

QUICK REFERENCE SEPARATOR SYSTEM SIZING

Questions:

Cooling Tower - Model / Tons / Recirc. Flow Rate / Flow Range

System - Auto Purge (CSS) / Closed Recovery (CSR) / Hybrid

Pump - Location / Basin Sweeper Operation / Need of Educators

Cooling Tower Cap. Tons	Recirc Flow Rate (GPM)	Flow Range (GPM)			System Model			Pump Style & HP Range			System Connection Range			
		NOM.	HIGH	LOW	NOM.	HIGH	LOW	SP	HH	LH	SP Inlet	HH Inlet	LH Inlet	Outlet
75	225	23	28	15	100	101	102	.75	.75-1	.5	2" Thd	1.5" Thd	1.5" Thd	1"
100	300	40	50	27	120	121	122	.75-2	1-2	.5-.75		1.5"-2" Thd	1.5"-2" Thd	1.25"
150	450	54	68	33	150	151	152	1-3	1-3	.5-1	2"-2.5" Thd	2"-2.5" Thd	2"-2.5" Thd	2"
200	600	90	115	60	200	201	202	3-5	3-5	.75-1.5			2"-3" Thd	2.5" Thd
330	990	130	160	82	250	251	252	3-5	3-5	1-3	2.5" Thd-4" Flg	2.5" Thd-4" Flg	2.5" Thd-4" Flg	3"
450-660	1350-1980	200	250	130	300	301	302	5-7.5	5-10	2-5	4" Flg	4" Flg	4" Flg	4"
750-1050	2250-3150	340	420	200	400	401	402	7.5-15	7.5-15	5-7.5		4"-6" Flg	4"-5" Flg	5"
1150-1500	3450-4500	510	650	340	500	501	502	10-20	10-20	5-15	6" Flg	6"-8" Flg	5"-6" Flg	6"
1800-2900	5400-8700	810	1100	490	600	601	602	15-40	15-40	7.5-20		6"-10" Flg	8"-10" Flg	10"-12" Flg
3300-4500	9900-13500	1400	1700	850	800	801	802	30-50	20-50	15-20	Consult Factory	8"-12" Flg	10"-12" Flg	12"
5500-7000	16500-21000	2000	2700	1400	1000	1001	1002	40-75	40-75	20-40		Consult Factory	Consult Factory	14"
7500-11500	22500-34500	2900	3700	1900	1200	1201	1202		50-100	25-50				
12500-16000	37500-48000	3900	4800	2700	1400	1401	1402							

CSS and CSR Systems = 10-15% side stream recommended under most conditions.

TSS-A = 15% minimum side stream required. TSS-B = 25% minimum side stream required.

CSS = Automatic Purge System
 CSR = Recovery Tank System
 Pump Basket Strainer is standard on SP and HH styles (Optional on LH)

Electrical Data	
Standard Voltage	Alternate Voltages
460/3/60	Available

LH = Low Head, 40' TDH required for side stream booster, not suitable for Sweeper Piping applications
 HH = High Head, 80' TDH required for Cooling Tower or Sump, suitable for Sweeper Piping applications
 SP = Self Priming, 80' TDH required for Cooling Tower or Sump with negative suction lift, suitable for Sweeper Piping applications

Consult Factory for Sweeper Piping layout.

QUICK REFERENCE SEPARATOR SIZING and ACCESSORIES

Model	Separators			Separator Accessories		
	GPM Range 3-10 PSID	Purge Size	Shipping Weight (lbs)	Auto Purge	Recovery Tank	Monitoring Package
0.5T	4.5-12	1.0"	17-32	APS-10	RT-0.5	RTM-10
.75T	8.5-19		20-42			
1T	14-29		23-46			
1.2T	24-54		37-73			
1.5T	31-71		85-138			
2T	56-120		85-142			
2.5T	76-170		106-166			
3T	115-270	1.5"	250-480	APS-15	RT-1	
4T	190-450		270-500			
5T	310-710		335-560			
6T	440-1200	2.0"	500-860	APS-20	RT-1.5	
8T	790-1800		760-1250			
10T	1250-2800		1070-1700			
12T	1750-3900	3.0"	1215-2000	APS-30	RT-2	
14T	2400-5000		1500-2350			
16T	3300-6800		1710-3000			
18T	4000-8200		2200-3500			
20T	6100-12000					
					RT-3	RTM-70

ORDERING TIPS:

SEPARATOR

Always size the Separator by required flow rate; never by connection size.

AUTO PURGE

For cooling tower and chilled water applications, use the "LPV" diaphragm valve. Pneumatic "PBVSR" and electric "MBV" ball valves may be used for process applications.