

PUMPING EQUIPMENT OF CHICAGO WATER WORKS IN OPERATION DEC. 31, 1936

Condenser	Air Pump										Reduction Gear				Plunger					Centrifugal				PUMP END										REMARKS			
	TYPE	Square Feet Surface	TYPE OR OPERATION	Number	Dia., Inches		Stroke, Inches	Revolutions per Minute	TYPE AND PITCH OF TEETH	Pitch, Diameter Driven Gear, Inches	Pitch, Diameter Flion Gear, Inches	Gear Ratio	TYPE OF PUMP	Plunger			Valves		NAME OF MAKER	Diameter, Inches			MATERIAL IN IMPELLER	Revolutions per Minute	Manufacturers Rated Capacity			Maximum Safe Capacity			Slip				Head in Feet		Date of Erection
					Number	Steam Cylinder								Plunger	Number	Diameter, Inches	Stroke, Inches	Displacement per Rev., cu. ft.		TYPE	Number	Size, Inches			Impeller	Suction	Discharge	Gallons per Revolution	Gallons per Minute	*Million Gallons Daily	Million Gallons per Day	Per Cent of Rated Capacity	How Determined		Probable Average Slip Per Cent	Estimated Actual Capacity M.G.D.	
None		None					710	None				Centrifugal						De Laval	33	30	30	Government Br.	710		27,780	40	45	112	Venturi		45	130	128	1920			
Surface	1000	Independent	1	9	22	12	61					Centrifugal						De Laval	33	30	30	Government Br.	710		27,780	40	45	112	Venturi		45	130		1920			
Surface	1000	Independent	1	9	22	12	61					Centrifugal						De Laval	33	38	30	Government Br.	710		27,780	40	45	112	Venturi		45	130		1921			
Surface	1000	Independent	1	9	22	12	61					Centrifugal						De Laval	33	38	30	Government Br.	710		27,780	40	45	112	Venturi		45	130		1921			
Surface	1800	Independent	1	8	18	12	1550					Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	384					61	285	17,360	25	30	120	Venturi	2.5	29.25	110		1904		
Surface	1800	Independent	1	8	18	12	1550					Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	384					61	285	17,360	25	30	120	Venturi	2.5	29.25	110		1906		
Surface	1800	Independent	1	8	18	12	1550					Vert. Trip. Single Acting	3	32 1/2	60	29.25	Automatic	840	3 1/2					18 1/2	563	10,416	15	18	120	Pitometer	8	16.56	125	105	1891		
Surface	1800	Independent	1	8	18	12	1550					Vert. Trip. Single Acting	3	32 1/2	60	29.25	Automatic	840	3 1/2					18 1/2	563	10,416	15	18	120	Pitometer	8	16.56	125	105	1892		
Surface	1800	Independent	1	8	18	12	1550					Vert. Trip. Single Acting	3	32 1/2	60	29.25	Automatic	840	3 1/2					18 1/2	563	10,416	15	18	120	Venturi	8	16.56	125	105	1892		
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Automatic	1200	4 1/2			20	1079	20,840	30	32	107	Pitometer	7	29.76	125	130	1898			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Allis Chalmers	28	30	2@18	Government Br.	1550		17,360	25			Venturi			130		1914			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						American Well Wks.	29 1/2	36	30	Government Br.	710		17,360	25	26.5	106	Pitometer		28	120	103	1919			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Platt Iron Wks.	39 1/2	36	30	Government Br.	514		13,888	20	20	100	Venturi		24	130		1912			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						American Well Wks.	29 1/2	36	30	Government Br.	710		17,360	25	26.5	106	Pitometer		28	120		1919			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Platt Iron Wks.	39 1/2	36	30	Government Br.	514		13,888	20	20	100	Venturi		24	130		1912			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Worthington	33 1/2	36	30	Government Br.	710		20,833	30			Venturi			140	113	1921			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Worthington	33 1/2	36	30	Government Br.	710		20,833	30			Venturi			140		1920			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Worthington	33 1/2	36	30	Government Br.	710		27,780	40			Pitometer			125		1919			
Surface	1800	Independent	1	8	18	12	1550					Centrifugal						Worthington	33 1/2	36	30	Government Br.	710		27,780	40			Pitometer			125		1922			
Surface	1800	Independent	1	8	18	12	1550					Hor. Dup. Double Acting	2	31 1/2	40	18.18	Automatic	700	3 1/2					23	534	9,720	14	17.5	125	Pitometer	7	16.28			1898		
Surface	1800	Independent	1	8	18	12	1550					Hor. Dup. Double Acting	2	24	42	11.0	Automatic	1000	4					48	320	13,890	20	24	120	Pitometer	3 1/2	23.16			1906		
Surface	1100	Independent	1	9	22	12	62	None				Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	424					62	285	17,360	25	30	120	Venturi	2.5	29.25	125	123	1915		
Surface	1100	Independent	1	9	22	12	62	None				Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	424					62	285	17,360	25	30	120	Venturi	2.5	29.25	125		1912		
Surface	1100	Independent	1	9	22	12	62	None				Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	424					62	285	17,360	25	30	120	Venturi	2.5	29.25	125		1912		
Surface	1100	Independent	1	9	22	12	62	None				Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	424					62	285	17,360	25	30	120	Venturi	2.5	29.25	125		1914		
Surface	4700	Air Rotex	1				3800	Involute 5 Pitch.	50.6	7	7.17	Centrifugal						De Laval	47	42	36	Manganese Br.	530		41,600	60			Venturi			150	113	1922	3 Croll Reynolds steam jet evactors as auxiliaries to Rotex Air Pumps.		
Surface	4700	Air Rotex	1				3800	Involute 5 Pitch.	50.6	7	7.17	Centrifugal						De Laval	47	42	36	Manganese Br.	530		41,600	60			Venturi			150		1924			
Surface	4700	Air Rotex	1				3650	Involute 5 Pitch.	50.6	7	7.23	Centrifugal						De Laval	47	42	36	Manganese Br.	505		41,600	60			Venturi			150		1926			
Surface	4700	Air Rotex	1				3800	Involute 5 Pitch.	50.6	7	7.17	Centrifugal						De Laval	47	42	36	Manganese Br.	530		41,600	60			Venturi			150	111	1922			
Surface	4700	Air Rotex	1				3800	Involute 5 Pitch.	50.6	7	7.17	Centrifugal						De Laval	47	42	36	Manganese Br.	530		41,600	60			Venturi			150		1922			
Surface	4700	Air Rotex	1				3650	Involute 5 Pitch.	50.6	7	7.23	Centrifugal						De Laval	47	42	36	Manganese Br.	505		41,600	60			Venturi			150		1925			
Surface	1000	Direct Drive	1	22	60	25	None					Vert. Trip. Single Acting	3	34	60	31.52	Automatic	1476	3 1/2					25	707.5	17,360	25	26.25	105	Venturi	3.5	25.33	140	E 118	1911		
Surface	1000	Direct Drive	1	22	60	25	None					Vert. Trip. Single Acting	3	34	60	31.52	Automatic	1476	3 1/2					25	707.5	17,360	25	26.25	105	Venturi	3.5	25.33	140	W160	1911		
Surface	1200	Independent	1	9	22	12	25					Vert. Trip. Single Acting	3	34	60	31.52	Automatic	1476	3 1/2					25	707.5	17,360	25	26.25	105	Venturi	3.5	25.33	140		1915		
Surface	1200	Independent	1	9	22	12	25					Vert. Trip. Single Acting	3	34	60	31.52	Automatic	1476	3 1/2					25	707.5	17,360	25	26.25	105	Venturi	3.5	25.33	140		1915		
Surface	325	Independent	1	5	12	10	2750					Centrifugal						Worthington	8	13x13	14	Government Br.	2750		3,472	5	5	100	Venturi		5			1914			
Surface	325	Independent	1	5	12	10	2750					Centrifugal						Worthington	8	13x13	14	Government Br.	2750		3,472	5	5	100	Venturi		5			1914			
Surface	1200	Independent	1	9	22	14	62	None				Vert. Trip. Single Acting	3	20 1/2	48	8.9	Mech. Control	12	284 sq.					62	198	12,130	17.5	20.5	118	Venturi	2.5	19.5	231	164	1918	H. & L. indicate High and Low pressure turbines, and both figures apply to pumping unit No. 8 and also No. 9.	
Surface	1200	Independent	1	9	22	14	62					Vert. Trip. Single Acting	3	20 1/2	48	8.9	Mech. Control	12	in. each					62	198	12,130	17.5	20.5	118	Venturi	2.5	19.5	231		1918		
Surface	1200	Independent	1	9	22	14	62					Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	4 24 sq.					62	285	17,360	25	30	120	Venturi	2.5	29.25	160		1918		
Surface	1200	Independent	1	9	22	14	62					Vert. Trip. Single Acting	3	24 1/2	48	12.7	Mech. Control	12	in. each					62	285	17,360	25	30	120	Venturi	2.5	29.25	160		1918		
Surface	1200	Independent	1	9	22	14	62</																														