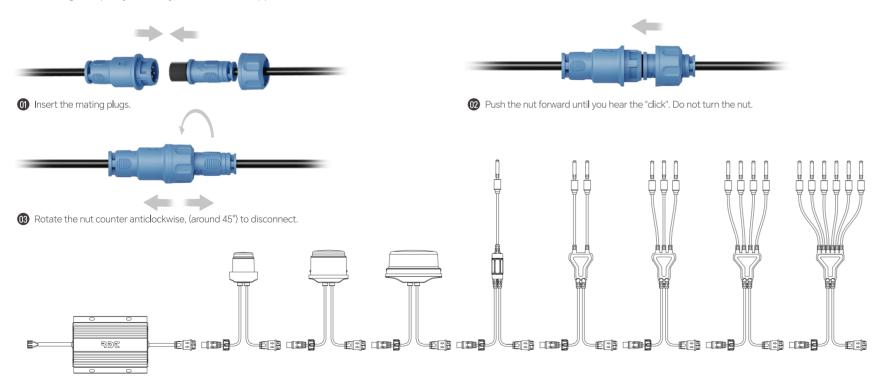
Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input Connector	Notes
10110-050-00	Single Mini (L)	1	RGB	12V DC	0.4W		
10110-051-00	Double Mini (L)	2	RGB	12V DC	0.4W		Connect to RDT Master Light, Controller or Converter
10110-052-00	Triple Mini (L)	3	RGB	12V DC	0.4W	Press-N-Puncture Connector	
10110-053-00	Quadri Mini (L)	4	RGB	12V DC	0.6W		
10110-054-00	Six Mini (L)	6	RGB	12V DC	0.6W		



# **EVOLUTION™ PLUS SERIES** (4 WIRE SYSTEM)

### **FEATURES:**

- Work with Gecko & Balboa new top-side control with lighting selections.
- Now even easier to install and service! Tool-less installation with secure connections.
- One controller that does it all. Our updated smart controller can auto detects the input voltage of your spa pack and work with either AC or DC.
- More lighting options than ever before!
- Same great quality, warranty, and customer support!



### **MASTER LIGHTS**







10102-014-00

2" L3MFL Master Light, E+ System

10103-013-00

3.5" L4MFL Master Light, E+ System

10104-024-00

5" L7MFL Master Light, E+ System

Part No.	Model	LED QTY	Color	Input Voltage	Power (Without POL)	Max Capability (POL)	Input Connector	Notes
10102-014-00	L3MFL	3	RGB	12V AC/DC	0.8W	10		
10103-013-00	L4MFL	4	RGB	12V AC/DC	1.5W	30	MTA-156 3Pin Plug	Turn off/on to switch modes (3 Animated + 8 Solid Colors)
10104-024-00	L7MFL	7	RGB	12V AC/DC	2.0W	30		

1K75LF-A01TL

K75 Controller, E+ System

# BDI

### CONTROLLERS



1K100A-FA3TL

K100 Controller, E+ System

1K100A-FA4TL

K100 Controller, E+ System

### Max Capability (POL) Input Voltage Input Connector Model Max. Power Notes 1K75LF-A01TL K75 12V AC/DC 15W 75 MTA-156 3Pin Plug Turn off/on to switch modes (3 Animated + 8 Solid Colors) K100 Signal: 12V AC/DC Power: 12V DC 25W 100 MTA-156 3Pin Plug Turn off/on to switch modes (3 Animated + 8 Solid Colors) 1K100A-FA3TL K100 Signal: 12V AC/DC Power: 12V DC 25W 100 Turn off/on to switch modes (3 Animated + 8 Solid Colors) 1K100A-FA4TL AMP 2Pin Male Plug

### **CABLES**

### 302000-00313

40" Signal Cable (Gec), E+ System

### 302000-00498

6" Signal Cable (Bal), E+ System

### 302000-00311

5' Extension Cable, E+ System

### 302000-00312

10' Extension Cable, E+ System



Part No.	Model	Input Voltage	Input Connector	Notes	
302000-00313	Signal Cable (Gec)	12V PWM	MTA-100 4Pin Plug	Connect to Spa pack (PWM) 40" (1,000mm)	
302000-00498	Signal Cable (Bal)	12V PWM	Molex 4Pin Receptacle	Connect to Spa pack (PWM) 6" (152mm)	
302000-00311	Extension			60" (1524mm)	
302000-00312	Extension			120" (3048mm)	



### **MAIN LIGHTS**







10102-015-00

2" L3SFL Main Light, E+ System

10103-014-00

3.5" L4SFL Main Light, E+ System

10104-019-01

5" L7SFL Main Light, E+ System

Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input/Output Connector	Notes
10102-015-00	L3SFL	3	RGB	12V DC	0.75W		
10103-014-00	L4SFL	4	RGB	12V DC	1.0W	Snap-Lock 4Pin Connectors	Connect to RDT Master Light, Controller or Signal Cable
10104-019-01	L7SFL	7	RGB	12V DC	1.75W		





1MINI0-RD0F1





10110-055-00 Quadri Mini POL, E+ System (2×18" & 2×36" wires)



10110-058-00 Double Mini POL, E+ System



10110-059-00 Triple Mini POL, E+ System



10110-056-00 Six Mini POL, E+ System

Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input/Output Connector	Notes
1MINIO-RD0F1	Single Mini	1	RGB	12V DC	0.5W		
10110-058-00	Double Mini	2	RGB	12V DC	0.5W		
10110-059-00	Triple Mini	3	RGB	12V DC	0.7W	Snap-Lock 4Pin Connectors	Connect to RDT Master Light, Controller or Signal Cable
10110-055-00	Quadri Mini	4	RGB	12V DC	1.0W		
10110-056-00	Six Mini	6	RGB	12V DC	1.2W		



### L-SHAPED POLS



Single L-shaped POL, E+ System



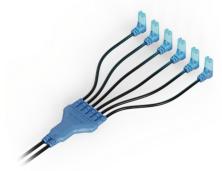
10110-024-04 Quadri L-shaped Mini POL, E+ System



Double L-shaped Mini POL, E+ System



Triple L-shaped Mini POL, E+ System



10110-029-03 Six L-shaped Mini POL, P+ System

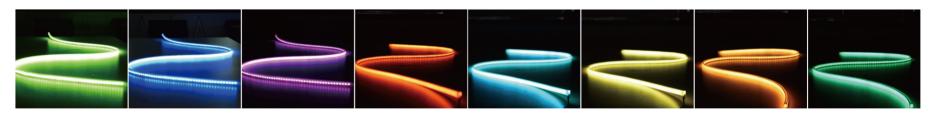
Part No.	Model	LED QTY	Color	Voltage	Max. Power	Input/Output Connector	Notes	
10110-003-01	Single Mini (L)	1	RGB	12V DC	0.5W			
10110-008-02	Double Mini (L)	2	RGB	12V DC	0.5W			
10110-017-01	Triple Mini (L)	3	RGB	12V DC	0.7W	Snap-Lock 4Pin Connectors	Connect to RDT Master Light, Controller or Signal Cable	
10110-024-04	Quadri Mini (L)	4	RGB	12V DC	0.9W			
10110-029-03	Six Mini (L)	6	RGB	12V DC	1.2W			

# **LUMI-SOFT™ LIGHTING SERIES**

### **FEATURES:**

- Hot-spot-free flexible linear lighting fixture
- UV resistant and weather proof Poly material specifcally designed for SPA industry
- Front Fire and Side Fire design available, achieving the most elegant atmosphere lighting
- Providing full solution for customized SPA lighting design

### **LUMI-SOFT™ Front Fire**



Part No.	Input Voltage	Max.Power Consumption	LED Qty	Color	Beam Angle	Dimensions	IP Rating	Multi-Zone Function	Ambient Temp
1ROPEO-01ATL	PWM DC12V	27W(98")	210W(98")	RGB	160°	W 18mm x H 11.5mm	IP66	Applicable	<b>-</b> 4°F∼ 140°F

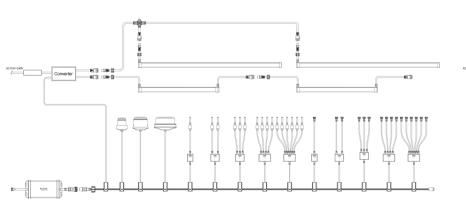
# **3DT**

### **LUMI-SOFT™ Side Fire**

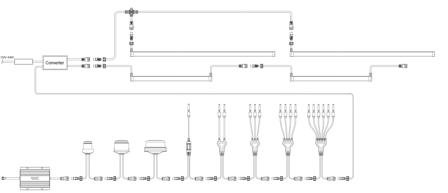


Part No.	Input Voltage	Max.Power Consumption	LED Qty	Color	Beam Angle	Dimensions	IP Rating	Multi-Zone Function	Ambient Temp
1ROPEO-00ATL	PWM DC12V	16W (98")	210W (98")	RGB	160°	W 11mm x H 18mm	IP66	Applicable	-4°F~ 140°F

### With P+

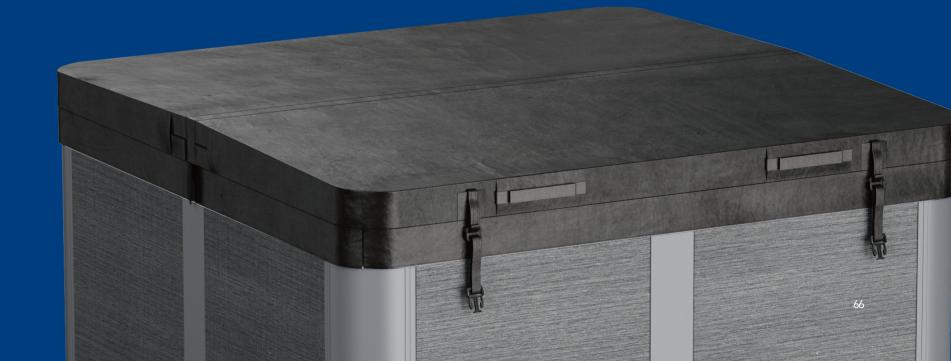


### With E+



# **SPA ACCESSORIES**

Designed, Engineered and Manufactured in Thailand with Ratings You Can Trust.



# **EXTRUSION CABINET**

**RISING DRAGON COLLECTION 2024** 

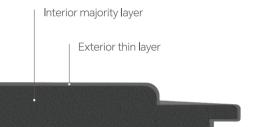
• Length: to cut any length required within 10 feet.



MADE IN THAILAND

### **Dual Extrusion Technology**

- Interior majority layer, High Impact Polystyrene with foaming, to reduce weight.
- Exterior thin layer, High Impact Polystyrene without foaming, to enhance impact strength and optimize Aesthetics.



### **Surface Treatment**





Stamped

Glossy

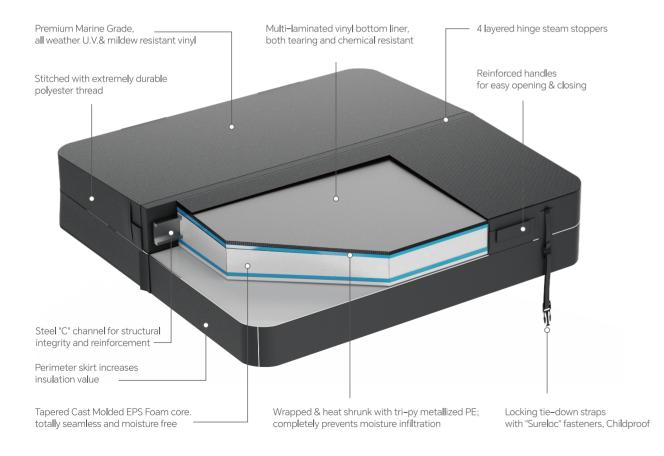
### **Quality Trustworthy Tests We've Done**

- Outdoor sunlight exposure test, UVB test.
- Thermal shock test, high and low temperature.
- Ball drop impact strength test.
- Heat Stamping foil fastness test under humid and wet environments.



# **SPA COVERS**

We offer full cover manufacturing facilities for OEM manufacturers. We can custom design covers to any size, shape or specification. All our covers comply with ASTM standards.





Fabric based



Vin**l**y based



Organosilicon based

# **SPA COVER BAGS**

The perfect packaging solution for shipping spas from the manufacturer to the dealer and from them to the end client.

Environmental-friendly bag is left with the end client as a protective cover if the spa is not used for an extended period or the bags can be returned and reused. No garbage to dispose of.

The bags are built with durable weather and UV resistant tarpaulin material and feature soft foam reinforcement to protect cabinet rails, acrylic shells as specifed by the OEM.

Completely customizable to your shipping method and can include velcro, zippers, reinforced strap guides, label window, elastic or belted base and even private label logo printing.

### **SPA BAG**



### **COVER BAG**



Use a bag instead of a cardboard box for the same price!



# **COVER LIFTERS**

The cover lifters are made of black powder coated Aluminum Alloy components and 100% stainless hardwares, providing years of trouble-free performance.

### **CABINET FREE COVER SHELF**

17001-013-00







### CABINET FREE COVER BASKET





### **CABINET FREE COVER REST**

17001-018-00







### CABINET MOUNT LIFTER

17001-009-00





### CABINET FREE UNIVERSAL ASSIST LIFTER

17001-011-00





### **CABINET MOUNT ASSIST LIFT & LOCK**







# **EVA SPA PILLOWS**

### **EVA ADJUSTABLE PILLOWS**

**14606-004-00**ADJUSTABLE PILLOW

Adjusts to many heights for a perfect fit

