

CONDENSATOR

2.0

Series PH Model PH-500

Barnes & Jones[®]
INC.

Designed to provide years of maintenance free operation, the Condensator 2.0 Model PH is a simple and compact unit, perfect for limited space applications. The Series PH is externally powered, and has single tank capacities up to 4.94 GPM or 2,470 lbs./hr.

Specifications

Body	Cast Iron
Mechanism	All moving parts stainless steel
Maximum Temperature	400 F (205 C)
Maximum Pressure	200 PSIG (14 BAR)
Operating ΔP	90 PSIG (6.1 BAR) standard valves 200PSIG (14 BAR) HP valves
Weight	175 lbs. (80 kg)
Footprint	19 7/16" x 14 5/16"

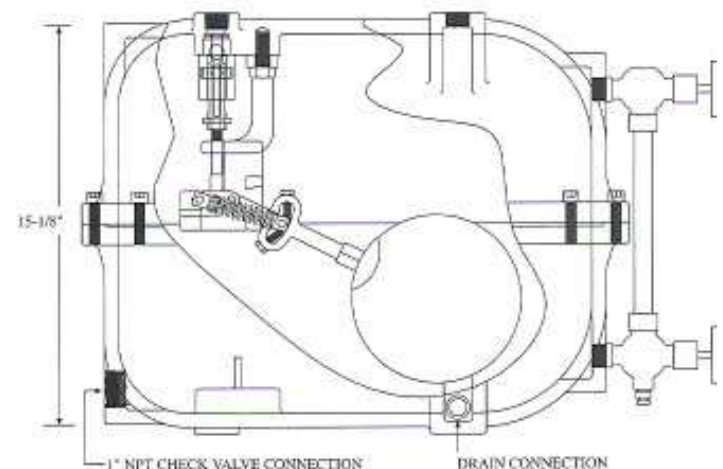
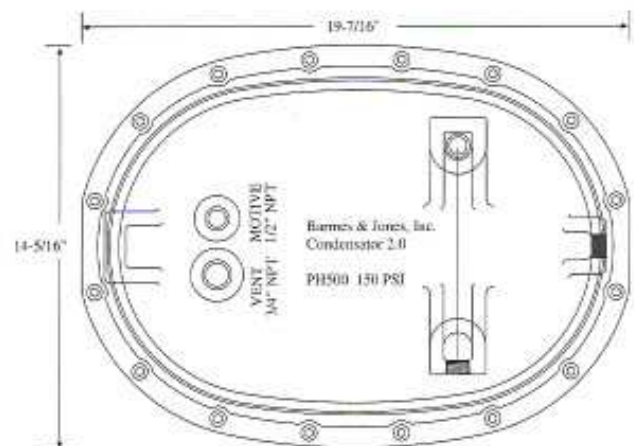


Applications

- Condensate temps greater than 185°F
- Where footprint size is a consideration
- Remote locations with no electricity
- Converting existing condensators or boiler return traps
- Upgrading from vacuum pumps
- Returning condensate to boilers
- Explosive atmospheres
- Retrofit for existing receivers
- Closed Systems (no atmospheric vent)
- When you are constantly repairing burned out centrifugal pumps

Optional Accessories:

- Stainless Steel non-slam check valves
- Swing check valves
- Pressure gauge with syphon pipe
- Cycle counter
- Liquid level sight glass



Quick Reference Sizing Chart									
FILL HEAD IN FEET	TOTAL STATIC BACK PRESSURE (PSIG)	SWING CHECK VALUES		STAINLESS STEELCHECK VALVES					
		GPM	LB/HR	GPM	LB/HR				
0.5	10	3.30	1,650	NOT RECOMMENDED					
	20	2.96	1,480						
	30	2.70	1,350						
	40	2.40	1,240						
1.0	10	4.20	2,100						
	20	3.68	1,840						
	30	3.26	1,630						
	40	2.94	1,470						
1.5	10	4.64	2,320						
	20	4.00	2,000						
	30	3.52	1,760						
	40	3.14	1,570						
2.0	10	4.94	2,470	3.66	1,830				
	20	4.22	2,110	3.26	1,630				
	30	3.68	1,840	2.94	1,470				
	40	3.28	1,640	2.66	1,330				
3.0	10	NOT RECOMMENDED		4.84	2,420				
	20			4.14	2,070				
	30			3.62	1,810				
	40			3.22	1,610				
4.0	10			NOT RECOMMENDED		5.36	2,680		
	20					4.52	2,260		
	30					3.92	1,960		
	40					3.44	1,720		
5.0	10					NOT RECOMMENDED		5.66	2,830
	20							4.72	2,360
	30							4.06	2,030
	40							3.56	1,780

Motive pressure = Back pressure + 20 PSIG.

Steam consumption is approximately 1.5 lbs/1,000 lbs. of liquid pumped.

Fill head is the distance between the top of pump tank and bottom of receiving chamber.

Total static back pressure is the maximum height the fluid is pumped plus the discharge line pressure.

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CAGE UNIT CLASSIFICATION LIST

(con't.)

Type	Construction	Type	Construction	Type	Construction	Type	Construction
A	Diaphragm	B	Bronze Bellows	C	Monel Bellows (sm)	D	Monel Bellows (med)

Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type
4018*	A	4076	A	4137	A	4195	A	4252	A	4306	C	4359*	A	4413	B		
4019	A	4077	A	4138*	A	4196	A	4253*	C	4307	A	4360	A	4414*	A		
4020*	A	4078	A	4139	A	4197*	A	4254	C	4308	A	4361	D	4415*	B		
4021	A	4079	A	4140	B	4198	A	4255	C	4310	C	4362	B	4416	A		
4022	A	4080	A	4141	A	4199*	A	4256	A	4311*	A	4363	B	4417	A		
4023	A	4081	A	4142*	A	4200	A	4257*	C	4312	A	4364*	A	4418	B		
4024*	A	4082*	A	4143*	A	4201	A	4258	C	4314*	A	4365	A	4419	A		
4025*	A	4083	A	4144	A	4202*	A	4259	A	4315*	C	4366	C	4420	B		
4026	A	4084	A	4145*	A	4203*	A	4260	C	4316	A	4367	C	4422	B		
4027	A	4085	A	4146	A	4204	A	4261	C	4317	C	4368	B	4424	B		
4028*	A	4086	B	4147*	A	4205	A	4263*	C	4318	A	4369*	B	4425	A		
4029	A	4087*	A	4148*	A	4206	A	4264	C	4319	A	4370	B	4427	B		
4030*	A	4088	A	4149	A	4207	A	4265	C	4320*	A	4371	B	4428	A		
4031	A	4089	A	4150	A	4208	A	4266*	A	4321*	A	4372	B	4436	C		
4032*	A	4090	B	4151	A	4209*	A	4267*	A	4322*	A	4373	B	4437	A		
4033*	A	4091	A	4152	A	4210	A	4268*	C	4323	A	4374*	C	4440	A		
4034*	A	4093*	A	4153	A	4213	D	4269*	A	4324	B	4375	B	4441	A		
4037	A	4096	A	4154*	A	4214	D	4270	A	4325	B	4376	B	4442	A		
4038	A	4097	A	4156	A	4215	A	4271	C	4326	B	4377*	B	4443	D		
4041	A	4098	A	4157*	A	4216*	A	4272	B	4327	B	4378	B	4444	D		
4042	A	4100*	A	4158	A	4217	D	4273	B	4328	B	4379	B	4445	A		
4043*	A	4102	A	4159	A	4218	A	4274	B	4329	B	4380	A	4500	B		
4044*	A	4105	A	4160	A	4219*	A	4276	C	4330	B	4381	B	4999	A		
4045	A	4106	A	4161	A	4220*	A	4277	A	4331	B	4383	B	5000*	A		
4047	A	4107	A	4162	C	4221	A	4278*	A	4332	A	4384*	B	5001*	A		
4048*	A	4109*	A	4163	A	4222	A	4279*	A	4333	C	4385*	A	5002	A		
4049*	A	4110	A	4164	D	4223	A	4280*	A	4334	C	4386	B	5004	A		
4050	A	4111*	A	4165	C	4224*	B	4281	A	4335	B	4387*	B	5005	A		
4051	A	4112	A	4166	D	4225	A	4282*	A	4336	C	4388	A	5006*	A		
4052	A	4113*	A	4167	D	4226*	A	4283	C	4337	A	4389	B	5007*	A		
4053	A	4114	A	4168*	A	4227*	A	4284*	A	4338	A	4391	A	5010*	A		
4054	A	4115	A	4169*	A	4230*	A	4285	B	4339*	B	4392	C	5011	A		
4055*	A	4116	A	4170	D	4231	A	4286*	A	4340*	B	4393	B	5012	A		
4057	B	4117	A	4171	A	4232	A	4287	C	4341*	B	4394	A				
4058*	A	4118	A	4172*	A	4233*	A	4288	C	4342	B	4395	C				
4059*	A	4119*	A	4173	A	4235	A	4289	B	4343*	B	4396	A				
4060	A	4120	A	4174	A	4236	A	4290	A	4344	B	4397	B				
4061	B	4121	A	4175	B	4237	A	4291	C	4345	A	4398*	B				
4062	A	4122	B	4176	D	4238	B	4292*	A	4346*	B	4399*	A				
4063	A	4124*	A	4177	A	4240	A	4293	A	4347	C	4400	B				
4064	A	4125*	A	4178	A	4241	A	4294	A	4348*	C	4402	B				
4066*	A	4126	A	4179	A	4242	B	4295	A	4349*	A	4403*	A				
4065	A	4127*	A	4181	A	4243	A	4296	B	4350*	B	4404	A				
4067	B	4128	A	4182	A	4244	A	4297	A	4351	B	4405*	B				
4069	A	4129	A	4186	A	4245*	B	4298	A	4352	B	4406*	B				
4070	A	4130	A	4187*	A	4246	A	4299*	C	4353	A	4407	B				
4071	A	4131	A	4190	A	4247	A	4301	A	4354	B	4408	B				
4072	A	4132	B	4191*	A	4248*	A	4302	A	4355	C	4409	A				
4073	A	4133*	A	4192*	A	4249	B	4303	A	4356	B	4410	B				
4074	B	4134	A	4193	A	4250	A	4304	C	4357	B	4411	C				
4075*	A	4135	A	4194	A	4251	A	4305	A	4358	B	4412*	A				

BARNES & JONES, INC.

CAGE UNIT CLASSIFICATION LIST

See price list for current prices of Cage Units by types, also Covers if necessary

Type	Construction	Type	Construction	Type	Construction	Type	Construction
A	Diaphragm	B	Bronze Bellows	C	Monel Bellows (sm)	D	Monel Bellows (med)

Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type	Cage Unit No.	Type
101X	B	1990*	A	2124	A	2272*	A	2983	B	3141	A	3275*	A	3421*	A	3506	A	3566*	A
159P	A	1991	B	2132	A	2779	B	2987	A	3142	A	3276	B	3422*	A	3507	A	3567*	A
159X	B	1992	A	2134*	A	2781	B	3012*	A	3143	A	3279	A	3427*	A	3508	A	3568*	A
1721	A	1993	A	2136*	A	2790	A	3015*	A	3145	B	3282	A	3429*	A	3509	A	3569*	A
1722	A	1997	A	2137	A	2791	A	3016	A	3146	A	3284	A	3430	A	3510	A	3570	A
1723	B	1998	A	2147	A	2793	A	3019	A	3147	A	3288*	A	3431	A	3511	A	3571*	A
1730	A	2000*	B	2148	A	2805	A	3020*	B	3150	A	3294	A	3433	A	3512	A	3572*	A
1733	A	2001*	A	2149*	A	2806*	A	3021	A	3151*	A	3297*	A	3434*	A	3513	A	3573*	A
1748	A	2002*	B	2152*	A	2808	A	3023	A	3152*	A	3298	A	3435*	A	3514	B	3575*	A
1750	A	2003*	B	2153	B	2813	A	3024	B	3153*	A	3299	A	3436	A	3515	A	3576*	A
1751	B	2005*	A	2155	A	2814	A	3029	A	3155	A	3300	A	3437	A	3516	B	3577*	A
1757	C	2008	B	2157	A	2815	A	3030	A	3158	A	3306	A	3438	A	3517	A	3578*	A
1760	A	2012	A	2159	A	2818*	A	3034*	A	3159	A	3313*	A	3439	A	3518*	A	3579*	A
1762*	A	2020	A	2161*	A	2819	A	3035	B	3163*	A	3314	A	3440*	A	3520	A	3580	A
1764	A	2021	A	2162	A	2823	A	3036	A	3165	A	3325	A	3442	A	3522	B	3581*	A
1767*	A	2022	A	2163*	A	2825	A	3038*	A	3166	A	3329	A	3444	A	3523	A	3582*	A
1775	A	2023	B	2164*	A	2826*	A	3039	B	3167	A	3333*	A	3445	A	3524*	A	3584*	A
1781	A	2031*	A	2167	A	2830	A	3046	A	3168	A	3334*	A	3446	A	3525	A	3586	A
1783	A	2032*	A	2168	A	2835	A	3047*	A	3170	A	3335	A	3447*	A	3526*	A	3587	A
1785	A	2034	A	2171	A	2836*	A	3048	A	3172	A	3336*	A	3448*	A	3527*	A	3588*	A
1794	B	2035	A	2173	A	2840	A	3050*	A	3174*	A	3337	A	3449*	B	3528	B	3589	A
1797*	A	2041	B	2175	A	2849*	A	3053*	A	3176*	A	3338	A	3460*	A	3529	A	3590*	A
1903	A	2043*	A	2176	A	2850*	B	3054	A	3178	A	3339	B	3461	A	3530	A	3591	A
1915	A	2045	A	2177	A	2852	A	3058	B	3187*	A	3354	A	3465*	A	3531	A	3592*	A
1927*	A	2051*	A	2182	B	2854	A	3059*	A	3188*	A	3355	B	3466*	A	3532	A	3593	A
1929	A	2052*	A	2188	A	2857	B	3066*	A	3191	B	3357	A	3467*	A	3533	A	3594	A
1930*	A	2053	B	2189	A	2864	A	3071	A	3196	A	3358	A	3470*	A	3534	A	3595	A
1932	B	2054	B	2192*	B	2865	A	3072	A	3197*	A	3361	A	3471	A	3536	A	3596*	A
1934	B	2063	A	2193	A	2866	B	3073	A	3199	A	3368	A	3472	A	3537	A	3597*	A
1935	A	2065	B	2194	A	2879	A	3083	A	3206	A	3375	A	3473	A	3538	A	3598*	A
1940	A	2066*	A	2198	A	2880	A	3084	A	3209*	A	3376	A	3475*	A	3539*	A	3632	A
1941	A	2068*	A	2200	A	2881*	A	3085	A	3217	A	3379*	A	3476*	A	3542	A	3795	D
1950*	A	2074*	A	2203	A	2884*	A	3087	A	3219*	A	3380	A	3477	A	3543	A	3813	B
1952	A	2075	A	2205	B	2885	A	3092	A	3224	A	3381	A	3479	A	3545*	A	3834	C
1955	A	2078	A	2208	A	2896*	A	3093*	A	3225*	A	3384*	A	3481	A	3546*	A	3838	C
1964*	A	2080*	A	2211	A	2897	A	3095	A	3228	A	3387	A	3484	A	3547	B	3853	A
1965	A	2081	A	2212	A	2901*	A	3097*	A	3229	A	3393	A	3487*	A	3548	A	4000*	A
1966	A	2085	A	2213	A	2907*	A	3099*	A	3230*	A	3395*	A	3488	A	3549*	A	4001	A
1967	A	2086*	A	2214	A	2911*	A	3100*	A	3231*	A	3396	A	3489*	B	3551	A	4002	A
1968	A	2087	A	2215	A	2924	B	3103*	A	3232*	A	3397	A	3491	A	3553	A	4003	A
1969	A	2088	B	2217	A	2925*	A	3105	A	3234	A	3398	A	3493	A	3554	B	4005	A
1971*	A	2095	A	2218	A	2926*	A	3107*	A	3242	A	3399	A	3494	A	3555*	A	4006	A
1972	A	2098	A	2220	A	2929*	A	3108*	A	3244	A	3400	A	3495	A	3556*	A	4008	A
1973*	A	2103	B	2226	A	2931*	A	3110	B	3246	A	3401	A	3496	A	3557	B	4009*	A
1974*	A	2104	A	2230	A	2947	A	3111	B	3247*	A	3402*	A	3497*	A	3559*	A	4011*	A
1979	B	2106	A	2231	A	2948	A	3115*	A	3251	A	3407*	A	3499	A	3560*	C	4012*	A
1980	B	2109	A	2244*	A	2952	A	3118*	A	3263	A	3409*	A	3500	A	3561	A	4013	A
1981	C	2114	A	2245	B	2953*	A	3119*	A	3266	A	3410	A	3501*	A	3562	A	4014*	A
1982	B	2117	A	2250	A	2958	A	3125	A	3267	A	3413	B	3502	A	3563	A	4015*	A
1985	A	2118	A	2253*	A	2959*	A	3128	A	3268	A	3414	A	3503*	A	3564	C	4016	A
1986	A	2123*	A	2261*	A	2964	A	3133*	A	3271	A	3417	A	3504	A	3565	A	4017*	A

* A NEW COVER IS REQUIRED THE FIRST TIME A BARNES & JONES CAGE UNIT IS USED