

PARKER - STEEL SUCTION LINE ACCUMULATOR DIMENSIONS AND FLOW

U Tube Style Accumulators



"U" Tube Style Accumulators

The Parker "U" tube accumulator design is a result of extensive laboratory testing plus detailed investigation of the various accumulators currently available. It takes into account all of the requirements essential for heat pump applications, including safe holding volume (relative to the system's total charge), protected flow control for positive refrigerant and oil return, and minimum pressure drop across the accumulator. Parker offers standard accumulator models designed for application on heat pump and refrigeration systems from ¼ through 12 tons. Liquid refrigerant holding requirements of suction accumulator may vary by application. Because of the diversity in heat pump systems, accumulator capacity selection should be determined by actual testing. Consult Parker for assistance if required.

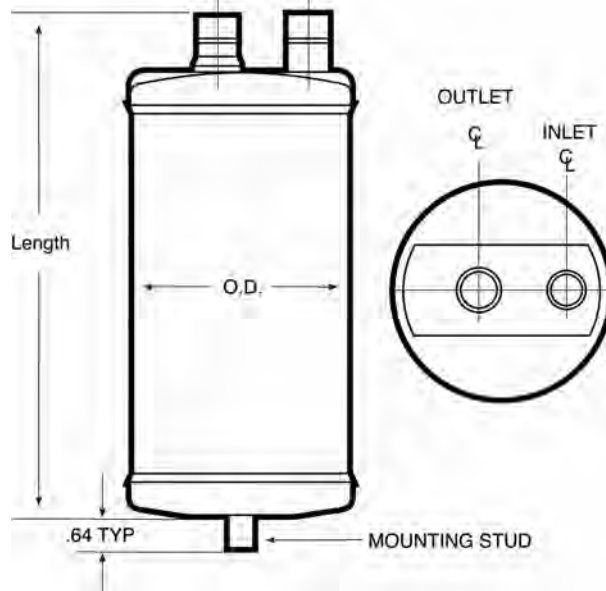
KEY FEATURES & BENEFITS

- Solid copper connections.
- "U" tube design for maximum flow of refrigerant and minimum oil entrapment.
- Inlet flow deflector guides refrigerant toward wall for smooth tangential flow and gradual expansion.
- "U" tube entrance is positioned behind the inlet flow deflector to prevent unwanted liquid refrigerant from entering and damaging compressor.
- Metering orifice matched to system capacity assures optimum liquid refrigerant and oil flow back to compressor.
- Protective screen and orifice assembly on "U" tube protects against foreign particles and contaminants affecting metering function.
- Fittings and "U" tube are matched to accumulator holding capacity and total system charge for minimum pressure drop and maximum refrigerant flow.
- U.L. listed for 355 psig design pressure. File No. SA5172.
- Powder paint exterior coating surpasses 500 hour ASTM salt spray tests.
- Integral 430° F Fuse Plugs (U.L. File No. SA5441).

also available:

Heat Exchanger Accumulator

- Can be made in all models of Parker's standard accumulators.
- Copper heat exchange coil for superior heat exchange.
- Liquid line connections available in 3/8" I.D.



P4043

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PART NO.	MODEL NO.	SOLDER FITTING SIZE (in.)	DIMENSIONS (in.)		CAPACITY ¹ (oz)	EVAP TEMP (°F)	RECOMMENDED CAPACITY IN TONS OF REFRIGERATION															
			Length	O.D.			22 & 404A		134a		401A		402A		407C		410A		502 & 507A			
							Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons	Tons @ 1psi	Min. Tons
089036-01	PA3060-10-4	1/2	10.35	3	35	40	2.00	0.35	1.67	0.30	1.42	0.25	1.97	1.01	1.97	0.46	1.93	1.44	1.48	0.27		
089115-01	PA3060-10-5	5/8	10.35	3	35	40	1.54	0.25	0.98	0.16	1.06	0.18	1.53	0.41	1.53	0.18	1.50	0.65	1.10	0.2		
						-20	1.33	0.21	0.69	0.11	0.90	0.15	1.32	0.25	1.32	0.11	1.30	0.42	0.93	0.16		
						40	2.10	0.35	1.75	0.30	1.49	0.25	2.07	1.01	2.07	0.46	2.02	1.44	1.55	0.27		
089116-01	PA3060-15-5	5/8	15.05	3	55	0	1.62	0.25	1.03	0.16	1.11	0.18	1.61	0.41	1.60	0.18	1.57	0.65	1.16	0.2		
						-20	1.40	0.21	0.73	0.11	0.95	0.15	1.39	0.25	1.39	0.11	1.36	0.42	0.98	0.16		
						40	2.30	0.35	1.92	0.30	1.63	0.25	2.27	1.01	2.27	0.46	2.22	1.44	1.70	0.27		
089117-01	PA3060-15-6	3/4	15.05	3	54	0	1.77	0.25	1.12	0.16	1.22	0.18	1.76	0.41	1.75	0.18	1.72	0.65	1.27	0.2		
						-20	1.53	0.21	0.80	0.11	1.04	0.15	1.52	0.25	1.52	0.11	1.49	0.42	1.07	0.16		
						40	2.96	0.35	2.47	0.30	2.10	0.25	2.92	1.01	2.92	0.46	2.85	1.44	2.19	0.27		
089122-01	PA4065-9-5C	5/8	9.62	4	60	0	2.28	0.25	1.44	0.16	1.57	0.18	2.27	0.41	2.26	0.18	2.21	0.65	1.63	0.2		
						-20	1.98	0.21	1.03	0.11	1.34	0.15	1.97	0.25	1.96	0.11	1.93	0.42	1.39	0.16		
						40	3.00	0.35	2.53	0.30	2.10	0.25	2.96	1.01	2.96	0.46	2.89	1.44	2.20	0.28		
089123-01	PA4065-9-6C	3/4	9-5/8	4	58	0	2.30	0.25	1.48	0.16	1.60	0.18	2.29	0.41	2.28	0.18	2.23	0.65	1.70	0.2		
						-20	2.00	0.21	1.05	0.11	1.40	0.15	1.99	0.25	1.98	0.11	1.95	0.42	1.40	0.16		
						40	3.82	0.57	3.19	0.49	2.71	0.41	3.76	1.51	3.77	0.69	3.68	2.16	2.82	0.46		
089118-01	PA5083-9-6C	3/4	9.62	5	89	0	2.95	0.41	1.86	0.27	2.03	0.30	2.94	0.61	2.92	0.27	2.86	0.98	2.10	0.33		
						-20	2.55	0.35	1.32	0.18	1.73	0.24	2.53	0.37	2.53	0.16	2.48	0.63	1.79	0.27		
						40	3.90	0.57	3.21	0.49	2.70	0.41	3.84	1.51	3.85	0.69	3.76	2.16	2.80	0.46		
089102-01	PA5083-9-7C	7/8	9.63	5	86	0	3.00	0.41	1.88	0.27	2.00	0.30	2.98	0.61	2.97	0.27	2.91	0.98	2.10	0.33		
						-20	2.60	0.35	1.33	0.18	1.70	0.24	2.58	0.37	2.58	0.16	2.53	0.63	1.80	0.27		
						40	5.41	0.88	4.51	0.75	3.83	0.64	5.33	2.12	5.34	0.96	5.21	3.03	4.00	0.7		
089119-01	PA5083-12-7C	7/8	12.88	5	125	0	4.17	0.64	2.64	0.42	2.87	0.45	4.15	0.86	4.13	0.38	4.05	1.37	2.98	0.51		
						-20	3.61	0.54	1.87	0.28	2.45	0.37	3.59	0.52	3.58	0.22	3.52	0.88	2.53	0.41		
						40	4.38	0.57	3.21	0.43	3.10	0.41	4.32	1.51	4.32	0.69	4.22	2.16	3.23	0.46		
089103-01	PA5083-11-7C	7/8	11.33	5	108	0	3.37	0.41	1.88	0.24	2.32	0.30	3.35	0.61	3.34	0.27	3.27	0.98	2.41	0.33		
						-20	2.92	0.35	1.33	0.16	1.98	0.24	2.90	0.57	2.89	0.16	2.84	0.63	2.04	0.27		
						40	3.85	0.57	3.21	0.49	2.72	0.41	3.79	1.51	3.80	0.69	3.71	2.16	2.84	0.46		
089104-01	PA5083-11-6C	3/4	11.33	5	111	0	2.97	0.41	1.88	0.27	2.04	0.30	2.96	0.61	2.94	0.27	2.88	0.98	2.12	0.33		
						-20	2.56	0.35	1.33	0.18	1.74	0.24	2.54	0.57	2.54	0.16	2.49	0.63	1.80	0.27		
						40	6.20	0.88	5.17	0.75	4.39	0.64	6.11	2.12	6.12	0.96	5.97	3.03	4.58	0.7		
089120-01	PA5083-15-7C	7/8	15.34	5	156	0	4.78	0.64	3.03	0.42	3.29	0.45	4.76	0.86	4.73	0.38	4.64	1.37	3.41	0.51		
						-20	4.13	0.54	2.15	0.28	2.80	0.37	4.10	0.52	4.09	0.22	4.02	0.88	2.90	0.41		
						40	6.20	0.88	5.17	0.75	4.39	0.64	6.11	2.12	6.12	0.96	5.97	3.03	4.58	0.7		
089121-01	PA5083-17-7C	7/8	17.25	5	179	0	4.78	0.64	3.03	0.42	3.27	0.45	4.76	0.86	4.73	0.38	4.64	1.37	3.41	0.51		
						-20	4.13	0.54	2.15	0.28	2.80	0.37	4.10	0.52	4.09	0.22	4.02	0.88	2.90	0.41		
						40	9.00	3.00	8.83	1.97	6.10	1.90	8.87	3.45	8.88	1.57	8.67	4.93	7.30	3		
089283-00	PA6125-15-9C	1-1/8	15.00	6	211	0	5.60	2.00	5.62	0.82	3.70	1.20	5.57	1.40	5.55	0.62	5.44	2.23	4.50	2		
						-20	4.30	0.80	4.31	0.50	2.80	0.05	4.27	0.85	4.26	0.36	4.19	1.43	3.40	0.8		
						40	12.00	3.00	12.05	1.97	6.20	1.90	11.82	3.45	11.85	1.57	11.56	4.93	9.80	3		
089285-00	PA6125-15-11C	1-3/8	15.25	6	214	0	7.50	2.00	7.52	0.82	5.00	1.20	7.46	1.40	7.43	0.62	7.28	2.23	6.00	2		
						-20	5.80	0.80	5.82	0.50	3.60	0.05	5.76	0.85	5.75	0.36	5.65	1.43	4.60	0.8		
						40	8.80	3.00	8.84	1.97	6.00	1.90	8.67	3.45	8.69	1.57	8.48	4.93	7.20	3		
089284-00	PA6125-18-9C	1-1/8	18.00	6	264	0	5.50	2.00	5.52	0.82	3.70	1.20	5.47	1.4	5.45	0.62	5.34	2.23	4.40	2		
						-20	4.30	0.80	4.31	0.50	2.80	0.05	4.27	0.85	4.26	0.36	4.19	1.43	3.40	0.8		
						40	11.00	3.00	11.05	1.97	7.50	1.90	10.84	3.45	10.86	1.57	10.59	4.93	9.10	3		
089323-00	PA6125-18-11C	1-3/8	18.00	6	267	0	7.00	2.00	7.02	0.82	4.60	1.20	6.96	1.4	6.93	0.62	6.80	2.23	5.50	2		
						-20	5.40	0.80	5.42	0.50	3.50	0.05	5.37	0.85	5.35	0.36	5.26	1.43	4.20	0.8		
						40	11.00	3.00	11.05	1.97	7.50	1.90	10.84	3.45	10.86	1.57	10.59	4.93	9.10	3		
089286-00	PA6125-20-11C	1-3/8	20.25	6	302	0	7.00	2.00	7.02	0.82	4.60	1.20	6.96	1.4	6.93	0.62	6.80	2.23	5.50	2		
						-20	5.40	0.80	5.42	0.50	3.50	0.05	5.37	0.85	5.35	0.36	5.26	1.43	4.20	0.8		

*Holding capacity of R-22 at 40° F. Divide by .7 to obtain recommended maximum system charge on fixed orifice systems. Consult Parker for availability.