

The ORIGINAL, TIME TESTED

SUCTION ACCUMULATOR

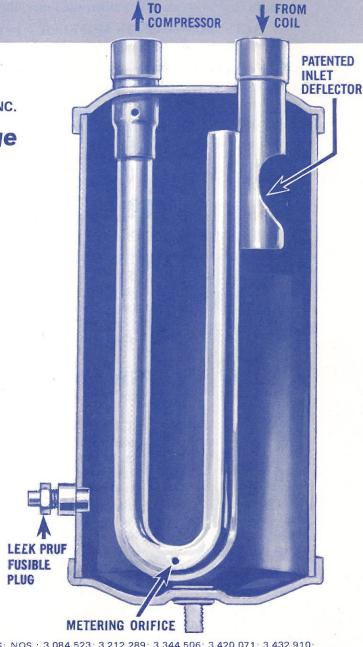
-- THE COMPLETE LINE -For Exact Selection

The Suction Accumulator by REFRIGERATION RESEARCH, INC.

Prevents Compressor Damage Due to Sudden Return of Liquid Refrigerant Through the Suction Line

REFRIGERATION RESEARCH, INC. PROVIDES ALL OF THE IMPORTANT FEATURES.

- Exclusive (patented) inlet deflector for improved performance. Deflector permits tangential entry of fluid.
- 2. Positive exclusive marking of inlet with metal plate helps insure against errors in hookup.
- 3. All Refrigeration Research suction accumulators of over 3" diameter are complete with RR 362° "Leek Pruf" fusible plug included and installed to comply with latest Underwriters' requirements.
- 4. Stronger steel nipples are used for strength and are plated to facilitate silver soldering.
- Controlled hydrogen copper brazing process provides the ultimate in cleanliness and uniform strength.
- All Refrigeration Research suction accumulators are UL Listed or built to ASME code. Suction accumulators by Refrigeration Research have been field proven in hundreds of thousands of installations.



MADE UNDER ONE OR MORE OF THE FOLLOWING PATENTS: NOS.: 3,084,523; 3,212,289; 3,344,506; 3,420,071; 3,432,910; 3,443,367; 3,589,395; 3,643,465, 3,837,177; AND PATENTS APPLIED FOR.

REFRIGERATION RESEARCH, INC.

IMPORTANT FOR LOWEST COST AND QUICKEST DELIVERY MAKE SELECTIONS FROM MODELS ON UNSHADED LINES WHICH ARE IN STOCK. MODELS ON SHADED LINES ARE AVAILABLE ONLY IN PRODUCTION QUANTITIES WITH ADEQUATE LEAD TIME.

SUCTION ACCUMULATOR APPLICATION DATA

PART NO.	TAL		L E	W	MAXIMUM REFRIGERANT HOLDING				IN: ==		†RECOMMENDED TONS OF REFRIGERATION										
	NON L		N	ī					OUTLET		REFRIGERANT										
	RIZ		G T H	G H T	CAPACITY			UL	I.D.	EVAP.	R-22		R-12		R-S	502					
	HORIZONTAL OR VERTICAL	DIA.			R-22	R-12	R-502	CODE	SIZE	TEMP.	MAX.	MIN.	MAX.	MIN.	MAX.	МІ					
3680	V	3	7-11/16	2.1	1.5	1.7	1.6	HN		+40°F	.90	.16	.50	.11	.80	.1					
3816	V	4	6-1/2	3.8	2.1	2.3	4.2	KN	1/2	+20°F	.62	.14	.35	.09	.58	.1					
						4.4				0°F	.45	.11	.22	.08	.40	.0					
3815	Н	3	7-7/8	2.1	1.3	1.2	1.3	HN	1	–20°F	.30	.09	.15	.06	.25	.0					
3673	Н	3	10-7/8	2.7	2.2	2.4	2.3	HN) (-40°F	.18	.07		.04	.14	.0					
3684	V	3	7-11/16	2.2	1.5	1.7	1.6	HN		+40°F	2.00	.18	1.00	.13	1.55	.1					
3701	V	4	6-5/8	2.5	2.1	2.3	2.2	KN	5/8	+20°F	1.25	.16	0.60	.11	1.00	.1					
3685 3702	V	3	12 10 F/0	3.1	2.5	2.7	2.6	HN		0°F	0.85	.13	0.40	.10	0.70	.1					
3820	°H	3	10-5/8 7-7/8	3.7	1.3	1.2	1.3	HN		-20°F	0.55	.11	0.25	.08	0.45	.0					
3820	Н	3	11-5/8	3.0	2.2	2.4	2.3	HN		-40°F	0.35	.09	0.15	.06	0.25	.0					
444									-	+40°F	3.0	.22	1.80	.15	2.8	.2					
3703								KN	1	+20°F	2.1	.18	1.15	.12	2.0	.1					
	V	4	10-5/8	3.8	4	4.4	4.2		3/4	0°F	1.5	.16	0.70	.11	1.4	.1					
										-20°F	1.1	.13	0.48	.09	0.8	.1					
										-40°F	0.6	.10	0.28	.06	0.5	.1					
3670	V	4	11	4.0	4	4.4	4.2	KN	//8	+40°F	4.0	.53	2.5	.36	4.0	.5					
3738	V	5	13	6.8	7	7.7	7.3	DN		+20°F	3.0	.45	1.8	.31	3.0	.4					
3827	V	6	13	11.3	10.2	11.2	10.6	MN		/8 }	1/8	1/8	1/8	1/8	0°F	2.3	.39	1.0	.26	2.0	.3
3825	Н	6	10	8.9	7	7.7	7.3	MN			-20°F	1.5	.33	0.7	.21	1.3	.3				
3826	Н	6	13-1/2	11.1	10.4	11.4	10.9	MN) (-40°F	0.9	.27	0.4	.17	0.7	.2					
3832	V	6	11	10.1	7.8	8.6	8.1	MN	11/8			87.94									
3700	V	6	15	12.1	11.4	12.8	12.1	MN		+40°F	9.0	.76	5.0	.50	9.0	.7					
3830	Н	6	13-1/2	11.3	10.4	11.4	10.9	MN		+20°F	6.2	.65	3.2	.44	6.0	.6					
3831	Н	6	16-1/2	13.2	13.8	15.2	14.0	MN		0°F	4.3	.56	2.1	.37	4.0	.5					
				115) (-20°F	2.8	.47	1.4	.30	2.5	.4					
3837	V	6	12 1/2	11.0	0.5	10.4	0.0	0.001	13/8	-40°F	1.8	.38	0.9	.16	1.4	.3					
3706	V	6	13-1/2 20-1/4	11.8	9.5	10.4	9.9	MN		+40°F	The same of the sa	2.0	8.0	1.4	15.0	2.0					
3743	V	6	24-3/4	18.8	20.5	22.5	21.3	MN		+20°F	D11/2/10/20	1.9	6.0	1.2	10.0	1.9					
3835	Н	6	13-1/2	11.5	10.4	11.4	10.9	MN		0°F	7.7	1.6	3.8	1.0	7.0	1.6					
3836	Н	6	22-1/2	17.1	18.5	20	19	MN) (–20°F	5.0	1.3	2.4	0.9	4.5	1.3					
										–40 ^o F	3.0	1.1	1.4	0.7	2.5	1.1					
3698 3704	V	6	17-1/8	14.4	13	14.3	13.5	MN	1 7	+40°F	28	2.0	13	1.4	25	2.0					
3809	V	6	24-3/4	19.2 15.6	20.5	22.5 15.9	21.3	MN	/ \	+20°F	19	1.9	9	1.2	18	1.9					
3810	Н	6	30	23.1	25.2	27.8	26.2	MN	15/8	0°F	13	1.6	6	1.0	12	1.6					
) (–20°F	8	1.3	4	0.9	7	1.3					
									,	-40°F	5	1.1	2	0.7	4	1.1					
	11	0 F /0	20	20	20	22	21	1	1	+40°F	59	5.8	32	3.7	55	5.8					
3639 3838	H	8-5/8	20 36	30 28	30	32	31.8	*	21/8	+20°F	41	5.2	21	3.2	39	5.2					
3838 3839 3641 3841	Н	6	48	35.5	41.8	45.3	43	MN		0°F	27	4.3	14	2.6	26	4.3					
				55.5		70.0	7.0			–20 ⁰ F	18	3.7	8	2.1	16	3.7					
										-40°F	12	2.7	5	1.7	10	2.7					
									\ /	+40°F	90	9.5	50	5.9	85	9.5					
	.,	10-3/4 8-5/8		44 40	44 41	48 45	46 43	*	25/8	+20°F	62	8.4	33	5.2	60	8.4					
	H									0°F	42	7.0	22	4.2	40	7.0					
	17									-20°F	_	6.0	13	3.4	25	6.0					
									/	-40°F											
									\	+40°F	130	15.0	70	10.0	125	15.0					
									1	+20°F		13.0	54	8.7	90	13.0					
3640	V	10-3/4	26	55	72	79	75	*	31/8	0°F		11.0	37	6.8	60	11.0					
3840 3873	H	10-3/4	0.000	100	73	80	76	*	1	-20°F		9.3	23	6.1	40	9.3					
	1 11	10-3/4	48	100	143	160	152	*	/	20 1	70	0.0	20	0.1	40	0.0					









Suction Accumulators of 6" diameter or smaller are U/L Listed. (Hydrogen copper brazed construction)
Suction Accumulators larger than 6" diameter are made to ASME code. (Shielded arc welded construction)
† Maximum recommended tons based on pressure drop thru Suction Accumulator equivalent to 1/2°F.
† Minimum recommended tons based on oil return thru Suction Accumulator.
UNSHADED MODELS USUALLY IN STOCK—SHADED MODELS AVAILABLE ON SPECIAL ORDER ONLY.

* ASME (Range Down to -20°F)

APPLICATION DATA FOR HEAT PUMP SUCTION ACCUMULATORS

PART NO.	HORIZONTAL OR VERTICAL	DIA.	L E N G T H	W E I G H T	MAXIMUM REFRIGERANT HOLDING CAPACITY LBS.			UL		EVAP.	†RECOMMENDED TONS OF REFRIGERATION					
									SUCTION LINE 1.D.		REFRIGERANT					
											R-22		R-12		R-502	
					R-22	R-12	R-502	CODE	S	TEMP.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN
HP3701	V	4	0.5/0						1	+60° F	2.56	.20	1.39	.15	1.89	.17
HP3/01			6-5/8	2.5	2.1	2.3	2.2	KN	11	+50° F		.19	1.25	.14	1.70	.16
HP3702	V	4	10-5/8	4.2	4	4.4	4.2	KN	5/8	+40°F		.18	1.00	.13	1.55	.15
										+20°F		.16	0.60	.11	1.00	.12
										0°F	0.85	.13	0.40	.10	0.70	.10
									3/4	+60°F	3.78	.25	2.39	.17	3.56	.24
HP3703	V	4	10-5/8	4.3	4	4.4	4.2	KN		+50°F		.24	2.15	.16	3.2	.23
	weign.	W. Lea						120000		+40°F		.22	1.80	.15	2.8	.22
										+20°F		.18	1.15	.12	2.0	.18
						1				0°F	1.5	.16	0.70	.11	1.4	.16
HP3738	V	5	13	7.8	7	7.7	7.3	DN)	+60°F		.60	3.11	.40	5.0	.60
		Name of the last		7.0		AR DE	7.3	DIV	} 1/8	†50°F		.57	2.8	.38	4.5	.57
										+40°F	1000	.53	2.5	.36	4.0	.53
										+20°F		.45	1.8	.31	3.0	.45
HP3700	V	6	15	14.5	11.4	12.8	12.1	MN	11/8	+60°F		.84	6.39	.58	11.5	.84
										+50°F		.80	5.75 5.0	.55	10.4	.80
										+20°F		.65	3.2	.50	9.0	.76
										0°F		.56	2.1	.37	4.0	.56
										+60° F		2.2	10.0		17.8	2.1
HP3706	V	6	20-1/4	18.9	16	17.6	16.6	MN		+50°F		2.1	9.0	1.7	16.0	2.0
							2.000		13/8	+40°F	10.00	2.0	8.0	1.4	15.0	2.0
										+20°F		1.9	6.0	1.2	10.0	1.9
							(Salara			0°F		1.6	3.8	1.0	7.0	1.6
										+60°F	35.6	2.1	16.7	1.6	30	2.1
HP3704	V	6	24-3/4	22.9	20.5	22.5	21.3	MN		+50°F	32.	2.0	15	1.5	27	2.0
									15/8	+40°F	28	2.0	13	1.4	25	2.0
										+20°F	19	1.9	9	1.2	18	1.9
										0°F	13	1.6	6	1.0	12	1.6

[†]Maximum recommended tons based on pressure drop thru Suction Accumulator equivalent to ½°F. †Minimum recommended tons based on oil return thru Suction Accumulator.

HEAT PUMP SUCTION ACCUMULATORS

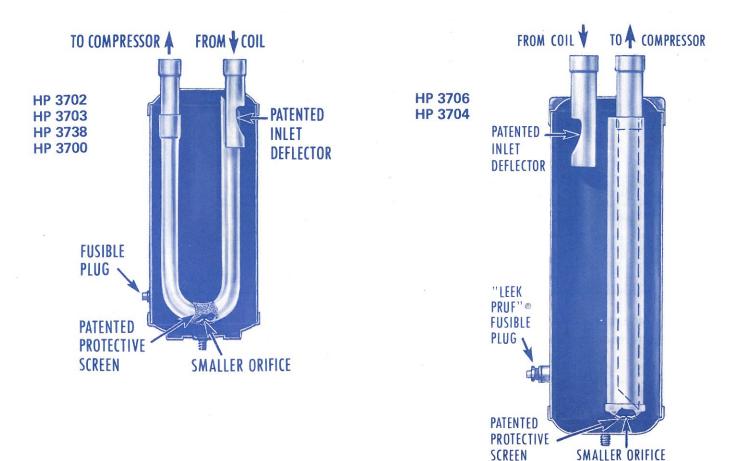
Having pioneered the suction accumulator as a protective component, and having made them continuously over a period of 17 years, Refrigeration Research has acquired considerable experience. However, it has always been our recommendation that tests be made by the system manufacturer to check pressure drop, size of orifice and holding capacity of the accumulator for a particular application.

As a result of tests made by our customers as well as by Refrigeration Research, modifications have been made in many cases for heat pump applications. Our inlet deflector tube baffle, smaller metering orifices and protective monel screens have proven to be of value. In addition, accumulators for heat pumps may usually be designed for less pressure drop.

Many thousands of suction accumulators having inlet deflectors, smaller orifices, and protective strainers have been built by Refrigeration Research and are on systems operating successfully in the field.

Six models of these field proven heat pump type accumulators are now offered as catalogued items instead of specials.

All accumulators are complete with a RR 362° "LEEK PRUF" fusible plug to comply with latest U.L. requirements.



MADE UNDER ONE OR MORE OF THE FOLLOWING PATENTS: NOS.: 3,084,523; 3,212,289; 3,344,506; 3,420,071; 3,432,910; 3,443,367; 3,589,395; 3,643,465; 3,837,177; 3,872,689; AND PATENTS APPLIED FOR.

Form RR 64-3 (INS.)

