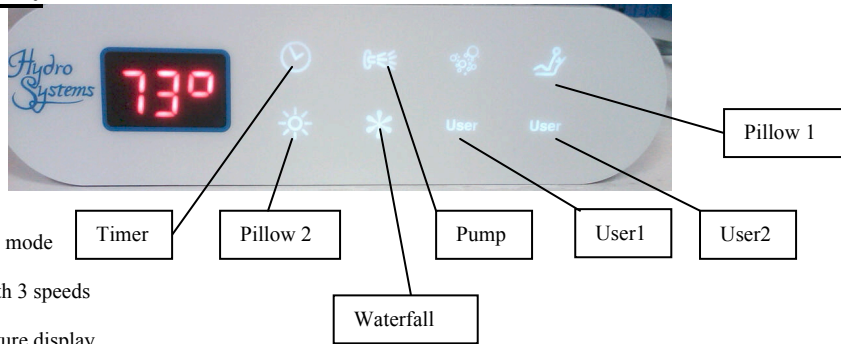# The 8-Button C44 System:

Control Features:

- Variable Speed Pump with Wave mode
- Waterfall ON/OFF
- Double pillow control feature with 3 speeds
- Two user preference set buttons
- 7-Segment digital water temperature display
- Programmable run-timer
- ½ Minute automatic button dimming
- High water scalding alarm

The Programmable System Run-Timer:
In order to operate the pump, the run-timer must be programmed by pressing the timer button. If the button is pressed and held, the timer will scroll through the programmable run-times. Release the button on the desired amount of run-time. The maximum programmable time is 30-minutes. If the light device is on when the main run-timer is programmed and the light time remaining is less than the programmed run-time, the light will remain on until the system run-timer expires.

Variable Speed Pump Operation:
In variable speed pump mode the speed control is worked into a one-button operation. Pressing and releasing the button will turn the pump speed full ON or full OFF depending on the current state of the pump. To vary the speed of the pump, pressing and holding the button will start the pump at high speed and after 3 seconds begin to decrease down to the lowest speed. The digits on the display will indicate the speed numbers down to the lowest speed setting. A release of the button on a particular setting will stop the pump's speed adjustment and remain on the selected speed setting. A continuous hold of the button for 2 seconds while in lowest speed (SP1) will activate the 'wave mode' feature of the pump. 'WA' is shown on the digital display to indicate that the 'wave mode' has been activated, release the button and the system will remain in the 'wave mode'. If a variable speed pump is active, a press and hold of the pump button will always return the pump to full speed, and cancel any activated 'wave' modes.

½ Minute Button Dimming Feature:
When the system run-timer is active, the keypad buttons are brightly backlit. If no buttons are actuated for 30 seconds, the backlighting will revert to a 50% brightness level. Pressing any button will cause the display buttons to return to full brightness again.

Digital Water Temperature Display:
Once the system detects the presence of water, the digital display will show the temperature of the water and the timer LED will light up. The timer must be programmed; then the pump motor is available for activation.

High Water Scalding Alarm Feature:
If the temperature of the detected water exceeds 111 degrees Fahrenheit, the digital display will flash 'too' 'hot'. All device activation will be prohibited. If the over-temperature is detected while system functions are operational, all functions except the light device will be shutdown. Once the temperature no longer exceeds the high limit, the system will be available for re-programming of the run-timer.

Pillow Operations:
The system pump must first be active for control of the pillow feature. The first press of the pillow button turns the pillows full ON; the second, third and fourth button presses cycle the pillows through 3 operating speeds. The fifth press will turn the pillow function OFF. If the pump is turned off while the pillows are functioning, then the pillow function will shut down automatically.

The Waterfall Operation:
The system pump must first be active for the waterfall to function. Pressing and releasing the waterfall button turns the waterfall feature ON, pressing and releasing the button a second time turns the waterfall feature OFF. If the waterfall is operating when the pump is shutdown, then the waterfall will automatically turn OFF.

User Preference Buttons:
The user preference buttons are only available while the system run timer is in the count down phase. Once a preferred system operation has been set, pressing and holding one of the user buttons until 'Sto' (Store) appears on the digital display will store the personal settings profile to memory. If it is a first time program, then the display will store the setting without a press and hold of the user button. In order to retrieve the stored setting from memory, press and release the user button once the run-timer has been programmed; the system will recall the stored functional settings that were stored. A 20-minute timer is automatically selected when a user preference is recalled.

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