

Designed to do the Complete Job!

HEAT EXCHANGER-SUCTION ACCUMULATOR

Makes practical new design possibilities in refrigeration systems.

Development of the Heat Exchanger-Suction Accumulator as a refrigeration component by Refrigeration Research has resulted in new and practical designs and design possibilities in refrigeration systems.

As the result of the rapidly growing need, Refrigeration Research now provides a Cataloged Heat Exchanger-Suction Accumulator to correspond to each of our most popular suction accumulators. The Heat Exchanger-Suction Accumulator combinations bear the same part number as the corresponding suction accumulators except that the letters HX have been added to indicate the presence of the heat exchanger coil.

All Heat Exchanger -- Suction Accumulators are complete with "Leak Pruf" fusible plugs installed complying with latest UL and cUL requirements, except those built to ASME code.

Copper nipples are standard on vertical UL and cUL models.

Steel nipples are standard on accumulators built to ASME code.

Steel nipples are available on vertical UL and cUL models on special order.

Application data is shown on the next page.



HX3702
HX3703
HX3738



HX3836
HX3810
HX3839

HX3639
HX3641
HX3640



HX3841
HX3840



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; AND PATENTS APPLIED FOR.

(SUCTION ACCUMULATORS ESPECIALLY DESIGNED FOR HEAT PUMPS ARE SHOWN ON PAGES 6 AND 7).
PHOTOS FOR ILLUSTRATIVE PURPOSE ONLY - DO NOT USE AS A GUIDE FOR INSTALLATION.

APPLICATION DATA FOR HEAT EXCHANGER-SUCTION ACCUMULATOR COMBINATIONS

Suction Accumulators on this page are exactly the same as the corresponding numbers on page 7 except that HX designates a Heat Exchanger Coil added.

PART NO.	HORIZONTAL OR VERTICAL	DIA.	# LENGTH	WEIGHT	MAXIMUM REFRIGERANT HOLDING CAPACITY LBS.				UL CODE IDENT	SUCTION LINE I.D.	LIQUID LINE I.D.	EVAP TEMP	† RECOMMENDED TONS OF REFRIGERATION							
					R-12	R-134a	R-22	R-404					REFRIGERANT							
													MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
HX3702	V	4	10-5/8	5.5	4.4	4.2	4	3.6	KN	3/8	3/8	+40°F	1.00	.13	.90	.13	2.00	.18	1.55	.15
												+20°F	0.60	.11	.54	.11	1.25	.16	1.00	.12
												0°F	0.40	.10	.36	.10	.85	.13	.70	.10
												-20°F	0.11	.08	.22	.08	.55	.11	.45	.08
												-40°F	0.15	.06	.13	.06	.35	.09	.25	.07
HX3703	V	4	10-5/8	5.6	4.4	4.1	4	3.7	KN	3/4	3/8	+40°F	1.80	.15	1.62	.14	3.00	.22	2.80	.22
												+20°F	1.15	.12	1.03	.11	2.10	.18	2.00	.18
												0°F	0.70	.11	.63	.10	1.50	.16	1.40	.15
												-20°F	0.48	.09	.43	.09	1.10	.13	0.80	.13
												-40°F	0.28	.06	.25	.06	.60	.10	0.50	.10
HX3738	V	5	13	9	8.6	8.0	7.9	6.9	DN	7/8	1/2	+40°F	2.50	.36	2.25	.35	4.00	.53	4.00	.53
												+20°F	1.80	.31	1.62	.30	3.00	.45	3.00	.45
												0°F	1.00	.26	.87	.25	2.00	.39	2.00	.39
												-20°F	0.70	.21	.63	.20	1.50	.33	1.30	.33
												-40°F	0.40	.17	.36	.16	.90	.27	0.70	.27
HX3700	V	6	15	15.0	14.2	13.1	12.9	11.4	MN	1 1/8	5/8	+40°F	5.00	.50	4.35	.48	9.00	.76	9.00	.76
												+20°F	3.20	.44	2.88	.43	6.20	.65	6.00	.65
												0°F	2.10	.37	1.83	.36	4.30	.56	4.00	.56
												-20°F	1.40	.30	1.21	.29	2.80	.47	2.50	.47
												-40°F	0.90	.16	.78	.15	1.80	.38	1.40	.38
HX3706	V	6	20-1/4	20.5	19.3	17.8	17.5	15.4	MN	1 3/8	5/8	+40°F	8.00	1.40	7.20	1.35	17.0	2.00	15.0	2.00
												+20°F	6.00	1.20	5.40	1.16	11.0	1.90	10.0	1.90
												0°F	3.80	1.00	3.42	.97	7.70	1.60	7.00	1.60
HX3836	H	6	22-1/2	20.0	18.8	17.3	17.1	15.1	MN	1 3/8	5/8	-20°F	2.40	0.90	2.16	.87	5.00	1.30	4.50	1.30
												-40°F	1.40	0.70	1.26	.68	3.00	1.10	2.50	1.10
HX3704	V	6	24-3/4	27.0	24.8	22.9	22.6	19.9	MN	1 5/8	3/4	+40°F	13	1.40	11.7	1.35	28.0	2.00	25.0	2.00
												+20°F	9	1.20	8.10	1.16	19.0	1.90	18.0	1.90
												0°F	6	1.00	5.40	.97	13.0	1.60	12.0	1.60
HX3810	H	6	30	26.3	23.5	21.6	21.3	18.8	MN	1 5/8	3/4	-20°F	4	0.90	3.60	.87	8.00	1.30	7.00	1.30
												-40°F	2	0.70	1.80	.68	5.00	1.10	4.00	1.10
HX3639	V	8-5/8	20	50	34	31.3	30.9	27.2	*	2 1/8	7/8	+40°F	32	3.70	28.8	3.57	59.0	5.80	55.0	5.80
												+20°F	21	3.20	18.9	3.09	41.0	5.20	39.0	5.20
												0°F	14	2.60	12.6	2.51	27.0	4.30	26.0	4.30
HX3839	H	6	48	40	45.3	41.3	41.3	36.4	MN	2 1/8	7/8	-20°F	8	2.10	7.20	2.03	18.0	3.70	16.0	3.70
												-40°F	5	1.70	4.50	1.64	12.0	2.70	10.0	2.70
HX3641	V	10-3/4	20	65	55.8	51.4	50.7	44.7	*	2 5/8	1 3/8	+40°F	50	5.90	45.0	5.70	90.0	9.50	85.0	9.50
												+20°F	33	5.20	29.7	5.02	62.0	8.40	60.0	8.40
												0°F	22	4.20	19.8	4.06	42.0	7.00	40.0	7.00
HX3841	H	8-5/8	24	63	49.1	45.2	44.6	39.3	*	2 5/8	1 3/8	-20°F	13	3.40	11.7	3.28	28.0	6.00	25.0	6.00
												-40°F	8	2.80	7.20	2.70	18.0	4.20	15.0	4.20
HX3640	V	10-3/4	26	55	79	72.7	72.5	63.9	*	3 1/8	1 3/8	+40°F	70.0	10.0	63.0	9.66	130.0	15.0	125.0	15.0
												+20°F	54	8.70	48.6	8.40	90.0	13.0	90.0	13.0
												0°F	37	6.80	33.3	6.57	60.0	11.0	60.0	11.0
HX3840	H	10-3/4	24	59	71.5	71.3	70.4	62.0	*	3 1/8	1 3/8	-20°F	23	6.10	20.7	5.89	40.0	9.30	40.0	9.30
												-40°F	13	4.80	11.7	4.64	28.0	7.50	25.0	4.50

Suction Accumulators of 6" diameter or smaller are UL and cUL listed File No. SA2400 (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.
*ASME #Length includes Nipples.