

# ULTIMATE Series Manual



The Renew

The Retreat

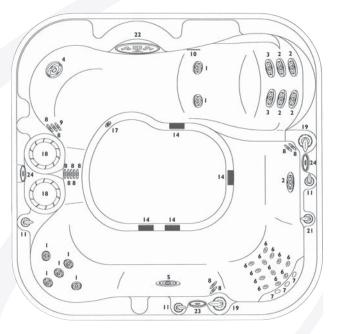
The Journey

The Escape





The Renew is the ultimate culmination of comfort, style and therapy. The contoured lounge offers extra room for the upper body, including armrests, and provides a serious massage from shoulders to hips. The Therapy Seat offers Cascade Neck Jets and a dozen Personal Therapy Jets that perform like magic fingers of stimulating massage. The Whirlpool System is enjoyed from all areas. Strategically positioned HK40 iets drive water into the footwell for extreme Footwell Therapy.



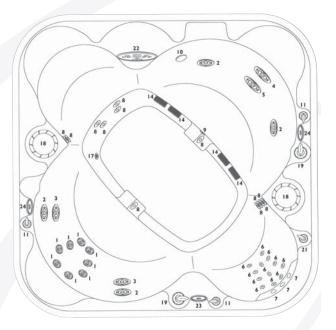
#	<b>Component Identification</b>	Qty
	Iso Boost Jets	7
2	Power Boost Jets	5
3	Power Swirl Jet	2
4	Cyclo Boost Jets	
5	Cyclo Swirl Jets	
6	Personal Therapy Jets	12
7	Cascade Neck Jets	3
8	Whirlpool/Geyser Jets	
9	Ozone Injector Fitting	
10	Light	
	Air Control Valves	3
14	Suction Fittings	4
17	Floor Drain	
18	Filter Canisters	2
19	Jet Selector Valves	2
21	Neck Jet Selector Valve	
22	Bather's Control Panel	1
23	Auxiliary Zone   Panel	
24	Auxiliary Zone 2 Panels	2

Physical Specifications	Size
Dimensions	84" × 84"
Height	35.5"
Depth	34"
Seating Positions	6
Weight Dry Lbs.	740
Weight Full Lbs.	3659
Water Capacity/Gallons	350
Total Therapy lets	42





The Retreat offers the patented Alcove Whirlpool<sup>™</sup> System of wholebody massage: HK40 jets swirl the water throughout the spa. Or nestle into the Therapy Seat with Cascade Neck Jets that shower your neck and shoulders and a dozen Personal Therapy Jets that work on your entire back. The expansive Alcove and Bench seats accommodate the entire family, while the cozy bucket seat provides a true escape. **Footwell Therapy** is easily accessed from every seat, or move into the footwell for more direct action. Sit above the water on the contoured sitout areas to take a breather from the hot water.



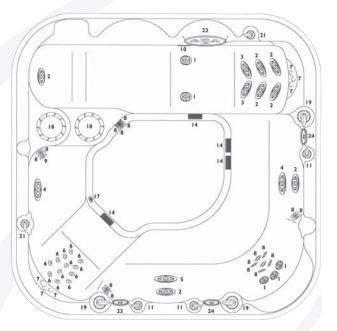
#	Component Identification	Qty
	Iso Boost Jets	8
2	Power Boost Jets	4
3	Power Swirl Jets	2
4	Cyclo Boost Jets	
5	Cyclo Swirl Jets	
6	Personal Therapy Jets	12
7	Cascade Neck Jets	3
8	Whirlpool/Geyser Jets	12
9	Ozone Injector Fitting	
10	Light	
	Air Control Valves	3
14	Suction Fittings	4
17	Floor Drain	
18	Filter Canisters	2
19	Jet Selector Valves	2
21	Neck Jet Selector Valve	
22	Bather's Control Panel	1
23	Auxiliary Zone   Panel	
24	Auxiliary Zone 2 Panels	2

Physical Specifications	Size
Dimensions	90" × 90"
Height	35.5"
Depth	34"
Seating Positions	6
Weight Dry Lbs.	800
Weight Full Lbs.	4553
Water Capacity/Gallons	450
Total Therapy Jets	43





The Journey<sup>™</sup> is open seating at its best. The Therapy Lounge features powerful back jets, Cascade Neck Jets<sup>™</sup>, penetrating thigh and hamstring jets, and foot jets. A barrier-free wrap around bench is loaded with jets or turn on HK40 jets for intensive back therapy. The deep Therapy Seat provides a powerful cluster of back jets, Cascade Neck Jets and also takes advantage of the HK40<sup>™</sup> jets for the most awesome Footwell Therapy<sup>™</sup>.



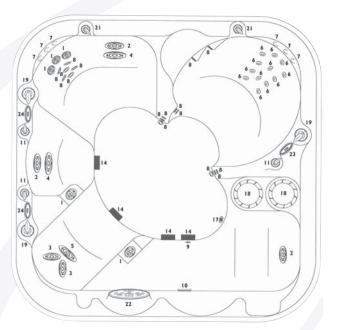
#	Component Identification	Qty
	Iso Boost Jets	5
2	Power Boost Jets	7
3	Power Swirl Jet	2
4	Cyclo Boost Jets	2
5	Cyclo Swirl Jets	
6	Personal Therapy Jets	12
7	Cascade Neck Jets	6
8	HK40 Geyser Whirlpool Jets	16
9	Ozone Injector Fitting	
10	Light	
	Air Control Valves	3
14	Suction Fittings	4
17	Floor Drain	
18	Filter Canisters	2
19	let Selector Valves	3
21	Neck Jet Selector Valves	2
22	Bather's Control Panel	1
23	Auxiliary Zone   Panel	
24	Auxiliary Zone 2 Panel	2

Physical Specifications	Size
Dimensions	90" × 90"
Height	35.5"
Depth	34"
Seating Positions	8
Weight Dry Lbs.	850
Weight Full Lbs.	4395
Water Capacity/Gallons	425
Total Therapy lets	51





The Escape<sup>™</sup> is structured with specialized seating and jetting designs. A Cool-down Lounge and bucket seat offer back and Wrist Jets or switch to intensive HK40 Geyser Jet system. The barrier-free wrap around bench is loaded with jets or turn on HK40 jets for intensive back therapy. The Alcove Whirlpool<sup>™</sup> is a spa within a spa. Choose extreme Whirlpool therapy, an incredible Personal Therapy back massage or intense **HK40** Footwell Therapy.

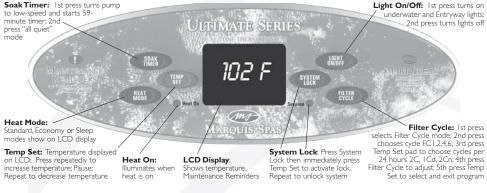


#	Component Identification	Qty
1	Iso Boost Jets	5
2	Power Boost Jets	3
3	Power Swirl Jets	2
4	Cyclo Boost Jets	2
5	Cyclo Swirl Jets	
6	Personal Therapy Jets	12
7	Cascade Neck Jets	6
8	Whirlpool/Geyser Jets	16
9	Ozone Injector Fitting	
10	Light	
	Air Control Valves	3
14	Suction Fittings	4
17	Floor Drain	
18	Filter Canisters	2
19	Jet Selector Valves	4
21	Neck Jet Selector Valves	2
22	Bather's Control Panel	1
23	Auxiliary Zone   Panel	
24	Auxiliary Zone 2 Panel	2

Physical Specifications	Size	
Dimensions	90" × 90"	
Height	35.5"	
Depth	34"	
Seating Positions	7	
Weight Dry Lbs.	865	
Weight Full Lbs.	4034	
Water Capacity/Gallons	380	
Total Therapy lets	47	







### The Renew, Retreat, Escape & Journey Spa Models

## PUMP PRIMING (Pr)

Pump priming feature begins at start-up. When spa is energized, the LCD panel will display a "Pr" message. This mode will last approximately four to five minutes, if not exited manually by pressing the TEMP SET pad.

### UNDERWATER AND ENTRYWAY LIGHTS

The pad marked LIGHT ON/OFF turns the underwater and Entryway lights on and off. The low-voltage system produces a night light for evening use and makes entering and exiting the spa safer. After being on for one hour, the lights will automatically turn off.

### OPTIONAL WATERCOLORS

Press LIGHT pad to turn on step one. Press LIGHT pad again to turn off for one second. Then Press LIGHT pad again for step two. Repeat for all six options: I-White, 2-Violet, 3- Blue, 4-Green, 5-Red, 6-Color wash of all colors.

### SOAK TIMER AND SOAK FEATURE

Pressing the SOAK TIMER pad will turn the jet pump to low-speed and start a 59-minute timer. The timer will display the elapsed time in one-minute increments (1-14). After 15 minutes, the display will flash the minute (15-59) for ten seconds before switching to a steady display as a safety reminder to not overstay your soak. During the Soak Timer mode, the temperature display can be checked by pressing the TEMP SET pad. A second press of the SOAK TIMER pad will turn off all functions (except light) for 30 minutes, if left uninterrupted, for an all-quiet soak. Pressing any pad will cancel the Soak mode.

### PROGRAMMABLE FILTER TIMES

- To adjust the filter time: First press the FILTER CYCLE pad for display mode, then press the FILTER CYCLE pad to scroll through filtration time options and adjust for desired filtration time FCI (45 minutes), FC2 (two hours), FC4 (four hours) or FC6 (six hours) and enter the selection using the TEMP SET pad.
- Display now shows either 2C (two filter cycles per day), ICd (one cycle per day that will start one minute after power up) or ICn (one cycle per day that will start 12 hours after power up). Press FILTER CYCLE pad to scroll through the selections and press TEMP SET pad to enter.
- The display will now show either SL4 (four hour cycle), SL3 (three hour cycle), SL2 (two hour cycle, SL1 (one hour cycle) or SL0 (Smart cycle off). Press the FILTER CYCLE pad to scroll through the selections and then press the TEMP SET pad to set and exit the programming mode.
- Factory default settings for the above selections: Filtration time FC2 (2 hours); Filter cycles 2C (two times per day); Cleanup cycle "Smart Logic" SLI (one hour).





The filter cycle will begin six minutes after the spa is energized. If you select two cycles per 24 hours, the second cycle will begin 12 hours after the first cycle. Also, at the start of the first filter cycle, auxiliary pump will run on low-speed for five minutes. The primary pump will run on high-speed for five minutes, then low-speed for the cycle's duration.

### **CONSTANT CLEAN<sup>™</sup> FILTRATION WITH SMART LOGIC**

### **Constant Clean<sup>™</sup> Filtration**

Your spa is automatically preset to filter itself using the jet pump on low-speed for two hours twice in a 24 hour period. The first filter cycle will begin one minute after the spa is energized. The second filter cycle will begin 12 hours after the first cycle. See PROGRAM FILTER to adjust cycles.

### Smart Logic

This feature ensures that the spa water will be properly filtered after each spa use. 30 minutes after the spa light or jet pump has been deactivated, the pump runs on high-speed for five minutes, then on low-speed to filter the water for one hour. See PROGRAM FILTER to adjust cycles.

### **Heat Demand Operation**

In addition to those situations mentioned above, the pump will circulate on lowspeed whenever the thermostat calls for heat.

### SOLID-STATE Q, OZONATOR

The Q<sub>3</sub> Ozonator will function during all filter cycles.

### HEAT MODE

The spa's heat mode can be adjusted to one of three different settings.

- **Standard Mode:** The spa water will heat to the temperature as set at the Bather's panel. In this mode the filtration pump will turn on for one minute every half-hour and "poll" or check the water. If heat is needed the unit will heat to the set temperature. LCD display will steadily read actual temperature in this mode.
- Economy Mode: In this mode the spa will only heat to the set temperature during a programmed filter cycle. LCD display will alternately flash "Ecn" with actual temperature when spa is up to set temperature. LCD will steadily display "Ecn" when spa is below set temperature.
- **Sleep Mode:** The spa will only heat to 20° F below the set temperature. Heater will only function during a programmed filter cycle. LCD display will alternately flash "SLP" with the actual temperature when spa is up to set temperature. LCD will steadily display "SLP" when spa is below set temperature.

For most applications, the Standard Mode should be used. If you are in a warm weather climate and the spa does not require as much heat, the Economy Mode may work best. For a vacation home or for very infrequent use, the Sleep Mode will provide filtration and circulation with lower energy demand.

Your spa comes preset in the Standard Mode. To change this selection, press the HEAT MODE pad and continue to press it until the desired setting is reached (Std, Ecn, or SLP). When you have reached the desired setting, press the TEMP SET pad to select that mode and exit programming. (TEMP SET pad must be pressed within ten seconds for the selection to take effect.)

### SYSTEM LOCK

After selecting filtration and heat modes, press SYSTEM LOCK pad, then immediately press TEMP SET pad to preserve the operational settings and ensure against inadvertent changes. Unlock the panel by repeating the procedure. Lock is indicated by LED light "SECURED". Jets and light will continue to function in System Lock.





### TEMPERATURE DISPLAY AND ADJUSTMENT

The LCD window displays the actual water temperature. Pressing the TEMP SET pad will make the numbers flash, then pressing the pad again (repeatedly) will increase the set temperature one degree at a time, up to 104° F. After a short pause, the actual temperature will again be displayed. Repeating the above procedure will allow you to decrease the set temperature. The default temperature is 102° F.

### HEAT LIGHT

The HEAT ON light will illuminate when the heater is on.

### LCD DISPLAY MESSAGES

The advanced technology built into the spa allows it to perform a number of selfdiagnostic system checks and can display a variety of messages on the LCD panel.

### • OHH or OHS:

Overheat protection; If a malfunction occurs and the spa water reaches 112° F (44° C), the system will completely shut down. In such a condition, DO NOT ENTER THE WATER. Turn off all power to the spa. Several conditions could lead to overheating, for example, low water level, shut-off valves closed while heater is on, dirty filter, and restriction in the plumbing lines. The spa will not restart itself until the water temperature within the spa drops to a lower, predetermined temperature. As a double safety feature, a secondary high-limit sensor will shut the system off if the water temperature in the heater housing reaches 118° F. In this case, the spa may be restarted by pressing any panel pad after the water has cooled to 108° F. If the switch trips repeatedly, do not use the spa. Contact your retailer for service.

### • HFL or drY:

- The filter may be plugged.
- The spa water level may be too low.
- A shut-off valve may be closed.
- Snt or SnH:
  - A sensor has malfunctioned. The spa will turn off. Contact your service provider.
- CL:

• This will appear every 30 days as a reminder to clean the filter. (See REMOV-ING THE FILTER in the Owner's Manual.)

- CH:
  - This will appear every 90 days as a reminder to drain and refill the spa. (See DRAINING THE SPA and REFILLING in the Owner's Manual.)
- SNS:
  - Call for service.

**\*NOTE:** If power is shut off or a power outage occurs the system has a battery backup. All user settings will be retained.



## THE ULTIMATE Series controls

### ZONED THERAPY SYSTEM AUXILIARY PANELS

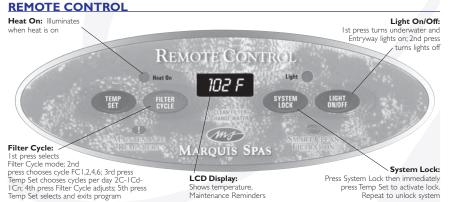
Pressing the ZONE I JETS pad will activate the Power Therapy Seat (see spa diagram for exact location). The ZONE I JETS pad will cycle the jet pump from low-speed, to high-speed, to off. This sequence will be followed beginning at whichever speed the pump may be in when the pad is pressed. Pressing ZONE 2 JETS or ZONE 3 JETS pads will activate the jets in the other areas of the spa. The Zone 2 and Zone 3 pumps follow the same sequence as that of Zone 1.

### **Pump Timeouts**

**Zone 1:** Operating sequence is low speed and ozone generator, high speed, then off. If left running, the low speed and the ozone generator turn off after 15 minutes. If left running, the high speed runs for ten minutes then reverts to low speed for five minutes before turning off.

**Zone 2:** Operating sequence is low speed, high speed, then off. If left running, the low speed will turn off after 15 minutes. If left running, the high speed runs for ten minutes then reverts to low speed for five minutes before turning off.





### LIGHT ON/OFF

The pad marked LIGHT ON/OFF turns the underwater and Entryway lights on and off.

### FILTER CYCLE

The pad marked PROGRAMMABLE FILTER TIMES sets the desired filter cycles.

### SYSTEM LOCK

The pad marked SYSTEM LOCK preserves the operational settings.

### TEMP SET

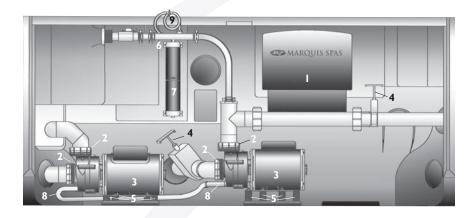
The pad marked TEMP SET increases and decreases temperature setting.

### LCD DISPLAY

Shows temperature and diagnostic messages. (See LCD DISPLAY MESSAGES.)



# THE ULTIMATE SERIES Therapy system



#	Therapy System Component	Qty
71	Control Box & Heater	
2	Pump Unions	4
3	Pumps	2
4	Shut Off Valves	2
5	Motor Mounts	
6	Mazzei Injector	1
7	Q, Ozonator	1
8	Freeze Line	1
9	Check Valve	1





# THE RENEW Zoned Jetting



### ZONE IA JETS

G

Therapy Seat jets (E) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the east and press ZONE I JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on highspeed. Adjust the jet pressure with Air Control Valve (5). Open the Air Control Valve (5) by turning the lever counterclockwise. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck Jet Valve (7).



### ZONE 2A JETS

All jets (F, H, J, K, L). Turn the Jet Selector Valve (6) to the north and press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed. Adjust the jet pressure (L, J, K) with Air Control Valves (5). Adjust the jet pressure (F, H) with Air Control Valve (8) by turning the lever counterclockwise.



### ZONE IBJETS

Geyser Jets (G) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the west. Press ZONE I JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on highspeed. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck Jet Valve (7).



### ZONE 2B JETS

Whirlpool Jets (P). Turn the Jet Selector Valve (6) to the south and press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed.

MARQUIS SPAS.

Shaded area: Jets On. White area: Jets Off. A compass is used as a directional tool.

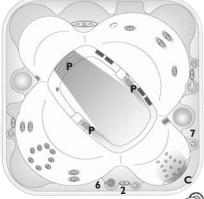






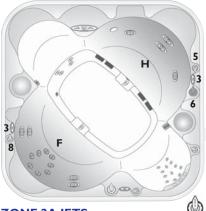
### ZONE IA JETS

Therapy Seat jets (E) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the east and press ZONE I JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on highspeed. Adjust the jet pressure with Air Control Valve (5) by turning the lever counterclockwise. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck let Valve (7).



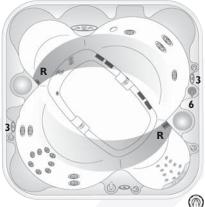
### ZONE IB JETS

Geyser Jets (P) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the west. Press ZONE | JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on highspeed. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck let Valve (7).



### ZONE 2A JETS

All jets (F, H). Turn the let Selector Valve (6) to the north and press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONÉ 2 JETS pad (3) again to turn pump on high-speed. Adjust the jet pressure (H) with Air Control Valve (5). Adjust the jet pressure (F) with Air Control Valve (8) by turning the lever counterclockwise.



### ZONE 2B JETS

Whirlpool Jets (R). Turn the Jet Selector Valve (6) to the south and press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONÉ 2 JETS pad (3) again to turn pump on high-speed.

MARQUIS SPAS.

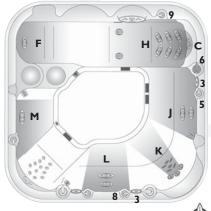
Shaded area: Jets On. White area: Jets Off. A compass is used as a directional tool.





### ZONE I A JETS

Therapy seat jets (E) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the west and press ZONE | JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on highspeed. Adjust the jet pressure with Air Control Valve (5) by turning the lever counterclockwise. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck Jet Valve (7).



### ZONE 2A JETS

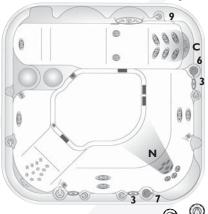
All jets (F, H, J, L, M) upper back jets (K) and Cascade Neck jets (C). Turn the let Selector Valve (6) to the north and press ZONE 2 [ETS pad (3) to turn pump on low-speed. Press ZONÉ 2 JETS pad (3) again to turn pump on high-speed. Adjust the jet pressure (F, H) with Air Control Valve (5). Adjust jet pressure (J, K, L, M) with Air Control Valve (8). Adjust (C) with valve (9).



### ZONE IB JETS

Geyser Whirlpool Jets (G) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the east and press ZONE | JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on high-speed. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck Jet Valve (7).

Shaded area: Jets On. White area: Jets Off. A compass is used as a directional tool.



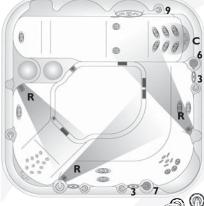
### **ZONE 2B JETS**

Lower back jets (N) and Cascade Neck jets (C). Turn the let Selector Valve (6) to the south and (7) to the east. Press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed. Adjust Cascade Neck Jets (C) with valve (9).

## MARQUIS SPAS.

page 12

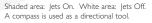




### **ZONE 2C JETS**

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Whirlpool Jets (R) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the south and (7) to the west. Press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed. Adjust Cascade Neck Jets (C) with Neck Jet valve (9).









### ZONE I A JETS

Therapy Seat jets (E) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the northeast and press ZONE I JETS pad (2) to turn pump on low-speed. Press ZONE I JETS pad (2) again to turn pump on high-speed. Adjust the jet pressure with Air Control Valve (5) by turning the lever counterclockwise. Control Cascade Neck lets pressure by turning Neck let Valve (7).



### **ZONE 2A JETS**

All jets (F, H, J, K, L) including Wrist Jets (W) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the south and press ZONE 2 JETS pad (3) to turn pump on low-speed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed. Adjust the jet pressure (W, H, F) with Air Control Valve (8) and (J, K, L) with valve (5) by turning the lever counterclockwise. Cascade Neck Jets (C) are independent of other jets. Control pressure by turning Neck let Valve (9). page 14



### ZONE IB JETS

Alcove Whirlpool Jets (P) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the southwest and press ZONE I [ETS pad (2) to turn pump on low-speed. Press ZONE | JETS pad (2) again to turn pump on high-speed. Adjust Cascade Neck Jets (C) with valve (7).

Shaded area: Jets On. White area: Jets Off. A compass is used as a directional tool.



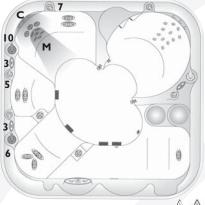
### ZONE 2B JETS

Geyser Jets (P) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the north and (10) to the south. Press ZONE 2 JETS pad (3) to turn pump on lowspeed. Press ZONE 2 JETS pad (3) again to turn pump on high-speed. Cascade Neck lets (C) are independent of other jets. Control pressure by turning Neck let Valve (9).





# THE ESCAPE Zoned Jetting



### ZONE 2C JETS

6

Therapy Seat lower back jets (M) and Cascade Neck Jets (C). Turn the Jet Selector Valve (6) to the north and valve (10) to the north. Press ZONE 3 JETS (3) pad to turn pump on low-speed. Press ZONE 3 JETS (3) pad again to turn pump on high-speed. Adjust Cascade Neck Jets (C) with Neck Jet valve (7).

> Shaded area: Jets On. White area: Jets Off. A compass is used as a directional tool.









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