

AAS suction accumulators

The Emerson AAS series suction line accumulators are available for systems through 28.5 tons (R22) nominal capacity and are applicable with CFC, HCFC, HFC refrigerants.

Features

- Designed to operate in a range of +40°F to -40°F evaporator temperature
- Fusible plug on larger diameter units
- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- Inlet deflector directs refrigerant flow to prevent internal splashing and aid in the collection of refrigerant oil in the bottom of the accumulator
- Internal orifice with strainer for optimum oil return



Nomenclature example: AAS 5 127

A	AS	5	12	7
Series	Accumulator Suction	Diameter (in)	Height (in)	Fitting Size in 7/8"

Specifications

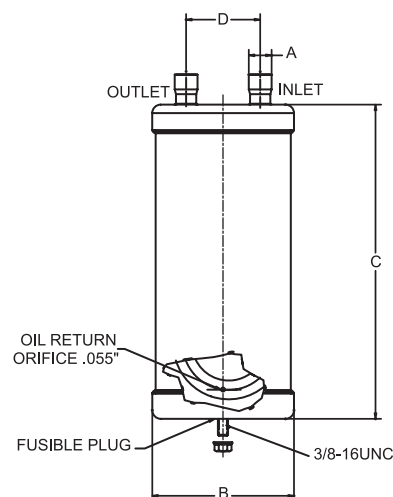
- Maximum working pressure: 3-4" diameter: 300 psig
5-6" diameter: 575 psig
- Fusible plug temperature: 430°F

Ordering information and dimensional data (in)

PCN	Model description	"A Nominal fitting size (in)"	"B Diameter (in)"	"C Total height (in)"	"D Fitting separation (in)"	"Tons R-22 (+40°F)"	"Holding capacity (Lbs.) 5.0% Full"	
							"40°F liquid R22/ R134a"	"40°F liquid R404A/ R507"
016254	AAS 3 84	1/2	3"	8	1.63	2.0	1.5	1.5
016256	AAS 3 105	5/8		10	1.63	3.0	2.0	2.0
016257	AAS 3 125	5/8		12	1.63	3.0	3.0	2.5
016258	AAS 3 126	3/4		12	1.63	4.0	3.0	2.5
016259	AAS 3 145	5/8		15	1.63	3.0	3.5	3.0
016260	AAS 3 146	3/4		14	1.63	4.0	3.5	2.75
016261	AAS 4 64	1/2	4"	6	2.50	2.0	2.5	2.0
016262	AAS 4 65	5/8		6	2.50	3.0	2.5	2.0
016263	AAS 4 105	5/8		10	2.50	3.0	4.0	3.5
016264	AAS 4 106	3/4		10	2.50	4.0	4.0	3.5
016265	AAS 5 96	3/4	5"	9	2.75	4.0	6.0	5.5
016266	AAS 5 97	7/8		9	2.75	7.3	6.0	5.5
016267	AAS 5 126	3/4		12	2.75	4.0	8.0	7.5
016268	AAS 5 127	7/8		12	2.75	7.3	8.0	7.5
016269	AAS 5 137	7/8		13	2.75	7.3	8.5	8.0
016270	AAS 5 139	1-1/8		13	2.75	11.8	8.5	8.0
016271	AAS 5 179	1-1/8	6"	17	2.75	11.8	12.0	10.0
016272	AAS 5 1711	1-3/8		17	2.75	18.8	12.0	10.0
016273	AAS 6 117	7/8		11	2.94	7.3	10.0	9.0
016274	AAS 6 137	7/8		13	2.94	7.3	12.0	11.0
016275	AAS 6 139	1-1/8		13	2.94	11.8	12.0	11.0
016276	AAS 6 1411	1-3/8		14	2.94	18.8	15.0	12.0
016277	AAS 6 1713	1-5/8		17	2.94	28.5	16.0	15.0
016279	AAS 6 2013	1-5/8		20	2.94	28.5	20.0	16.0
016281	A-AS 6 2513	1-5/8		25	2.94	28.5	25.0	20.0

*Not supplied with a fusible plug

Dimensional data



Description	R-134a /R-450/R-513A					R-404A/R-507				
	-40°F	-20°F	0°F	+20°F	+40°F	-40°F	-20°F	0°F	+20°F	+40°F
AAS 384	0.20	0.30	0.60	0.80	1.20	0.20	0.40	0.80	1.00	1.30
AAS 3105	0.30	0.50	0.80	1.20	1.70	0.40	0.60	1.20	1.60	2.00
AAS 3125	0.30	0.50	0.80	1.20	1.70	0.40	0.60	1.20	1.60	2.00
AAS 3126	0.40	0.60	1.00	1.60	2.30	0.40	0.70	1.50	2.00	2.60
AAS 3145	0.30	0.50	0.80	1.20	1.70	0.40	0.60	1.20	1.60	2.00
AAS 3146	0.40	0.60	1.00	1.60	2.30	0.40	0.70	1.50	2.00	2.60
AAS 464	0.20	0.30	0.60	0.80	1.20	0.20	0.40	0.80	1.00	1.30
AAS 465	0.30	0.50	0.80	1.20	1.70	0.40	0.60	1.20	1.60	2.00
AAS 4105	0.30	0.50	0.80	1.20	1.70	0.40	0.60	1.20	1.60	2.00
AAS 4106	0.40	0.60	1.00	1.60	2.30	0.40	0.70	1.50	2.00	2.60
AAS 596	0.40	0.60	1.00	1.60	2.30	0.40	0.70	1.50	2.00	2.60
AAS 597	0.70	1.10	1.80	2.80	4.00	0.80	1.30	2.70	3.60	4.60
AAS 5126	0.40	0.60	1.00	1.60	2.30	0.40	0.70	1.50	2.00	2.60
AAS 5127	0.70	1.10	1.80	2.80	4.00	0.80	1.30	2.70	3.60	4.60
AAS 5137	0.70	1.10	1.80	2.80	4.00	0.80	1.30	2.70	3.60	4.60
AAS 5139	1.30	2.00	3.10	5.00	7.20	1.40	2.10	4.40	5.90	7.60
AAS 5179	1.90	3.00	3.10	5.00	7.20	1.40	2.10	4.40	5.90	7.60
AAS 51711	1.90	3.00	4.60	7.30	10.70	2.20	3.40	7.20	9.60	12.20
AAS 6117	0.70	1.10	1.80	2.80	4.00	0.80	1.30	2.70	3.60	4.60
AAS 6137	0.70	1.10	1.80	2.80	4.00	0.80	1.30	2.70	3.60	4.60
AAS 6139	1.30	2.00	3.10	5.00	7.20	1.40	2.10	4.40	5.90	7.60
AAS 61411	1.90	3.00	4.60	7.30	10.70	2.20	3.40	7.20	9.60	12.20
AAS 61713	3.00	4.80	7.30	11.70	17.00	3.30	5.10	10.70	14.20	18.20
AAS 62013	3.00	4.80	7.30	11.70	17.00	3.30	5.10	10.70	14.20	18.20
AAS 62513	3.00	4.80	7.30	11.70	17.00	3.30	5.10	10.70	14.20	18.20

Description	R-22 /R-448 / R-449A					R-502				
	-40°F	-20°F	0°F	+20°F	+40°F	-40°F	-20°F	0°F	+20°F	+40°F
AAS 384	0.40	0.60	0.90	1.40	2.00	0.30	0.50	0.80	1.30	1.80
AAS 3105	0.50	0.80	1.40	2.10	3.00	0.50	0.80	1.20	1.90	2.70
AAS 3125	0.50	0.80	1.40	2.10	3.00	0.50	0.80	1.20	1.90	2.70
AAS 3126	0.72	1.10	1.80	2.80	4.00	0.60	1.00	1.60	2.50	3.50
AAS 3145	0.50	0.80	1.40	2.10	3.00	0.60	0.80	1.20	1.90	2.70
AAS 3146	0.72	1.10	1.80	2.80	4.00	0.60	1.00	1.60	2.50	3.50
AAS 464	0.40	0.60	0.90	1.40	2.00	0.30	0.50	0.80	1.30	1.80
AAS 465	0.50	0.80	1.40	2.10	3.00	0.50	0.80	1.20	1.90	2.70
AAS 4105	0.50	0.80	1.40	2.10	3.00	0.50	0.80	1.20	1.90	2.70
AAS 4106	0.72	1.10	1.80	2.80	4.00	0.60	1.00	1.60	2.50	3.50
AAS 596	0.72	1.10	1.80	2.80	4.00	0.60	1.00	1.60	2.50	3.50
AAS 597	1.30	2.00	3.30	5.10	7.30	1.10	1.70	2.80	4.30	6.20
AAS 5126	0.72	1.10	1.80	2.80	4.00	0.60	1.00	1.60	2.50	3.50
AAS 5127	1.30	2.00	3.30	5.10	7.30	1.10	1.70	2.80	4.30	6.20
AAS 5137	1.30	2.00	3.30	5.10	7.30	1.10	1.70	2.80	4.30	6.20
AAS 5139	2.10	3.30	5.30	8.30	11.80	1.90	2.90	4.60	7.10	10.20
AAS 5179	2.10	3.30	5.30	8.30	11.80	1.90	2.90	4.60	7.10	10.20
AAS 51711	3.40	5.30	8.50	13.20	18.80	3.00	4.60	7.40	11.60	16.50
AAS 6117	1.30	2.00	3.30	5.10	7.30	1.10	1.70	2.80	4.30	6.20
AAS 6137	1.30	2.00	3.30	5.10	7.30	1.10	1.70	2.80	4.30	6.20
AAS 6139	2.10	3.30	5.30	8.30	11.80	1.90	2.90	4.60	7.10	10.20
AAS 61411	3.40	5.30	8.50	13.20	18.80	3.00	4.60	7.40	11.60	16.50
AAS 61713	5.10	8.00	12.80	20.00	28.50	4.40	6.90	11.00	17.20	24.50
AAS 62013	5.10	8.00	12.80	20.00	28.50	4.40	6.90	11.00	17.20	24.50
AAS 62513			12.80	20.80	28.50	4.40	6.90	11.00	17.20	24.50

The maximum capacity in tons recommended is based on a pressure drop through the accumulator equivalent to 1.0°F.

Note: 1) The minimum system capacity in tons must be no less than 15% of the stated capacity in order to ensure a positive return of oil.

2) All of the data is based on tons of refrigeration and is not related to horsepower.

3) Minimum evaporator temperature of -40°F. Minimum temperature of the suction gas through the accumulator is 12°F