

PROCUREMENT SERVICES

CITY OF SURREY, SURREY CITY HALL 13450 – 104 Avenue, Surrey, B.C., V3T 1V8 Tel: 604-590-7274

E-mail: purchasing@surrey.ca

ADDENDUM No. 2

REQUEST FOR QUOTATION No.: 1220-040-2024-089

TITLE: Guildford Aquatic Centre Gas Stripper Installation

ADDENDUM ISSUE DATE: December 3, 2024

REVISED DATE: PREFER TO RECEIVE SUBMISSION ON OR

BEFORE DECEMBER 11th, 2024.

INFORMATION FOR CONTRACTORS

Contractors are advised that Addendum No. 2 to 1220-040-2024-089 is hereby issued by the City. This addendum shall form part of the contract documents and is to be read, interpreted and coordinated with all other parts. The following information is provided to answer questions raised by Contractors for the above-named project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Contractors or any sub-contractor not being familiar with this addendum. This Addendum No. 2 contains eighteen (18) pages.

REVISED DATE:

Delete Section 3 in its entirety and substitute with Section 3 below:

"3. DATE

The City would prefer to receive Applications on or before December 11, 2024 (the "Date")."

CLARIFICATIONS:

- 1. Refer to the attachment Drawings Mechanical Guildford Aquatic Centre Gas Stripper Installation and revise the following notes:
 - 1. REFERENCED DRAWING M103 MECHANICAL SPECIFICATIONS

DIVISION 25 INTEGRATED AUTOMATION

Delete Section 1.2 in its entirety and substitute with Section 1.2 below:

1.2 Related Requirements

This section of the Specification forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

Delete Section 1.6 in its entirety and substitute with Section 1.6 below:

1.6 Design Requirements

Design and provide conduit and wiring where required linking the new equipment to the existing BMS system. Provide new points on the BMS for the New gas stripper pumps integration and Alarm out. Quantity and points contents as reviewed by the Consultant prior to installation. New EF-101-24 can be connected to existing Trichloramine Exhaust fan status to BMS.

Retain the services of a qualified electrician to provide power and data cabling to the BMS control panel. Power wiring and conduit as well as data cabling and conduit shall comply with the electrical code and coordinated on-site with existing services.

Delete Section 2.1 in its entirety and substitute with Section 2.1 below:

2.1 Control Components

Provide control integration from the Each of the Gas stripper pumps to the existing Pool Flow meters (FM-1) on the main pool water supply line that it is serving. typ. for each pool. Verify operation and calibrate as required to turn off the pumps under no flow conditions.

Any new control devices required for new equipment to be compatible with existing BMS.

Delete Section 3.1 in its entirety and substitute with Section 3.1 below:

3.1 Sequence of Operation

- 1. When the 50m Pool flow meter detects flow (FM-1), and are proven on, energize PP-101-24.
- 2. When the 50m Pool flow meter (FM-1) detects No flow, de-energize PP-101-24.
- 3. When the Leisure Pool flow meter (FM-1) detects flow, and is proven on, energize PP-201-24.
- 4. When the Leisure Pool flow meter (FM-1) detects No flow, de-energize PP-201-24.
- 5. When the Hot pool Pool flow meter (FM-1) detects flow, and are proven on, energize PP-301-24.
- 6. When the Hot Pool flow meter (FM-1) detects No flow, de-energize PP-301-24
- 7. If EF-101-24, PP-101-24, PP-201-24 or PP-301-24 fail to activate, provide an alarm at the BMS Panel.

QUESTIONS AND ANSWERS:

- **Q1.** Will there be any after-hour shutdowns needed?
- A1. No, the building is occupied and available to contractor from 6:00am 9:00pm, Monday to Friday. Weekend access can be discussed.
- **Q2.** Do the pumps need to be on housekeeping pads?
- A2. Yes, please pour 4" concrete pad or raise the pumps off the ground 4" by other means approved by the City.

- **Q3.** Could you confirm that surge tank penetrations, electrical conduit installations, and breaker setups for the gas strippers that have been completed?
- A3. The City has completed all the penetrations to the surge tanks with valves and caps. The City has run PVC conduit for electrical to the leisure pool and hot tub gas stripper points (not main pool). The City will install properly rated breakers for all three gas strippers.
- **Q4.** The City has done some electrical work, can you please confirm what scope is still required with drawing.
- A4. Below is the electrical scope left to be accomplished; no drawing will be supplied:

Main Pool:

- Supply and install PVC conduit and cable from existing panel for the main pool gas stripper and the City supplied breaker to pull box at location of pump and VFD.
- Supply and install tech cable from pull box to pump/VFD and terminate.

Leisure and Hot Tub:

 Supply and install tech cable from City supplied and previously run pull boxes complete with cable to location of pump/VFD and terminate. Breaker supplied and installed by the City.

Trichloramine Fan:

• Remove existing cabling from existing trichloramine fan and terminate into new City supplied trichloramine fan.

BMS:

- As stated by AME in addendum and Specification.
- **Q5.** Is City providing the Gas Stripper equipment?
- A5. Yes. The City has already purchased the equipment.
- **Q6.** Is the mechanical contractor responsible for commissioning and start-up of customer supplied equipment and VFDs or is that included in the equipment price from the wholesaler?
- A6. Mechanical Contractor to be responsible for commissioning and start up.
- **Q7.** Are there shop drawings for the equipment purchased by the City?
- A7. Refer to ATTACHMENT NO. 1 Guilford Gas Stripper Retro-fit Shop Drawings for specification.

All Addenda will become part of the Contract Documents.

- END OF ADDENDUM -

ATTACHMENT NO. 1 - Guilford Gas Stripper Retro-fit Shop Drawings



#108-2411 Dollarton HWY, North Vancouver, BC V7H 0A3

PHONE: 1-800-663-5905 FAX: 604-980-0196 Cell: 604-916-3316

E-Mail: jack@comm-aquatic.com

DB PERKS & ASSOCIATES LTD.

31 July, 2024
City Of Surrey.

Attn: Kevin Littlejohn

Guilford Gas stripper Retro-Fit - Equipment Supply:

SUBMISSION 1

- PUMPS: PP 101-24, PP 201-24 & PP 301-24
- EXHAUST FAN EF-001-24
- THM Stripper GS-101-24, 201-24 & 301-24

JACK HENRY
DB PERKS & ASSOC.
Cell: 604-916-3316

Direct: 604-973-0845



TriStar® VS 900

»»» Variable-Speed Pump

PP101, 201 & 301

ADVANCED ENERGY EFFICIENCY.

Intuitive control pad

can be rotated in four directions on the pump or removed and wall mounted



Upgraded dual-voltage motor drive maintains optimal operating efficiency



No-rib strainer basket with see-through cover ensures easy debris removal

Advanced hydraulic design

provides ample power to replace most highperformance pumps up to 1.5 full-rate or 2.0 max-rate HP



INDUSTRY-LEADING ENERGY EFFICIENCY

TriStar VS 900 is the most energyefficient residential pool pump on the market, according to EPA ENERGY STAR® third-party testing data.



DESIGNED FOR DURABILITY

A chemical-resistant Viton® seal and a 3-year warranty mean TriStar VS 900 will provide years of powerful performance.



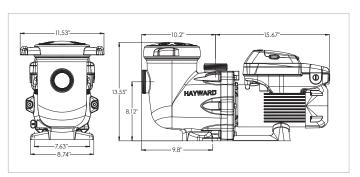
UPGRADE AND SAVE

TriStar VS 900 is right-sized to be installed in any application and easy to integrate with any automation system.



SPECIFICAT	TIONS						
MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD AUTOMATION	TOTAL HP	VOLTS	UNION CONNECTIONS	WARRANTY
SP32900VSP	•	•	•	1.85	230/115V	2" x 2.5"	3 years
	:		1		1	1	1

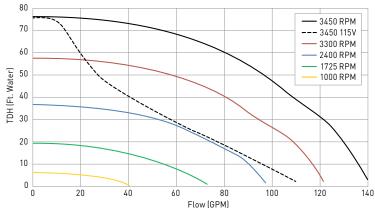
TRISTAR VS 900 DIMENSIONS (INCHES)



TriStar VS 900 pumps are listed by:

 $\widehat{\text{NSF}} \ _{\text{C}} \widehat{\text{UL}}_{\text{US}}$

TRISTAR VS 900 PERFORMANCE COMPARISON



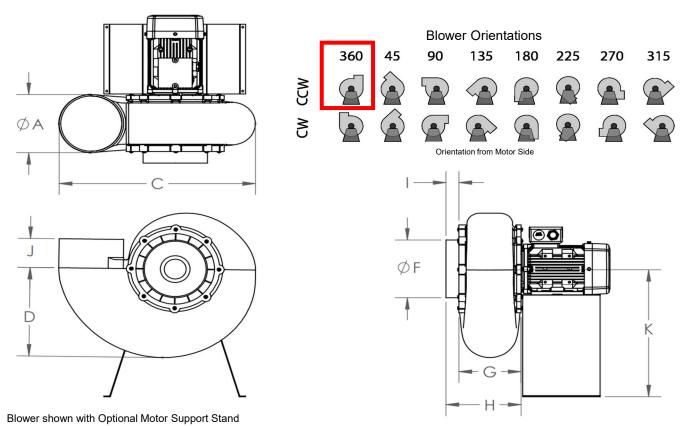
» hayward.com » 1-888-HAYWARD | Pumps » Filters » Heating » Cleaners » Sanitization » Automation » Lighting » Water Features » White Goods

^{*} Compared to single-speed pumps



EF-001-24 - with VFD

PLASTEC 20



	Mechanical Data									
	ØA (OD)	С	D	ØF (OD)	G	Н	I	J		
in	6.29	20.08	9.43	6.29	6.52	7.74	1.22	3.93		
mm	160	511	240	160	166	197	31	100		

	Motor Height (K)						
	0.25 Hp	0.33 Hp	1 Нр 1.5 Нр				
in	12.19	12.54	14.94				
mm	310	319	380				

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT
Date	
Engineer/Sales Rep	
Client	
Contractor	

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www.plastecventilation.com

+1 (941) 751-7596



PLASTEC 20

Model Numbers

GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT

Model Number	Max. Flow (cfm)	Min. Flow (cfm)	Max. Static (in. Wg)	Min. Static (in. Wg)	Phase	Power (hp)	RPM	Voltage (V)	FLA	Weight (lb)
P20SS6P025	610	30	0.63	0.15	Single Phase	0.25	1120	115/208- 230	4.16/2.26- 2.08	23.3
P20SS2P100	765	30	5.8	0.15	Single Phase	1	3390	115/208- 230	9.28/5.02- 4.64	25.3
P20SS2P150	1200	30	5.8	0.15	Single Phase	1.5	3435	115/208- 230	12.50/7.24- 6.24	30.8
P20SS4P033	910	30	1.44	0.15	Single Phase	0.33	1720	115/208- 230	3.49/1.88- 1.74	19.4
P20ST6P025	610	30	0.63	0.15	Three Phase	0.25	1120	208- 230/460	1.33- 1.25/0.62	18.9
P20ST2P150	1200	30	5.8	0.15	Three Phase	1.5	3510	208- 230/460	4.14- 4.10/2.05	29.9
P20ST2P100	765	30	5.8	0.15	Three Phase	1	3480	208- 230/460	3.05- 3.06/1.53	26.2
P20ST4P033	910	30	1.44	0.15	Three Phase	0.33	1715	208- 230/460	1.43- 1.39/0.70	17.8
P20CT2P150	1200	30	5.8	0.15	Three Phase	1.5	3510	575	1.64	29.9
P20CT4P033	910	30	1.44	0.15	Three Phase	0.33	1700	575	0.53	17.8

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PLASTEC Ventilation Inc. 2012 58th Avenue Circle East Bradenton, FL 34203 USA

plastecventilation.com

GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT

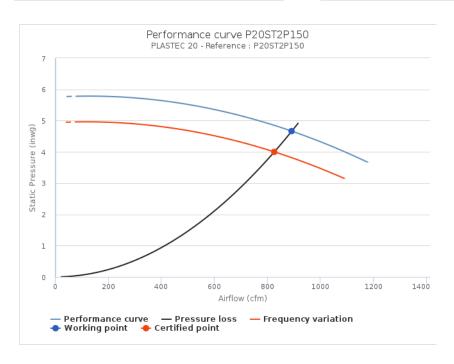
PLASTEC 20 - Reference : P20ST2P150

Certified point	
Airflow (cfm)	825
Static Pressure (inwg)	4
With frequency variation	Yes
Air Temperature (°F)	59
Altitude (ft)	0

Working point	
Airflow (cfm)	891
Working speed (RPM)	3450
Ps (inwg)	4.66
Pt (inwg)	5.1
Pd (inwg)	0.43
Tolerance (RPM %)	7.39 %

1.47 hp
Standard
Three Phase
60 Hz
208 - 230 V / 460 V

Frequency variation	
Working speed (RPM)	3195
Frequency (Hz)	56
Airflow (cfm)	825
Ps (inwg)	4
Pt (inwg)	4.37
Pd (inwg)	0.37



Accoustic data at 3195 RPM

	Qv	Ps	LwA	LpA	Octave band (Hz)							
	cfm	inwg	dB(A)	dB(A)	63	125	250	500	1000	2000	4000	8000
Casing	-	-	-	-	-	-	-	-	-	-	-	-
Inlet	983	3.65	87	76	90.9	79.8	88.9	86.4	81.5	72.7	70.2	63.8
Outlet	983	3.65	88.1	77.1	89.9	82.9	89	88.1	82	75	72.7	66.8

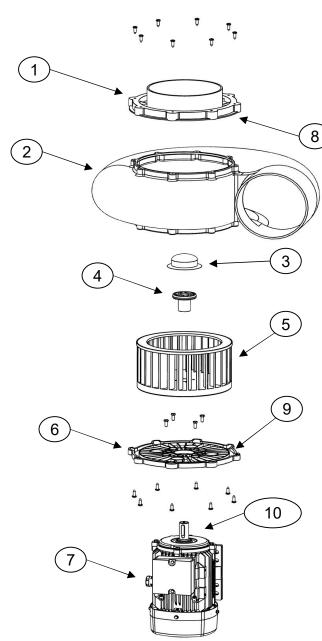
Accoustic pressure at 1 meters



PLASTEC 20

Expanded View

GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT



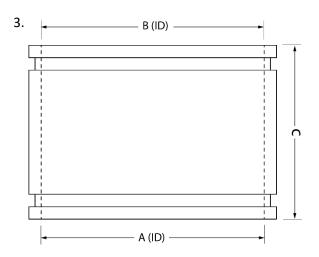
1	Inlet Flange
2	Housing
3	Hub Cap
4	Hub
5	Impeller
6	Motor Plate
7	Motor
8	Inlet Gasket
9	Motor Plate Seal
10	Shaft Key

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FLEXIBLE PVC REDUCER/COUPLING



Model Number	A in	B in	C in	Weight Lbs	Blower compatibility
156-33	3.4	3.4	4.25	0.83	S10
156-43	4.4	3.4	4	1	S10/S12
156-44	4.5	4.5	4.25	1.25	S12
156-54	5.5	4.4	4	1.25	P15/S14/S12
156-63	6.4	3.4	6	2.1	P20/S16/S10/J20
156-64	6.4	4.4	5.63	2.25	P20/S16/S12/J20
156-65	6.4	5.5	4.75	1.5	P15/S14/P20/S16/J20
156-66	6.4	6.4	6	2.5	P20/S16/J20
156-84	8.55	4.4	6	3.33	P25/S18/S12/J25
156-86	8.55	6.4	5.88	3	P25/S18/P20/S16/J20/J25
130-00	0.55	0.55	5.75	7	725/310/325
156-106	10.6	6.4	6.63	5	P30/P20/S16/J30/J20
120-109	10.0	0.55	0.56	5	F30/F23/310/330/320
156-1010	10.6	10.6	5.88	11	P30/J30
156-126	12.6	6.4	6.25	9	P35/P20/S16/J20
156-128	12.6	8.55	6.5	4	P35/P25/S18/J25
156-1210	12.6	10.6	6.25	5	P35/P30/J30
156-1212	12.6	12.6	6.38	7	P35
ISLDC20	20	20	9	12	P50
ISLUCZU	20			· -	1 30



FEATURES

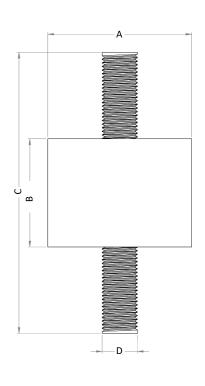
Manufactured from flexible PVC materials that comply with the applicable requirements of ASTM C 1173 Standard Specification for Flexible Transition Couplings. Can be used to form a leak proof joint between section plain end pipe or fittings of the same or different materials such as iron, clay, ductile iron, concrete, and plastic.

- Manufactured out of elastomeric Polyvinyl Chloride.
- 300 premium grade stainless steel hose clamps.
- Deflection sealing resistance up to 4.3 psi.
- Shear testing up to 50lbs per inch of nominal diameter
- Shore "A" durometer hardness testing up to 50-75.

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROF
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Contractor	



NEOPRENE VIBRATION ISOLATOR





					Com	pression	Shear		
Madal Nambar	A B C D		- -		Deflection	Load	Deflection		
Model Number	mm (in)	mm (in)	mm (in)	mm	Kg (Lbs)	mm (in)	kg (Lbs)	mm (in)	
VIAS	20	25	55	Me	25	5.0±1.0	2.5	5.0±1.0	
	(0.79)	(0.98)	(2.16)		(55)	(0.2)	(5.5)	(0.2)	
VI4M	25 (0.98)	25 (0.98)	65 (2.56)	M8	40 (88)	5.0±1.0 (0.2)	6 (13)	5.0±1.0 (0.2)	
VI4L			(3)	M10	(220)	(0.2)	(35)	(0.2)	

FEATURES

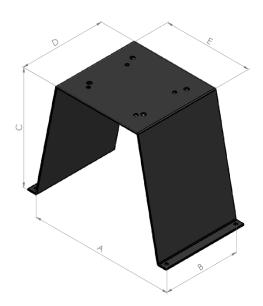
Manufactured of rubber. Mounting hardware made of stainless steel and clear zinc plated threads. Temperature recommended up to 140°F.

- Installed between motor feet and support stand or weather hood/pedestal system.
- Absorbs vibrations, reduces noise, reduces structural damage.
- Color: Black
- Pack Content: 4 pcs
- Material: Rubber + Zinc plated Steel
- Compression mounting only

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT
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SUPPORT MOUNTING STAND



Model Number	A in (mm)	B in (mm)	C in (mm)	in (mm)	E in (mm)	Weight Lbs (kg)	Blower compatibility
MB15	11.9 (302)	6.3 (160)	9.4 (240)	7.1 (180)	7.4 (187)	4.5 (2)	P15/P20/S10/S12/S14
MB251	15	6.3	11.8	7.1	7.4	5.5	P20/P25
MB30	16.6 (422)	8.7 (220)	13.8 (350)	9.4 (240)	7.7 (197)	12 (5.5)	P25/P30/S16
MB35*	(540)	12. 4 (315)	(468)	(350)	(297)	(16)	P35/S18
MB15SS**	11.9 (302)	6.3 (160)	9.4 (240)	7.1 (180)	7.4 (187)	4.5 (2)	P15/P20/S12/S14
MB30SS**	16.5 (420)	8.3 (210)	13.7 (350)	9.4 (240)	7.7 (197)	12 (5.5)	P20/P25/P30/S12/S14/S16
MB35SS**	21.2 (540)	12.4 (315)	18.4 (468)	13.8 (350)	11.7 (297)	5.5 (2.5)	P35/S18

^{*} MB35 shall be provided with additional brace brackets between legs to provide more rigidity.

Rigid support/stand flanged with pre-punched holes for securing blower system. Enamel coating (black) to provide an excellent resistance against corrosion, weather, and UV. Can be used to mount the blower on floors, walls, and ceilings.

Color: Black

FEATURES

- · Stainless Steel motor mounting hardware supplied.
- Powder Properties
 - Particle size: <100 μm
 Density: 1.3 1.6 kg. l⁻¹
- Film Properties:
 - Cross-cut adhesion test: Gt 0
 Mandrel bending test: ≤ 5mm
 Impact test: ≥ 10 inchp
 Erichsen cupping: ≥ 5mm
- · Corrosion tests:
 - Condensation water test, 1000hr: No infiltration, No blister
 - o Natural salt spray test, 1000hr: No infiltration, No blister

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROF
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^{**304} Stainless steel version



FREQUENCY VARIABLE DRIVE

Model Number	Туре	НР	Amps	Input	Input	Output Voltage	Output	Weight	HxWxD
D15011	S100	1.5	6	100	1	200	3	2.01	6.14x2.7x5.12
D30020	2100	3	10.0	200	103	200	3	2.04	0.14XZ./XJ.1Z
D50023	C200	5	17.6	200	3	200	3	6.9	10.9x4.5x6.9
D100023	C200	10	30	200	3	200	3	16.3	15.4x5.6x7.9
D30043	S100	3	7.2	400	3	400	3	2.04	6.14x2.7x5.12
D50043	S100	5	8.8	400	3	400	3	2.04	6.14x2.7x5.12
D75043	C200	7.5	13.5	400	3	400	3	6.9	10.9x4.5x6.9
D100043	C200	10	17	400	3	400	3	6.9	10.9x4.5x6.9
D30053	C200	3	3.9	575	3	575	3	16.3	15.4x5.6x7.9
D50053	C200	5	6.1	575	3	575	3	16.3	15.4x5.6x7.9
D75053	C200	7.5	10	575	3	575	3	16.3	15.4x5.6x7.9
D100053	C200	10	12	575	3	575	3	30.9	14.4x8.3x9

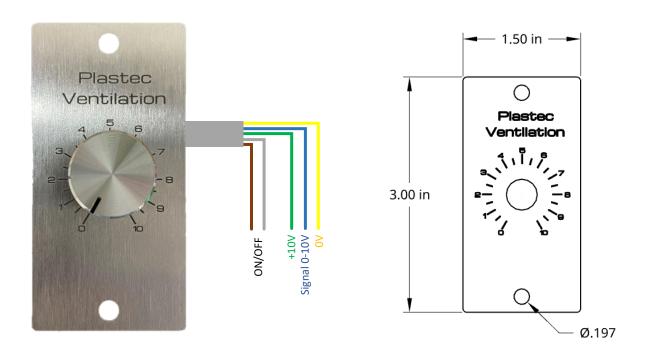


	S100/C200
ENVIRONMENT	
Ambient Operating Temperature	-20°C to 40°C (-4°F to 104°F) @ 3 kHz switching freq. Operation to 60°C (140°F) with derating
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Cooling Method	Forced convection (cooling fan)
Humidity	95 % non-condensing at 40°C / 104°F - EN61800-2(3k3)
Altitude	≤3000m (1000 m to 3000 m derate 1 % over 100 m)
Vibration	Tested to IEC 60068-2-6
Enclosure Rating	IP20, NEMA 1
Electromagnetic compatibility	EN 61000-6-4: Generic emission standard for industrial environments
Maximum Motor Cable Length	50 m (164ft)
AC SUPPLY REQUIREMENTS	
Voltage	100 V models: 100 to 120 Vac ±10% 200 V models: 200 to 240 Vac ±10% 400 V models: 380 to 480 Vac ±10% 575 V models: 500 to 575 Vac ±10%
Maximum supply imbalance	2% negative phase sequence, 3% voltage imbalance between phase
Input Frequency	45 to 66 Hz
Output Frequency	0 to 300Hz
Switching Frequency	4, 6, 8 12 kHz 0.667, 1, 2, 3, 4, 6, 8 12 & 16kHz
APPROVALS & LISTINGS	
CE, UKCA, cUL, C-Tick, EAC, KC	

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFI
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Contractor	



DIAL POTENTIOMETER



FEATURES

0/10V potentiometer with a dial to increase/decrease fan RPM thru a VFD or any device working with 0/10V signal.

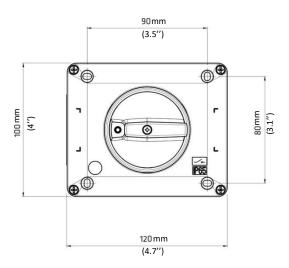
- Cable length: 7.5ft
- 5 wires 22AWG (0.34mm²)
- Color coded wires.
- Dial features an ON/OFF switch in position "0" with brown and grey wire.
- · Aluminum front panel with laser engraved numbering.

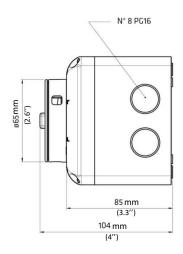
Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFIT
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DISCONNECT SWITCH







FEATURES

Enclosed motor disconnect switch or rotary disconnect switch with 3 poles can be used with single phase and three phase motors. UL508 Listed with ratings of 600 volts, 32 amps for motors rated from 1.5 HP to 15 Hp. With an IP65 / NEMA 4X rating, suited for outdoor applications, weatherproof. The housing is black with a yellow cover and includes a red lockable handle that can accept up to 3 locks in the 0 to Off position. For secure wiring, the enclosed motor disconnect switch has PG16 cable gland knockouts.

Weight	0.95 lbs
Dimensions (DxWxH)	5 × 4 × 4.5 in
Current rating	32 A
Protection type	NEMA 4X and IP65
Voltage	600 V
Number of poles	3

Project Name	GUILDFORD AQUATIC CENTRE - GAS STRIPPER RETROFI
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SPECIFICATION SUBMITTAL DATA PLASTEC SERIES

APPLICATION

PLASTEC® Series blower system designed to operate in highly corrosive and hazardous air applications such as: Laboratories, Chemical / Pharmaceutical Industries, Wastewater Treatment Plants, Petroleum Industries, EV Industries, Aquatic Industries, etc...

MANUFACTURER

PLASTEC® Series blowers shall be manufactured under the authority of PLASTEC Ventilation, Inc. located in Bradenton, Florida.

HOUSING

The housing is manufactured from a robust high-density UV treated polypropylene composite material to ensure superior corrosion and hazardous resistance. Constructed as a single seamless piece, either blow molded or injection molded, to prevent any gas or fume leakage. Split molded housings are not permitted. Housing comes with high-grade stainless-steel hardware, which supports the motor plate to the housing securely. It allows for field reversibility, except for PLASTEC® 35 & 50 models, and can be rotated to any eight (8) standard discharge positions. It's essential to note that the presence of metal within the housing's air stream will not be tolerated. (Option: Carbon Impregnated Polypropylene (CIP) Spark A compliant housing available upon specific request. See Specification Submittal Data for Explosion-Resistant Series)

IMPELLER

The impeller shall be of forward-curved type, constructed of robust and uniformly infusion molded high-density polypropylene composite material. The impeller shall be both electronically and dynamically balanced. The blower impeller shall be equipped with a keyed motor hub bushing and O-ring sealed hubcap manufactured from polypropylene material to fully safeguard the motor shaft end from any contact with corrosive gases and fumes. The impeller will be suitable for up to 3600RPM on models PLASTEC® 15, 20, and 25, and up to 1800RPM on models PLASTEC® 30 and 35. (Option: High-grade stainless-steel impeller available for models PLASTEC® 20, 25, 30 & 35 upon specific request)

SUPPORT STRUCTURE

The PLASTEC® Series blower system offers multiple optional support stands: 1. A galvanized enamel pickled black coated support stand with high-grade stainless-steel hardware. 2. A high-grade stainless steel support stand with high-grade stainless-steel hardware. 3. A Weather Hood/Pedestal enclosure manufactured from high-density UV treated polypropylene composite material. This enclosure is designed to protect the motor against elements and provide support for the entire blower system. 4. An Aluminum gray powder coated finish Weather Hood/Pedestal enclosure. This enclosure is designed with a reversible inspection access hood, ensuring complete protection for the motor against elements while supporting the entire blower system.

MOTORS

The motors shall be of high premium efficiency, direct drive, heavy-duty ball bearing type, suitable for continuous and/or inverter duty operations with multi-voltage capability. Totally enclosed fan cooled (TEFC) IP55 rated with a 1.15 safety factory. Motors will have an aluminum material construction with heatsink fins throughout, ensuring efficient cooling. Motor features a high-strength high carbon steel shaft, which is electronically and dynamically balanced, specifically selected for continuous operations at indicated rated RPM on the nameplate. Includes an airtight seal around shaft on drive side to prevent any internal motor exposure. All motors comply with IEC, UL, and CSA approval standards. (Option: Explosion-resistant IP66 rated motors available upon specific request. See Specification Submittal Data for Explosion-Resistant Series)

MATERIALS OF CONSTRUCTION TEMPERATURE LIMITATION

Polypropylene housing and impeller are designed and approved for continuous option within a temperature range of -40°F to 140°F. Also, capable of handling shot periods of operations at high temperatures, up to 190°F, in 15-minute intervals.

PERFORMANCE

PLASTEC Ventilation, Inc. certifies that the PLASTEC® Series, JET® Series and STORM® Series are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA publication 211 and 311 comply with the requirements of the AMCA CRP. Performance certified is for installation type D – Ducted inlet, Ducted outlet. The sound power level ratings shown are calculated per AMCA standard 301. Acoustic values shown are sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end corrections.

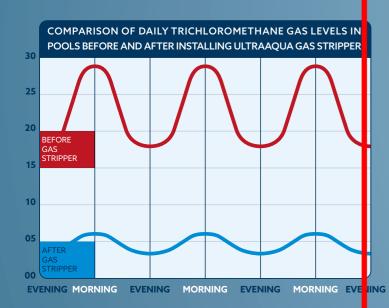
WARRANTY

Plastec Ventilation, Inc. warrants its equipment, products, and parts, to be free from defects in workmanship and material under normal use and service for two years (2) after delivery to the first user. Motors carry a one-year (1) warranty. (See full warranty available in the Installation, Operation & Maintenance Manual)

REDUCING GASEOUS CHLORAMINES AND TRIHALOMETHANES

ALSO AVAILABLE IN GRAVITATIONAL VERSION FOR EASY MOUNTING AND IMPLEMENTATION IN TECHNICAL ROOMS ALLOWING GRAVITY RETURN

OPTIMAL CONTROL OF THMS AND GASEOUS CHLORAMINES IN POOLS



GS 101, 201 & 301

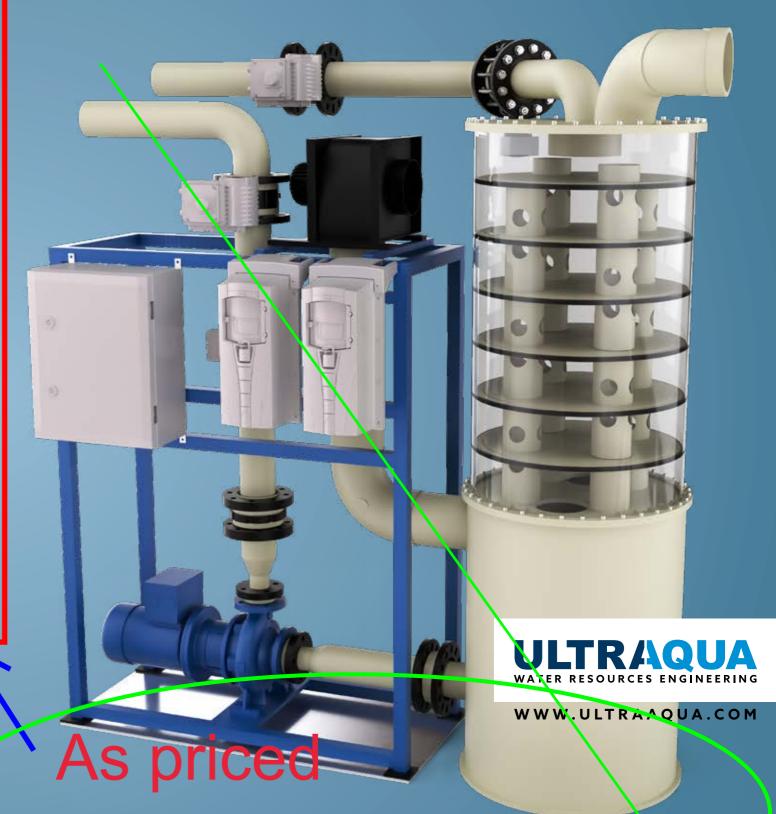
GENERAL SPECIFICATIONS

MODEL	TYPE	НР	FLOW	AIR OUT	WATER IN	WATER OUT	WITH	LENGTH	HEIGHT	WEIGHT
UAQ1	GAS Stripper Gravitation*1	1,5 kW	10-30 m ³ /h	Ø160	Ø160	Ø160	800 mm	1000 mm	2300 mm	100 kg
UAQ2	GAS Stripper Pressure*2	1,5 kW	10-30 m ³ /h	Ø160	Ø160	Ø160	1000 mm	1800 mm	2300 mm	180 kg
UAQ1 Stand	Shelf for gravitaion Stripper	-	-	-	-	-	900 mm	900 mm	-	-

- *1 If levels in technical room allows for gravity return to balance tank or pool the gravitational version is simple in design and operation
- *2 For basement installation a pressure system offers pressurized return to pool

GAS STRIPPER

FOR VOLATILE DISENFECTION BYPRODUCT REDUCTION



INCLUDES: Gas stripper; companion shelf shown & adaptors for air & water connectors DIN to N American sizes

STRIPPING THM OUT OF WATER ALLOWS FOR MORE PEOPLE IN POOLS

