

Bermuda Skimmers

NOVATREND ENGINEERING
GROUP LTD.



THIS REVIEW IS MADE ONLY TO VERIFY CONFORMITY WITH THE GENERAL DESIGN CONCEPT AND DOES NOT IMPLY APPROVAL OF THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ERRORS & OMISSIONS IN THE SHOP DRAWINGS, FOR INFORMATION RELATING SOLELY TO FABRICATION PROCESSES & CONSTRUCTION TECHNIQUES AND FOR MEETING ALL CONTRACTUAL REQUIREMENTS INCLUDING CO-ORDINATION OF FIELD DIMENSIONS & CO-ORDINATION OF THE WORK OF ALL HIS SUB-TRADES.

☐ REVIEWED ☒ REVIEWED AS NOTED
☐ REVISE & RESUBMIT ☐ REJECTED

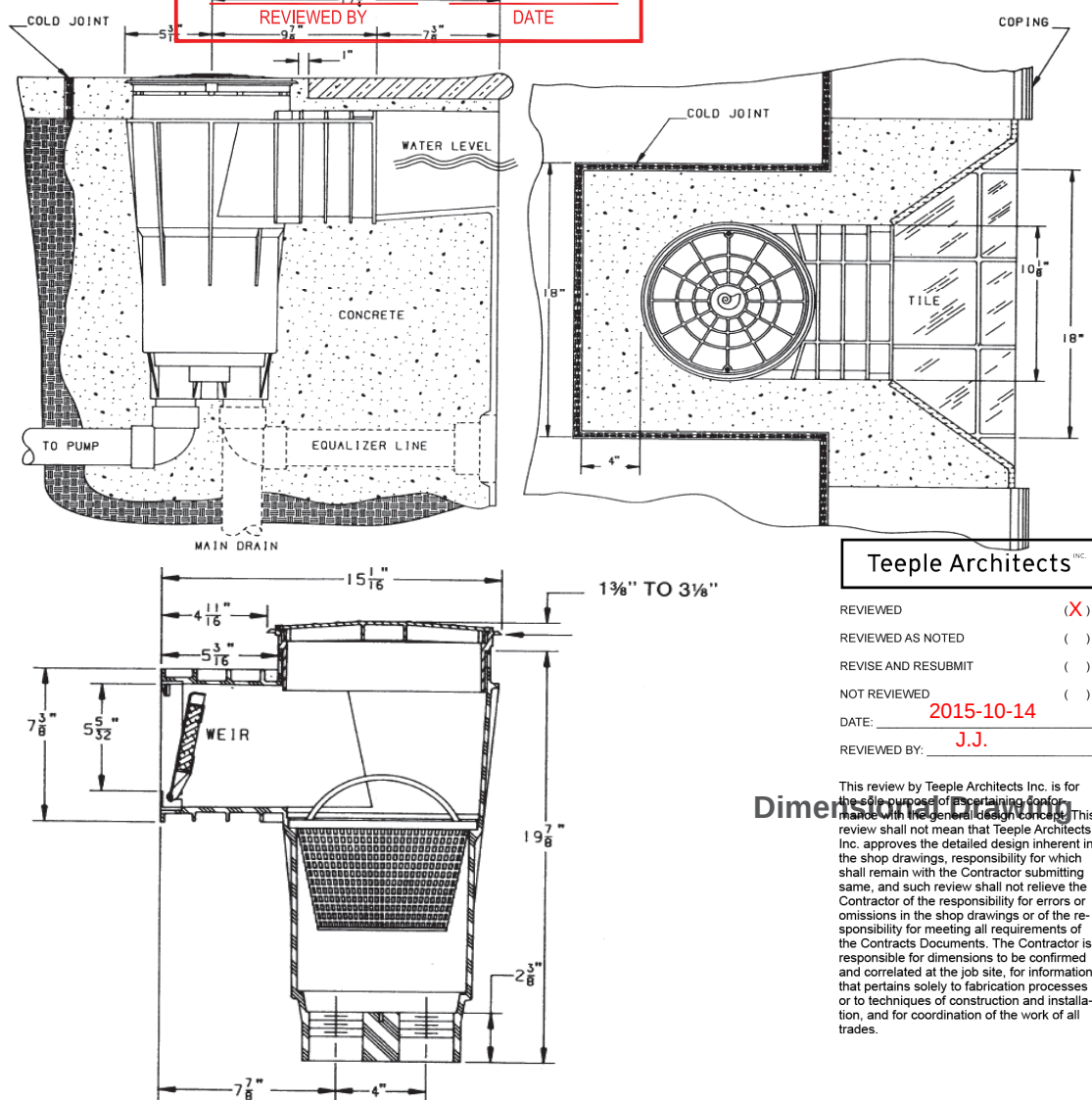
Kevin Chen 2015-10-09

REVIEWED BY DATE

Heavy duty one-piece gunite construction with sturdy external ribbing for superior strength

The voltage for the
15KW Heater to be
575V, 3Phase.

Installation Drawing



Teeple Architects INC.

REVIEWED (X)
REVIEWED AS NOTED ()
REVISE AND RESUBMIT ()
NOT REVIEWED ()
DATE: 2015-10-14
REVIEWED BY: J.J.

Dimensional Drawing

This review by Teeple Architects Inc. is for the sole purpose of ascertaining conformity with the general design concept. This review shall not mean that Teeple Architects Inc. approves the detailed design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of the responsibility for errors or omissions in the shop drawings or of the responsibility for meeting all requirements of the Contracts Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of the work of all trades.



COMMERCIAL AQUATIC
FITNESS AND SPA GROUP

135 MATHESON BLVD. EAST
MISSISSAUGA, ONTARIO, CANADA
L4Z 1R2
TEL: (905) 501-7210
FAX: (905) 501-7211

Small Hydrotherapy Jet

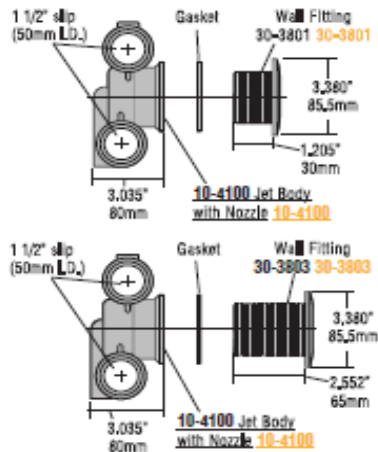
SPECIFICATIONS:

Output : 13 GPM, 12 psl, 3/8" Nozzle
1.5 m³/h @ 7m H₂O

Hole Size: Use 2 3/8" hole saw

Options: Wrench 30-3801W
Hand Held 16-5303
Nozzle 10-4707
Orifice 30-4104PVC

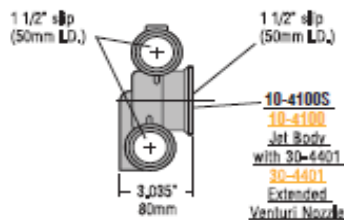
Stacked Jet Assemblies



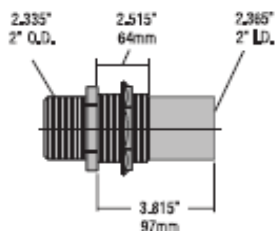
SPECIFICATIONS:

Output : 13 GPM, 12 psl, 1/2" Nozzle
Pipe Size: 1 1/2" PVC

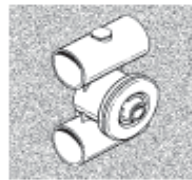
Options: Wall Fitting Assembly 50-3420
Hand Held 16-5303



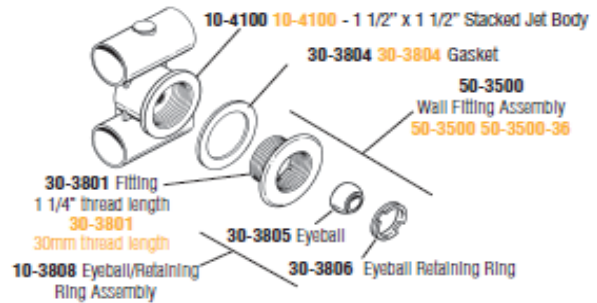
SPECIFICATIONS:



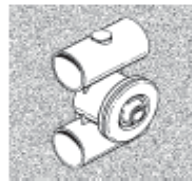
Hydro Jet™ 1 1/4" Fitting Thread Length



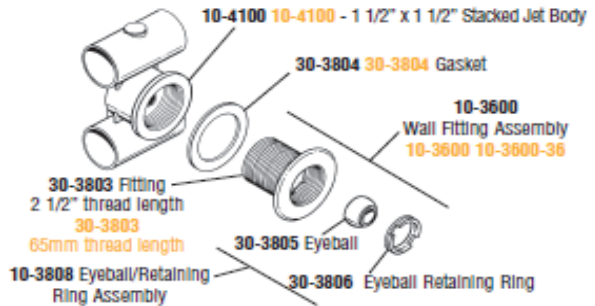
10-5100
Includes: 10-4100
Stacked Jet Assembly &
50-3500 Wall Fitting
Assembly



Hydro Jet™ 2 1/2" Fitting Thread Length



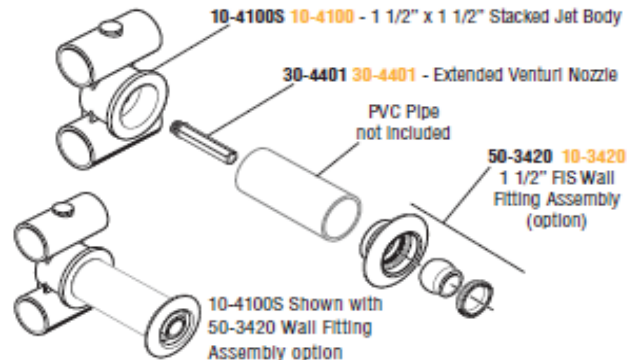
10-5300
Includes: 10-4100
Stacked Jet Assembly
& 10-3600 Wall Fitting
Assembly



Hydro Jet™ For 1 1/2" PVC Pipe Extension



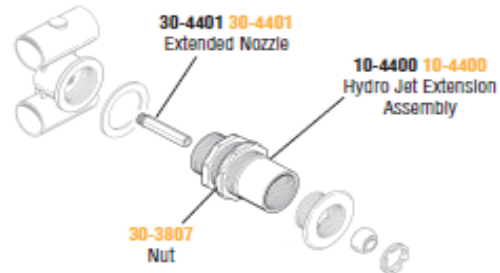
10-4100S Includes:
30-4401 Extended
Venturi Nozzle
(Wall Fitting not included)
10-4100



Hydro Jet™ Extension - For Gunite / Hot Mop



10-4400 includes:
Extension Body, and
Extended Nozzle (30-4401)
10-4400



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Large Hydrotherapy Jet

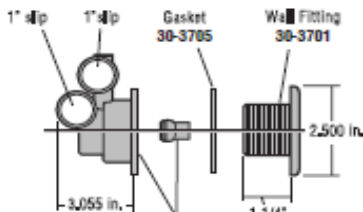
SPECIFICATIONS:

Output : 10 GPM, 12 psi, 5/16" nozzle

Hole Size: Use 1 11/16" Hole Saw

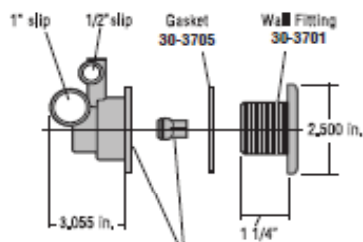
Options: Metal Escutcheon Assy - 10-3755M
Wrench 10-7825M

Micro Jet™ Stacked Jet Assemblies



50-4200 Stacked Jet Body with Long Nozzle

10-5220 1" x 1" Stacked Jet Assembly
(less Therapy option) includes: Stacked Jet Body, Nozzle, Gasket and 30-3701 Wall Fitting



50-5603 Stacked Jet Body with Long Nozzle

SPECIFICATIONS:

Output : 13 GPM, 12 psi, 3 m³/h @ 7m H₂O

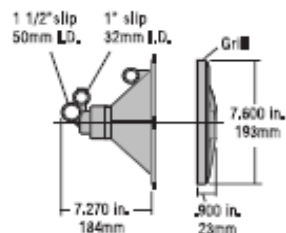
Hole Size: 5 7/8"

Socket Size: 1 1/2" slip water, 1" slip air

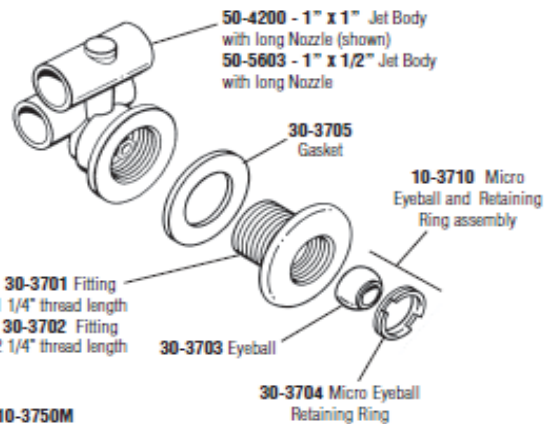
Installation: Requires 7 5/8" flat area.

Options: 20-1832 32mm O.D. rigid pipe
20-08329 32mm O.D. flexible hose
20-1850 50mm O.D. rigid pipe
20-08509 50mm O.D. flexible hose
20-1001 32mm O.D. plug
20-1015 50mm O.D. plug

Thera' ssage Jet Dimensions



Micro Jet™ Assemblies



10-3751M
Metal Micro Eyeball

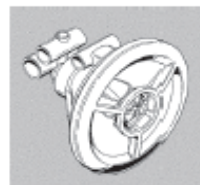


10-5200 - 1" x 1"
includes:
50-4200 Jet Body,
30-3701 Fitting (1 1/4"),
Eyeball & Retaining Ring



10-5610 - 1" x 1/2"
includes:
50-5603 Jet Body,
30-3701 Fitting (1 1/4"),
Eyeball & Retaining Ring

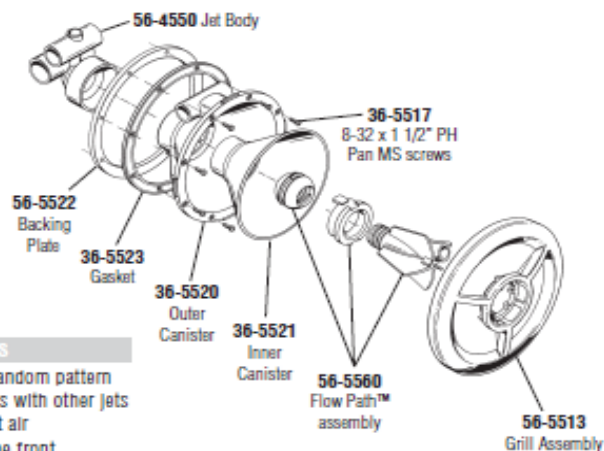
Thera' ssage™ Jet Assembly



16-5550
Jet Assembly
16-5550
16-5550-36

FEATURES

- Provides a continuous random pattern
- Can be operated in series with other jets
- Operates with or without air
- Fully serviceable from the front



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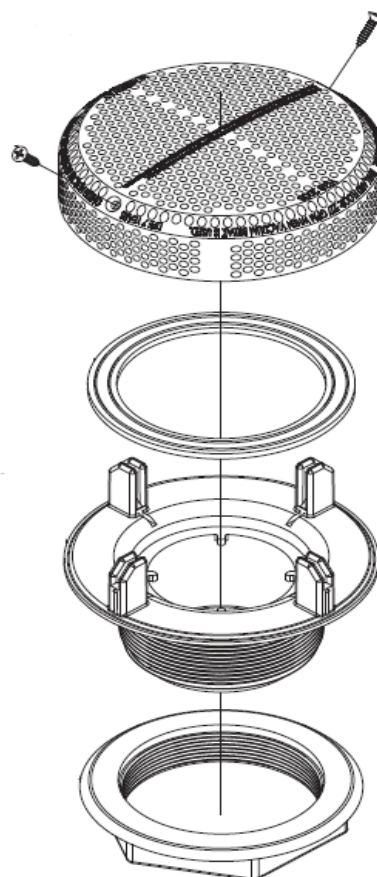
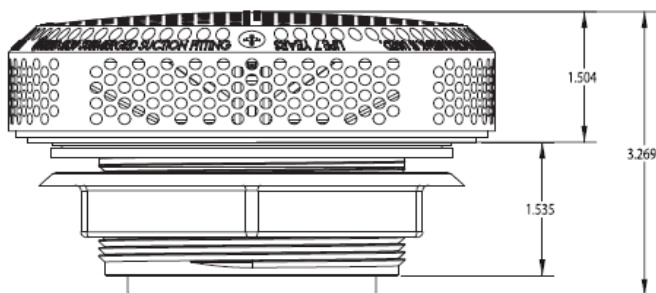
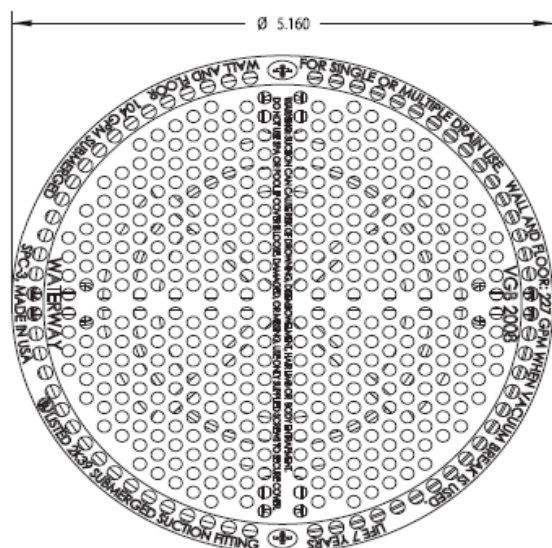
5" Equilizer Fitting



Compliant with the Virginia Graeme-Baker Pool and Spa safety act (ASME/ANSI A112.19.8-2007)

Designed for single or multiple use, assembly includes cover, wall fitting and stainless steel screws

UL Certified



Size	Total Open Area	Wall Flow Rate GPM	Flow Rate GPM @ 1.5 ft/sec
5"	9.02"	180 @ 6.42 Ft/sec	42



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Main Drain



PARAMOUNT'S PATENTED SDX HIGH FLOW SAFETY DRAIN: NOW COMPLIANT WITH THE VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT 2008.

SDX is a high flow suction outlet suitable for use as a wall fitting and also as a floor drain when debris removal is not a concern. A "Retro" version is available to bring existing suction outlet covers into compliance with the new law. SDX Retro fits existing plaster rings up to 10" in diameter.

SDX boasts a flow rating of 200 gpm on the floor and 192 gpm on the wall making it compatible with most residential pumps up to 3 hp.

FEATURES AND BENEFITS

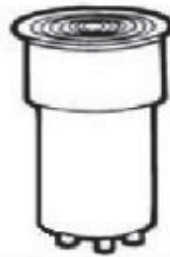
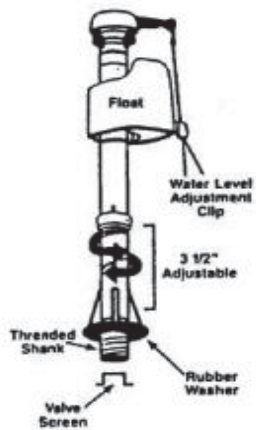
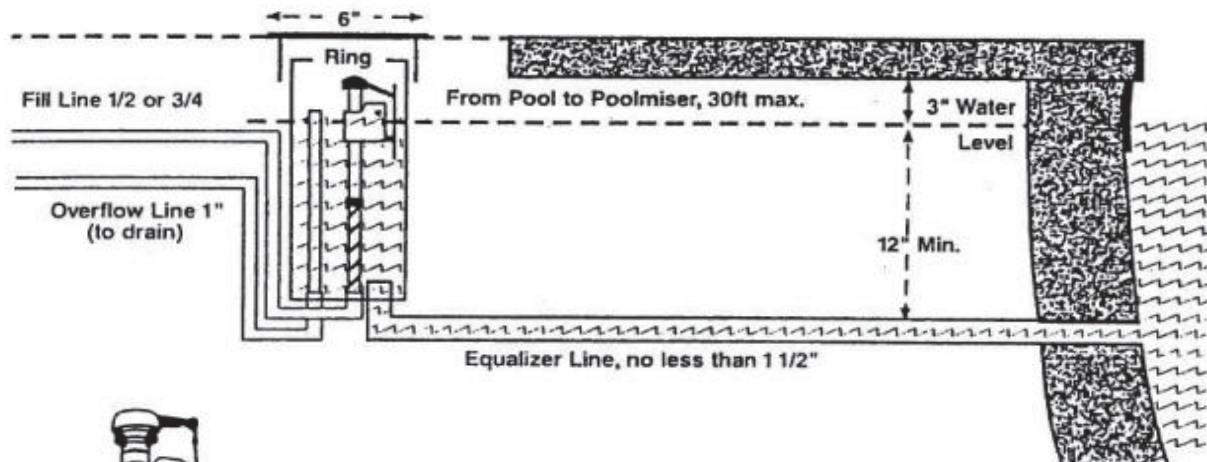
- **NO SUMP REQUIRED** - No need to chisel out a sump to meet the 1.5 times the pipe diameter sump depth requirement.
- SDX has a 1.485 feet per second velocity at the opening at a maximum listed 200 gpm.
- Approved as a bulkhead fitting so the safety is in the cover and plate.
- Patented "ribbed" design achieves high flow with sixty "mini" drains
- Suction doesn't transfer if one area is covered
- Dome shape to prevent a seal by a swimmer
- Anti-vortex shield blocks contact with direct suction
- SDX retro can be installed as a single cover with an SVRS installed on the line.
- "Retro" version fits existing suction outlets up to 10" in diameter
- Stainless steel security screws
- Secondary support plate secured to protect the sump and fittings
- "Equalizer" version eliminates chipping the interior surface around equalizer or smaller surface finished suction lines.



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Water Level Contoller

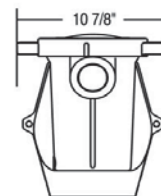
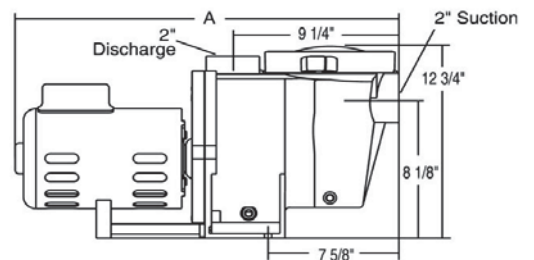
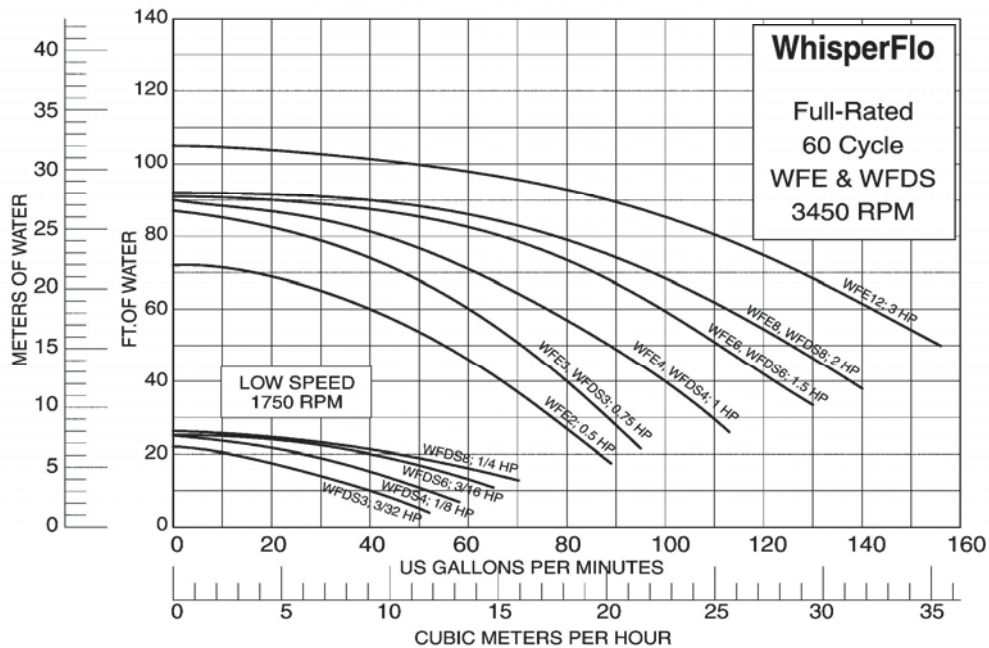


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www.advancedcpg.ca

WhisperFlo High Performance Pump

Pentair Pool Products PUMP PERFORMANCE CURVE WHISPERFLO SERIES PUMP



A - varying length:

1/2 & 3/4 hp = 24.469"
1 hp = 24.72"
1 1/2 hp = 25.22"
2 & 3 hp = 25.72"

Filter Pump

Jet Pump

PART #	MODEL	VOLTAGE	AMP	HP
011578	WF-2	208-230/1/60	10.5/5.4	1/2
011579	WF-3	208-230/1/60	14.2/7.1	3/4
011580	WF-4	208-230/1/60	16.0/8.0	1
011581	WF-6	208-230/1/60	22.4/11.2	1 1/2
011582	WF-8	230/1/60	11.5	2
011583	WF-12	230/1/60	15	3



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L4Z 1R2
TEL: (905) 501-7210
FAX: (905) 501-7211
www.pplgroup.com

Clean and Clear Filter



2" Plumbing for maximum flow and faster water cleaning

Clamp ring for safe and quick access to cartridges

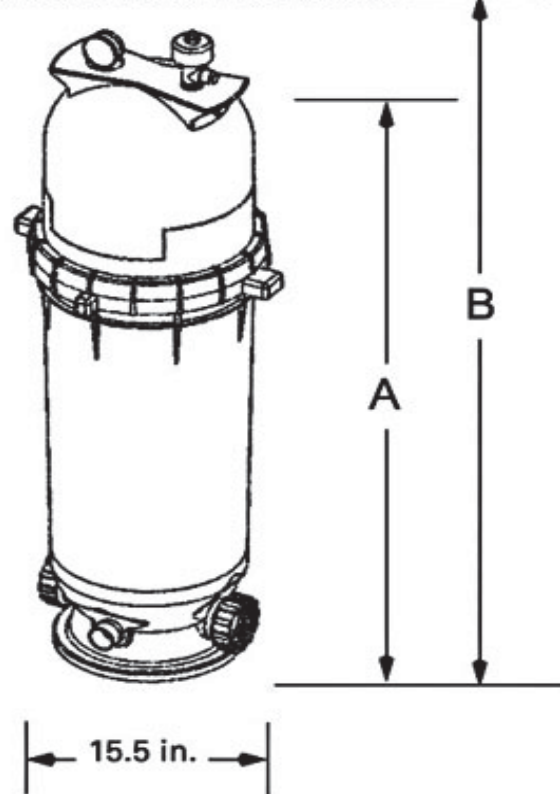
Single piece base and tank are made from fiberglass reinforced polypropylene for strength and corrosion resistance

Easy access 1 1/2" drain for a fast and complete clean out

High flow manual air relief valve and continuous internal air relief work together to maintain optimum filtration efficiency at all times

Maximized filter surface consistency to block and trap the maximum amount of solids

Clearance to remove Filter Module



MODEL	A Dim	B Dim	Sq ft
CC 50	18"	30"	50
CC 75	25 1/2"	39"	75
CC 100	33"	61"	100
→ CC150	40 1/2"	76"	150
CC 200	40 1/2"	76"	200



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www.advancedcpg.ca

Brominator



Efficient and maintenance-free, these durable, corrosion-proof automatic chlorinators and brominators are ideal for new or existing pools or spas and work automatically with your pump and filter

Completely enclosed system, no special venting required

No escaping gases

NSF listed

50 PSI maximum operating pressure



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Solenoid Valve

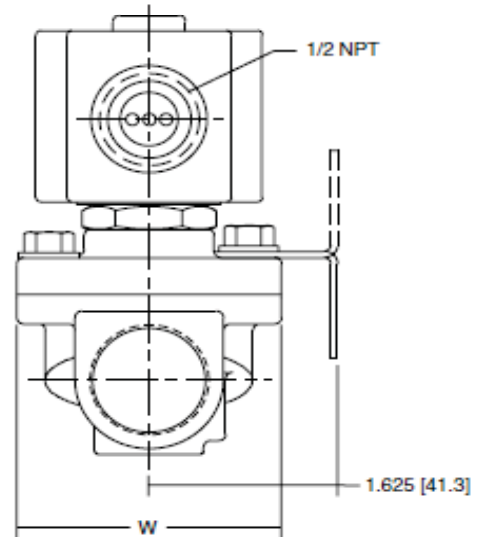
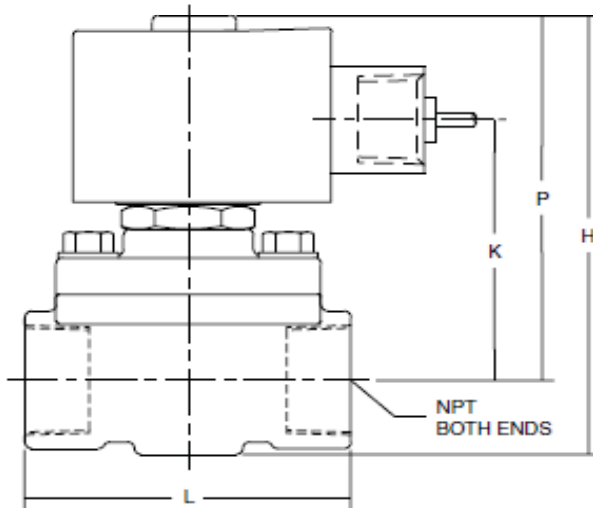


Resilient materials provide long service life and low internal leakage

High Flow Valves for corrosive liquids

Brass Construction

120V 60Hz/110V 50Hz



→

SIZE	H Dim	K Dim	L Dim	P Dim	W Dim
1/2"	3.38"	1.94"	2.75"	2.8"	2.28"
3/4"	4.16"	2.66"	3.84"	3.52"	2.75"



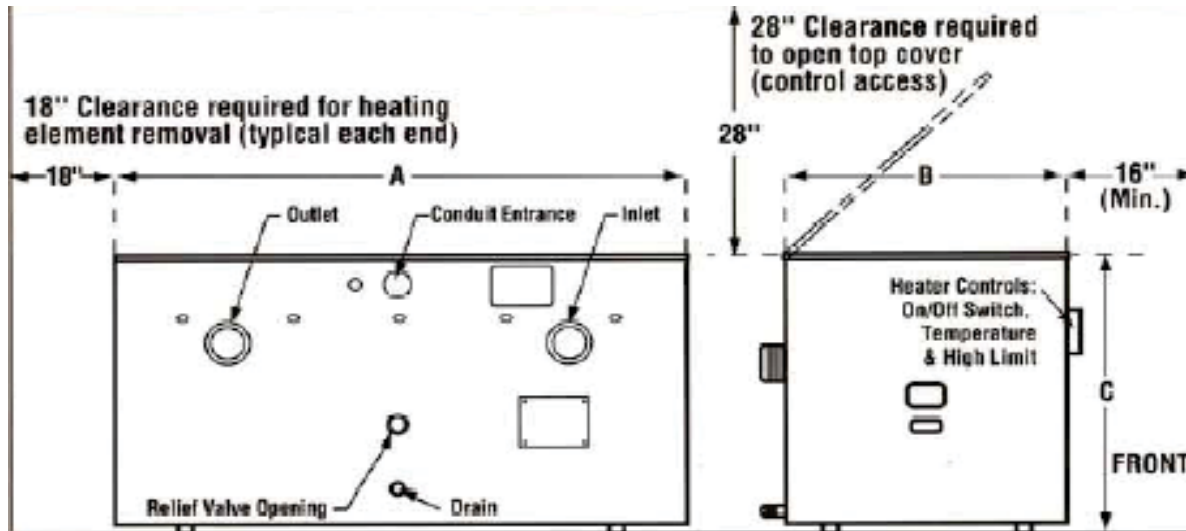
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Coates Heaters 208V



These pool and spa heaters feature a flow switch to prevent operation when there is no water flow and a manual reset high limit switch. An all stainless steel tank for long life and corrosion resistance is also standard



KW	VOLTAGE	AMPS	PHASE	A Dim	B Dim	C Dim
12	208 V	34	3 Phase	18 1/4"	10 1/8"	11 1/8"
15	208 V	42	3 Phase	18 1/4"	10 1/8"	11 1/8"
18	208 V	50	3 Phase	18 1/4"	10 1/8"	11 1/8"
24	208 V	67	3 Phase	24"	12"	13"
30	208 V	84	3 Phase	24"	12"	13"
36	208 V	100	3 Phase	24"	12"	13"
45	208 V	125	3 Phase	24"	12"	13"
54	208 V	150	3 Phase	24"	12"	13"
57	208 V	158	3 Phase	24"	12"	13"



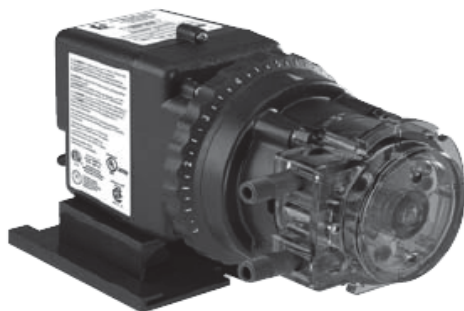
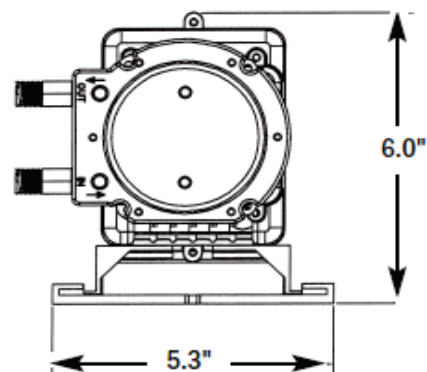
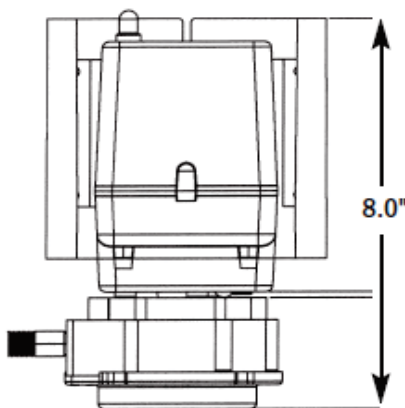
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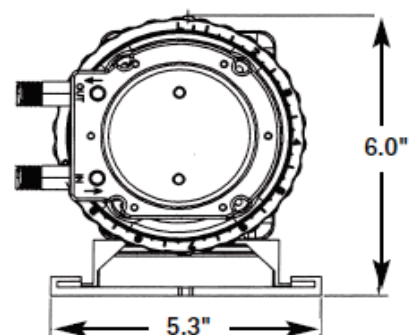
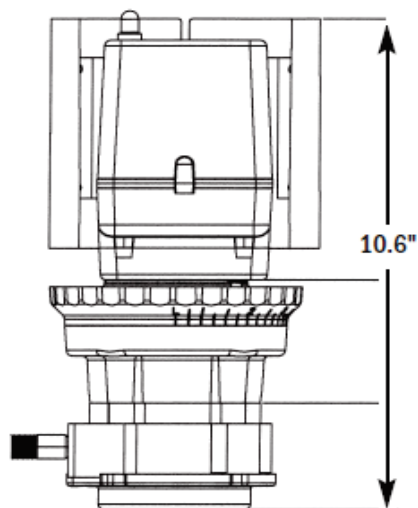
Stenner Peristaltic Feed Pump



**Single Head Fixed Rate
45MP5**



**Single Head Adjustable Rate
45M5**



PART NUMBER	VOLTAGE	AMP	MAX PRESSURE	GALLONS/ DAY	LITRES / DAY	SUCTION/ DISCHARGE
45M5	120V 60Hz	1.7	25 psi (1.7 bar)	2.5-50	9.5-	3/8"
45MP5	120V 60Hz	1.7	25 psi (1.7 bar)	50	189.3	3/8"

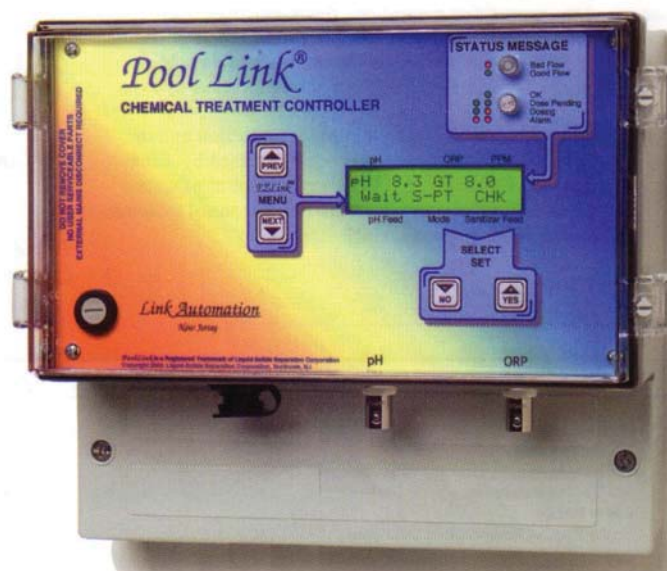


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Chemistry Controller

Pool Link 100
Fully Integrated Programmable Controller
Digital Display with LED Indicators
Proportional, Set Point and Manual Dosing
Lockouts with fail-safe Protection
Balance Water Function
pH Probe
ORP Probe (with ORP control)
Flow Indicators and Flow Switch Input



True Proportional Dosing

Poolink 100 series performs continuous monitoring and correction of pH and sanitizer according to your preset levels.

Operation and Maintenance

Reduction in the time spent manually testing and correcting controlling pool chemistry, freeing time for other duties. Operators often see reductions in chemical use of 20% to 40%. Maintaining the proper pH will help protect mechanical equipment and pool structures from corrosion and scaling

Flow Train

Comes complete with the Flow cell, PH probe, OPR probe, flow switch, 2 shut off valves and a spigot for water quality testing



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Chemical Holding Tank with Lid



MODEL	CAPACITY		I.D X DEPTH Inches cm	WALL Inches mm
	Gallons	Litres		
463-1	5	22	11 x 16 28 x 41	1/8" 3
305-1	12	50	13 x 27 33 x 68	1/8" 3
→ 301-1	15	65	16 x 24 41 x 61	1/8" 3
304-1	25	110	16 x 35 41 x 89	1/5" 5
302-1	30	130	18 x 33 46 x 84	1/5" 5
443-1	30	130	20 x 27.5 50 x 70	1/5" 5
330-1	45	200	22.5 x 35 57 x 87	1/5" 5
469-1	60	270	22.5 x 45 57 x 114	1/5" 5
471-1	75	340	24 x 48 61 x 122	1/5" 5
321-1	100	450	30 x 42 76 x 107	1/4" 6
346-1	125	560	30 x 48 76 x 122	1/4" 6
338-1	150	680	36 x 42 91 x 107	1/4" 6



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Neptune Water Meter

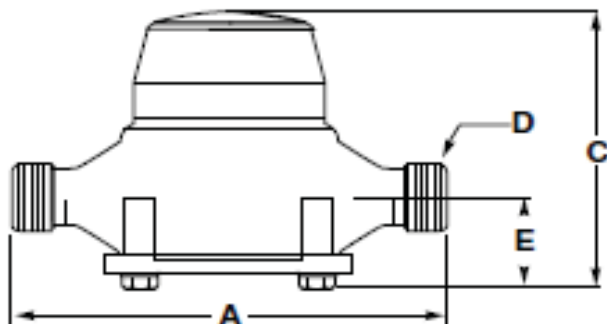
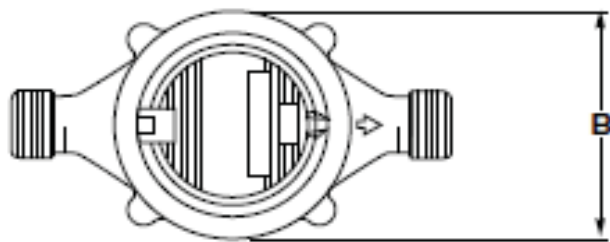


C 700 Positive displacement meter

The C 700 polymer meter complies with all performance and material requirements of the American water works association standard C 710 as well as being NSF-61 certified

The meter must be installed in a clean pipe line, free from any foreign materials. Install the meter with the direction of flow as indicated by the arrow molded into the case

The meter is for use in portable cold water up to 120° F (50° C) and working pressure up to 150 psi. The meter will perform with accuracy registration of 100% $\pm$ 1 1/2% within normal flows



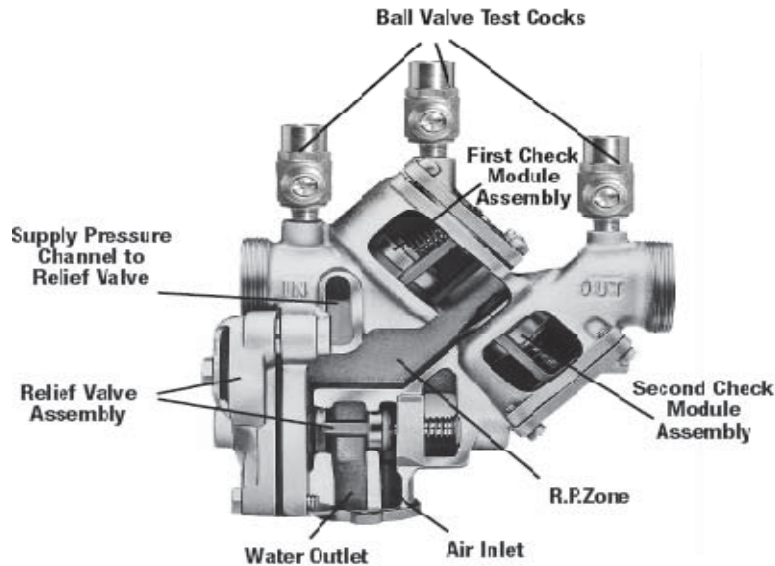
SIZE	A Dim	B Dim	C Dim	D Dim	E Dim
5/8" x 3/4"	6"	3 5/8"	5 5/8"	1.290"	1 5/8"



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L4Z 1R2
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FAX: (905) 501-7211

Watts 909QT Backflow Preventer



Approvals

Listed by IAPMO

Listed by SBCCI



*Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Horizontal and vertical "flow-up" approval on 3/4" and 1" sizes (models 909QT, 909PCQT, and U909QT).

Pressure — Temperature

Temperature Range: 33°F – 140°F (5°C – 60°C) continuous, 180°F (82°C) intermittent

Maximum Working Pressure: 175psi (12.06 bar)

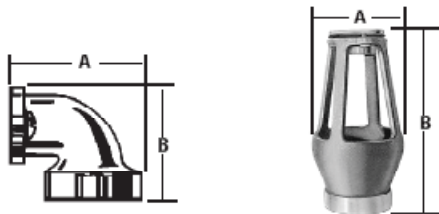
Series 909HW:

Temperature Range: 33°F – 210°F (5°C – 99°C)

Maximum Working Pressure: 175psi (12.06 bar)

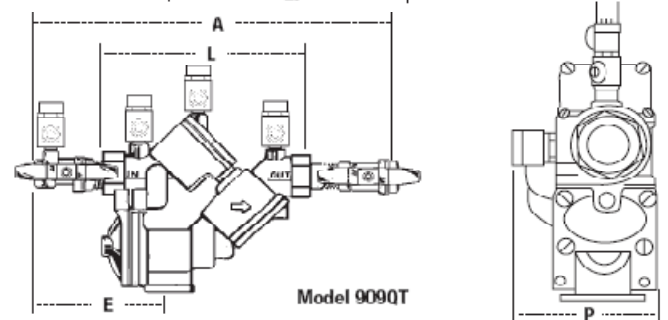
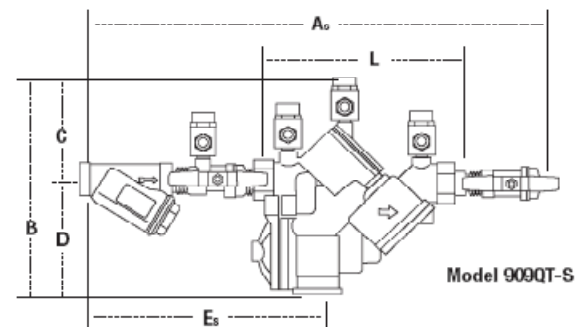
Dimensions — Weights

When installing a drain line use 909AG series Air Gaps on Series 909 backflow preventers. *909EL series elbows are for air gaps on backflow preventers in vertical installations.



Series 909AG Air Gaps

Iron Body No.	Desc.	909 DRAIN		OUTLET		DIMENSIONS				WEIGHTS	
		Sizes		Sizes		A		B		lbs.	kg.
		in.	mm	in.	mm	in.	mm	in.	mm		
909-AG-C	Air Gap	3/4, 1	19, 25	1	25	3 1/4	83	4 7/8	124	1 1/2	.7
909-EL-C	Elbow*	3/4, 1	19, 25	—	—	2 3/8	60	2 3/8	60	3/4	.2
909-AG-F	Air Gap	1 1/4, 2	32, 50	2	50	4 3/8	111	6 3/4	171	3 1/4	1.5
909-EL-F	Elbow*	1 1/4, 2	32, 50	—	—	3 5/8	92	3 5/8	92	2	.9



SIZE (DN)		DIMENSIONS										WEIGHT			
	A	As	B	C	D	E	Es	L	P	QT	QT-S				
	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>in.</i> <i>mm</i>	<i>lbs.</i> <i>kg.</i>	<i>lbs.</i> <i>kg.</i>				

*909QT, 909QT-S Dimensions

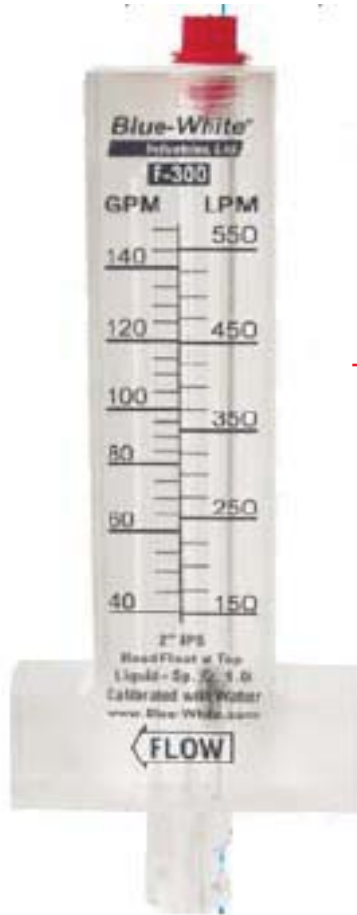
¾"	14%	365	18¼	459	8¾	222	4	102	4¾	121	5¾	171	10%	259	7¾	186	3%	98	14	6.4	15.6	7.1
1"	15%	391	19%	498	8¾	222	4	102	4¾	121	7	178	11	279	7¾	186	3%	98	15	6.8	17.5	7.9
1¼" M1	13%	470	23¾	585	11%	295	5½	140	6½	165	7½	191	12½	310	10%	264	5½	133	40	18.1	42.8	19.4
1½" M1	19	483	24%	619	11%	295	5½	140	6½	165	7½	191	12½	321	10%	264	5½	133	40	18.1	44.0	20.0
2" M1	19½	495	25¼	659	11%	295	5½	140	6½	165	7¾	197	13¼	354	10%	264	5½	133	40	18.1	47.4	21.5



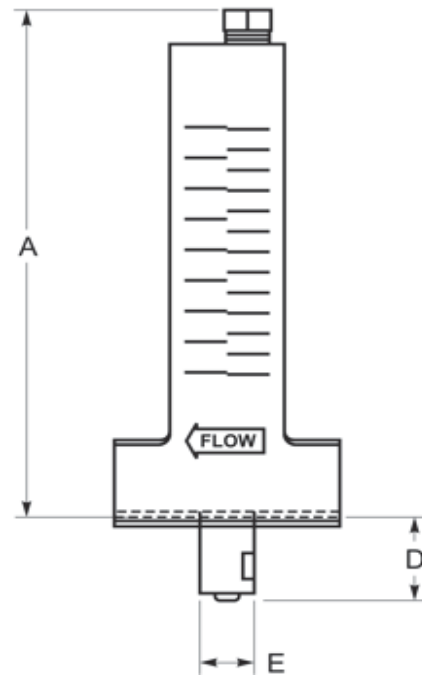
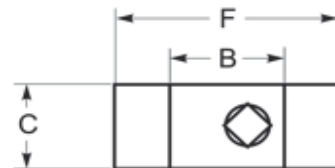
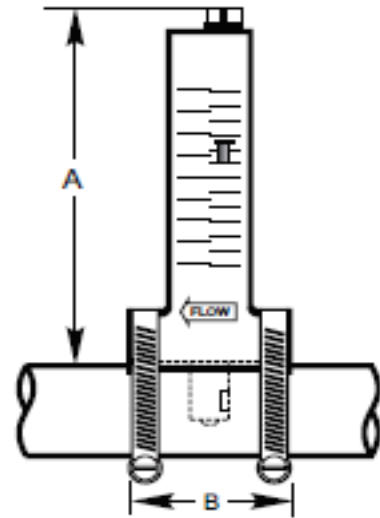
**COMMERCIAL AQUATIC
FITNESS AND SPA GROUP**

135 MATHESON BLVD. EAST
MISSISSAUGA, ONTARIO, CANADA
L4Z 1R2
TEL: (905) 501-7210
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www.advancedcpg.ca

F300 Flowmeter



Size	A	B
1	6"	2 7/16"
1 1/4	6"	3 7/16"
1 1/2	6"	4 7/16"
2	6"	5 7/16"
2 1/2	6"	6 7/16"
3	6"	7 7/16"
4	6"	8 7/16"
6	7 1/2"	9 7/16"
8	8 1/2"	10 7/16"



F-300 Size	Dim A	Dim B	Dim C	Dim D	Dim E	Dim F
1"	6"	1-1/4"	1"	1"	5/8"	2-1/2"
1-1/4"	6"	1-1/4"	1"	1"	5/8"	2-1/2"
1-1/2"	6"	1-1/4"	1"	1"	5/8"	2-1/2"
2"	6"	1-1/4"	1"	1"	5/8"	2-1/2"
2-1/2"	6"	1-1/4"	1"	1-1/2"	5/8"	2-1/2"
3"	6"	1-1/4"	1"	2-1/8"	5/8"	2-1/2"
4"	6"	1-1/4"	1"	2-3/4"	5/8"	2-1/2"
6"	7-1/2"	1-1/4"	1-1/4"	3-5/8"	3/4"	2-7/16"
8"	7-1/2"	1-1/4"	1-1/4"	4-9/16"	3/4"	2-7/16"



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In Line Thermometer

SPECIFICATIONS

Case: Drawn steel case shell, finished in white baked enamel. Case fits directly on the metal bulb shield forming an integral assembly

Indication: Magnifying glass tube filled with red liquid, black temperature scale printed on white case shell

Bulb Shield: Steel zinc plated or brass

T-571, Low connection only, scale may be oriented by rotation of the bulb within its shield, insertion length is 1 3/8"

Connection: T-571 1/2-14 NPT (LM) T-572 1/2-14 NPT (LBM)



Model T-571



Model T-572

MODEL #	BULB SHIELD	CONNECTION	SPEC #
T-571	Steel	1/2-14 NPT LM	56040C
D-57B	Brass	1/2-14 NPT LM	38829C
T-572	Steel	12-14 NPT LBM	19154C
D-52B	Brass	12-14 NPT LBM	38830C



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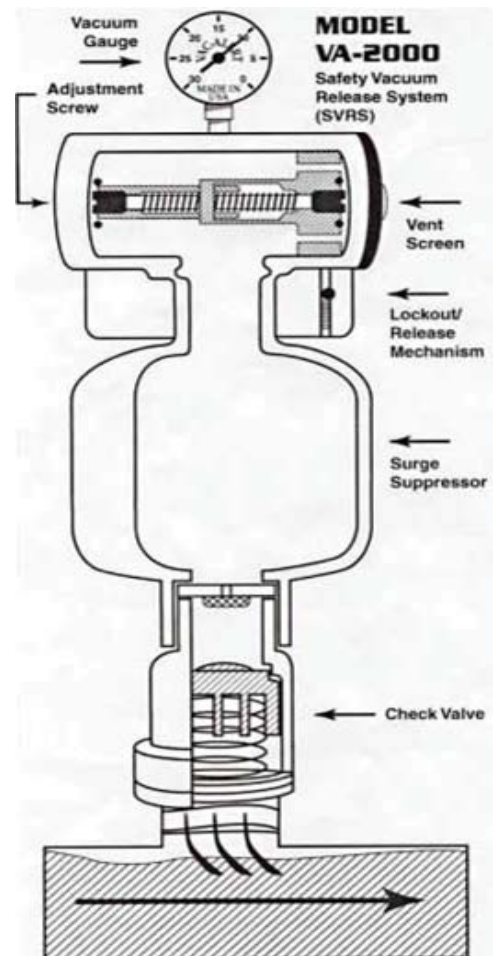
Vac Alert Vaccum Relief System



The Vac-Alert Model VA-2000S is a Safety Vacuum Release System (SVRS) designed for submerged suction applications. Submerged suction in this case applies to all applications where the circulating pump suction is below the level of the pool water surface. This unit incorporates a 0.375" diameter orifice opening installed below the surge tube section. This orifice opening is sized to provide a limited amount of pump start-up surge protection, while at the same time allowing enough air into the piping system to insure dissipation of the dynamic suction force caused by the circulating pump

The Model VA-2000S SVRS unit also utilizes a check valve assembly equipped with a 0.25 pound spring and a non-vented poppet (no poppet disc or hole through the poppet). This check valve assembly utilizes a light duty spring to minimize the sealing force of the check valve. The non-vented poppet insures that water from the circulating system, under a positive hydrostatic head condition, does not migrate up into the SVRS

For pumps operating 24/7 we recommend installation of the VA-2000S (even if it's a lift application situation).

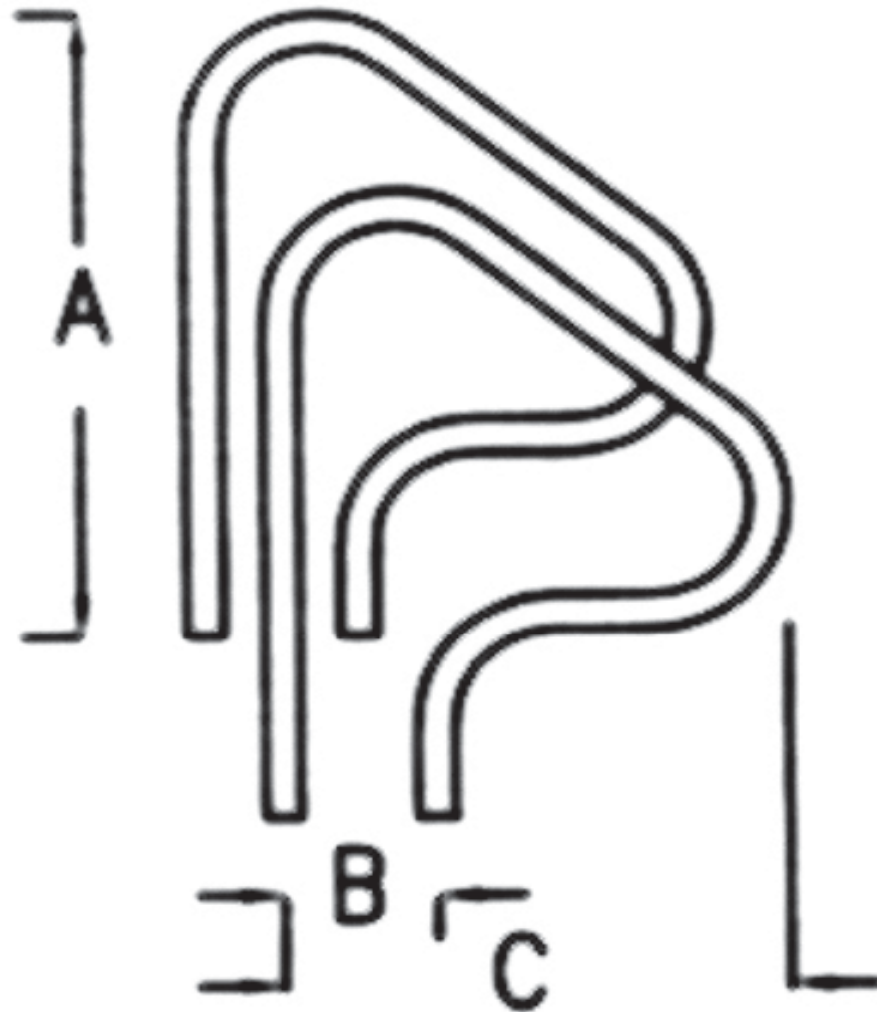


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Grab Rail

Rail shall be supplied with 4 in-wall steps



Deluxe Rail	Slim Rail	Description	A	B	C
SS-GRBS-8	SL-G8	8" Figure 4 (pair)	33"	8"	25"



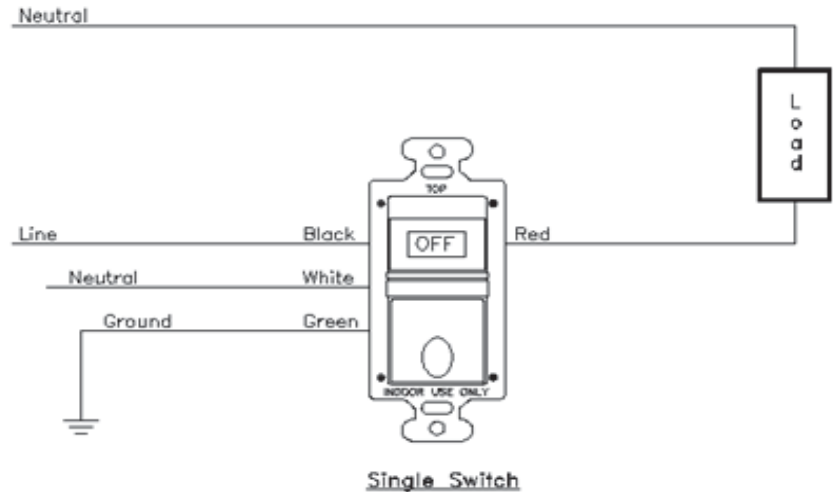
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Spa Safety Controls



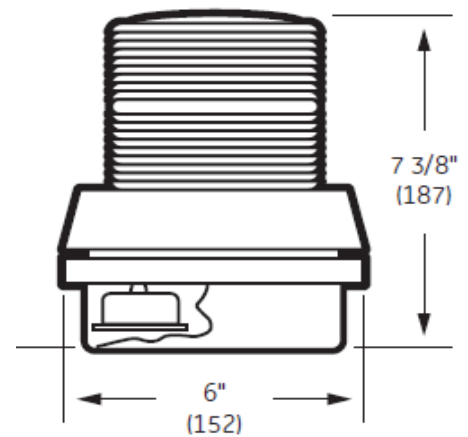
Spa Timer



Emergency Stop Button



VOLATGE	AMP	Hz
120V	0.29	50/60



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Safety Signs

WHIRLPOOL RULES CAUTION

For Your Safety....

1. Avoid using the spa alone.
2. Long exposure to hot water may harm the health of any user. It is recommended that elderly persons, persons with known health or medical conditions (such as heart problems, diabetes and high blood pressure), small children and pregnant women consult with a physician before using the sauna.
3. Overexposure may cause fainting. You should cool down periodically and leave the spa if nausea or dizziness occurs.
4. Avoid using the spa if you have been taking or drugs that cause drowsiness or raise/lower blood pressure.
5. Cool down after vigorous activity before using the spa.
6. Children in the spa, under the age of twelve years, should be accompanied and supervised by a person aged 16 years or more.
7. Enter and exit slowly.
8. Keep breakable objects out of the area.
9. Avoid using the spa if you have an open sore or a rash on the skin.
10. Long hair may become entrapped in the spa

Size: 458mm x 607mm

HEALTH REGULATIONS

NO PERSONS INFECTED WITH A COMMUNICABLE DISEASE OR HAVING OPEN SORES ON HIS OR HER BODY SHALL ENTER THE POOL

NO PERSONS SHALL BRING A GLASS CONTAINER ONTO THE DECK OR INTO THE POOL

NO PERSONS SHALL POLLUTE THE WATER IN THE POOL IN ANY MANNER AND THAT SPITTING, SPOUTING OF WATER AND BLOWING THE NOSE IN THE POOL OR ON THE DECK ARE PROHIBITED

NO PERSONS SHALL ENGAGE IN BOISTEROUS PLAY IN OR ABOUT THE POOL

THE MAXIMUM NUMBER OF BATHERS PERMITTED ON THE DECK AND IN THE POOL AT ANY TIME IS:

THE NEAREST EMERGENCY TELEPHONE IS LOCATED AT: _____

THE ABOVE REGULATIONS ARE FOR YOUR HEALTH AND SAFETY PLEASE OBEY THEM AND THE LIFEGUARDS AT ALL TIMES

EMERGENCY STOP BUTTON

EVERY OWNER SHALL ENSURE THAT ALL PUMPS USED IN THE OPERATION OF THE PUBLIC SPA ARE CAPABLE OF BEING DEACTIVATED BY AN EMERGENCY STOP BUTTON THAT:

* IS SEPARATE FROM THE SPA'S TIMING DEVICE

* IS LOCATED WITHIN THE IMMEDIATE VICINITY OF THE SPA: AND _____

* ACTIVATES AN AUDIBLE AND VISUAL SIGNAL WHEN USED. O. REG. 428/5. S. 14 (1)

EVERY OWNER SHALL ENSURE THAT THE FOLLOWING NOTICE IN LETTERS AT LEAST 25 MILLIMETERS HIGH WITH A MINIMUM FIVE MILLIMETER STROKE IS POSTED ABOVE THE EMERGENCY STOP BUTTON

IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY STOP BUTTON AND USE EMERGENCY PHONE. AN AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE

Size: 1050mm x 732mm

CAUTION

THIS POOL IS UNSUPERVISED
BATHERS UNDER TWELVE YEARS OF AGE
ARE NOT ALLOWED WITHIN THE POOL
ENCLOSURE UNLESS ACCOMPANIED BY
A PARENT OR HIS/HER AGENT WHO IS
NOT LESS THAN SIXTEEN YEARS OF AGE

EMERGENCY STOP BUTTON

Size: 400mm x 176mm

EMERGENCY TELEPHONE

Size: 400mm x 176mm

PUBLIC SPA JET PUMP TIMER SWITCH

Size: 400mm x 239mm

NOTICE

EACH BATHER SHALL TAKE A **SHOWER** USING
WARM WATER AND SOAP, AND THOROUGHLY
RINSE OFF ALL SOAP BEFORE ENTERING AND
RE-ENTERING THE DECK

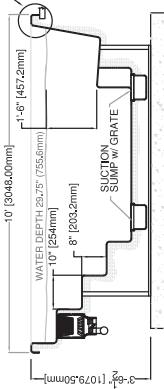
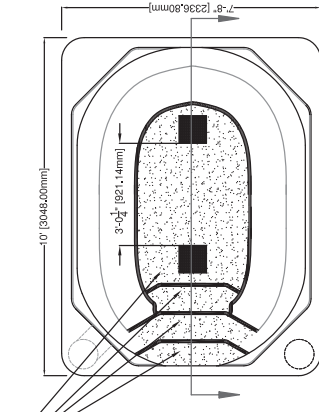
Size: 400mm x 196mm



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SHELL DIMENSIONS				WEIGHT FULL		SURFACE AREA	
Dimensions differ between Spas. Exact measurements should be obtained from purchased Spa.				WEIGHT EMPTY		48 sq ft (4,232sq in)	
LENGTH	WIDTH	HEIGHT	VOLUME: @ 650 G/L / 2457 Lt	750 lbs / 340 kg	7812 lbs / 3550 kg		
120" / 304.8cm	92" / 233cm	42.5" / 108cm					



SPECIFICATIONS

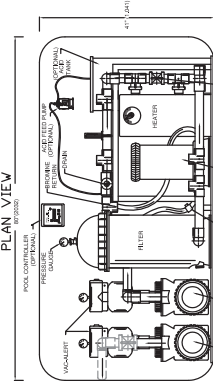
1.1 The shell of the hot tub shall be manufactured of vacuum formed acrylic (.187" sheet) in one of two colours: Biscuit (Ivory Bone), Caribbean Quarite (Medium Blue).

- 1.1 The shell of the hot tub shall be constructed of vacuum formed acrylic (187 shell) in two colours: Biscuit (Ivory Bone), Caribbean Quilted (Dark Teak). The acrylic shall be reinforced with fibreglass resins but require no additional on-site bracing supports (customer's responsibility) under the seat and seats.
- 1.2 The acrylic shall have the following fittings:
 - 1.1 Large hydrotherapy jets
 - 7 Medium hydrotherapy jets
 - 5 Medium hydrotherapy jets (N.S.F. Listed)
 - 1 Wide mouth skimmer (N.S.F. Listed)
 - 2 Air control jets
 - 2 Air control jets
 - 1 Water level tank with removable grate
 - 1 Water level tank fitting with remote water level control tank
 - 3 Filtered water return lines
- 1.3 The hot tub will be insulated with a coating of polyurethane foam, factory plumbed and hydrostatically tested.
- 1.4 The hot tub shall be finished with a decorative plastic top cover and a separate plastic bath cover. The support system will be shipped on a pallet.

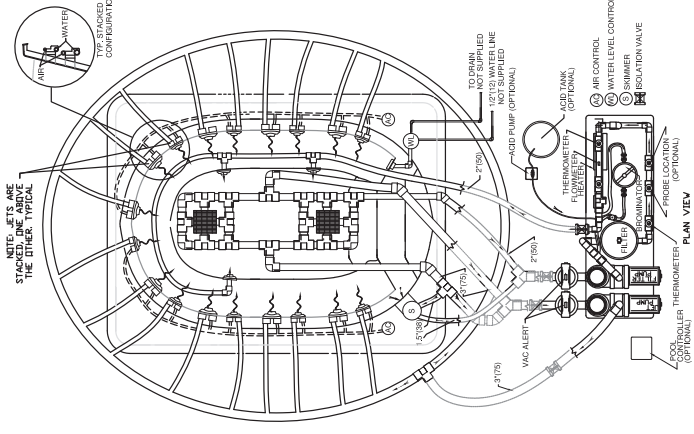
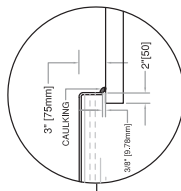
- 1 3/4hp filter pump (N.S.F. Listed)
- 1 150 sq.ft. cartridge filter 9N.S.F. Listed)
- 1 3 hp hydrotherapy booster pump (N.S.F. Listed)
- 1 15 kw electric heater c/w flow switch
- 2 Inline thermometers c/w thermowell
- 1 Inline flowmeter
- 1 Lick-Chobinets Controller *

1. Bromtriaz (N.S.F., Liscati) with normally closed solenoid valve *
2. Feed pump with 15 gal solution tank, c/w lid *
3. 10 Minute timer for jet pump c/w contactor
4. Water level controller with overflow (located at the shell)
5. VZK2000 Vacuum Helastex devices (ASME A12.1917-2002 Liscati) *
6. Optional handrail with anchor and escutcheon plates of deck, tang.
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 installation is **NOT** covered.
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.
 - Deck, deck framing, deck fasteners, deck finish, deck components.
 - Supports under the seats and steps of the shell.

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



VALVE ☒ BROWNIATOR ☒



SPA VOLUME 650 usg
 2461 Litre
 TURNOVER 15 minutes
 FILTER FLOW RATE
 43 usgpm @ 60" I.D.H.
 162.7 LPM @ 17.32 M hd
 FILTER AREA 150 sq.ft.
 13.9 sq.mt.
 OPERATING @ 266 usgpm/sq.ft.
 @ .19 L / S / M².
 FILTER PUMP 3/4 hp

- 20 HYDROTHERAPY FITTINGS
11 SMALL OPERATING @ 10 usgpm/ 37.8 Lpm
7 LARGE OPERATING @ 5 usgpm/ 18.9 Lpm
HYDROTHERAPY FLOW RATE
145 usgpm @ 60" TDH
624.6 LPM @ 17.92 M hd
HYDROTHERAPY PUMP 3 hp
TOTAL FLOW RATE
188 usgpm/ 712 Lpm
TOTAL OPEN AREA OF MAIN DRAINS
73.5 sq.ft/ 474 sq.cm.
VELOCITY THROUGH MAIN DRAINS
.82 ft./sec/ 0.2499 m. /sec

NOTE: IT IS THE RESPONSIBILITY OF THE INSTALLER/OWNER TO VERIFY THAT THE SPA, EQUIPMENT AND SYSTEMS COMPLY WITH CODE REQUIREMENTS.

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1	Oct-19/11	Checked by BRB
No.	Date	Description
Revisions		

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

Project	HYDROTHER Model H - 100 C	
Drawn By	brb	Model Year
Scale	n.t.s.	1
Date	Oct-19/11	
Ch'd By	dp	
Job No.	6002007	