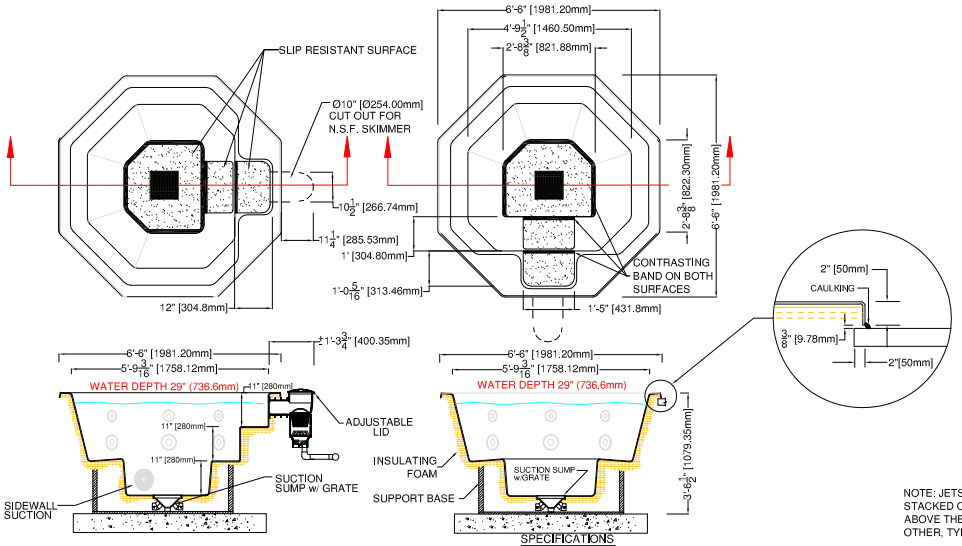
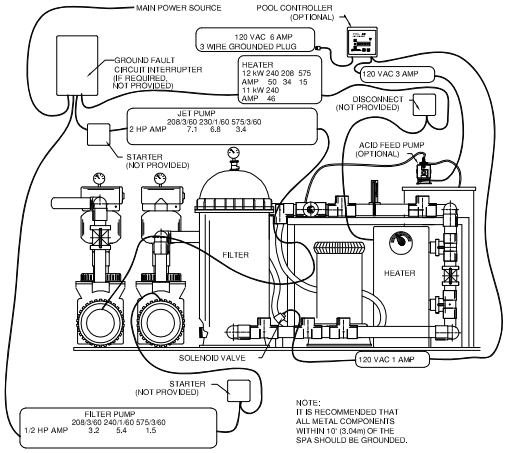
SHELL DIMENSIONS

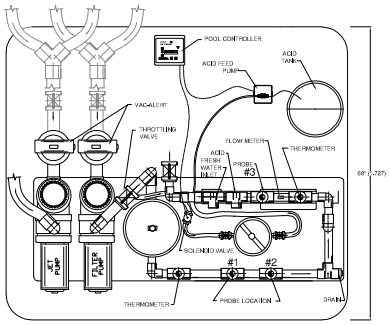
Dimensions differ between Spas. Exact measurements should be obtained from purchased Spa.

LENGTH	WIDTH	HEIGHT	VOLUME:	SHELL WEIGHT EMPTY	SHELL WEIGHT FULL	SURFACE AREA
78" [198cm]	78" [198cm]	42.5" [107.9cm]	@400 Gl / 1514 Lt.	680 lbs / 310 kg	3672 lbs / 1665 kg	26 sq.ft [2.41sq.m]

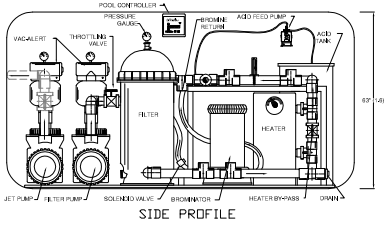
All equipment UL and UL-C approved.
All fittings N.S.F. and ANSI/ASME LISTED.







PLAN VIEW



SIDE PROFILE

SPECIFICATIONS

1.1 The shell of the hot tub shall be manufactured of vacuum formed acrylic (.187 sheet) in one of two colours: Biscuit (Ivory Bone), Caribbean Quarite (Medium Blue). Hot tub shell overall dimensions: are 78" x 78" x 42.5" deep. See dimensional information on this sheet.

1.2 The acrylic shall be further reinforced with fiberglass resins but may require additional on-site bracing supports (customer's responsibility) under the steps and seats.

1.3 The shell shall have the following fittings:

- 5 Large hydrotherapy jets
- 5 Medium hydrotherapy jets
- 1 Wide mouth skimmer, (N.S.F. Listed)
- 1 Bottom drain sump with 9" removeable grate ASME/ANSI A112.9.8-2007 Listed
- 2 Side wall suction fittings ANSI/ASME A112.19.8-2007 Listed
  All suction fittings are VGB 2008 Approved (ANSI/ASME 112.19.8-2007) (Addendum 8a-2008) as per sec1404 of VGB 2008
- 2 Air control valves
- 1 Water level tank fitting with remote water level control tank
- 2 Filtered water return inlets

1.4 The hot tub will be insulated with a coating of polyurethane foam, factory plumbed and hydrostatically tested.

1.5 Recommended HCSP 1-3 mechanical support system will be shipped on a separate plastic base and shall consist of:

QTY.

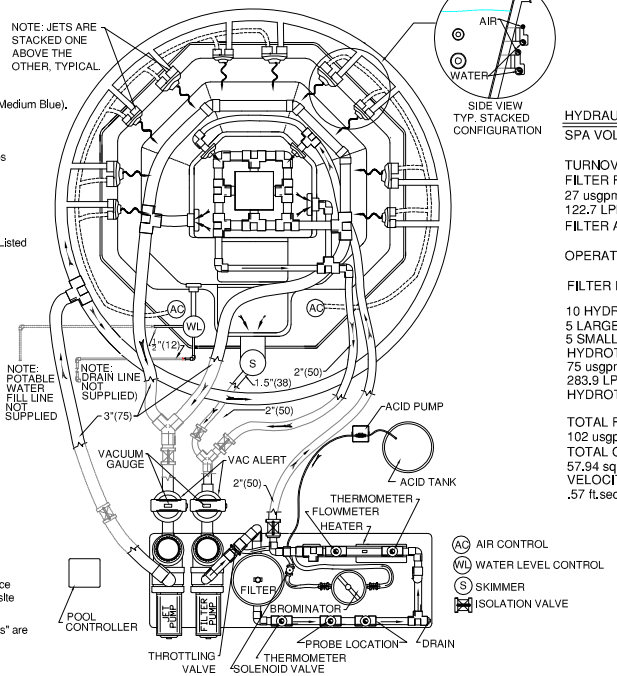
- 1 1/2hp filter pump (N.S.F. Listed)
- 1 100 sq.ft. cartridge filter (N.S.F. Listed)
- 1 2 hp hydrotherapy booster pump (N.S.F. Listed)
- 1 11kW or 12 kW electric heater c/w flow switch
- 2 Inline thermometers c/w thermowell
- 1 Inline flowmeter
- 1 Link Chemistry Controller *
- 1 Brominator (N.S.F. Listed) with normally closed solenoid valve *
- 1 Acid feed pump with 15 gal solution tank c/w lid *
- 1 10 Minute timer for jet pump c/w contactor
- 1 Water level controller with overflow (located at the shell)
- 2 VA2000 Vacuum Release devices (ASME A112.1917-2002 Listed) *

1.6 Optional handrail with anchor and escutcheon plates or deck flange.

1.7 Warranties shall be 5 year on the shell structure, 2 years on the acrylic surface and one year on the plumbing, mechanical equipment and accessories. On-site plumbing is NOT covered.

1.8 Installation items NOT covered by this specification and considered "by others" are Plumbing between the spa shell and mechanical equipment location. Electrical connections, motor, heater and component connections including motor starters and grounding of all electrical components. Decking and access steps including deck drains. Supports under the seats and steps of the shell.

* Innclued with standard equipment package, optional with economy equipment package.



NOTE: The mechanical system may be modified to suit project requirements. Section 1.5 - 1.6 is NOT applicable if equipment is supplied by others.

HYDRAULIC DESIGN

SPA VOLUME 400 usg
1760 Litre
TURNOVER 13.2 minutes
FILTER FLOW RATE
27 usgpm @ 60' T.D.H.
122.7 LPM @ 17.92 M hd
FILTER AREA 100 sq.ft.
9.281 sq.m.
OPERATING @.270 usgpm/sq.ft.
@ .18 L / S/ M.
FILTER PUMP 1/2 hp

10 HYDROTHERAPY FITTINGS
5 LARGE OPERATING @ 10 usgpm/ 37.8 Lpm
5 SMALL OPERATING @ 5 usgpm/ 18.9 Lpm
HYDROTHERAPY FLOW RATE
75 usgpm @ 60' TDH
283.9 LPM @ 17.92 M hd
HYDROTHERAPY PUMP 2 hp

TOTAL FLOW RATE
102 usgpm/386.1 Lpm
TOTAL OPEN AREA OF MAIN DRAINS
57.94 sq.in./ 373.8sq.cm.
VELOCITY THROUGH MAIN DRAINS
.57 ft.sec/ 0.1737m. sec

HydroTher

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No.	Date	Description
		Revisions

HYDROTHER
135 MATHESON BLVD. E.
MISSISSAUGA, ONTARIO
CANADA
L4Z 1R2

www.hydrother.com

Project

Title: Model H – 600 C
VGB Model

Drawn By	smb
Scale	n.t.s.
Date	Feb 3/09
Ch'd By	dp
Job No.	8002009

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