

HYDROMATIC® HIGH HEAD FILTERED EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR HIGH PRESSURE APPLICATIONS.

These high performance, high head pumps are proven to be cost effective solutions for pumping filtered effluent from processed wastewater systems.

Product Features Include:

- High pressure capacity.
- Corrosion resistant design for long life.
- UL and CSA listed.
- Dependable field proven motor.
 - Stainless steel construction
 - Built-in overload and electric surge protection
 - Replaceable 10' jacketed power cord
 - Hermetically sealed windings
 - Continuous duty rating
- Frequent cycling capabilities.
 - 1/2 and 3/4 HP – 300 starts/24 hours
 - 1 and 1-1/2 HP – 100 starts/24 hours
- Powerful, yet lightweight.
- Easy handling and installation.



Double Screened



HYDROMATIC® HE8/HE12/ HE20/HE25/HE30/HE35/HE50 HIGH HEAD FILTERED EFFLUENT PUMPS

HE8/HE12/HE20/HE25/HE30/HE35/HE50 HIGH HEAD FILTERED EFFLUENT PUMPS Pump Selection Guide

Ft.	Capacity (GPM)								
	HE8-51	HE8-52	HE8-72	HE8-12	HE12-51	HE12-52	HE12-72	HE12-12	HE20-51
50	13	13			18	18			24
60	13	13			18	18			22
70	13	13			17	17			21
80	13	13	13		17	17	18		19
90	12	12	13		16	16	18		18
100	12	12	13	13	16	16	17	18	
120	11	11	13	13	15	15	17	17	
140	11	11	12	13	13	13	16	17	
160	10	10	11	12	12	12	15	16	
180	9	9	11	12			14	15	
200	8	8	11	12			13	15	
220	7	7	10	11			12	14	
240	5	5	9	11			11	13	
260			9	11				12	
280			8	10				11	
300			7	10				10	
320			6	9					
340			5	9					
360			4	8					
380				7					
400				6					
420				5					
440				4					
460									
480									
500									
Max Head (valve closed)	290' 125 psi	290' 125 psi	390' 169 psi	480' 208 psi	240' 104 psi	240' 104 psi	310' 134 psi	380' 165 psi	130' 56 psi

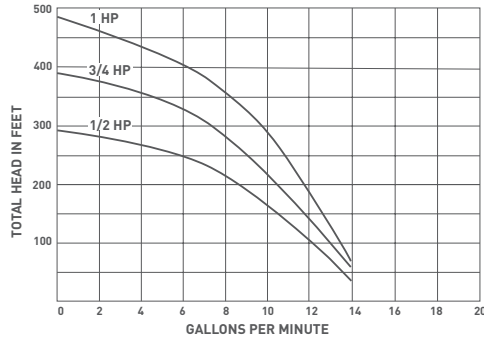
Ft.	Capacity (GPM)									
	HE20-52	HE20-72	HE20-12	HE20-152	HE25-12	HE25-152	HE30-51	HE35-12	HE35-152	HE50-152
50	24	26	28		38	42	34	48		72
60	22	25	27		36	40	30	44	52	68
70	21	24	26	28	35	39	27	37	47	65
80	19	23	25	27	33	38	23		44	60
90	18	22	25	27	32	37	18		41	56
100		21	24	26	30	35	12		37	52
120		19	23	25	27	33				42
140		17	21	25		30				28
160			19	23		26				
180			17	22						
200			16	22						
220				20						
240				19						
260				17						
280				16						
300				13						
320				10						
340										
360										
380										
400										
420										
440										
460										
480										
500										
Max Head (valve closed)	130' 56 psi	190' 82 psi	260' 112 psi	350' 151 psi	115' 50 psi	200' 87 psi	270' 117 psi	110' 48 psi	160' 69 psi	165' 71 psi

HE8/HE12/HE20/HE25/HE30/HE35/HE50 HIGH HEAD FILTERED EFFLUENT PUMPS

Performance Curves

8 GPM

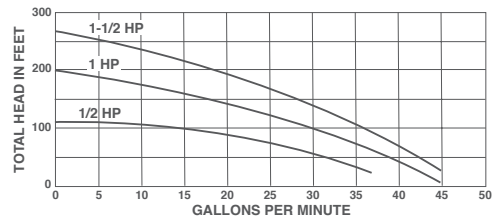
*Discharge Size 1-1/4" NPT



HP	Voltage	Pump Model
1/2	115	HE8-51
1/2	230	HE8-52
3/4	230	HE8-72
1	230	HE8-12

25 GPM

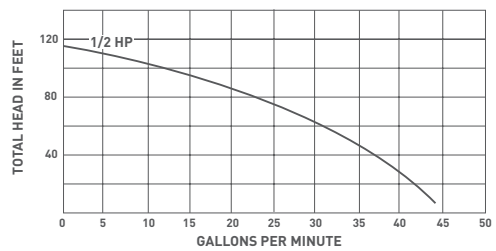
*Discharge Size 2" NPT



HP	Voltage	Pump Model
1/2	115	HE25-051-10
1	230	HE25-152
1 1/2	230	HE25-152

30 GPM

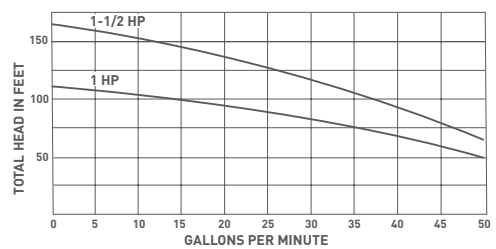
*Discharge Size 1-1/4" NPT



HP	Voltage	Pump Model
1/2	115	HE30-51

35 GPM

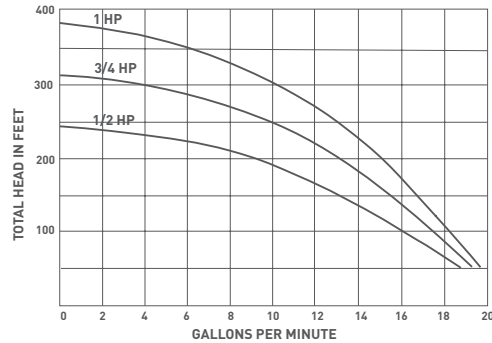
*Discharge Size 2" NPT



HP	Voltage	Pump Model
1	230	HE35-12
1 1/2	230	HE35-152

12 GPM

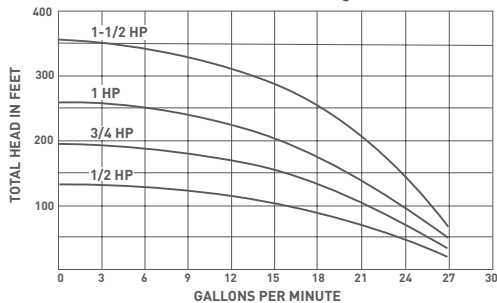
*Discharge Size 1-1/4" NPT



HP	Voltage	Pump Model
1/2	115	HE12-51
1/2	230	HE12-52
3/4	230	HE12-72
1	230	HE12-12

20 GPM

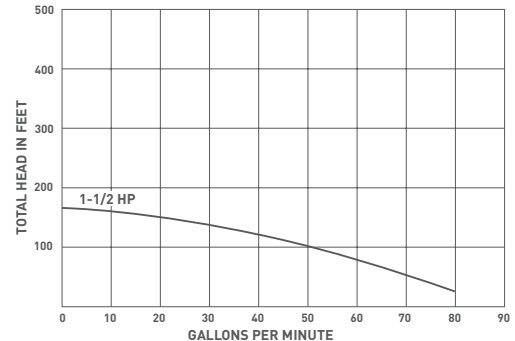
*Discharge Size 1-1/4" NPT



HP	Voltage	Pump Model
1/2	115	HE20-51
1/2	230	HE20-52
3/4	230	HE20-72
1	230	HE20-12
1 1/2	230	HE20-152

50 GPM

*Discharge Size 2" NPT



HP	Voltage	Pump Model
1 1/2	230	HE50-152

HE8/HE12/HE20/HE25/HE30/HE35/HE50 HIGH HEAD FILTERED EFFLUENT PUMPS

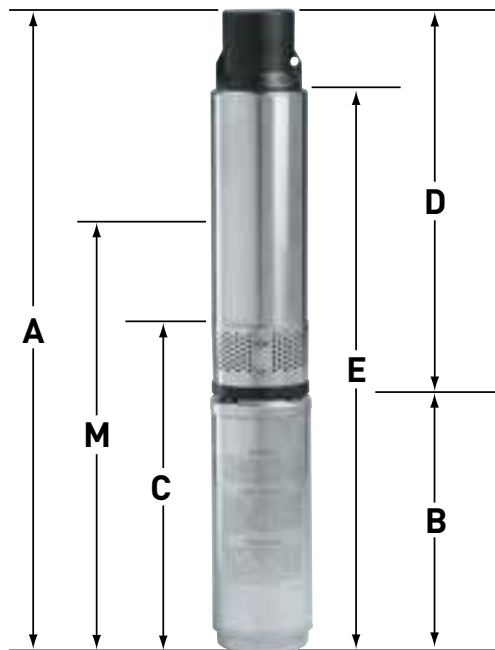
PUMP CHARACTERISTICS

Pump/Motor Unit	High Head Filtered Effluent Pump
Capacities To	72 GPM
Heads To	480 Feet
Max. Spherical Solids	1/16" Diameter
Liquids Handling	Filtered Effluent
Max Liquid Temp.	122° F
Motor Electrical Data	1/2 HP, 115 volts, 1 ph. 1/2-1-1/2 HP, 230 volts, 1 ph. 60 Hz, 3450 RPM
Motor Rating	Continuous Duty
Max. Motor Starts/24 Hours	300 (1/2 HP) 100 (1 and 1-1/2 HP)
Third Party Listings	CSA
Specific Gravity	.9 - 1.1
Viscosity	28 - 35 SSU
Discharge, NPT	1-1/4" (8, 12, 20, & 30 GPM) 2" (25 and 35 GPM)
Shell	300 Series SST
Shaft and Coupling	300 Series SST
Suction Bowl	Chemically Resistant Reinforced Nylon
8, 12, 20 GPM	300 Series SST
25, 35, 50 GPM	

MATERIALS OF CONSTRUCTION

Discharge Bowl	Corrosion Resistant
8, 12, 20 GPM	Reinforced Polycarbonate
25, 35, 50 GPM	300 Series SST
Staging	Premier Teflon Reinforced Polyester
8, 12, 20 GPM	Reinforced Polycarbonate
25, 35, 50 GPM	
Built-in Check Valve	Premier Teflon
8, 12, 20 GPM	Reinforced Polyester
Thrust Washer	Phenolic
Fasteners	300 Series SST
Impeller Wear Ring	300 Series SST
Shell and End Caps	SST
Spline Shaft	SST
Electrical Protection	Built-in Overload and Surge Arrestor
Third Party Listings	CSA
Replaceable Motor	14-3 Jacketed Type SJOW-A
Lead Wire Assembly	CSA Recognized
Windings	Hermetically
Motor Mounting	NEMA

DIMENSIONAL DATA



MODEL	A	B	C	D	E	M	DISCHARGE
HE8-51	24-1/4"	9-1/2"	12"	14-3/4"	20-3/4"	19-1/2"	1-1/4"
HE8-52	24-1/4"	9-1/2"	12"	14-3/4"	20-3/4"	19-1/2"	1-1/4"
HE8-72	26"	10-1/2"	13"	15-1/2"	22-1/2"	21"	1-1/4"
HE8-12	29-3/4"	11-3/4"	14-1/4"	18"	26-1/4"	23"	1-1/4"
HE12-51	23-1/4"	9-1/2"	12"	13-3/4"	19-3/4"	20"	1-1/4"
HE12-52	23-1/4"	9-1/2"	12"	13-3/4"	19-3/4"	20"	1-1/4"
HE12-72	26-1/4"	10-1/2"	13"	15-3/4"	22-3/4"	21-1/2"	1-1/4"
HE12-12	29"	11-3/4"	14-1/4"	17-1/4"	25-1/2"	23-1/2"	1-1/4"
HE20-51	23-1/2"	9-1/2"	12"	14"	20"	20"	1-1/4"
HE20-52	23-1/2"	9-1/2"	12"	14"	20"	20"	1-1/4"
HE20-72	25-1/2"	10-1/2"	13"	15"	22"	22"	1-1/4"
HE20-12	27-1/2"	11-3/4"	14-1/4"	15-3/4"	24"	26"	1-1/4"
HE20-152	34-1/4"	15-1/4"	17-3/4"	19"	30-3/4"	27"	1-1/4"
HE30-51	23-1/2"	9-1/2"	12"	14"	20-1/2"	20"	1-1/4"
HE25-12	29-3/4"	11-3/4"	14-1/4"	18"	28"	27"	2"
HE25-152	36-1/4"	15-1/4"	17-3/4"	21"	34-1/2"	29"	2"
HE35-12	26-1/4"	11-3/4"	14-1/4"	14-1/2"	24-1/2"	27"	2"
HE35-152	33-3/4"	15-1/4"	17-3/4"	18-1/2"	32"	29"	2"
HE50-152	34"	15-1/4"	17-3/4"	21"	32-1/4"	29"	2"

All dimensions in inches. Metric for international use. Component dimensions may vary $\pm 1/8$ inch.
Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate.
On/Off level adjustable.



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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.