

# SANTECO CONSTRUCTION

Supplies and Services



DESIGN AND BUILD OF HOT AND COLD WATER SUPPLY  
SYSTEM / SWIMMING POOL CONSTRUCTION /  
PREVENTIVE MAINTENANCE



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# COMPANY PROFILE



**SANTECO CONSTRUCTION Supplies and Services** is a Design, Build and Supply company for plumbing and mechanical works.

It was founded by its owner **Mr. Michael Santeco**, on **March 27, 2014** with the goal to cater Engineering Solutions for plumbing and mechanical works.

Today the services offered by the company is soon to expand further its horizon.

Fueled by the Ten years of wide experience of the owner in the industry of designing, building and supplying of plumbing and

mechanical works from mid-rise to high-rise buildings, hotels, hospitals, convention centers, resorts and other infrastructures, the company guarantees to provide analytical and innovative approach to ensure optimum, quality and affordable solutions to the client's requirements.

## MISSION

*To provide quality and optimum Engineering solutions for plumbing and mechanical works and at the same time to enhance good customer relationship.*

## VISION

*To be one of the leading and most trusted plumbing and mechanical solutions company involved in designing, building and supplying services.*

**COOL WAVES Swimming Pool Construction** brings a wealth of pool design, planning, engineering and construction designers to provide clients with inspirational pools, completed to exceptional standards, on time and on budget.

## SERVICES

### 1. Design and Build (Hot and Cold Water System)

### 2. Equipment Installation

- Heat Pump Water Heater
- Electric Water Heater
- LPG Gas Fires Water Heater
- Solar Water Heater
- Domestic and Commercial Pumps
- Storage Tanks
- Bladder
- Pool and Spa Filtration System

### 3. Preventive Maintenance of Heating System

### 4. Pipe Cladding

### 5. Energy Consumption Audit

### 6. Pool Construction

( Lap, Infinity, Above Ground, In-ground Standard etc.)

## Distributor of High Quality product such as:

- Hydromax Heat Pump Water Heater
- Hydromax Hot Water Storage Tanks
- Hydromax Hot Water Pump
- Hydromax Solar Water Heater
- Goulds Booster, Transfer, Submersible Pumps
- EcoPower Generator Set
- Mega Fusion PPR Pipe & Fittings
- Emaux Swimming Pool Products





A NEW GENERATIONS HEAT PUMP that are well engineered to withstand highly corrosive environment in the Philippines. The components are all custom made to assure its performance will last for a very long time

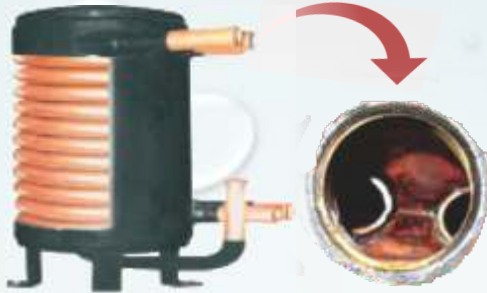


**EVAPORATOR (HEAT ABSORBER)** – This Heat Pumps is fully reversible, it produce cold air when creating a hot water as a by-product and hot air when producing a cold water. It uses a high quality outdoor condensing coil as a heat absorber and it can resist highly corrosive environment specially if the equipment is installed near sea area. This material is commonly used by outdoor unit of an a split type air-condition.

**HEAT EXCHANGER (CONDENSER)** – It uses a well design shell and tube type of heat exchanger and it is proven to withstand poor water quality.



**ASTM B88 STANDARD SPECIFICATION FOR SEAMLESS COPPER WATER TUBE Type K 1.65 mm Hard Drawn Copper Pipe**



**Copeland**  
brand products



**HYDROMAX MULTI- FUNCTION LCD TOUCH SCREEN CONTROLLER**



Lighter and gives a clearer vision when monitoring the heat pump during day time or night fall. The LED back-light and its inverted color combined with 50mm Digital code display makes it visible during night time. Touch screen control gives less maintenance and more convenience to use.



Electronic Thermal Expansion Valve  
- to ensure top quality and high efficiency as much as 75% savings

The first heat pump water heater in the Philippines that is capable to produce **80°C (176°F)** of hot water for industrial and manufacturing applications. It is good for sanitation and indirect heating purpose.

**80°C**

**80°C HIGH TEMPERATURE HEAT PUMP WATER HEATER**



Model Number		ARG-03H	ARG-05H	ARG-07H	ARG-10H	ARG-15H	ARG-25H
Refrigerant		Copeland Scroll Compressor / R134A					
Testing Condition		1. Dry-bulb temperature 20c, 2. Wet-bulb temperature 15°C, 3. Water temp. rises 40°C					
Rated Heat Production Capacity	KW	9	18	26	36	49	85
	BTU/h	30717	61434	88738	122868	167.237	290105
Rated Temp.	°C	65					
Max. Temp.	°C	80					
Rated Input	KW	2.4	4.8	6.9	9.7	13.2	23
COP	W/W	3.7	3.7	3.7	3.7	3.7	3.7
Power	V/PH/HZ	220/1/60	230-380/3/60	230-380/3/60	230-380/3/60	380/3/60	380/3/60
Sound Level	Db (a)	65	65	65	68	71	71
NPT Prov.	Inch	G1"	G1"	G1"	G1 1/2"	G1 1/2"	G2 1/2"
Heat Exchanger		Copper Pipe In Steel Case Heat Exchanger					
Outline Dimension	L x W x H	710*710*850	810*810*1055	810*810*1355	1450*705*1370	1750*1050*1900	2000*1100*2300
Packing Dimension	L x W x H	840*840*1030	950*950*1250	950*950*1550	1680*950*1600	1900*1160*2110	2200*1300*2450
Net Weight	KG	100	147	180	400	540	590
Gross Weight	KG	115	170	200	440	300	650





**SPA- AND POOL HEAT PUMP WATER HEATER**



Recommend Pool Size		30-40m3	40-50m3	50-60m3	50-60m3	100-125m3	250m3
		ARG-03STI	ARG-04STI	ARG-05STI	ARG-05STI	ARG-10STI	ARG-20STI
Air /Water 24°C/26°C	Output Power (KW)	15.11	19	22	22	44	90
	Input Power(KW)	2.9	3.95	4.1	4.2	8.4	16.98
	COP	5.3	5.3	5.3	5.3	5.3	5.3
	Current	13.3	18	18.6	7.5	15	25.7
Air /Water 15°C/26°C	Output Power (KW)	12.1	15.2	17.6	17.6	35.2	81
	Input Power(KW)	2.602150538	2.986247544	3.52	3.52	7.04	16.88
	COP	4.65	5.09	5	5	5	4.8
	Current	10.64	14.4	14.88	6	12	25
Air /Water 7°C/26°C	Output Power (KW)	7.555	9.5	11	11	22	70
	Input Power(KW)	1.927295918	2.235294118	2.558139535	2.558139535	5.11627907	16.28
	COP	3.92	4.25	4.3	4.3	4.3	4.3
	Current	6.65	9	9.3	3.75	7.5	24.6
Electric Power		220V/60Hz/1Ph	220V/60Hz/1Ph	220V/60Hz/1Ph	380V/60Hz/3Ph	380V/60Hz/3Ph	380V/60Hz/3Ph
Heat Exchanger		Titanium Tube Heat Exchanger					
Refrigerant		R410A					
Remote		5meter Signal Wire					
Cabinet		Galvanized steel sheet and sprayed baking paint					
Water Connection Port(mm)		Exterior 50mm/ Interior 40mm					
Fan Power Input (w)		200	400	400	400	400	1000
Fan Power Output(w)		90	250	250	250	250	500
Fan (RPM)		850	850	850	850	850	850
Noice dB(A)		49	49	55	55	58	71
Water Flow Rate(m3/h)		8~10	10~12	12~15	12~15	20~25	35~40
Water Pressure Drop (Kpa)		14	14	15	15	16	20
Product Dimension(mm)		710*710*850	810*810*1055	810*810*1055	810*810*1055	1450*705*1180	2000*1100*2060
Packing Dimension(mm)		840*840*1030	950*950*1250	950*950*1250	950*950*1250	1680*950*1400	2200*1300*2500
Net Weight(kgs)		100	112	147	147	260	560
Gross Weight(kgs)		115	122	170	170	290	600

**STANDARD 60°C HEAT PUMP WATER HEATER**



Model Number		ARG-05S	ARG-05S	ARG-10S	ARG-13S	ARG-20S/25S
Refrigerant		Copeland Scroll / R417A				
Features		1. Working Ambient Temp.: 0° C to 40 ° C 2. Max. Water Outlet Temp.: 60° C				
Rated Heating Capacity	KW	18	18	36	45	74/90
	BTU/h	61434	61434	122868	153585	252562/307170
Rated Temp.	°c	55				
Max. Temp.	°c	60				
Rated Input	KW	4.8	4.8	9.5	11.84	19.5/23.7
Rated Current	A	30	12.44	19.14	23.92	39/48
COP	W/W	3.8	3.8	3.8	3.8	3.7
Power Supply	V/PH/HZ	220~240/1/60		380~415/3/60		
Sound Level	dB(a)	65	65	68	68	68
NPT	Inch	G1"	G1"	G1½"	G1½"	G2½"
Condenser		Copper Pipe In Steel Case Heat Exchanger				
Outline Dimension	L×W×H	810*810*1055	810*810*1055	1450*705*1180	1450*705*1180	2000*1100*2300
Packing Dimension	L×W×H	950*950*1250	950*950*1250	1680*950*1400	1680*950*1400	2200*1300*2450
Net Weight	KG	130	130	260	400	400/560
Gross Weight	KG	160	160	300	460	460/620

**DOMESTIC 60°C HEAT PUMP WATER HEATER**



Model Number		KF100-X	KF140-X	KF200-X
Power Supply	V/PH/HZ	220~240/1/60		
Refrigerant & Compressor		R417A / GMCC		
Air Discharges		Side Discharge Air Outlet		
Rated Heat Capacity	KW	4.7	7.2	10.3
	BTU/h	16041	24574	35154
Rated Temp.	°c	55		
Max. Temp.	°c	60		
Rated Input	KW	1.24	1.89	2.71
Current	A	9.45	11.37	14.74
COP	W/W	3.8	3.8	3.8
Sound Level	dB(a)	55		
NPT	Inch	G¾"		
Heat Exchanger		Shell Type Heat Exchanger		
Dimension	L×W×H(mm)	930×360×560		1000×370×630
Packing Dimension	L×W×H(mm)	1070×380×590		1130×380×660
G.W/ N. W	KG	53/50	58/55	74/70



# HYDROMAX

## HOT WATER STORAGE TANKS

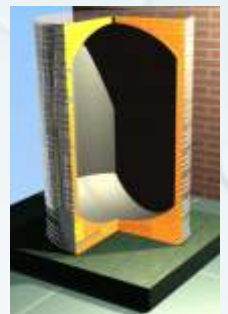


TECHNICAL SPECIFICATION				
MODEL	HMT-520	HMT-1000	HMT-1500	HMT-3000
STORAGE CAPACITY	520 L	1000 L	1500 L	3000 L
WORKING PRESSURE	10 BAR			
GALLONS	137 GAL	265 GAL	396 GAL	792 GAL
INNER TANK MATERIAL	SS316			
HEATING COIL AREA (m <sup>2</sup> ) (optional)	2	2.7	4	8
HEATING COIL AREA MAX. PRESSURE	16 BAR			
HEATING COIL SIZE	32 mm			
IN SULATION	NON-CFC FOAM INSULATION			
THICKNESS (mm)	50			
DIMENSION (H x DA)	1300x850	1870x1000	2000x1100	2000x1380
WEIGHT (EMPTY)	150kg	180kg	210kg	370kg

**HYDROMAX CALORIFIERS-** Hot Water Storage Tanks are using Stainless Steel 316 Inner tank to withstand hard water qualities with in highly corrosive in environment such as coastal areas. It protects both the inner and outer shell of the tank to sustain the life expectancy of the tank and can also be installed outdoor.

**SPECIAL DESIGN HEAT EXCHANGER-** Made of 316 Stainless Steel tube to withstand hard water quality.

MODEL	A	B	C
HMT-520	850	1300	2"
HMT-1000	1000	870x1000	2"
HMT-1500	1100	2000	2"
HMT-3000	1380	2000	2"



**New Technology-** Water storage is adopted to the advanced technology of vitreous enamel inner tank, which fuses to solid steel at about 900°C. The result is a smooth and tough surface that effectively resist the corrosive attacks of hot water chemicals; thus ensuring a long life span of water tank.

### Best Materials

Enamel: Imported from USA Ferro who is the world =wide biggest enamel manufacturer.

Inner tank steel: from Baosteel, one of Worlds biggest steel manufacturer;

Steel surface cleaning Grit: Imported from French W Abrasives;

Pressure and Temperature Relief Valve: imported from Canadian Watts;

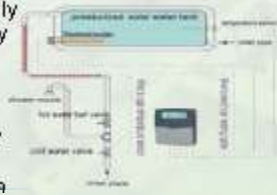
**Insulation protection** - CFC free polyurethane foam insulation is injected and surrounds the inner tank, filling the space between the inner tank and outer tank thus providing an exceptionally good heat retention barrier. This helps to reduce the energy cost by minimizing standby heat loss.

**Electric Element** - High quality immersion type element ensures long lasting performance with choice of various heat input (kw) offering different hot water recovery rates.

**Anode Protection** - Each tank is provided with a magnesium anode rod to protect it against corrosion, a process well proven in years of application.

**Safety Protection** - Each tank is provided with a pressure and temperature relief valve (P/T valve). It protects the tank against excessive pressure and temperature by releasing its contents safely to the floor trap via the drain pipe.

**Customized-** We can make the customized tanks according to customer's request



## HYDROMAX

HIGH EFFICIENCY SOLAR WATER HEATING SYSTEM



MOLDEL	100L	300L
<b>Water Tank</b>		
Tank Capacity	100L	300L
Inner Tank	High-quality Enameled steel, Thickness 2.5mm	
Outer Tank	Galvanized steel, 0.5mm	
Tank In sulation	Polyurethane foa, 50mm	
Connection	3/4"	
Working Pressure	7 bar	
P/T	Included	
Magnesium anode	Included	
Electric Heater	1.5kw, 2.0kw, 2.5kw	
Check Valve	Included	
<b>Flat plate solar collector</b>		
Header	Copper TP2 Ø22 x 0.8	
Riser Tubes (mm)	Copper TP2 Ø10 x 0.6	
Absorber coating	Black Chrome	
Surface Area	2m <sup>2</sup>	4m <sup>2</sup>
Welding	Laser	
Absorption	97% ± 2%	
Emissivity	10% ± 2%	
Insulation	Rock wool, 40mm	
Material	Aluminum alloy 6063	
Frame	Aluminum alloy 6063	
Frame Color	Silver / Black	
Cover Glass	Low iron textured tempered glass	
Cover Glass thickness	3.2 mm	
Glass Transmittance	>92%	
Testing Pressure	12 bar	
Back Sheet	Galvanized steel	
<b>Supporting stand</b>		
Material	Aluminum alloy 6063	
Installation	Sloping roof	



# HYDROMAX

HOT WATER STORAGE TANKS

**Best Materials**

Enamel: Imported from USA Ferro who is the world =wide biggest enamel manufacturer  
 Inner tank steel: from Baosteel, one of Worlds biggest steel manufacturer;  
 Steel surface cleaning Grit: Imported from French W Abrasives;  
 Pressure and Temperature Relief Valve: imported from Canadian Watts;  
 Thermostat: imported from USA Emerson;  
 Electric Element: from Japanese company Kawai.

**Insulation protection** - CFC free polyurethane foam insulation is injected and surrounds the inner tank, filling the space between the inner tank and outer tank thus providing an exceptionally good heat retention barrier, This helps to reduce the energy cost by minimizing standby heat loss.

**Anode Protection** - Each tank is provided with a magnesium anode rod to protect it against corrosion, a process well proven in years of application.

**Compliance** - Australian certification **WaterMark**, International electrical safety certification **IEC60335**, and European certification **CE**

**Electric Element** - Low density Incoloy 800 immersion type element ensures long lasting performance with choice of various heat input (kw) offering different hot water recovery rates.

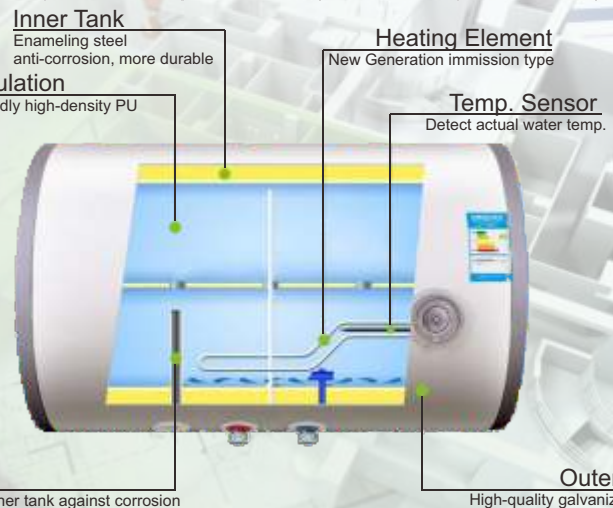
**Safety Protection** - Each tank is provided with a pressure and temperature relief valve (P/T valve). It protects the tank against excessive pressure and temperature by releasing its contents safely to the floor trap via the drain pipe.

**New Technology** - Water storage tanks are adaptable to the advanced technology of vitreous enamel inner tank - HYDROMAX Enamel Blue Inner Liner, which fuses to solid steel at about 900°C. The result is a smooth and tough surface that effectively resist the corrosive attacks of hot water chemicals, thus ensuring a long life span of water tank, **especially suitable for the areas of hard water.**



MODEL	LITERS	GALONS	Surface Area (m2)	Electric Back-up	Dimension
SG-200	200	53	0	3	ø528x1478
SG-300	300	79	1.94	2.5	ø650x1510
SG-400	400	106	2.25	3	ø718x1560
SG-500	500	132	3.4	3	ø718x1700

MODEL	LITERS	GALONS	Surface Area (m2)	Electric Back-up	DIMENSION
30L	30	8			382x618



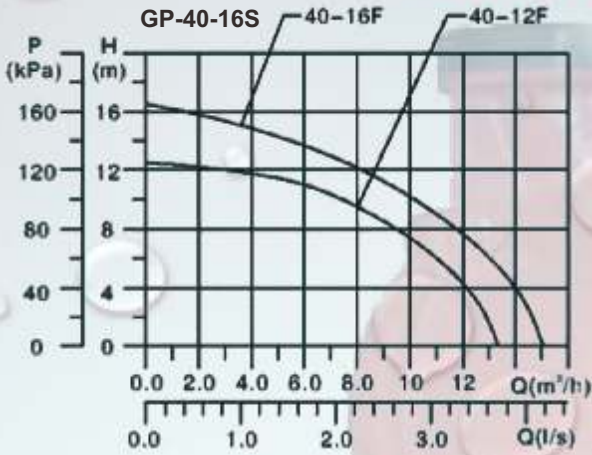
## HYDROMAX

HOT WATER STORAGE TANKS

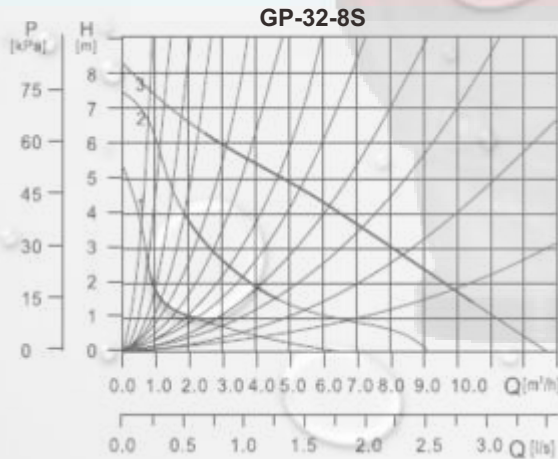


# HYDROMAX

## HEAVY DUTY HOT WATER CIRCULATOR



GP25-8S



GP32-8S

**110°C Maximum Working Temperature -**  
Design to withstand very high water temperature.

**Self Lubrication -**  
Bearing less design to be more reliable during operation and longer running time.

**Water cooled system -**  
The pump is design to run 24/7 without overheating

**Low noise operation -**  
Quiet operation can be installed inline system or floor mounted system no need for isolators

**Fractional Type Pump -**  
Energy Efficient, Low wattage operation



Model	GP 25-8S	GP 32-8S	GP 40-16F
Head (meter)	4 - 8	3 - 8	8 - 16
Flow (cu. Meter/hr)	2 - 6	2 - 8	2 - 12
Power Supply	230V/1PH/60HZ	230V/1PH/60HZ	230V/1PH/60HZ
Current (Ampere)			
A. Low Settings	0.6	0.6	Single Speed
B. Medium Settings	0.85	0.85	Single Speed
C. High Settings	1.1	1.1	4.9
Connections	1" Union	1 1/4" Union	1 1/2" Flange



# HYDROMAX

## TANKLESS INSTANT WATER HEATER



Voltage: 220V  
 Model: HIM10055  
 Power : 5.5kw / 8kw  
 Electric Current: 0-30A / 40 A  
 Hydraulic Pressure: 3 PSI  
 Waterproof Degree: IPX4  
 Max. Temperature: 50  
 Material: ABS panel : ABS panel  
**Multipoint water supply**



Voltage: 220V  
 Model: HIS10035  
 Power : 3.5kW  
 Electric Current: 0-20A  
 Hydraulic Pressure: 3 PSI  
 Max Temperature: 50  
 Waterproof Degree: IPX4  
 Material : ABS panel  
**Single Point**

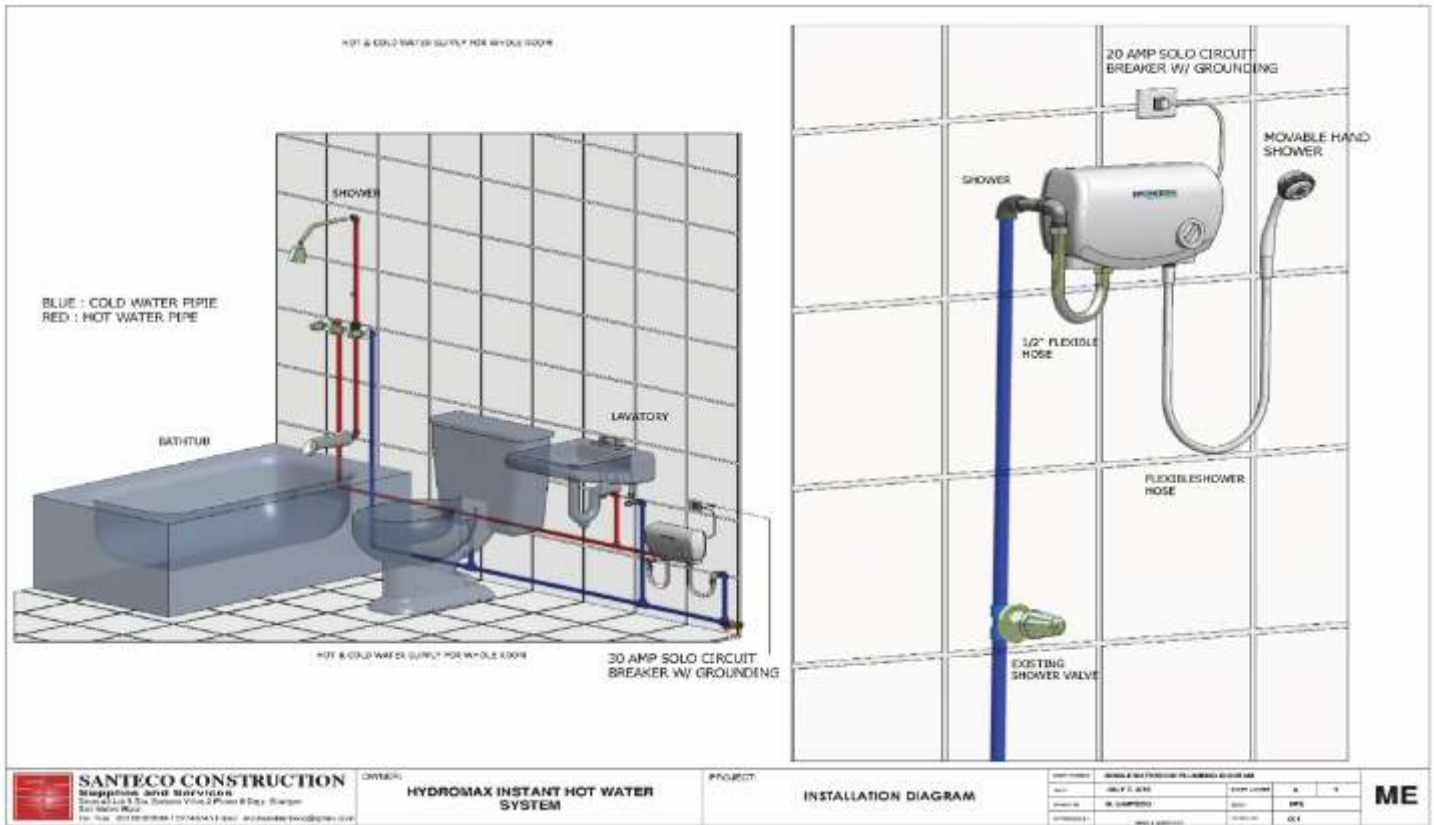


German Quality



### •ADVANTAGE OF HYDROMAX INSTANT HEATER

- FULLY AUTOMATIC WITH PDFS FLOW SENSOR** – The heater will automatically cut-off after shutting down the water supply valve **either before and after the heater** with out turning off the power supply. It uses a highly sensitive advance Pressure Differential Switch to turn off the heater on both Single point and Multipoint model. 2 x more effective and durable than ordinary pressure and flow switch.
- ANTI SCALDING DEVICE** –Automatically turn-off the power to avoid scalding.
- HIGH DENSITY COMPOSITE PLASTIC HEATING CHAMBER** – Tested and proven to withstand highly corrosive water supply for 15 years. Its very easy to clean and maintain. Very economical and safer. (Not an electrical conductor)
- DUAL COIL HEATING ELEMENT** – Low, Medium, High Settings to minimized electrical consumption.
- AUTOMATIC PRESSURE RELIEF VALVE** – It release automatically too much pressure on the system incase of emergency situations.





### Technical Information

Code	Model No.	Filter Area (m <sup>2</sup> )	Valve Connections		Max Flow Rate		Sand (kg)
88010101	V350	0.09	1.5 inch	50mm	721lpm	4.32m <sup>3</sup> /h	20
88010102	V400	0.13	1.5 inch	50mm	108lpm	6.48m <sup>3</sup> /h	35
88010103	V450	0.16	1.5 inch	50mm	135lpm	8.10m <sup>3</sup> /h	45
88010104	V500	0.22	1.5 inch	50mm	185lpm	11.10m <sup>3</sup> /h	85
88010105	V650	0.32	1.5 inch	50mm	260lpm	15.60m <sup>3</sup> /h	145
88010107	V700	0.40	1.5 inch	50mm	325lpm	19.50m <sup>3</sup> /h	210
88010608	V700 (B)	0.41	2.0 inch	63mm	336lpm	20.16m <sup>3</sup> /h	215
88010609	V800	0.50	2.0 inch	63mm	415lpm	24.90m <sup>3</sup> /h	355
88010610	V900	0.64	2.0 inch	63mm	520lpm	31.20m <sup>3</sup> /h	470
88010650	V900 (C)	0.64	2.5 inch	75mm	533lpm	32.00m <sup>3</sup> /h	470
88010611	V1000	0.79	2.0 inch	63mm	650lpm	39.00m <sup>3</sup> /h	620
88010651	V1000 (C)	0.79	2.5 inch	75mm	658lpm	39.50m <sup>3</sup> /h	620
88010613	C1200	1.13	2.0 inch	63mm	860lpm	51.60m <sup>3</sup> /h	860
88010652	V1200 (C)	1.13	2.5 inch	75mm	941lpm	56.50m <sup>3</sup> /h	860
88010614	V1400	1.54	2.5 inch	75mm	1277lpm	76.90m <sup>3</sup> /h	1350

### "V" Series Fiberglass Top Mount Filter



V350-V700

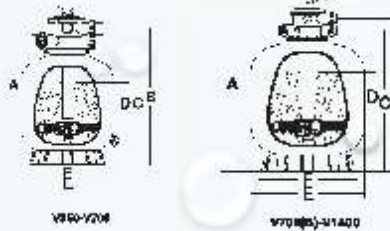
V700(B)-V1400

### Product Dimension

Model No.	A mm	B mm	C mm	D mm	E mm	F mm
V350	726	619	550	160	355	298
V400	757	640	590	175	410	390
V450	814	698	638	210	455	390
V500	845	730	670	235	535	500
V650	950	835	775	300	635	500
V700	1020	905	845	330	710	500
V700 (B)	1092	960	877	390	723	500
V800	1200	1085	1002	425	800	780
V900	1300	1172	1090	480	900	780
V900 (C)	1334	1242	990	480	900	780
V1000	1400	1340	1260	580	1000	780
V1000 (C)	1434	1410	1160	580	1000	780
V1200	1600	1550	1468	740	1200	1000
V1200 (C)	1634	1620	1368	740	1200	1000
V1400	1780	1616	1520	780	1400	1220

### Features

Bobbin-wound fiberglass reinforced tank is still the most popular standard in the industry after all. With UV-resistant surface finish, it is able to operate under prolong sunlight for years of reliability. "V" Series (V350-V1400) filters are equipped with a six-position, 1.5", 2", & 2.5" multiport valve and ABS laterals.



### Highlight Features:

Suggested Installation: Domestic In-ground and above ground pool / hot spa tub

Max operating pressure 36psi / 2.5 bar

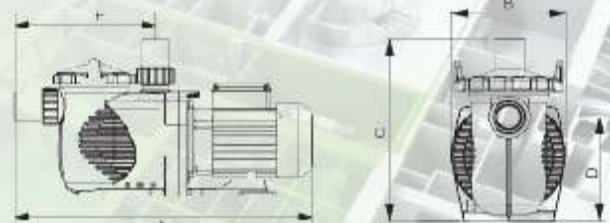
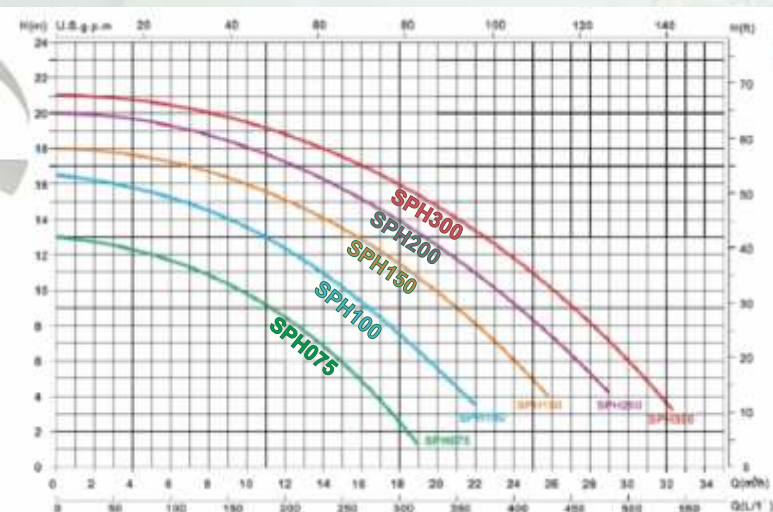
Max temperature of 43°C (109°F)

Universal standard of union connection provided

Suggested size of media: 0.5-0.8mm



Model	in/Out (thread) (adaptor 50mm glue included)	Power
SPH075	1 1/2" (internal) / 2" (external)	0.55 kw / 0.75 HP
SPH100	1 1/2" (internal) / 2" (external)	0.75 kw / 1.5 HP
SPH150	1 1/2" (internal) / 2" (external)	1.1 kw / 1.5 HP
SPH200	1 1/2" (internal) / 2" (external)	1.5 kw / 2.0 HP
SPH300	1 1/2" (internal) / 2" (external)	2.2 kw / 3.0 HP



Model	Amm	Bmm	Cmm	D mm	E mm	KG	CON (220V)
SPH075	652	215	340	195	308	13.61	20 Uf
SPH100	652	215	340	195	308	13.61	20 Uf
SPH150	652	215	340	195	308	13.61	20 Uf
SPH200	652	215	340	195	308	13.61	20 Uf
SPH300	652	215	340	195	308	13.61	20 Uf





### “CF” SERIES CARTRIDGE FILTERS

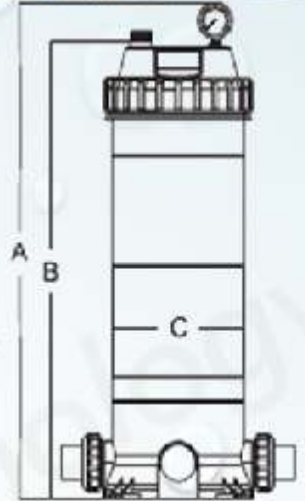
#### Technical Information

Compact and Light weight  
 UV resistant tank  
 Heavy duty ring Lock lid allows easy cleaning and replacement of the cartridge element.  
 Screw type air bleeder for easy removal of trapped air inside the filter tank  
 High-quality oil filled pressure gauge for easy inspection of the operation pressure  
 Application to domestic swimming pool and spa.



#### FUNCTIONS

- Maximum Working Pressure 250kPa / 36psi / 2.5 bar
- Maximum Water Temperature 40°C (100°F)



#### TECHNICAL INFORMATION

Code	Model No.	Filter Area (m <sup>2</sup> )	Valve Connections		Max Flow Rate		A mm	B mm	C mm
88060101	CF25	2.25	1.5 inch	50mm	92lpm	5.5m <sup>3</sup> /h	445	387	225
88060102	CF50	4.63	1.5 inch	50mm	190lpm	11.4m <sup>3</sup> /h	625	567	225
88060103	CF75	7.00	1.5 inch	50mm	283lpm	17.0m <sup>3</sup> /h	805	747	225
88060104	CF100	9.40	2.0 inch	63 mm	382lpm	22.9m <sup>3</sup> /h	985	927	225
88060105	CF150	13.72	2.0 inch	63 mm	555lpm	33.4m <sup>3</sup> /h	1165	1107	225
88060106	CF200	16.82	2.0 inch	63 mm	680lpm	40.9m <sup>3</sup> /h	1345	1287	225

## POOL ACCESSORIES



VACUUM HEAD



LEAF SCOOP



ALGAE BRUSH



SKIMMER (WIDE MOUTH, STA-RITE and U-3)  
CONCRETE POOLS



VACUUM HOSE- PLASTI-FLEX



CORNER BRUSH



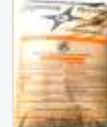
POOL-NYLON BRUSH



TELESCOPIC HANDLE (2' by 8')



HI-CHLON and NI-CHLON (CHLORINE)



OGLEBAY NORTON SAND



ZEOBRITE SILICA SAND



CELATON CELITE D.E POWDER



POOLPALS-DRY ACID



TEST-KIT



AIR-BLOWER (AVP, WATERWAY)



STEAMIST-STEAMER



DRY SAUNA



RING BLOWER



SUCTION (OUTLET) FITTINGS



UNDERWATER LIGHT



EYEBALL (INLET) FITTINGS HYDROSTREAM



DECK BOX (ABS)



HYDROSTATIC VALVE



MAIN-DRAIN 2.0"



DRAIN (ANTI-VORTEX)



GRATING TILES



FRAME AND GRATE



MANIFOLD



SPA-JETS (CHROME, T-TYPE, TELESCOPIC, STRAIGHT)



MAIN DRAIN



AIR-NOZZLE ELBOW



AIR-NOZZLE



# MEGAFUSION

PP-R Hot/ Cold water Pipes and Fittings



Tee			
T20	T25	T32	T40
T50	T63	T75	T90
T110	T160		



Straight Cross (mm)			
20	25	32	40
50	63		



Female Elbow	
L20 x 1/2 F	L25 x 1/2 F
L25 x 3/4 F	L32 x 3/4 F
L32 x 1 F	L40 x 1 1/4 F
L50 x 1 1/2 F	L63 X2 F



Male Elbow	
L20 x 1/2 M	L25 x 1/2 M
L25 x 3/4 M	L32 x 3/4 M
L32 x 1 M	L40 x 1 1/4 M
L50 x 1 1/2 M	L63 X2 M



Coupling			
S20	S25	S32	S40
S50	S63	S75	S90
S110	S160		



Male Socket	
S20 x 1/2 M	S20 x 3/4 M
S25 x 1/2 M	S25 X 3/4 M
S32 x 1/2 M	S32 x 3/4 M
S32 x 1 M	S40 x 1 1/4 M
S50 x 1 1/4 M	S63 x 2 M
S75 x 2 1/4 M	S90 x 3 M
S110 x 4 M	



Female Socket	
S20 x 1/2 F	S20 x 3/4 F
S25 x 1/2 F	S25 X 3/4 F
S32 x 1/2 F	S32 x 3/4 F
S32 x 1 F	S40 x 1 1/4 F
S50 x 1 1/4 F	S63 x 2 F
S75 x 2 1/4 F	S90 x 3 F
S110 x 4 F	



Reducer			
S25 x 20	S32 x 20	S32 x 25	S40 x 20
S40 x 25	S40 x 32	S50 x 20	S50 x 25
S50 x 32	S50 x 40	S63 x 20	S63 x 25
S63 x 32	S63 x 40	S63 x 50	S75 x 40
S75 x 50	S75 x 63	S90 x 50	S90 x 63
S90 x 75	S110 x 63	S110 x 70	S110 x 90
S160 x 110			



Reducer Tee			
T25 x 20	T32 x 20	T32 x 25	T40 x 20
T40 x 25	T40 x 32	T50 x 20	T50 x 25
T50 x 32	T50 x 40	T63 x 20	T63 x 25
T63 x 32	T63 x 40	T63 x 50	T75 x 32
T75 x 40	T75 x 50	T75 x 63	T90 x 40
T90 x 50	T90 x 63	T90 x 75	T110 x 50
T110 x 83	T110 x 75	T110 x 90	T180 x 90
T160 x 110			



Male Tee	
TL20 x 1/2 M	TL63 x 2 M
TL25 x 1/2 M	
TL32 x 3/4 M	
TL25 x 3/4 M	
TL32 x 1 M	
TL40 x 1 1/4 M	
TL50 x 1 1/2 M	
TL63 x 2 M	



45° Elbow			
L20	L25	L32	L40
L50	L63	L75	L90
L110	L160		



90° Elbow			
L20	L25	L32	L40
L50	L63	L75	L90
L110	L160		



Female Union	
Ø20 x 1/2 F	Ø25 x 3/4 F
Ø32 x 1 F	Ø40 x 1 1/4 F
Ø50 x 1 1/2 F	Ø63 x 2 F



All Plastic Union	
Ø20	Ø25
Ø32	Ø40
Ø50	Ø63



Female Tee	
TL20 x 1/2 F	TL63 x 2 F
TL25 x 1/2 F	
TL32 x 3/4 F	
TL25 x 3/4 F	
TL32 x 1 F	
TL40 x 1 1/4 F	
TL50 x 1 1/2 F	
TL63 x 2 F	



Ball Valve
20
25
32
40
50
63



Flange Set



End Cap	
20	25
32	40
50	63
75	90
110	



Male Union	
Ø20 x 1/2 M	Ø25 x 3/4 M
Ø32 x 1 M	Ø40 x 1/4 M
Ø50 x 1 1/2 M	Ø63 x 2 M



Stainless Camouflage Stop Valve
20
25
32



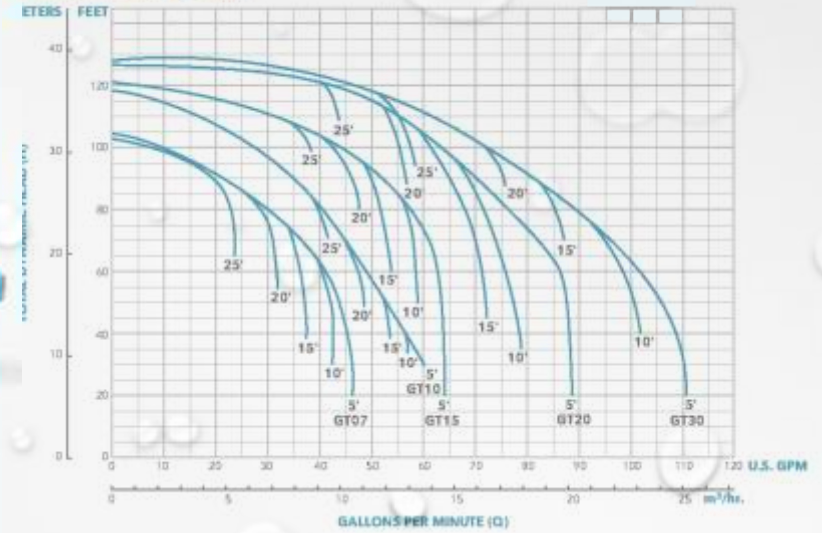
PP-R Pipe (Cold Water)		PP-R Pipe (Hot Water)	
PN 1.25 Mpa	Ø20 x 1.9	Ø63 x 5.8	PN 2.0 Mpa
	Ø25 x 2.3	Ø75 x 6.9	Ø20 x 2.8
	Ø32 x 3.0	Ø90 x 8.2	Ø63 x 8.7
	Ø40 x 3.7	Ø110 x 10.3	Ø25 x 3.5
PN 1.6 Mpa	Ø50 x 4.6	Ø160 x 14.6	Ø32 x 4.4
	Ø20 x 2.3	Ø63 x 7.1	Ø40 x 5.5
	Ø25 x 2.8	Ø75 x 8.4	Ø50 x 6.9
	Ø32 x 3.6	Ø90 x 10.1	Ø20 x 3.4
PN 2.5 Mpa	Ø40 x 4.5	Ø10 x 142.2	Ø25 x 4.2
	Ø50 x 5.6	Ø160 x 17.8	Ø32 x 5.4
			Ø40 x 6.7
			Ø50 x 8.4



HP/ Model	1/2 HP - J55					1/2 HP - J55H					1/4 HP - J75					1 HP - J105					1 1/2 HP - J155					
Nozzle	AN017					AN019					AN018					AN018					AN022					
Venturi	AD3332					AD3328					AD3336					AD3339					AD3342					
Total Suction Lift (feet)	Discharge Pressure - PSI					Discharge Pressure - PSI					Discharge Pressure - PSI					Discharge Pressure - PSI					Discharge Pressure - PSI					
	20	30	40	50	Max Shut off PSI	20	30	40	50	60	Max Shut off PSI	30	40	50	60	Max Shut off PSI	30	40	50	60	Max Shut off PSI	30	40	50	60	Max Shut off PSI
	Gallons per minute					Gallons per minute					Gallons per minute					Gallons per minute					Gallons per minute					
5	17.5	16.5	10.2	5.0	63	11.5	11.3	11	7.7	4.8	83	21.3	18.3	12.5	6.6	70	24.8	24.4	16.6	9.9	74	26.6	26.3	25.0	15.6	80
10	15.7	14.4	9.2	4.3	61	10.3	10.0	9.6	7.0	4.2	81	18.8	17.3	11.3	5.0	68	22.9	22.2	15.8	8.6	72	24.7	24.3	22.6	13.9	77
15	13.7	12.5	8.0	3.6	59	8.8	8.6	8.3	6.3	3.7	79	16.4	15.5	9.6	3.7	66	19.8	19.5	13.8	6.9	70	21.6	21.5	20.4	12.9	75
20	11.5	10.4	7.1	2.3	57	7.0	7.0	6.8	5.8	3.2	76	13.6	13.2	8.3	2.0	63	16.6	16.6	12.2	5.6	67	18.1	18.0	17.6	12.0	73
25	8.7	8.6	6.2	1.3	54	5.3	5.2	5.2	5.0	2.8	73	10.0	9.9	6.4	1.0	59	12.5	12.4	10.4	3.6	65	14.0	14.0	14.0	10.1	71



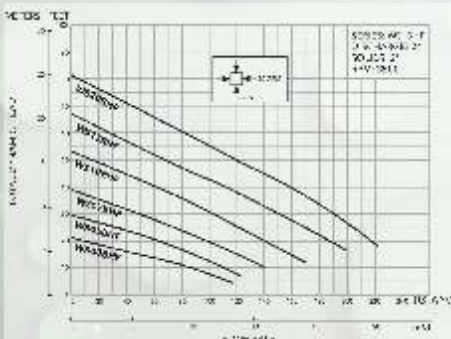
### PERFORMANCE CURVE



### PERFORMANCE RATINGS

Model	PSI Discharge Pressure	Suction Lift in Feet				
		5	10	15	20	25
GT07/ GT073	20	44	41	36	31	24
	30	34	31	26	22	14
GT10/ GT103	20	33	31	29	26	21
	30	23	21	18	16	11
GT15/ GT153	20	63	59	54	49	39
	30	50	45	41	36	27
GT20/ GT203	20	86	77	70	63	46
	30	80	72	67	57	44
GT30/ GT303	20	105	100	88	76	60
	30	92	90	84	75	57
	40	73	67	62	55	50

Performance ratings are in GPM. For Silicon Brass impeller, add a "B" suffix to standard part number.



Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Motor Efficiency %	Resistance	
										Start	Line-Line
WS0311BHF	0.33	1	115	3500	2.94	12.4	46.0	M	54	7.5	1.0
WS0318BHF			208			6.8	31.0	K	68	9.7	2.4
WS0312BHF	230	6.2	34.5			M	53	9.6	4.0		
WS0511BHF	115	14.5	46.0			M	54	7.5	1.0		
WS0518BHF	208	8.4	31.0			K	68	9.7	2.4		
WS0512BHF	230	7.6	34.5			M	53	9.6	4.0		
WS0538BHF	0.5	1	200		4.9	22.6	R	68	-	3.8	
WS0532BHF			230		3.6	18.8	R	70	-	5.8	
WS0534BHF			460		1.8	9.4	R	70	-	23.2	
WS0537BHF			575		1.5	7.5	R	62	-	35.3	
WS0718BHF			208		11.0	31.0	K	68	9.7	2.4	
WS0712BHF			230		10.0	27.5	J	65	12.2	2.7	
WS0738BHF	0.75	1	200		6.2	20.6	L	64	-	5.7	
WS0732BHF			230		5.4	15.7	K	68	-	8.6	
WS0734BHF			460		2.7	7.9	K	68	-	11.0	
WS0737BHF			575		2.2	9.9	L	78	-	26.5	
WS1018BHF			208		14.5	59.0	K	68	9.3	1.1	
WS1012BHF			230		13.0	36.2	J	69	10.3	2.1	
WS1038BHF	1	1	200		8.6	27.6	M	77	-	2.7	
WS1032BHF			230		7.5	24.1	L	79	-	4.1	
WS1034BHF			460		3.8	12.1	L	79	-	16.2	
WS1037BHF			575		3.1	9.9	L	78	-	26.5	
WS1512BHF			230		18.0	52.0	J	67	2.76	0.53	
WS1538BHF			200		10.0	42.4	K	78	-	1.7	
WS1532BHF	1.5	1	460	9.6	42.4	K	78	-	1.7		
WS1534BHF			575	21.2	K	78	-	6.6			
WS1537BHF	230	3.9	16.3	L	78	-	10.5				
WS2012BHF	2	3	230	18.0	49.6	F	78	3.2	1.1		
WS2038BHF			200	12.0	42.4	K	78	-	1.7		
WS2032BHF			230	11.6	42.4	K	78	-	1.7		
WS2034BHF			460	5.8	21.2	K	78	-	6.6		
WS2037BHF			575	4.7	16.3	L	78	-	10.5		





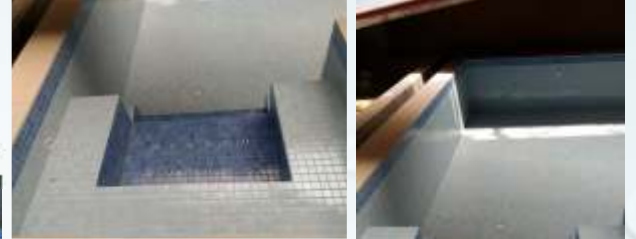
**ELENA LIM**  
DASMARINAS VILLAGE MAKATI CITY

Design and Build of 104 m<sup>2</sup> Infinity Type Swimming pool Area with Hot Water Jacuzzi (Spa)  
Contact Person: Kevin Tan Owner of My Phone Mobile Technologies

**Swimming Pool Projects**

**CJ TAN**  
DASMARINAS VILLAGE MAKATI CITY

Design and Build of 20 m<sup>2</sup> Infinity Type Swimming pool Area with Hot Water Jacuzzi (Spa)  
Contact Person: **CJ Tan** Owner of Solid Video Sonny Products



**MR. JULIUS BABAO**

broadcast journalist, radio commentator  
talk show host at ABS-CBN.  
He is most notable for anchoring *TV Patrol* from 2003 to October 2010.



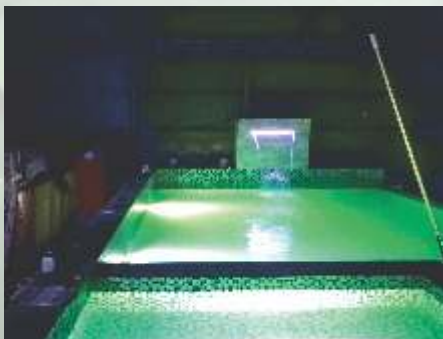
PRINCESA GARDEN ISLAND  
PROJECT 555 010

Design and Build of 2000 m<sup>2</sup> Swimming pool Area,  
Hot Jacuzzi (Spa) Steamer and Sauna



MORONG, BATAAN

Design and Build of 80 m<sup>2</sup> Infinity Type Swimming pool Area,  
Cold Water Jacuzzi (Spa).



**Arlyn Zata**  
Rodriguez, Rizal

**Mr. Manuel Arce**  
Morong, Bataan





**Las-Nabas Resort Samar**



**Sipalay City, Negros Occidental**

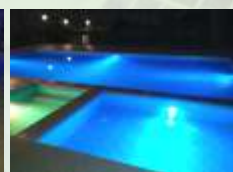
Design and Build of 100 m<sup>2</sup> Infinity Type Swimming pool Area with Hot Water Jacuzzi (Spa) Contact Person: Amrit Gidwani



**Mr. Jerry Tan**  
Fortunata Village, Sucat Paranaque



**NSC Trading**  
San Juan, Batangas



**Mr. Philip David**  
Gapan, Nueva Ecija

**Feliz Le Mirage**  
Antipolo City

**Ortiz Isabela**

**50 x 25 Olympic Pool**  
Collegio de San Agustin Bulacan







**SANTECO CONSTRUCTION**  
Supplies and Services

**OUR PROJECTS**

**THE POND**  
SALALAY

Supply of material for Swimming pool Equipment



**THE FARM**  
AT SAN BENITO

Repair of 2 Units Heat Pump



**MARGELOU COURT**

SAN PEDRO, LAGUNA  
UNIT OF 5HP HIGH TEMP. HEAT PUMP  
4 SETS OF VFD-CPS BOOSTER SYSTEM



**Monte Lodge**  
CARMONA, LAGUNA

**BUGANA**  
BEACH AND DIVE RESORT



**CHRIS GOTHONG**

owner of Ever Gotesco and Gotong shipping Iline  
3 UNIT OF HEAT PUMP 4 UNITS OF HOT WATER PUMP  
3 UNITS OF HOT WATER STORAGE  
1 SET VFD-CPS BOOSTER SYSTEM







## VICTORIA COURT

ANGIE MEAD KING

Owner of Victoria Court

- ADDITIONAL HEAT PUMP WATER HEATER
- REPLACE OF OLD HEAT PUMP UNIT
- REPAIR OF ALL DEFECTIVE HEAT PUMP
- PREVENTIVE MAINTENANCE OF ALL HEAT PUMP



### BRANCHES:

- VICTORIA COURT SAN FERNANDO
- VICTORIA COURT BALINTAWAK
- VICTORIA COURT NORTH EDSA
- VICTORIA COURT PANORAMA
- VICTORIA COURT MALABON
- VICTORIA COURT LAS PINAS
- VICTORIA COURT GILPUYAT
- VICTORIA COURT HILCREST
- VICTORIA COURT CANLEY
- VICTORIA COURT CUNETA
- VICTORIA COURT MALATE
- VICTORIA COURT PASAY
- VICTORIA COURT PASIG
- VICTORIA COURT SUITES



### TOTAL UNITS:

- 12 UNITS OF HYDROMAX 3 HP
- 12 UNITS OF HYDROMAX 5 HP



SANTECO CONSTRUCTION  
Supplies and Services





# MECHANICAL AND PLUMBING WORKS

## MARCOPOLO HOTEL

50 Floor Luxury Hotel in Ortigas Pasig

Owner: **Mr. Samuel Po**

Scope: Service Provider (Sub Contractor)

- Supply and Installation of 2 units Building Return LCP thermostatically operated
- Supply and Installation of 8 units of thermal overload for LCP (BMS requirements)
- Repair of 8 units damage DERON Heat Pump Controller
- Installation of 8 units Check Valves and purging valve on Heat Pump Water Heater
- Repair of 1 unit Recirculating Pump on Transfer area
- 50 hours Heat Pump trouble shooting and monitoring on Roof deck area

Thru: Y2D WIRED TECHNOLOGYS

Contact Person: Mr. Fernando Ibazeta  
Y2D Owner



Owner: **Mr. Samuel Po**

- Scope: Re-piping of hot water system.
- Installation of rubber pads for all supplied equipment.
- Installation of pipe cladding and Rockwool insulation to all hot water pipes wit in the water heater room.
- Installation of By-pass valves

## 21 ROOMS RESIDENTIAL CONDOMINIUM

Owner: **Mrs. Nanette Alban**

Scope : Design, Build and Supply of cold water plumbing distribution system for 21 rooms condominium.

## BIGHT MOVES HOLDING INC. (HYUNDAI ELEVATORS OFFICE)

Scope : Design and Build of Generator set ventilation system

Contact Person: Ms. Jasmin Mangabat

## Booster Pump, Pool Pump / Filter, Heater Installation

PREVENTIVE MAINTENANCE OF  
**16 UNITS HEAT PUMP**

SUPPLY OF 2 UNITS HI-TEMP.  
HYDROMAX HEAT PUMP FOR  
KITCHEN

## Marco Polo



MODIFICATION OF ALL MECHANICAL INSTALLATION OF **8 UNITS HEAT PUMP, 8 UNITS HEAT PUMP HEATER, 10 UNITS OF A.O. SMITH HOT STORAGE TANKS, 15 UNITS OF 54KW ELECTRIC HEATER.**

## CJ TAN

"GOULDS" BOOSTER CPS PUMP  
DASMARINAS VILLAGE MAKATI



## Mr. Thomas Vicman Cavite





# NEW GENERATION HEAT PUMP WATER HEATER INSTALLATION



**PRINCESA GARDEN ISLAND**  
RESORT AND SPA

**PALAWAN**

- Owner: Arch. Ramon S. Licup  
 Scope: -Design of Pool Mechanical System  
 -Value Engineering  
 - Design and Build of Electro-mechanical for Jacuzzi Spa, Sauna, Steamer.  
 -Supply of 1 Unit 4 HP pool heater , NOV 2014



## MR. JUSTIN ONGSUE

Camaya Cove Morong Bataan  
 Vice President of **BOYSEN Philippines**  
 Design and Build of 1 unit 5 HP Pool  
 Heat Pump Oct. 2014



## MR. BOBBY CASTRO

Rosario Cavite  
 Scope : Supply and Installation of 2 units  
 Hydromax Heat Pump Water Heater 4HP  
 January 2015.



design and Build of  
 2 units  
 Hydromax  
 High  
 Temperature  
 Heat Pump up  
 to 80°C Max. Temp



**BOLINAO PANGASINAN**  
 Scope: Replace Old Heat Pump  
 System, Preventive Maintenance of all  
 Mechanical Equipment's



## KAMAGONG INN

- PREVENTIVE MAINTENANCE
- REPLACE OF 2 UNITS HYDROMAX HOT WATER PUMP
- REPLACE OF 1 UNITS HEAT EXCHANGER, REPAIR OF EVAPORATOR





**Dr. James Dy** - A Chinese-Filipino businessman and a philanthropist. He is the president of the Universal Records and the founder of ASEAN Music Industry Association. He is also the president of Chinese General Hospital and Medical Center and Dyna Drug Corporation. Dy is the Chairman Emeritus of the Filipino Chinese General Chamber of Commerce. He was widely acknowledged as the one responsible for the lifting of the suspension of Overseas Filipino Workers by Taiwan. He was a TOFIL Awardee in 2001 and was called the "Musical Godfather" in the Philippines.

Design and Build of Units HYDROMAX 5 HP pool heat pump since FEB 2015



**Amanda Fernandez**  
Tv Host, Commercial  
Model, Actress



"Berkeley" Booster Pump  
Boracay Aklan



**TACLOBAN CITY**  
Supply and Installation of  
Water Heating System



HYDROMAX Tankless instant  
water Heater



**apo view hotel**  
GOULDS CONSTANT PRESSURE SYSTEM





# Mrs. Regina Consunji

La Vista  
Installation of Fire Pump



Installation of 2 unit Swimming pool Heater  
Installation of LPG pipe line  
Re-Piping of swimming pool filtration system.



**HOTEL ESTRELLA**  
ACCOMMODATION  
**MR. NOEL LATORRE**  
Owner of Paramed



**Emilio T. Yap** is a Chinese-Filipino businessman that owns daily broadsheet, Manila Bulletin (PSE: MB). He is also the chairman of the Manila Hotel and Chairman Emeritus of Philtrust Bank (PSE: PTC). Yap was supposed to acquire majority stake in the Philippine Bank of Communications (PBCom) but eventually withdrew its bid. He also owns 55 percent of Centro Escolar University (PSE: CEU). In 2010, he is listed by Forbes as the 13th richest Filipino with a net worth of USD665 million.

## MANILA PRINCE HOTEL

**HYDROMAX** DESIGN AND BUILD OF WHOLE PLUMBING SYSTEM.

- 23 UNITS – HEAT PUMP HEATER / MODEL ARG-03H (HIGH TEMP UP TO 80°C) / 230 VAC / 60HZ
- 31 UNITS – HOT WATER STORAGE TANK MODEL SG-400/400LITERS / 104 GALLONS
- 23 UNITS – HOT WATER PUMP UP TO 110°C MAX TEMP.
- REPIPING OF WHOLE HOT WATER PIPE FROM 2<sup>ND</sup> FLOOR TO 9<sup>TH</sup> FLOOR USING MEGA FUSION PPR PIPE AND FITTINGS WITH A TOTAL OF 360 ROOM WITH IN 2 MONTHS.



DISCOVERY  
**PRIMEA**  
DISCOVERY PRIMEA ALCOHOL BY VOLUME. INC MILLENIA TOWER ETC..





**RESIDENCE  
OF  
SENATOR  
CHIZ ESCUDERO  
&  
HEART EVANGELISTA  
ESCUDERO**



**EL PISO ADRIATICO HOTEL**



**SHINRYO CORPORATION**, acquired in 1999 from R.J. Reynolds, is an operating division of Japan Tobacco Inc., handling the international production, marketing and sales of the group's cigarette brands. It sells Camel, Salem, and Winston brands outside the USA.

3 x 15 HP HIGH TEMPERATURE HEAT PUMP  
3 x 3000 LITERS SS316 HOT WATER TANK  
1 x AUTOMATIC BACKWASH SYSTEMS



Owner: **Mr. William Tiu Lim**  
President of Mega Corporationmakers  
of Mega Products (Mega Sardines Etc.)



8 UNITS OF ADDITIONAL  
HIGH TEMPERATURE  
HYDROMAX HEAT PUMP







**BLUEWATER**  
panglao  
maribago

6 UNITS OF HEAT PUMP  
2 UNITS OF HOT WATER TANK  
8 UNITS OF HOT WATER PUMP



**South PALMS**  
RESORT PANGLAO  
1 UNIT OF 10HP HEAT PUMP



**Villa Rosa** Fairview Quezon City





# CERTIFICATION AND ACCREDITATION



**DOLE Certificate for Construction Safety & Health Training**



**JOINED THE PHILCONSTRUCT 2015**



**ACCREDITED BY SHANGRI-LA HOTELS**

**American Society of heating, refrigerating and Airconditioning Engineers Inc.**



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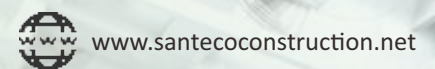
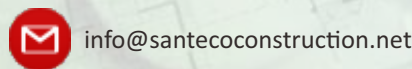
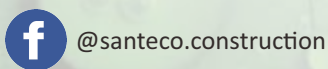
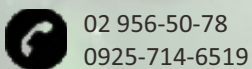


**MEGAFUSION**  
PP-R Hot/ Cold water Pipes and Fittings

**HYDROMAX**



**SANTECO CONSTRUCTION**  
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