

PRESSURE DISTRIBUTION & MOUND DIMENSION DETAILS

CLIENT'S NAME: Peysner Lot | C  
 DATE: 8/6/2018 PERFORMED BY: S. Revell LAG Project #: 17041

Design Flow Rate		490 GPD
Width of Distribution Stone Bed/Trench		7 FEET
Length of Distribution Stone Bed/Trench		70 FEET
Thickness of Sand Beneath Distribution Stone Bed/Trench		2.5 FEET
Thickness of Stone Beneath Laterals		6 INCHES
Soil Cover Thickness at Edge of Level Area		12 INCHES
Front Slope of Finished Mound		33 PERCENT
Side and Rear Slope of Finished Mound		33 PERCENT
Percolation Rate		40 MPI
Natural Ground Slope		10 PERCENT
Thickness of Sand on Upper Side of Level Area		3.15 FEET
Thickness of Sand on Lower Side of Level Area		4.05 FEET
Width of Level Area		9 FEET
Length of Level Area		72 FEET
Area of Distribution Stone Bed/Trench		490 SQUARE FT
Volume of Stone Required		11 CUBIC YARDS
Proposed Basal Area		1933 SQUARE FEET
Volume of Mound Sand Required		399.8 CUBIC YARDS
Number of Laterals		4
Length of Each Lateral		32.5 FEET
Number of Orifices in the Manifold		0
Number of Orifices in Each Lateral		7
Distance Between Manifold and First Orifice		2.5 FEET
Distance Between Orifices (on center)		5 FEET
Distribution Area per Orifice		17.50 SQ. FT.
Design Pressure Head		3 FEET
Diameter of Orifices (enter as fraction)		0.188 INCHES
Elevation From Pump Intake to Laterals (0 if siphon)		8 FEET
Diameter of Force Main		2 INCHES
Length of Force Main		70 FEET
Length of Manifold to Lateral		2 FEET
Diameter of Manifold Pipe		2 INCH
Diameter of Lateral Pipe		2 INCH
Friction Loss in Force Main		0.58 FEET
Friction Loss in Manifold		0.00 FEET
Friction Loss in Section 1		0.00 FEET
Friction Loss in Entire Lateral		0.01 FEET
Discharge Rate at First Orifice		0.72 GPM
Discharge Rate at Last Orifice		0.72 GPM
Percent Difference in Flow Rate First to Last Orifice		0.08 PERCENT
Total Dynamic Head Loss		11.605 FEET
Total Distribution System Flow		20.10 GPM
Volume of Distribution System		21.22 GALLONS
Pump Capacity	20.10 GPM vs	11.605 FEET OF HEAD
Volume per Dose		125 GALLONS
On/Off Float Swing (1000 gal. Tank)		4.0 INCHES

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DIMENSIONS OF MOUND SYSTEM

Dimensions of Mound Sand

7.3 feet from level area to uphill sand toe	10.4 ft corner of level area to upper toe corner
9 ft wide level area	9.5 ft to side toe from upper edge of level area
7 ft wide stone bed/trench	
70 ft long stone bed/trench	12.3 ft to side toe from lower edge of level area
72 ft long level area	
17.6 feet from level area to downhill sand toe	24.9 ft corner of level area to lower toe corner

Dimensions of Final Cover

9.7 feet from level area to uphill toe	13.6 ft corner of level area to upper fill toe
	12.6 ft to side toe from upper edge of level area
9 ft wide level area	
72 ft long level area	15.3 ft to side toe from lower edge of level area
	31.1 ft corner of level area to lower fill toe
22.0 feet from level area to downhill toe	

PLOW AREA LAYOUT MEASUREMENTS

Center of Bed/Trench to Downslope Toe	63.7 feet
End of Level Area @ Midpoint to Downslope Toe	34.4 feet
Center of Bed/Trench to Upslope Toe	47.8 feet
End of Level Area @ Midpoint to Upslope Toe	17.1 feet

LotC

# HYDROMATIC®

## SHEF30

### Submersible Effluent Pump

- Effluent Septic Tank

Automatic operation features easily adjustable, wide-angle float switch with a piggyback plug-in arrangement that allows for simple conversion to manual operation. Special inlet design allows pump to handle 3/4" solids. Cast iron body and an oil-filled motor provide superior cooling characteristics for longer pump life. Motor windings contain automatic thermal overload protection. Energy efficient .3 HP motor pumps up to 35 GPM at 10' total dynamic head. Discharge is 1-1/2" N.P.T.



May be operated manually or automatically with a piggyback switch.



# SHEF30 - Submersible Effluent Pump

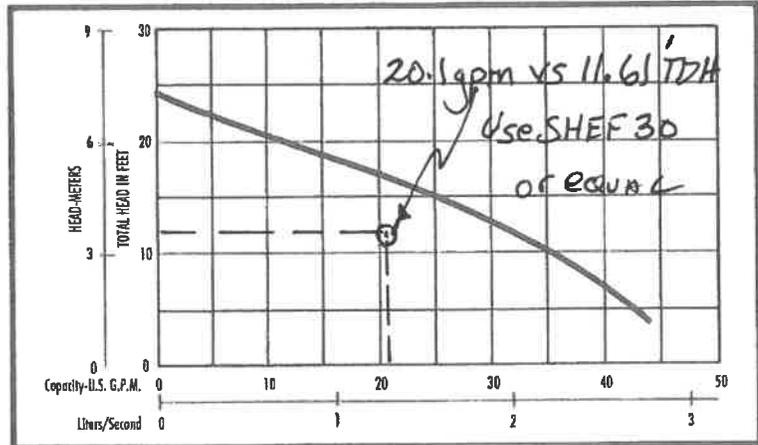
## Details

LoTC

### Pump Characteristics

Pump/Motor Unit	Submersible
Automatic Model	SHEF30A1
Horsepower	.30
Full Load Amps	8.0
Motor Type	Shaded Pole (4 pole)
R.P.M.	1550
Phase Ø	1
Voltage	115
Hertz	60
Temperature	120°F Ambient
NEMA Design	A
Insulation	Class A
Discharge Size	1-1/2" NPT (38mm)
Solids Handling	3/4" (19mm)
Unit Weight	30 lbs.
Power Cord	18/3, SJTW, 20' std.

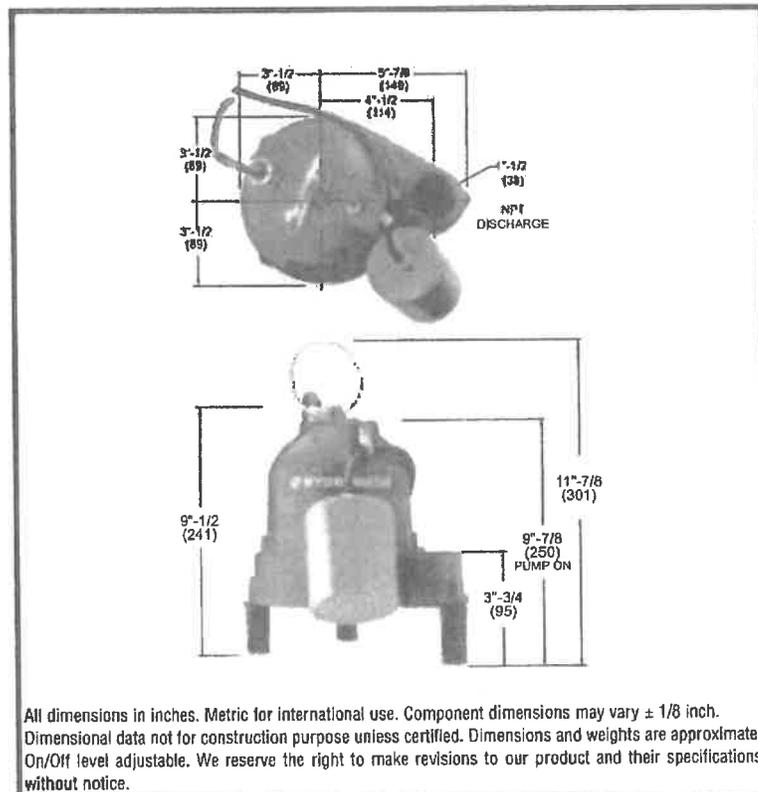
### Performance Data



### Materials of Construction

Handle	Stainless Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Volute	Cast Iron
Shaft	Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Anodized Steel Spring: Stainless Steel Bellows: Buna-N
Impeller	Engineered Thermoplastic
Upper Bearing	Cast Iron Sleeve
Lower Bearing	Single Row Ball Bearing
Legs	Engineered Thermoplastic
Fastener	Stainless Steel

### Dimensional Data



All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable. We reserve the right to make revisions to our product and their specifications without notice.



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