

CLIM8ZONE™

An experience you won't find anywhere else



Introducing the all NEW
CLIM8ZONE™

An experience you won't find anywhere else

The first of it's kind, Clim8zone™ combines exclusive energy efficient technology with the ability to heat and cool the spa water.



CLIM8ZONE™ | Additional Features and Benefits

Features and benefits of Clim8zone™

1. Unlike other spa heat pumps on the market, Clim8zone™ functions at low ambient air temperatures (-20°C/-4°F) in colder climates
2. Operates quietly at less than 50dBA
3. Variable speed compressor with smart algorithm
4. Fully integrated with the BP Systems and uses the same spa heating pump as the spa's traditional electric element heater
5. Features a typical energy efficiency (COP) of 5 to 10 times a traditional spa heater and may reach up to 15 times in certain operating conditions, using less energy to keep the water hot, providing smart savings
6. Allows the spa user to set the spa BP Control System to utilize the Clim8zone™ Heat Pump alone, the spa's traditional electric element heater alone, or both simultaneously when necessary

CLIM8ZONE

SYSTEMS


Part #	Descripton
56390-04	SYSTEM BALBOA BP2100G1
59259	SYSTEM BALBOA BP6013G3
	SYSTEM BALBOA BP21P4BC
	SYSTEM BALBOA SSW21G1
	SYSTEM BALBOA BP6013G2
	SYSTEM BALBOA BP2100G0
	SYSTEM BALBOA BP6013G1

PANELS

ST3	PANEL BALBOA ST3 BLK
ST3	PANEL BALBOA ST3 CLR
ST2C(N)	PANEL BALBOA ST2TC(N) BL
ST2C(N)	PANEL OYNORDIC ST2TC(N) BL
ST2C(N)	PANEL BALBOA ST2C(N) SQ CL NO O/L
ST2C(N)	PANEL BALBOA ST2C(N) TRP CL
ST3	PANEL RIBOLI ST3 BLK

CLIM8ZONE SPA HEAT PUMP

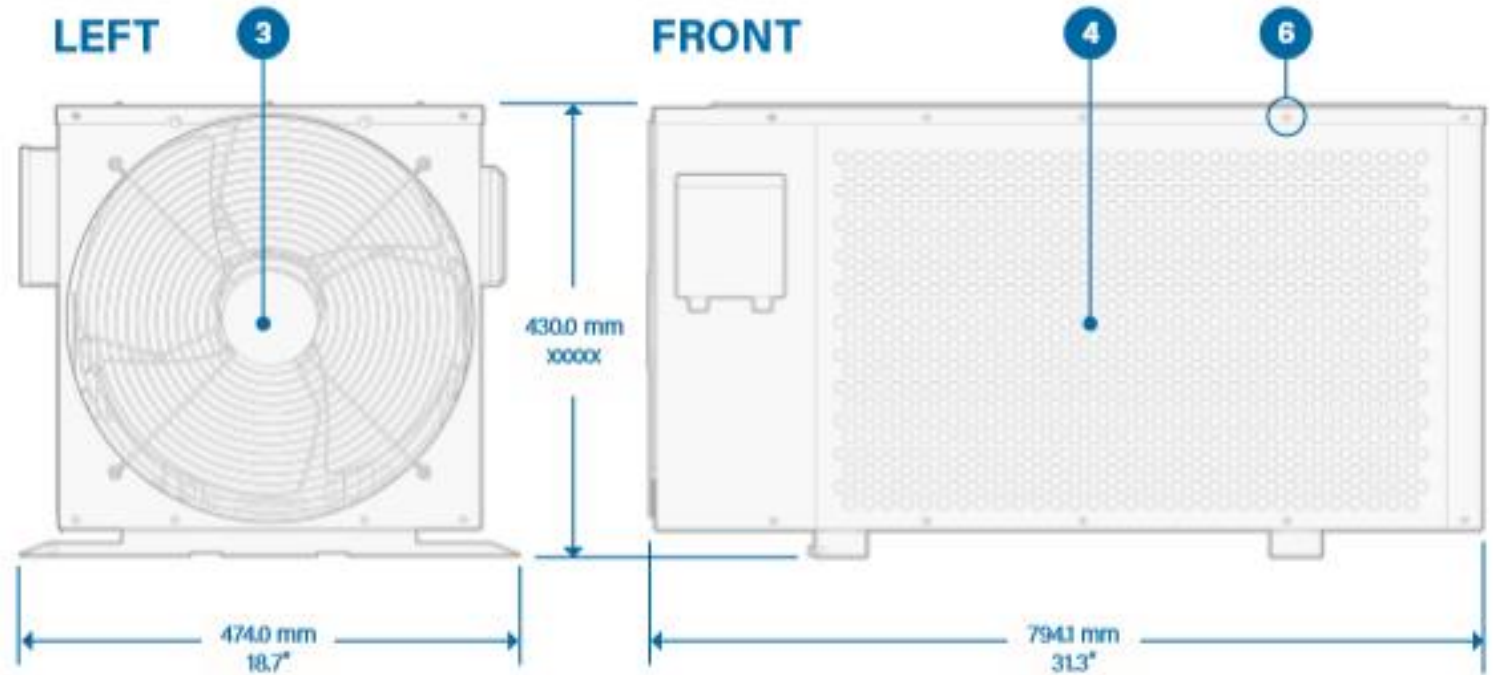
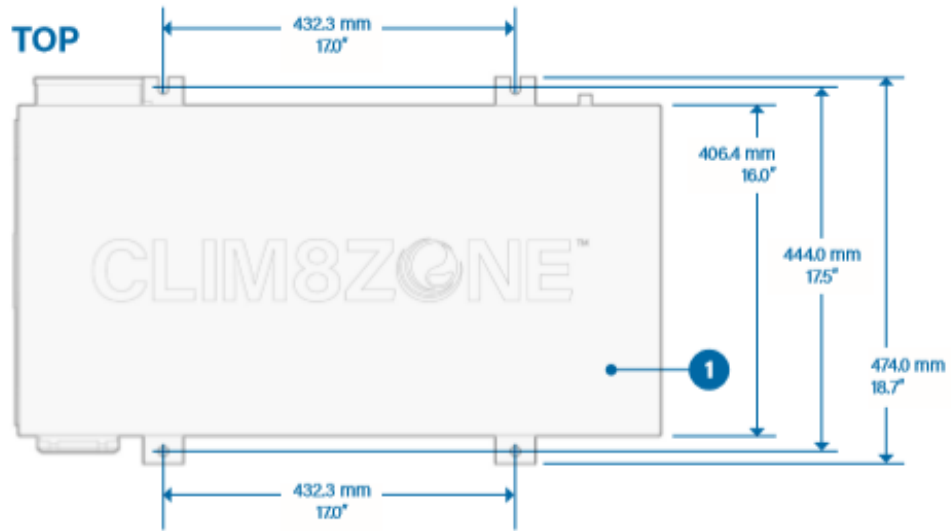
BALBOA WATER GROUP

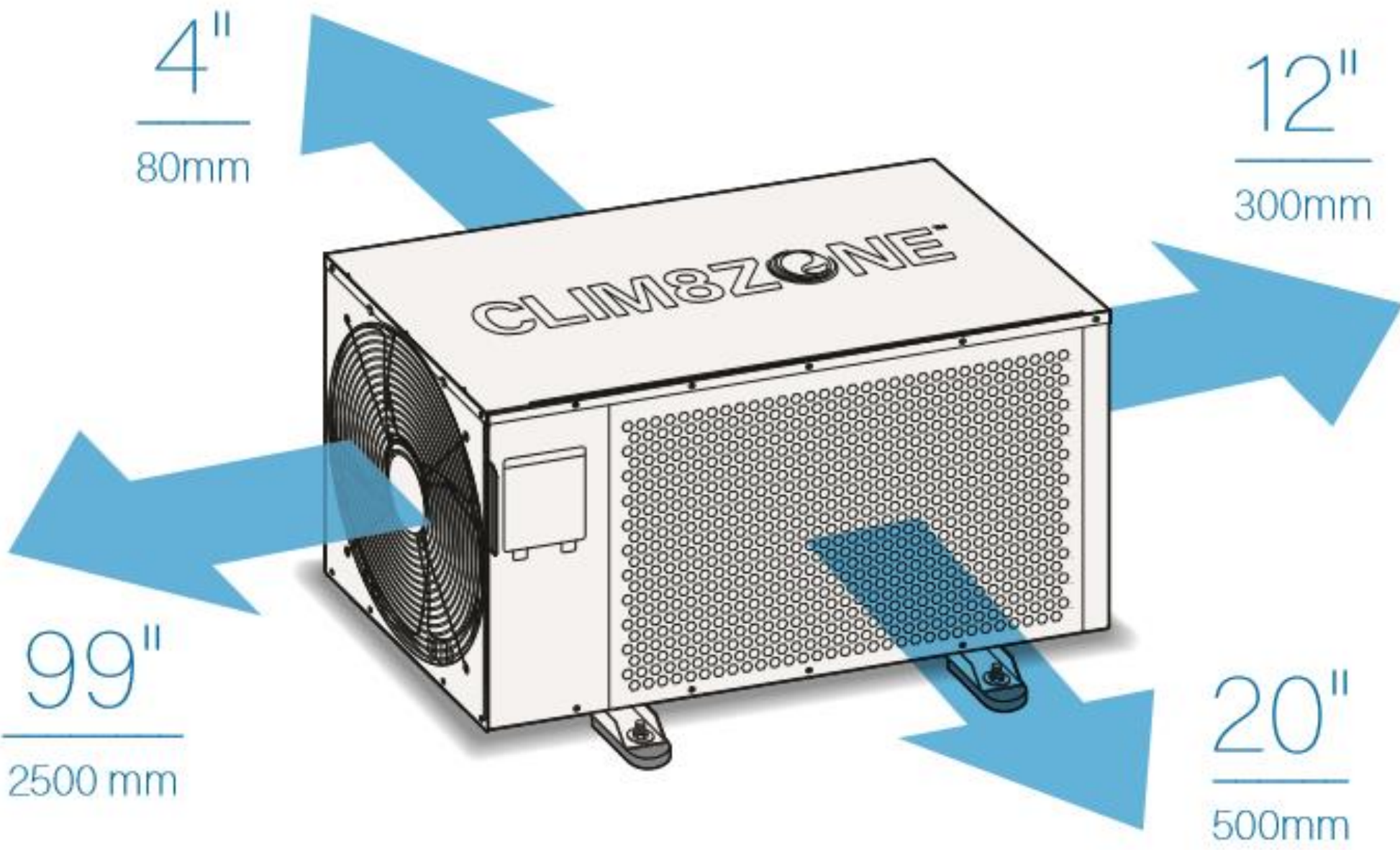
PART NUMBER:	73001
AGENCY MODEL:	BWGHP-010
RATED VOLTAGE/FREQUENCY:	230VAC/1P/50Hz
IP RATING / CLASS:	IPX4 / CLASS I
RATED HEATING CAPACITY:	6.3-2.4kW
RATED HEATING POWER INPUT:	1.12-0.21kW
RATED HEATING CURRENT INPUT:	4.9A
MAX. POWER INPUT:	1.30kW
MAX. CURRENT INPUT:	5.71A
RECOMMENDED WATER FLOW:	45LPM/2.7m ³ /h
REFRIGERANT / PROPER INPUT:	 R32/0.35kg
NOISE (1 m):	40-50dB(A)
NET WEIGHT:	63kg
OPERATION PRESSURE(LOW SIDE):	≥0.15MPa
OPERATION PRESSURE(HIGH SIDE):	≤4.2MPa
MAXIMUM ALLOWABLE PRESSURE:	≤4.2MPa

TESTED BY SGS TO STANDARDS
 IEC-AS/NZS 60335-2-40; 60335-1     

CLIM8ZONE	SPECIFICATIONS
Advised pool volume (m ³)	15~25
Operating air temperature (°C)	-20°C ~ 43°C
<i>Performance Condition: Air 27°C, Water 26°C, Humidity 80%</i>	
Heating capacity (kW)	6.3
Consumed power (kW)	1.12
COP	5.8
<i>Performance Condition: Air 15°C, Water 26°C, Humidity 70%</i>	
Heating capacity (kW)	4.7
Consumed power (kW)	0.98
COP	4.56
<i>Performance Condition: Air 35°C, Water 28°C, Humidity 80%</i>	
Cooling capacity (kW)	3.3
Sound pressure at 1m dB(A)	50
Power supply	220 ~240V/1 Ph/50Hz
Water Connection (mm)	50mm
Rated input current at air 15°C (A)	4.4
Advised water flux (m ³ /h)	2.7
Refrigerant	R32
Operating water temperature (°C) heating	9°C ~ 43°C
Operating water temperature (°C) cooling	9°C ~ 35°C

CLIM8ZONE dimensions





SPA EQUIPMENT DIAGRAM

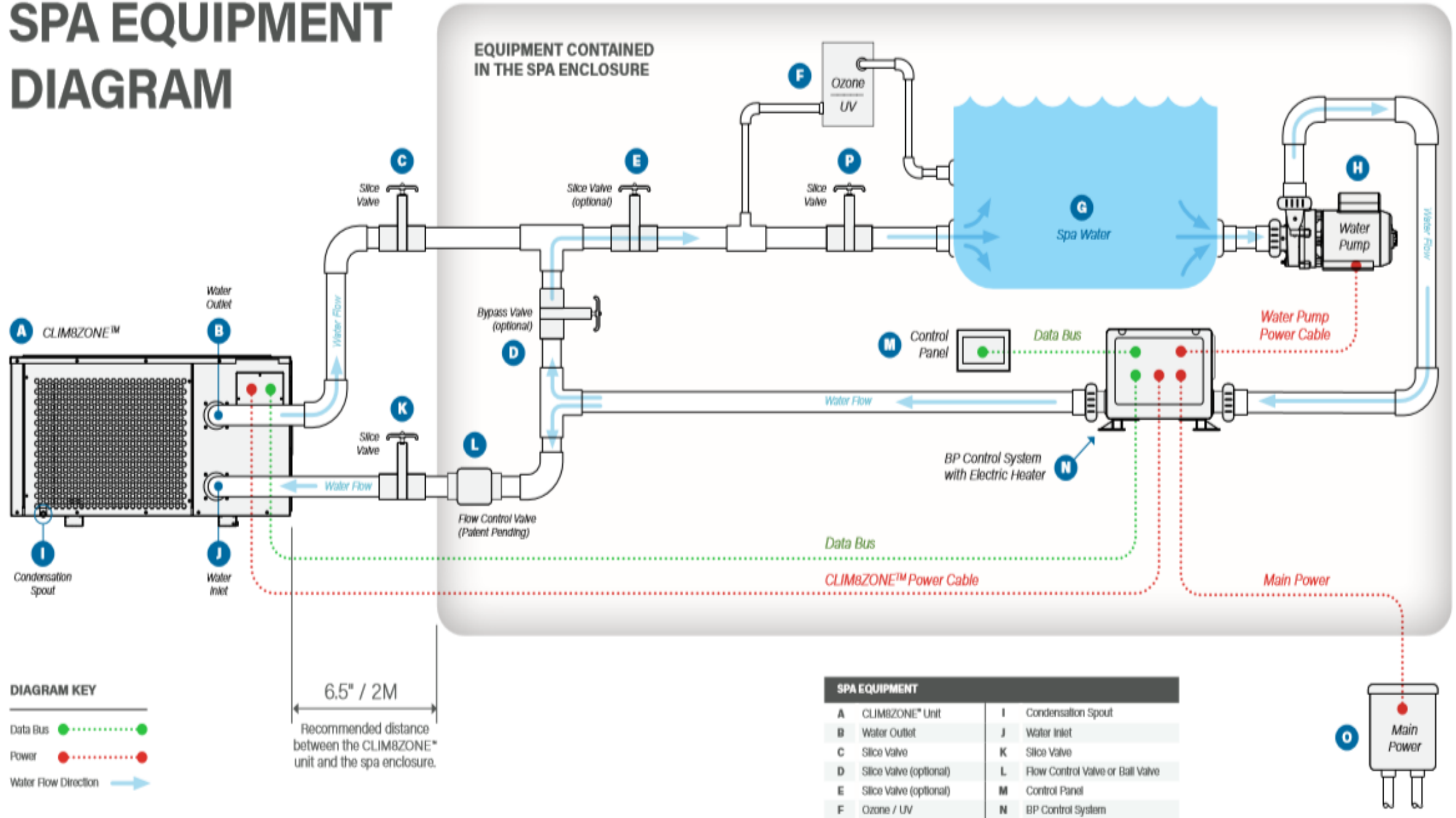
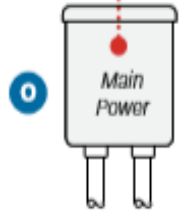


DIAGRAM KEY

- Data Bus ●.....●
- Power ●.....●
- Water Flow Direction →

6.5' / 2M
Recommended distance between the CLIM8ZONE™ unit and the spa enclosure.

SPA EQUIPMENT	
A	CLIM8ZONE™ Unit
B	Water Outlet
C	Slice Valve
D	Slice Valve (optional)
E	Slice Valve (optional)
F	Ozone / UV
I	Condensation Spout
J	Water Inlet
K	Slice Valve
L	Flow Control Valve or Ball Valve
M	Control Panel
N	BP Control System



TEMPERATURE MODES

CLIM8ZONE™ has four Temperature modes for heating/cooling spa water.

- 1 HEATING MODE (Default)**
This mode only heats the spa water. All cooling with the CLIM8ZONE™ unit is disabled.
- 2 COOLING MODE**
This mode only cools the spa water. All heating with the CLIM8ZONE™ unit is disabled.
- 3 HEATING AND COOLING MODE (Default)**
This mode heats and cools the spa water with the CLIM8ZONE™ unit enabled.
- 4 DISABLED**

SPEED MODES

CLIM8ZONE™ has three Speed modes.

- 1 AUTO SMART (Default)**
 - For Heating or Cooling
 - Uses Artificial Intelligence
 - Variable Heating/Cooling capacity
 - The CLIM8ZONE™ computer automatically adjusts the compressor frequency up or down using an algorithm that is based on ambient air temperature and water temperature.
 - This algorithm balances a best case in most conditions for efficiency and noise vs heating/cooling output of the CLIM8ZONE unit.
- 2 MANUAL HIGH**
 - For Heating or Cooling
 - Highest Heating Capacity
 - Fastest Water Heating/Cooling
 - Low COP (i.e. Low Energy Efficiency)
 - High Compressor Frequency – Fixed, i.e. does not adjust based on environmental conditions
 - The CLIM8ZONE unit Compressor Noise is Maximum
- 3 MANUAL LOW**
 - For Heating or Cooling
 - Lowest Heating/Cooling Capacity
 - Slowest Water Heating
 - High COP (i.e. High Energy Efficiency)
 - Low Compressor Frequency – Fixed, i.e. does not adjust based on environmental conditions
 - The CLIM8ZONE unit Compressor Noise is Minimum

eHeater MODES

The BP control system has three eHeater modes.

- 1 CONTINUOUS**
The electric heater (eHeater) is continuously enabled.
- 2 eBOOST (Default)**
The electric heater is enabled temporarily when an extra boost is required.
- 3 DISABLED**



BP Control System with
eHeater



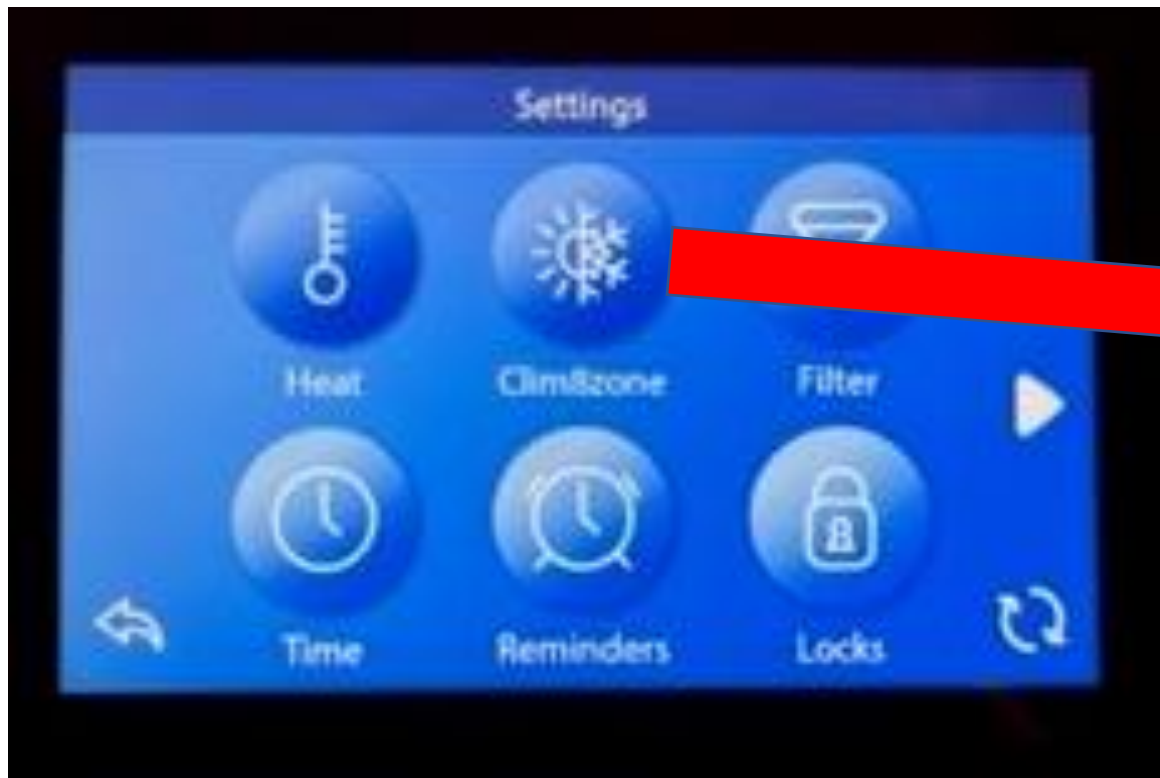
CLIM8ZONE
Indicator



CLIM8ZONE *Cooling*



CLIM8ZONE *Heating*



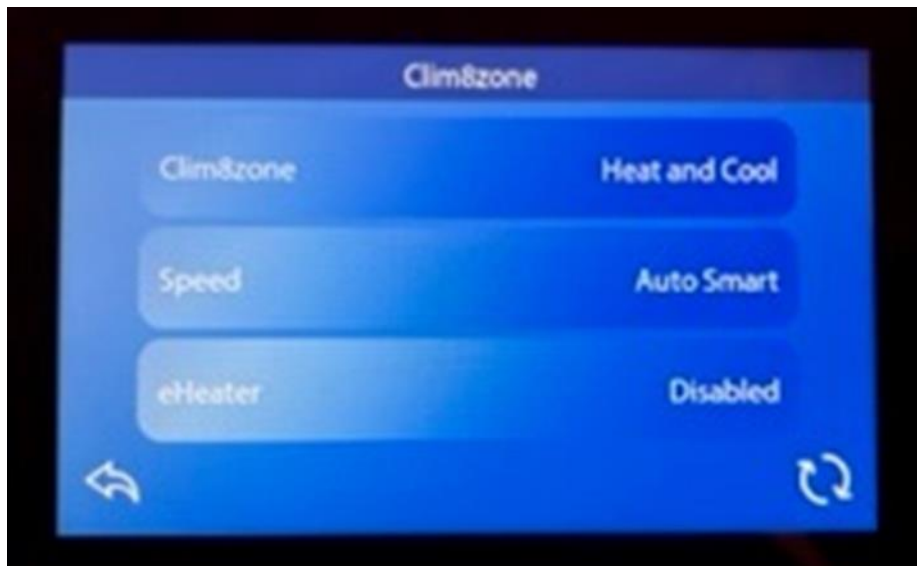
CLIM8ZONE MENU



CLIM8ZONE SPEED MENU



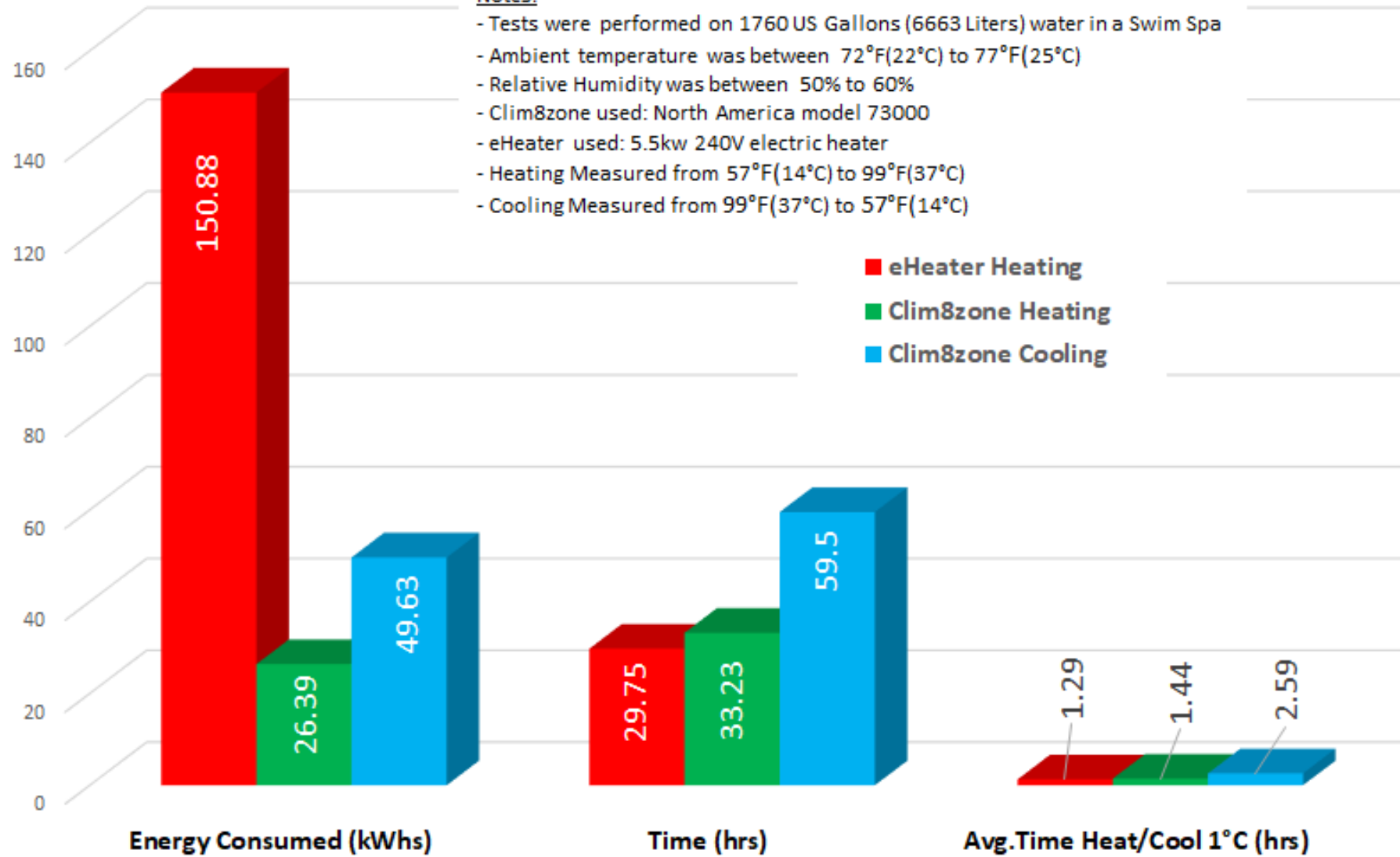
CLIM8ZONE eHEATER MENU



Clim8zone Heat Pump vs. Electric Heater (eHeater) Comparison Tests on Swim Spa

Notes:

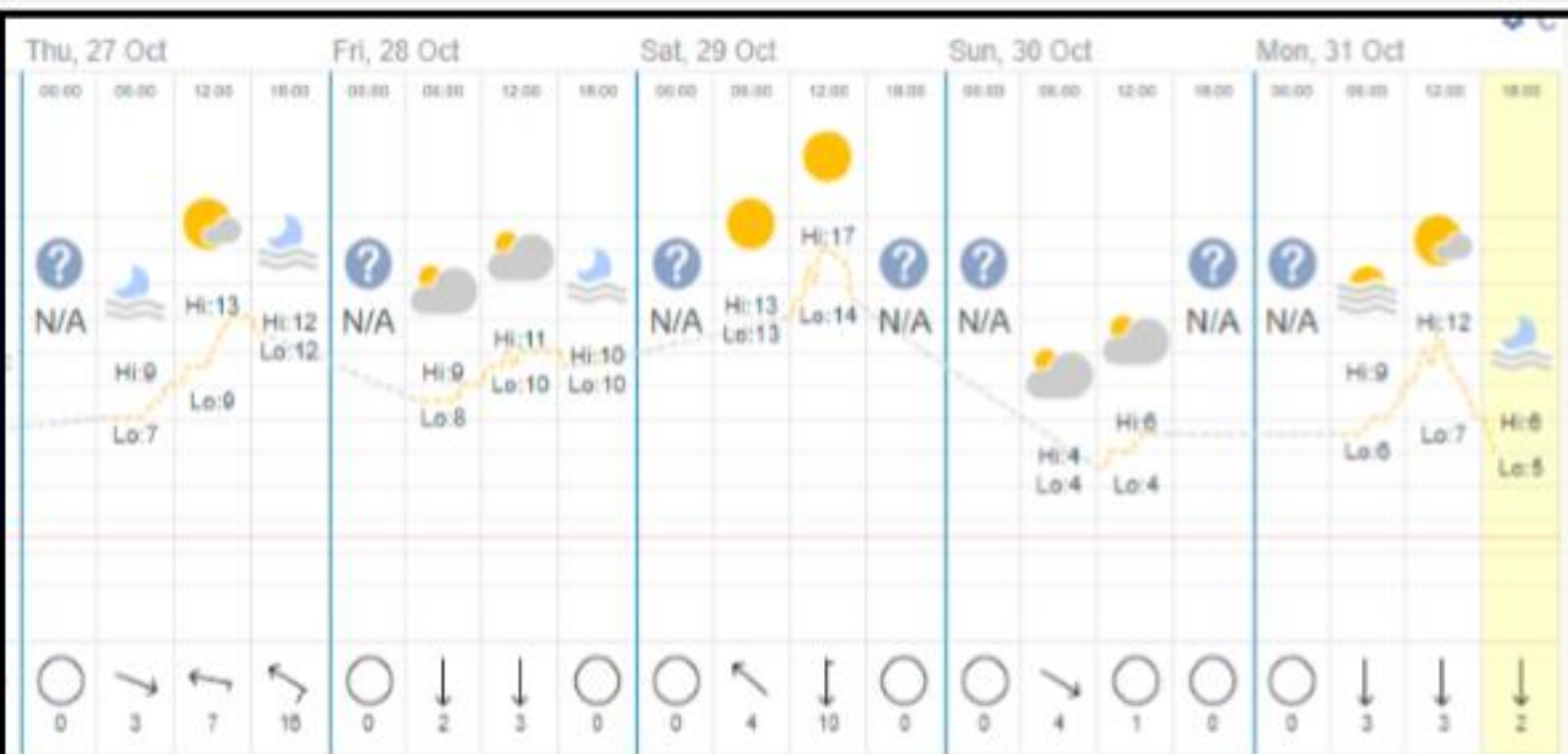
- Tests were performed on 1760 US Gallons (6663 Liters) water in a Swim Spa
- Ambient temperature was between 72°F(22°C) to 77°F(25°C)
- Relative Humidity was between 50% to 60%
- Clim8zone used: North America model 73000
- eHeater used: 5.5kw 240V electric heater
- Heating Measured from 57°F(14°C) to 99°F(37°C)
- Cooling Measured from 99°F(37°C) to 57°F(14°C)



CLIM8ZONE PERFORMANCE IN NORWAY IN OCTOBER 2022

	Temperature	Humidity
High	18 °C (3 Oct, 15:20)	100% (3 Oct, 06:50)
Low	-2 °C (20 Oct, 07:20)	39% (8 Oct, 16:50)
Average	8 °C	86%

* Reported 1 Oct 12:20 — 31 Oct 18:50, Notodden. Weath



AVERAGE OUTDOOR TEMPERATURE DURING TEST PERIOD = 7°C

WATER TEMPERATURE DURING TEST PERIOD = 38°C

SPA HEATING MODE = READY mode

SPA WAS USED 8 TIMES DURING TEST PERIOD
(consumption 15-20% more on days when spa was used)

