

Introduction

The main function of the suction accumulator in a refrigeration or heat pump system is to protect the compressor from liquid refrigerant. Liquid refrigerant can dilute the oil, wash out the bearings, and damage valve reeds. The un-evaporated portion of refrigerant returning in the suction line is trapped in the accumulator, allowing only vapour refrigerant and oil to leave and return to the compressor.

Heldon suction accumulators comprise of a sufficiently sized vessel with an optimised "U" shaped internal tube to minimise pressure drop and maximise flow through the vessel. Positive oil return is accomplished through a strainer protected injection orifice. The inlet to the U tube is located above and behind the vessel inlet to eliminate any possibility of high velocity liquid carryover.

Heldon suction accumulators are constructed from Steel with solid copper connections and supplied with a plugged pressure relief valve connection on larger models.



Features

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- Designed for maximum flow and minimal pressure drop.
- Solid copper connectors.
- Optimised orifice per mass flow.
- Large strainer fitted to the orifice.
- U tube inlet positioned behind and above vessel inlet.
- Stamped inlet position.
- Powder coated finish.

Benefits

- Negligible loss in system efficiency.
- Easier installation with out the need for flux.
- Positive oil return with controlled liquid injection.
- Reduced chance of orifice blocking.
- Reduced risk of high velocity liquid carryover.
- Ensures correct installation orientation.
- Exceeds 500 hour salt spray tests.

Approvals

Manufactured in accordance with AS 2971.
Safe Working Pressure: 2,500 kPa

Dimensions and Capacities

Connector	Part No.	Volume (L)	Capacity kW			Dimensions		Weight kg	Carton Qty
			R404A	R134a	R410A	DIA mm A	Height mm B		
1/2"	3100-083007	0.7	8.00	4.50	7.50	76	200	1.4	12
1/2"	3100-084015	1.5	10.20	5.80	9.80	102	210	1.2	12
5/8"	3100-104016P	1.6	10.40	6.00	10.00	102	218	1.9	9
5/8"	3100-104019	1.9	11.00	6.00	10.50	102	270	2.6	4
3/4"	3100-123011	1.1	9.00	5.20	8.80	76	300	1.8	4
3/4"	3100-124016P	1.6	10.50	6.50	10.15	102	244	2.2	9
3/4"	3100-124017	1.7	10.60	6.60	10.25	102	250	2.3	9
3/4"	3100-125024P	2.4	13.00	7.00	12.00	128	215	2.8	4
3/4"	3100-125029P	2.6	13.50	7.50	13.00	128	255	3.2	4
7/8"	3100-145034P	3.4	19.00	10.00	18.00	128	285	3.5	4
7/8"	3100-145040	4.0	22.00	12.00	21.00	128	368	3.8	4
1 1/8"	3100-185040	4.0	22.00	12.00	21.00	128	360	3.8	4
1 1/8"	3100-185559	5.9	30.80	13.80	29.50	140	430	6.2	4
1 1/8"	3100-186055P	5.5	30.00	13.50	28.50	159	340	5.9	4
1 1/8"	3100-186063P	6.3	31.50	14.00	30.00	159	420	6.8	4
1 1/8"	3100-186572	7.2	36.20	17.50	34.50	160	400	6.7	4
1 3/8"	3100-226563	6.3	31.00	13.80	29.50	160	350	6.2	4
1 3/8"	3100-226596	9.6	52.00	28.00	49.50	160	524	4.6	1
1 5/8"	3100-266510	10.5	57.00	32.00	55.00	160	575	9.3	1
2 1/8"	3100-346013P	13.0	74.50	37.00	72.50	159	874	14.0	1
2 1/8"	3100-348615	15.0	92.00	42.00	90.00	219	533	13.3	1
2 5/8"	3100-421125	25.0	148.00	78.00	144.00	273	522		1
3 1/8"	3100-501135	35.0	204.00	114.00	198.00	273	683		1

