

ASME Accumulators

Maximum Working Pressure—450 psig



ASME Accumulators

ASME accumulators are used to prevent liquid slugging of the compressor during a flood-back condition. If liquid enters the compressor cylinder, costly damage can occur. Our accumulators capture excess liquid leaving the evaporator, allowing the system to vaporize it during normal operation, returning only refrigerant vapor to the compressor. A weep hole is included in the internal tube to facilitate proper oil return from the accumulator to the operating system.

The accumulator must be placed between the evaporator and compressor to intercept the excess liquid. To size the accumulator, you must select the model with the tonnage nearest to the tonnage of the operating system. Care must also be taken to evaluate the amount of liquid holding capacity needed. We recommend the holding capacity not be less than 50% of the system charge. The minimum tonnage is the lowest capacity that will provide for adequate oil return from the accumulator. While these are general guidelines, it is the responsibility of the system designer to select and apply the accumulator properly. Contact us for help in selecting the proper model.

Features

- Low pressure drop
- Positive oil return
- Powder painted finish to protect the accumulator during condensation
- 450 psig maximum working pressure

Consult Westermeyer Industries for custom sizes, including heat exchanger models.

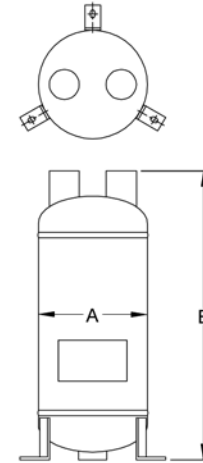
Diameter	CRN
8-5/8"	M3495.5C
10-3/4"	M3492.5C
12-3/4"	M3491.5C
14"	M4353.567890134YTN
16"	M4297.5C
20"	D08060.678901345YTN / U8190.2



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Catalog Number	Holding Cap. (lbs of R-22)	ODS Conn. Size	Dimensions	
			A	B
A8-15	29	1-5/8	8.625"	22"
A8-21	29	2-1/8	8.625"	22"
A10-21	43	2-1/8	10.75"	22"
A10-25	43	2-5/8	10.75"	22"
A10-31	48	3-1/8	10.75"	25"
A12-31	72	3-1/8	12.75"	25"
A14-41	115	4-1/8	14"	34"
A16-41	135	4-1/8	16"	36"
A20-41	276	4-1/8	20"	45"



Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
	R-22									
	-40°F		-20°F		0°F		20°F		40°F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
A8-15	1.12	5	1.4	8	2.3	12.5	2.5	19	5	28
A8-21	2	12	4	18	5	27	7	41	10	60
A10-21	2	12	4	18	5	27	7	41	10	60
A10-25	4	17	6	27	8	41	10	62	14	90
A10-31	6	25	9	40	12	61	15	92	20	132
A12-31	6	25	9	40	12	61	15	92	20	132
A14-41	12	37	20	61	31	96	47	145	68	210
A16-41	12	37	20	61	31	96	47	145	68	210
A20-41	12	37	20	61	31	96	47	145	68	210

Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
	R-404A									
	-40°F		-20°F		0°F		20°F		40°F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
A8-15	1.12	4	1.5	7.8	2.5	12.5	3.5	19	2	25
A8-21	2	10	3	17	5	28	8	42	12	65
A10-21	2	10	3	17	5	28	8	42	12	65
A10-25	3	15	5	25	8	41	13	63	19	97
A10-31	5	22	8	38	12	61	19	94	29	143
A12-31	5	22	8	38	12	61	19	94	29	143
A14-41	11	35	19	59	31	96	48	148	73	225
A16-41	11	35	19	59	31	96	48	148	73	225
A20-41	11	35	19	59	31	96	48	148	73	225

For pump-down capacities in R-404A, multiply the R-22 holding capacity by .90.