



Introduction

Accumulator is main components of heating, ventilation, and air conditioning (HVAC) systems to protect compressors and improve system performance. The main function is to prevent liquid refrigerant and excess oil from entering the compressor. In a suction line accumulator, a mixture of vapor and liquid refrigerant enters. The vapor refrigerant flows through to the compressor, while the liquid refrigerant is collected and held at the bottom of the accumulator. This prevents liquid refrigerant from reaching the compressor, protecting it from damage (like liquid slugging).

Key Features

Compressor Protection: Separates liquid refrigerant and vapor to prevent liquid refrigerant from entering the compressor and causing damage.

Pressure equalization: Pressure equalization at the accumulators' inlet and outlet, even during off-cycle periods.

Reducing noise: Minimal pressure drops, reducing noise on the low-pressure side of the system. **Stability in Operation:** maintain stable operation under varying load conditions, ensuring consistent comfort levels.

Prevention of Liquid Slugging: Prevents liquid refrigerant from entering the compressor by separating liquid from vapor before it reaches the compressor.

Long-Term Cost Savings: Minimizes repair and maintenance costs by protecting the compressor and improving system efficiency.

Application

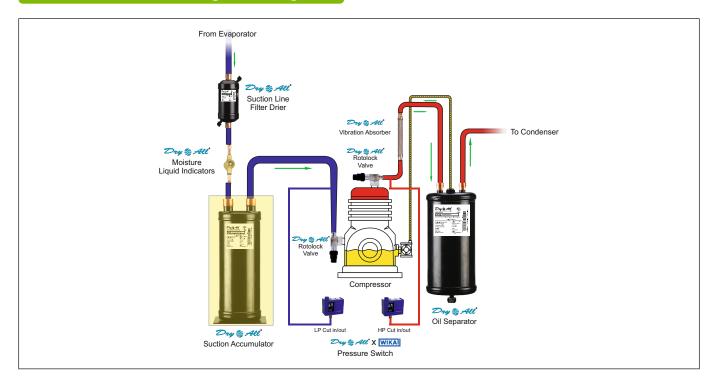
Suction line accumulators are installed in air conditioning and refrigeration systems where a sudden surge of liquid down the suction line is possible. The product range is designed for use with HCFC, HFC and HFO refrigerants, along with their associated oils.

Areas of application includes,

- 1. Residential Air Conditioning Systems
- 2. Commercial Air Conditioning Systems
- 3. Industrial Refrigeration Systems
- **4.**Heat Pumps
- **5.** Process Chillers



Product installed in Refrigeration System



Working Principle

- An accumulator in HVAC&R systems managing the flow of refrigerant to ensure optimal system performance and reliability. It serves as a protective component that prevents compressor damage and supports stable system operation.
- When refrigerant exits the evaporator, it often contains a two-phase mixture-a combination of liquid and vapor. If this mixture were to enter the compressor directly, it could cause significant mechanical damage.
- The accumulator, strategically located between the evaporator and compressor, receives this refrigerant mixture. Inside, a U-tube structure facilitates the separation of liquid refrigerant from vapor through gravitational and phase differentiation.
- The denser liquid refrigerant settles at the bottom of the accumulator, while the lighter vapor phase rises and exits through the discharge outlet tube directed toward the compressor. This ensures that only superheated vapor reaches the compressor, effectively preventing a condition known as liquid slugging, which can result in compressor failure.
- In addition to phase separation, the accumulator functions as a temporary reservoir, storing excess refrigerant during varying load conditions. It also helps regulate refrigerant flow, contributing to system pressure and temperature stability.



Technical Specifications

- Maximum working pressure 31 Bar (450 Psig.)
- Maximum working pressure 25 Bar for few models.
- Fusible plug available on specific model
- Allowable operating temperature = -40°C To +70°C

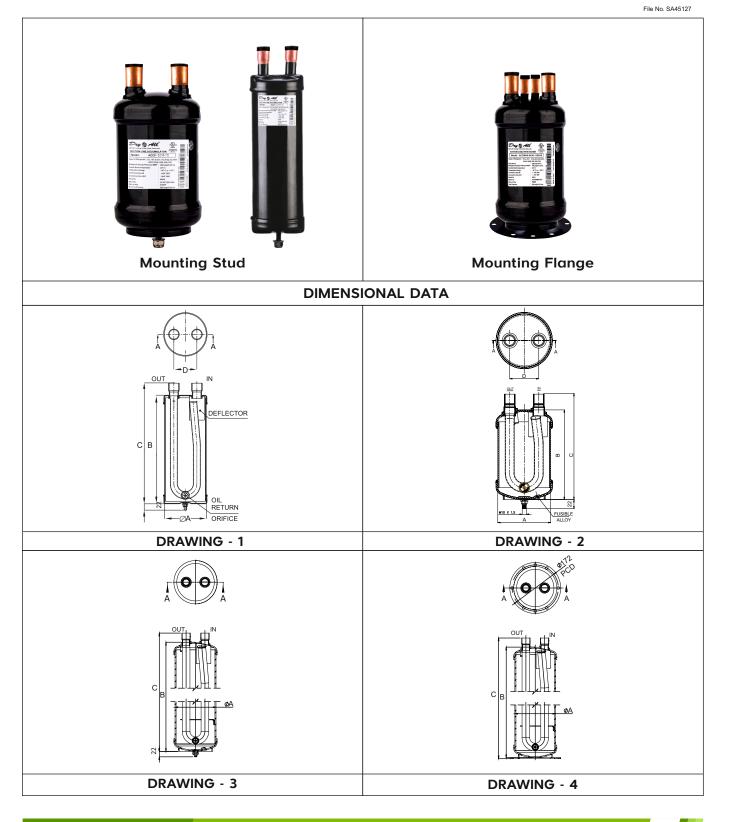
Certificate/Compliances

- UL listed File no. SA45127 [UL 207]
- RoHS Compliance [ROHS-3.0 2015/863/EU Directive]
- REACH Compliance [EC 1907/2006]
- CE Marking- SEP (A4P3)/CAT1/CAT2



IMAGES & DRAWINGS







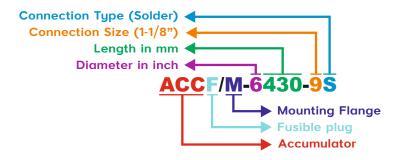
Dimensional Data



Sr No.	Model	Connection Sie (inch)		Dimesions									Refer Drawing No
			e e	A	ı	В	(:	I	D	E		
			mm	inch	mm	inch	mm	inch	mm	inch	mm		
SERI	ES - Ø3"												
1	ACC-3185-4S	1/2" ODF			185	7.28	223	8.78				M8 X 1.25PITCH	
2	ACC-3239-5S	5/8" ODF	76.2	3	239	9.41	277	10.91	41	1.65	N/A	M8 X 1.25PITCH	1 ,
3	ACC-3349-6S	3/4" ODF	/6.2	3	349	13.74	387	15.24	41	1.00	N/A	M8 X 1.25PITCH	
4	ACC-3370-4S	1/2" ODF			370	14.57	408	16.06	-			M8 X 1.25PITCH	
SERI	ES - Ø4"												
5	ACCF-4254-4S	1/2" ODF										M10 X 1.5 PITCH	
6	ACCF-4254-5S	5/8" ODF	101.6	4	254	10	290	11.41	48	1.89	N/A	M10 X 1.5 PITCH	- 1
SERI	SERIES - Ø5"												
7	ACCF-5216-6S	3/4" ODF		216 8.51 252.0 9.92		M10 X 1.5 PITCH							
8	ACCF-5216-7S	7/8" ODF			216	8.51	253.5	9.98			N/A	M10 X 1.5 PITCH	2
9	ACCF-5330-7S	7/8" ODF		_	330	12.99	367.5	14.46				M10 X 1.5 PITCH	
10	ACCF-5330-9S	1-1/8" ODF	127	5	330	12.99	367.5	14.46	70	2.76		M10 X 1.5 PITCH	
11	ACCF-5430-9S	1-1/8" ODF			430	16.93	467.5	18.41	-			M10 X 1.5 PITCH	
12	ACCF-5430-11S	1-3/8" ODF			430	16.93	474.5	18.68	-			M10 X 1.5 PITCH	
SERI	ES - Ø6"												
13	ACCF-6330-7S	7/8" ODF			330	12.99	366.5	14.43				M10 X 1.5 PITCH	
14	ACCF-6330-9S	1-1/8" ODF			330	12.99	366.5	14.43				M10 X 1.5 PITCH	
15	ACCF-6430-7S	7/8" ODF			430	16.93	466.5	18.36			N/A	M10 X 1.5 PITCH	3
16	ACCF-6430-9S	1"- 1/8 ODF	152.4	6	430	16.93	466.5	18.36	70	2.76	IN/ A	M10 X 1.5 PITCH	3
17	ACCF-6430-11S	1-3/8" ODF	152.4		430	16.93	473.5	18.64		2.70		M10 X 1.5 PITCH	
18	ACCF-6430-13S	1"-5/8 ODF			430	16.93	489	19.25				M10 X 1.5 PITCH	
19	ACCM-6508-13S	1"-5/8 ODF			508	20	567	22.32			172	Round flange	4
20	ACCM-6635-13S	1"-5/8 ODF			635	25	694	27.32	2				

- 1) The refrigerant holding capacity of Dry All Accumulator is based on average condition of more than 50% fill under running condition.
- 2) When selecting or sizing an Accumulator connections may not necessarily match the suction line size.
- 3) Maximum working pressure 31.03 Bar (450psig) approx.
- 4) Temperature range: -40°C To +80°C.
- 5) Fusible plug on 4",5", and 6" models.

Nomenclature





Functional Data

UL Listed



	Accumulator Rating											
SER	IES - Ø3"	Evaporator	temperature	R22	R410A	R404	R134a					
Sr No.	Model	°F	°C	Kw	Kw	Kw	Kw					
		40	4.4	10.94	13.59	8.84	7.87					
		30	-1.1	9.77	12.63	8.00	7.08					
		20	-6.7	8.73	11.51	7.02	6.22					
		10	-12	7.76	10.30	6.21	5.54					
1	ACC-3185-4S	0	-18	6.86	9.14	5.47	4.77					
		-10	-23	6.03	8.25	4.79	4.20					
		-20	-29	5.29	7.25	4.16	3.59					
		-30	-34	4.60	6.47	3.60	3.12					
		-40	-40	3.98	5.61	3.09	2.62					
		40	4.4	17.10	21.25	13.82	12.31					
		30	-1.1	15.28	19.75	12.50	11.06					
		20	-6.7	13.65	17.99	10.97	9.73					
		10	-12	12.13	16.10	9.71	8.67					
2	ACC-3239-5S	0	-18	10.73	14.30	8.55	7.46					
		-10	-23	9.42	12.89	7.49	6.57					
		-20	-29	8.27	11.33	6.51	5.61					
		-30	-34	7.20	10.12	5.63	4.88					
		-40	-40	6.23	8.78	4.82	4.10					
		40	4.4	24.71	30.71	19.97	17.79					
		30	-1.1	22.08	28.54	18.07	15.99					
		20	-6.7	19.72	26.01	15.86	14.06					
		10	-12	17.54	23.26	14.04	12.53					
3	ACC-3349-6S	0	-18	15.51	20.66	12.36	10.78					
		-10	-23	13.62	18.63	10.82	9.50					
		-20	-29	11.96	16.37	9.41	8.11					
		-30	-34	10.40	14.62	8.13	7.06					
		-40	-40	9.00	12.69	6.97	5.92					
		40	4.4	10.93	13.59	8.84	7.87					
		30	-1.1	9.76	12.63	8.00	7.08					
		20	-6.7	8.72	11.51	7.02	6.22					
		10	-12	7.75	10.30	6.21	5.54					
4	ACC-3370-4S	0	-18	6.86	9.14	5.47	4.77					
		-10	-23	6.02	8.25	4.79	4.20					
		-20	-29	5.29	7.25	4.16	3.59					
		-30	-34	4.60	6.47	3.60	3.12					
		-40	-40	3.98	5.61	3.09	2.62					



Functional Data

UL Listed



			Acc	umulator Rating			
SERIE	:S - Ø4"	Evaporator	temperature	R22	R410A	R404	R134a
Sr No.	Model	°F	°C	Kw	Kw	Kw	Kw
		40	4.4	10.93	13.59	8.84	7.87
		30	-1.1	9.76	12.63	8.00	7.08
		20	-6.7	8.72	11.51	7.02	6.22
		10	-12	7.75	10.30	6.21	5.54
5	ACCF-4254-4S	0	-18	6.86	9.14	5.47	4.77
		-10	-23	6.02	8.25	4.79	4.20
		-20	-29	5.29	7.25	4.16	3.59
		-30	-34	4.60	6.47	3.60	3.12
		-40	-40	3.98	5.61	3.09	2.62
		40	4.4	17.10	21.25	13.82	12.31
		30	-1.1	15.28	19.75	12.50	11.06
		20	-6.7	13.65	17.99	10.97	9.73
		10	-12	12.13	16.10	9.71	8.67
6	ACCF-4254-5S	0	-18	10.73	14.30	8.55	7.46
		-10	-23	9.42	12.89	7.49	6.57
		-20	-29	8.27	11.33	6.51	5.61
		-30	-34	7.20	10.12	5.63	4.88
		-40	-40	6.23	8.78	4.82	4.10
SERIE	ES - Ø5"						
		40	4.4	24.60	30.57	19.88	17.71
		30	-1.1	21.98	28.41	17.98	15.92
		20	-6.7	19.63	25.89	15.79	14.00
		10	-12	17.45	23.15	13.97	12.47
7	ACCF-5216-6S	0	-18	15.44	20.57	12.30	10.73
		-10	-23	13.55	18.55	10.77	9.46
		-20	-29	11.90	16.30	9.37	8.07
		-30	-34	10.36	14.55	8.09	7.02
		-40	-40	8.96	12.63	6.94	5.90
		40	4.4	33.50	41.63	27.07	24.12
		30	-1.1	29.93	38.69	24.49	21.68
		20	-6.7	26.73	35.25	21.50	19.06
		10	-12	23.77	31.53	19.03	16.98
8	ACCF-5216-7S	0	-18	21.02	28.01	16.75	14.62
		-10	-23	18.46	25.26	14.67	12.88
		-20	-29	16.21	22.19	12.76	10.99
		-30	-34	14.10	19.82	11.02	9.57
		-40	-40	12.20	17.20	9.45	8.03



Functional Data

UL Listed



	Accumulator Rating											
SER	IES - Ø5"	Evaporator	temperature	R22	R410A	R404	R134a					
Sr No.	Model	°F	°c	Kw	Kw	Kw	Kw					
		40	4.4	33.50	41.63	27.07	24.12					
		30	-1.1	29.93	38.69	24.49	21.68					
		20	-6.7	26.73	35.25	21.50	19.06					
		10	-12	23.77	31.53	19.03	16.98					
9	ACCF-5330-7S	0	-18	21.02	28.01	16.75	14.62					
		-10	-23	18.46	25.26	14.67	12.88					
		-20	-29	16.21	22.19	12.76	10.99					
		-30	-34	14.10	19.82	11.02	9.57					
		-40	-40	12.20	17.20	9.45	8.03					
		40	4.4	55.41	68.87	44.78	39.90					
		30	-1.1	49.52	64.01	40.51	35.86					
		20	-6.7	44.23	58.32	35.57	31.53					
		10	-12	39.32	52.17	31.48	28.09					
10	ACCF-5330-9S	0	-18	34.78	46.33	27.72	24.18					
		-10	-23	30.54	41.78	24.26	21.30					
		-20	-29	26.81	36.71	21.10	18.18					
		-30	-34	23.33	32.79	18.23	15.82					
		-40	-40	20.19	28.45	15.64	13.28					
		40	4.4	55.41	68.87	44.78	39.90					
		30	-1.1	49.52	64.01	40.51	35.86					
		20	-6.7	44.23	58.32	35.57	31.53					
		10	-12	39.32	52.17	31.48	28.09					
11	ACCF-5430-9S	0	-18	34.78	46.33	27.72	24.18					
		-10	-23	30.54	41.78	24.26	21.30					
		-20	-29	26.81	36.71	21.10	18.18					
		-30	-34	23.33	32.79	18.23	15.82					
		-40	-40	20.19	28.45	15.64	13.28					
		40	4.4	82.91	103.04	67.01	59.70					
		30	-1.1	74.09	95.76	60.62	53.65					
		20	-6.7	66.17	87.26	53.22	47.18					
		10	-12	58.84	78.05	47.10	42.02					
12	ACCF-5430-11S	0	-18	52.03	69.32	41.47	36.17					
		-10	-23	45.69	62.52	36.30	31.87					
		-20	-29	40.12	54.93	31.57	27.20					
		-30	-34	34.90	49.06	27.28	23.68					
		-40	-40	30.20	42.57	23.40	19.87					



Functional Data

UL Listed



Accumulator Rating										
SER	IES - Ø6"	Evaporator	temperature	R22	R410A	R404	R134a			
Sr No.	Model	°F	°c	Kw	Kw	Kw	Kw			
		40	4.4	33.49	41.62	27.06	24.11			
		30	-1.1	29.92	38.68	24.48	21.67			
		20	-6.7	26.73	35.24	21.49	19.05			
		10	-12	23.76	31.52	19.02	16.97			
13	ACCF-6330-7S	0	-18	21.02	28.00	16.75	14.61			
		-10	-23	18.45	25.25	14.66	12.87			
		-20	-29	16.20	22.19	12.75	10.99			
		-30	-34	14.10	19.81	11.02	9.56			
		-40	-40	12.20	17.19	9.45	8.03			
		40	4.4	55.38	68.82	44.75	39.87			
		30	-1.1	49.48	63.96	40.49	35.84			
		20	-6.7	44.20	58.28	35.55	31.51			
		10	-12	39.30	52.13	31.46	28.07			
14	ACCF-6330-9S	0	-18	34.75	46.30	27.70	24.16			
		-10	-23	30.52	41.76	24.25	21.29			
		-20	-29	26.80	36.69	21.09	18.17			
		-30	-34	23.31	32.77	18.22	15.81			
		-40	-40	20.17	28.43	15.63	13.27			
		40	4.4	33.49	41.62	27.06	24.11			
		30	-1.1	29.92	38.68	24.48	21.67			
		20	-6.7	26.73	35.24	21.49	19.05			
		10	-12	23.76	31.52	19.02	16.97			
15	ACCF-6430-7S	0	-18	21.02	28.00	16.75	14.61			
		-10	-23	18.45	25.25	14.66	12.87			
		-20	-29	16.20	22.19	12.75	10.99			
		-30	-34	14.10	19.81	11.02	9.56			
		-40	-40	12.20	17.19	9.45	8.03			
		40	4.4	55.38	68.82	44.75	39.87			
		30	-1.1	49.48	63.96	40.49	35.84			
		20	-6.7	44.20	58.28	35.55	31.51			
		10	-12	39.30	52.13	31.46	28.07			
16	ACCF-6430-9S	0	-18	34.75	46.30	27.70	24.16			
		-10	-23	30.52	41.76	24.25	21.29			
		-20	-29	26.80	36.69	21.09	18.17			
		-30	-34	23.31	32.77	18.22	15.81			
		-40	-40	20.17	28.43	15.63	13.27			



Functional Data

C UL US

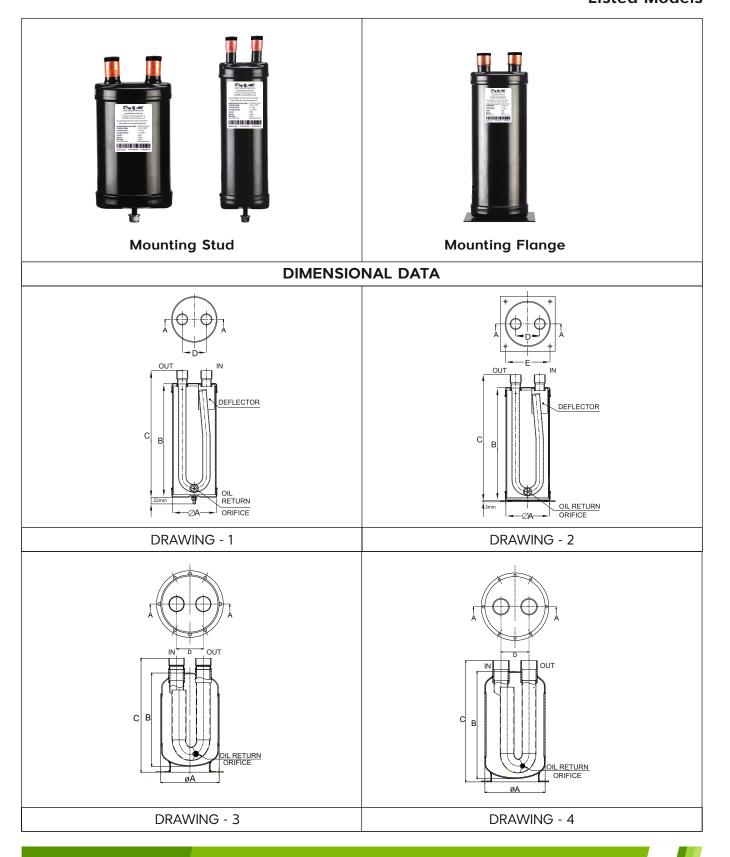
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		40	4.4	82.79	102.89	66.91	59.61
		30	-1.1	73.98	95.62	60.53	53.57
		20	-6.7	66.07	87.13	53.14	47.11
		10	-12	58.75	77.93	47.03	41.96
17	ACCF-6430-11S	0	-18	51.96	69.22	41.41	36.12
		-10	-23	45.62	62.42	36.25	31.82
		-20	-29	40.06	54.85	31.53	27.16
		-30	-34	34.85	48.98	27.24	23.64
		-40	-40	30.16	42.50	23.36	19.84
		40	4.4	115.78	143.90	93.57	83.37
		30	-1.1	103.46	133.73	84.65	74.93
		20	-6.7	92.41	121.85	74.32	65.88
		10	-12	82.16	109.00	65.78	58.68
18	ACCF-6430-13S	0	-18	72.66	96.81	57.91	50.52
		-10	-23	63.80	87.30	50.69	44.51
		-20	-29	56.03	76.70	44.09	37.98
		-30	-34	48.74	68.51	38.09	33.06
		-40	-40	42.17	59.44	32.67	27.75
		40	4.4	115.78	143.90	93.57	83.37
		30	-1.1	103.46	133.73	84.65	74.93
		20	-6.7	92.41	121.85	74.32	65.88
		10	-12	82.16	109.00	65.78	58.68
19	ACCF-6430-13S	0	-18	72.66	96.81	57.91	50.52
		-10	-23	63.80	87.30	50.69	44.51
		-20	-29	56.03	76.70	44.09	37.98
		-30	-34	48.74	68.51	38.09	33.06
		-40	-40	42.17	59.44	32.67	27.75
		40	4.4	115.78	143.90	93.57	83.37
		30	-1.1	103.46	133.73	84.65	74.93
		20	-6.7	92.41	121.85	74.32	65.88
		10	-12	82.16	109.00	65.78	58.68
20	ACCF-6430-13S	0	-18	72.66	96.81	57.91	50.52
		-10	-23	63.80	87.30	50.69	44.51
		-20	-29	56.03	76.70	44.09	37.98
		-30	-34	48.74	68.51	38.09	33.06
		-40	-40	42.17	59.44	32.67	27.75



IMAGES & DRAWINGS

Non UL Listed Models





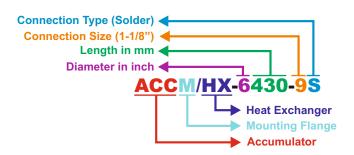
Dimensional Data

Non UL Listed Models

Sr. No.	Model	Сар	ding acity R-22	Approx Max. Ton. R22 AT + 40°F (Evaporating	Connection Size (inch)		Dimensions ØA B C D E									Mounting Flange Options	Refer Drawing No.
		LBS	KG	Temp)		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
SER	IES - Ø3"	LDS	KG			111111	IIICII	111111	IIICII	111111	Inch	111111	ITICIT	111111	IIICII		
1	ACC-3150-3S*		0.50	0.5	3/8" ODF			150	5.91	187	7.36	40	1.57	122.5	4.82	Mounting Flange	
2	ACC-3185-4S*	1.6	0.74	1.02	1/2" ODF			185	7.28	223	8.78	-10	1.57	IZZ.S	4.02	Woulding Flange	
3	ACC-3239-5S*	2.18	0.99	2.28	5/8" ODF	76.2	3	239	9.41	277	10.91						1
4	ACC-3349-6S*	3.05	1.38	3.43	3/4" ODF	70.2		349	13.74	387	15.24	41	1.65	NA	NA	M8 X 1.25PITCH	
5	ACC-3370-4S*	3.27	1.48	0.04	1/2" ODF			370	14.57	408	16.06						
SER	IES - Ø4"				,									l			
6	ACC-4254-4S*			1.02	1/2" ODF												
7	ACC-4254-5S*	3.84	1.74	2.28	5/8" ODF	101.6	4	254	10	290	11.41	48	1.89	NA	NA	M10 X 1.5 PITCH	1
	IES - Ø5"				-/												
8	ACC-5216-6S*			3.43	3/4" ODF					252	9.92						
9	ACC-5216-7S*	5.45	2.46	3.43				216	8.51	253.5	9.98			NA	NA	M10 X 1.5 PITCH	1
10	ACCM-5216-7S*	3.43	2.40		7/8" ODF			2.0	0.01	253.5	9.98			130	5.12	Mounting Flange	2
11	ACC-5330-7S*			4.57	7/8" ODF									NA	NA	M10 X 1.5 PITCH	1
12	ACCM-5330-7S*	8.17	3.70		7/8 ODI			330	12.99	367.5	14.46			130	5.12	Mounting Flange	2
13	ACC-5330-9S*	0.17	3.70			127	5	330	12.99	367.5	14.40	70	2.76	NA	NA	M10 X 1.5 PITCH	1
14	ACCM-5330-9S*			10.30	1-1/8" ODF									130	5.12	Mounting Flange	2
15	ACC-5430-9S*			10.30	I-I/8 ODI					467.5	18.41			NA	NA	M10 X 1.5 PITCH	1
16	ACCM-5430-9S*	10.90	4.94					430	16.93	407.5	10.41			130	5.12	Mounting Flange	2
17	ACC-5430-11S*	10.90	4.34	19,40	1-3/8" ODE			430	10.55	474.5	18.68	2		NA	NA	M10 X 1.5 PITCH	1
18	ACCM-5430-11S*			15.40	1-3/8" ODF					474.5	10.00			130	5.12	Mounting Flange	2
SER	IES - Ø6"																
19	ACC-6330-7S*			4.57	7/8" ODF									NA	NA	M10 X 1.5 PITCH	1
20	ACCM-6330-7S*	11.99	5.43		/			330	12.99	366.5	14.43			130	5.12	Mounting Flange	2
21	ACC-6330-9S*	11.55	3.43	10.30	1-1/8" ODF									NA	NA	M10 X 1.5 PITCH	1
22	ACCM-6330-9S*				1									130	5.12	Mounting Flange	2
23	ACC-6430-7S*			4.57	7/8" ODF									NA	NA	M10 X 1.5 PITCH	1
24	ACCM-6430-7S*									466.5	18.36	70	2.76	130	5.12	Mounting Flange	2
25	ACC-6430-9S			10.30	1"- 1/8 ODF	152.4	6							NA	NA 5.43	M10 X 1.5 PITCH	1
26	ACCM-6430-9S	15.80	7.17					430	16.93					130	5.12	Mounting Flange	2
27	ACC-6430-11S*			19.40	1-3/8" ODF					473.5	18.64			NA	NA 5.40	M10 X 1.5 PITCH	1
28	ACCM-6430-11S*													130	5.12	Mounting Flange	2
29	ACC-6430-13S			32.04	1"-5/8 ODF					489	19.25			NA 120	NA 5.12	M10 X 1.5 PITCH	1
30 SED	ACCM-6430-13S IES - Ø8"													130	5.12	Mounting Flange	2
31	ACCM-8350-17S	24.2	11		*2-1/8" ODF	219	8	350	13.8	427	16.8	100	3.9	_	_	Mounting Flange	3
	IES - Ø10"	24.2			2 1/0 001	213		330	15.0	127	10.0	100	3.3			Woulding Fluinge	
32	ACCM-105485-21S	51.6	23.4		*2-5/8" ODF	273	10	485	19	550	21.7	127	5	_		Mounting Flance	4
32	ACCIVI-103403-215	51.6	25.4		2-5/6 ODF	2/3	10	400	19	550	21.7	IZ/	5		_	Mounting Flange	4

- 1. Mounting flange shown as 'M' in model number, with 4 Holes Of Ø7mm available on customer request as shown in Drawing 3.
- 2. In the ${\bf Connection\ Size}$ column, [*] indicates that the connections are made of steel.
- 3. In the \mathbf{Model} column, [*] denotes that the model has a maximum working pressure of 25 bar.

Nomenclature





Functional Data

Non UL Listed

Accumulator Rating										
SERIE	ES - Ø3"	Evaporato	r temperature	R22	R410A	R404	R134a			
Sr No.	Model	°F	°c	Kw	Kw	Kw	Kw			
		40	4.4	6.09	6.98	3.56	4.54			
		30	-1.1	5.57	6.63	3.27	4.13			
		20	-6.7	5.07	6.19	2.94	3.65			
		10	-12	4.55	5.69	2.66	3.24			
1	ACC-3150-3S	0	-18	4.02	5.16	2.33	2.73			
		-10	-23	3.48	4.71	2.07	2.32			
		-20	-29	2.95	4.16	1.76	1.84			
		-30	-34	2.41	3.70	1.49	1.43			
		-40	-40	1.86	3.13	1.36	0.94			
		40	4.4	10.84	12.40	6.34	8.07			
		30	-1.1	9.91	11.78	5.82	7.34			
		20	-6.7	9.01	11.01	5.22	6.50			
		10	-12	8.09	10.11	4.73	5.76			
2	ACC-3185-4S	0	-18	7.15	9.18	4.15	4.86			
		-10	-23	6.19	8.38	3.68	4.13			
		-20	-29	5.25	7.40	3.12	3.26			
		-30	-34	4.28	6.57	2.65	2.54			
		-40	-40	3.30	5.56	2.42	1.68			
		40	4.4	17.10	21.25	13.82	12.31			
		30	-1.1	15.28	19.75	12.50	11.06			
		20	-6.7	13.65	17.99	10.97	9.73			
		10	-12	12.13	16.10	9.71	8.67			
3	ACC-3239-5S	0	-18	10.73	14.30	8.55	7.46			
		-10	-23	9.42	12.89	7.49	6.57			
		-20	-29	8.27	11.33	6.51	5.61			
		-30	-34	7.20	10.12	5.63	4.88			
		-40	-40	6.23	8.78	4.82	4.10			
		40	4.4	24.71	30.71	19.97	17.79			
		30	-1.1	22.08	28.54	18.07	15.99			
		20	-6.7	19.72	26.01	15.86	14.06			
		10	-12	17.54	23.26	14.04	12.53			
4	ACC-3349-6S	0	-18	15.51	20.66	12.36	10.78			
		-10	-23	13.62	18.63	10.82	9.50			
		-20	-29	11.96	16.37	9.41	8.11			
		-30	-34	10.40	14.62	8.13	7.06			
		-40	-40	9.00	12.69	6.97	5.92			



Functional Data

Non UL Listed

		40	4.4	10.93	13.59	8.84	7.87
		30	-1.1	9.76	12.63	8.00	7.08
		20	-6.7	8.72	11.51	7.02	6.22
		10	-12	7.75	10.30	6.21	5.54
5	ACC-3370-4S	0	-18	6.86	9.14	5.47	4.77
		-10	-23	6.02	8.25	4.79	4.20
		-20	-29	5.29	7.25	4.16	3.59
		-30	-34	4.60	6.47	3.60	3.12
		-40	-40	3.98	5.61	3.09	2.62
SER	IES - Ø4"						
		40	4.4	10.93	13.59	8.84	7.87
		30	-1.1	9.76	12.63	8.00	7.08
		20	-6.7	8.72	11.51	7.02	6.22
		10	-12	7.75	10.30	6.21	5.54
6	ACC-4254-4S	0	-18	6.86	9.14	5.47	4.77
		-10	-23	6.02	8.25	4.79	4.20
		-20	-29	5.29	7.25	4.16	3.59
		-30	-34	4.60	6.47	3.60	3.12
		-40	-40	3.98	5.61	3.09	2.62
		40	4.4	17.10	21.25	13.82	12.31
		30	-1.1	15.28	19.75	12.50	11.06
		20	-6.7	13.65	17.99	10.97	9.73
		10	-12	12.13	16.10	9.71	8.67
7	ACC-4254-5S	0	-18	10.73	14.30	8.55	7.46
		-10	-23	9.42	12.89	7.49	6.57
		-20	-29	8.27	11.33	6.51	5.61
		-30	-34	7.20	10.12	5.63	4.88
		-40	-40	6.23	8.78	4.82	4.10
SER	IES - Ø5"						
		40	4.4	24.60	30.57	19.88	17.71
		30	-1.1	21.98	28.41	17.98	15.92
		20	-6.7	19.63	25.89	15.79	14.00
		10	-12	17.45	23.15	13.97	12.47
8	ACC-5216-6S	0	-18	15.44	20.57	12.30	10.73
		-10	-23	13.55	18.55	10.77	9.46
		-20	-29	11.90	16.30	9.37	8.07
		-30	-34	10.36	14.55	8.09	7.02
		-40	-40	8.96	12.63	6.94	5.90



Functional Data

Non UL Listed

9 ACCM-528-75 10 ACCM								
Part			40	4.4	33.50	41.63	27.07	24.12
9 ACC-5216-75 10 1-12 21.77 3153 190.3 16.98 ACC-5216-75 10 1-18 21.02 28.01 16.75 14.62 -10 -23 18.48 25.26 14.67 12.88 -10 -23 18.48 25.26 14.67 12.88 -10 -23 18.48 12.29 12.76 10.98 -10 -40 140 12.0 17.20 9.45 8.03 -40 140 12.0 17.20 9.45 8.03 -40 141 33.50 41.63 27.07 24.12 -30 -6-7 26.73 35.55 21.50 19.06 -10 -12 23.77 31.53 19.03 16.98 -10 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -40 22 35.7 31.53 19.03 16.98 -40 44 33.50 41.63 27.07 34.12 -40 140 140 12.0 12.0 18.75 14.62 -40 229 36.21 22.19 12.76 -40 440 12.20 17.20 9.45 8.03 -41 31.0 19.92 11.02 9.57 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 24.12 -40 440 33.50 41.63 27.07 34.12 -40 440 33.50 41.63 27.07 34.12 -40 440 33.50 41.63 27.07 34.12 -40 440 33.50 41.63 27.07 34.12 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 12.20 77.20 9.45 8.03 -40 440 740 740 740 740 740 740 740 740 7			30	-1.1	29.93	38.69	24.49	21.68
ACC-4218-75			20	-6.7	26.73	35.25	21.50	19.06
10 23 18.46 25.26 14.67 12.88			10	-12	23.77	31.53	19.03	16.98
10 10 10 10 10 10 10 10	9	ACC-5216-7S	0	-18	21.02	28.01	16.75	14.62
10 1-30 1-34 14.10 19.82 11.02 9.57			-10	-23	18.46	25.26	14.67	12.88
10			-20	-29	16.21	22.19	12.76	10.99
ACCM-5216-75			-30	-34	14.10	19.82	11.02	9.57
ACCM-5216-75			-40	-40	12.20	17.20	9.45	8.03
ACCM-5216-75 10 1-12 23.77 31.53 19.03 16.98			40	4.4	33.50	41.63	27.07	24.12
10 ACCM-5216-7S 0 18 2102 28.01 16.75 14.62 12.88 12.02 28.01 16.75 14.62 12.88 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12			30	-1.1	29.93	38.69	24.49	21.68
10 ACCM-5216-75 10 -18 2102 28.01 16.75 14.62 1-10 -23 18.46 25.26 14.67 12.88 1-20 -29 16.21 22.19 12.76 10.99 1-30 -34 14.10 19.82 11.02 9.57 1-40 4.4 33.50 41.63 27.07 24.12 30 -11 29.93 38.69 24.49 21.68 20 4.6.7 26.73 35.5 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 10 23 18.46 25.26 14.67 12.88 10 23 18.46 25.26 14.67 12.88 10 23 18.46 25.26 14.67 12.88 10 23 18.46 25.26 14.67 12.88 10 23 18.46 25.26 14.67 12.88 10 23 18.46 25.26 14.67 12.88 10 30 34 14.10 19.82 11.02 9.57 40 40 44 33.50 41.63 27.07 24.12 ACCM-5330-75 50 18 21.02 28.01 16.75 18.03 ACCM-5330-75 70 18 21.02 28.01 16.76 19.99 ACCM-5330-75 70 18 29.93 38.69 24.49 21.68 20 4-6.7 26.73 35.55 21.50 19.06 10 1-12 23.77 31.53 19.03 16.98 10 -11 29.93 38.69 24.49 21.68 20 4-6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98 10 -12 23.77 31.53 19.03 16.98			20	-6.7	26.73	35.25	21.50	19.06
10 -23 18.46 25.26 14.67 12.88 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57 -40 -40 12.20 17.20 9.45 8.03			10	-12	23.77	31.53	19.03	16.98
11 ACC-5330-7S 16.21 22.19 12.76 10.99	10	ACCM-5216-7S	0	-18	21.02	28.01	16.75	14.62
11			-10	-23	18.46	25.26	14.67	12.88
11			-20	-29	16.21	22.19	12.76	10.99
ACC-5330-75 40			-30	-34	14.10	19.82	11.02	9.57
11 ACC-5330-7S			-40	-40	12.20	17.20	9.45	8.03
11 ACC-5330-7S			40	4.4	33.50	41.63	27.07	24.12
11 ACC-5330-7S 0 -18 21.02 28.01 16.75 14.62 12.88 2-20 -29 16.21 22.19 12.76 10.99 10.99 10.90 10.00 11.00 12.00 17.20 9.45 8.03 10.00 11.00 12.00 17.20 9.45 8.03 10.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11			30	-1.1	29.93	38.69	24.49	21.68
11 ACC-5330-7S 0 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57 -40 -40 12.20 17.20 9.45 8.03 40 4.4 33.50 41.63 27.07 24.12 30 -1.1 29.93 38.69 24.49 21.68 20 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 12 ACCM-5330-7S 0 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -20 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57			20	-6.7	26.73	35.25	21.50	19.06
12 ACCM-5330-7S -10 -23 18.46 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57 -40 4.4 33.50 41.63 27.07 24.12 30 -1.1 29.93 38.69 24.49 21.68 20 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 17.00 18.46 25.26 14.67 12.88 15.95 16.98 16.91 17.00 18.46 25.26 18.46 25.26 18.46 18.46 25.26 18.46 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.89 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88 18.88			10	-12	23.77	31.53	19.03	16.98
12 ACCM-5330-7S -20 -29 16.21 22.19 12.76 10.99 12.76 10.99 14.10 19.82 11.02 9.57 -40 40 4.4 33.50 41.63 27.07 24.12 30 -1.1 29.93 38.69 24.49 21.68 20 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 16.98 20 -10 -23 18.46 25.26 14.67 12.88 -20 -30 -34 14.10 19.82 11.02 9.57	11	ACC-5330-7S	0	-18	21.02	28.01	16.75	14.62
12 ACCM-5330-7S 0 -34 14.10 19.82 11.02 9.57			-10	-23	18.46	25.26	14.67	12.88
12 ACCM-5330-7S 0 12.20 17.20 9.45 8.03 40 4.4 33.50 41.63 27.07 24.12 30 -1.1 29.93 38.69 24.49 21.68 20 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 ACCM-5330-7S 0 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -20 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57			-20	-29	16.21	22.19	12.76	10.99
12 ACCM-5330-7S 0 41.63 27.07 24.12 29.93 38.69 24.49 21.68 20 6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 21.02 28.01 16.75 14.62 21.02 28.01 16.75 14.62 21.02 28.01 12.76 10.99 25.70 19.06 10.99 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.9			-30	-34	14.10	19.82	11.02	9.57
12 ACCM-5330-7S 0 -1.1 29.93 38.69 24.49 21.68 20 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 16.98 19.04 10 -23 18.46 25.26 14.67 12.88 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.09 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.			-40	-40	12.20	17.20	9.45	8.03
12 ACCM-5330-7S 0 -6.7 26.73 35.25 21.50 19.06 10 -12 23.77 31.53 19.03 16.98 10.95 10 -18 21.02 28.01 16.75 14.62 10.95 10.99 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90			40	4.4	33.50	41.63	27.07	24.12
12 ACCM-5330-7S 0 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57			30	-1.1	29.93	38.69	24.49	21.68
12 ACCM-5330-7S 0 -18 21.02 28.01 16.75 14.62 -10 -23 18.46 25.26 14.67 12.88 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57			20	-6.7	26.73	35.25	21.50	19.06
-10 -23 18.46 25.26 14.67 12.88 -20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57			10	-12	23.77	31.53	19.03	16.98
-20 -29 16.21 22.19 12.76 10.99 -30 -34 14.10 19.82 11.02 9.57	12	ACCM-5330-7S	0	-18	21.02	28.01	16.75	14.62
-30 -34 14.10 19.82 11.02 9.57			-10	-23	18.46	25.26	14.67	12.88
			-20	-29	16.21	22.19	12.76	10.99
-40 -40 12.20 17.20 9.45 8.03			-30	-34	14.10	19.82	11.02	9.57
			-40	-40	12.20	17.20	9.45	8.03



Functional Data

Non UL Listed

13								
Name			40	4.4	55.41	68.87	44.78	39.90
MacCessage 10 1-12 39.32 52.17 314.8 28.09			30	-1.1	49.52	64.01	40.51	35.86
13			20	-6.7	44.23	58.32	35.57	31.53
1-10			10	-12	39.32	52.17	31.48	28.09
14	13	ACC-5330-9S	0	-18	34.78	46.33	27.72	24.18
14			-10	-23	30.54	41.78	24.26	21.30
14			-20	-29	26.81	36.71	21.10	18.18
ACCM-5330-95			-30	-34	23.33	32.79	18.23	15.82
ACCM-5330-95			-40	-40	20.19	28.45	15.64	13.28
ACCM-5330-9S 10			40	4.4	55.41	68.87	44.78	39.90
14 ACCM-5330-95 15 ACCM-5330-95 16 18 34.78 46.33 27.72 24.18 17 10 23 30.54 41.78 24.26 21.30 18 18 34.78 36.54 21.70 18.18 20 29 26.81 36.71 21.10 18.18 20 40 4.4 55.41 68.87 44.78 39.90 20 6.7 44.23 58.32 35.57 31.53 20 29 26.81 36.71 21.10 18.18 20 4.67 44.23 58.32 35.57 31.53 20 29 26.81 36.71 21.10 18.18 20 20 4.67 44.23 58.32 35.57 31.53 20 29 26.81 36.71 21.10 18.18 20 20 4.67 44.23 58.32 35.57 31.53 20 29 26.81 36.71 21.10 18.18 20 20 4.4 55.41 68.87 44.78 39.90 20 29 26.81 36.71 21.10 18.18 20 20 20 29 26.81 36.71 21.10 18.18 20 20 20 29 26.81 36.71 21.10 18.18 20 30 3.4 55.41 68.87 44.78 39.90 20 4.4 55.41 68.87 44.78 39.90 20 5.4 6.7 44.23 58.32 35.57 31.53 20 5.5 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 6.7 44.23 58.32 35.57 31.53 20 7.7 2 24.18 20 7.7 2 24.18 20 7.7 2 24.18 20 7.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18 20 8.7 2 24.18			30	-1.1	49.52	64.01	40.51	35.86
14 ACCM-5330-9S 0			20	-6.7	44.23	58.32	35.57	31.53
1-10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82 -40 -40 20.19 28.45 15.64 13.28 -40 4.4 55.41 68.87 44.78 39.90 -40 -11 49.52 64.01 40.51 35.86 -40 -6.7 44.23 58.32 35.57 31.53 -40 -12 39.32 52.17 31.48 28.09 -40 -10 -23 30.54 41.78 24.26 21.30 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 13.28 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28.45 15.64 -40 -40 20.19 28			10	-12	39.32	52.17	31.48	28.09
15	14	ACCM-5330-9S	0	-18	34.78	46.33	27.72	24.18
15			-10	-23	30.54	41.78	24.26	21.30
15			-20	-29	26.81	36.71	21.10	18.18
ACC-5430-9S ACC-5430-9S			-30	-34	23.33	32.79	18.23	15.82
ACC-5430-9S ACC-5430-9S			-40	-40	20.19	28.45	15.64	13.28
ACC-5430-9S ACC-5430-9S 0 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 1-8 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82 -40 -40 20.19 28.45 15.64 13.28 40 4.4 55.41 68.87 44.78 39.90 30 -11 49.52 64.01 40.51 35.86 20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			40	4.4	55.41	68.87	44.78	39.90
15 ACC-5430-9S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -30 -34 23.33 32.79 18.23 15.82 -40 4.4 55.41 68.87 44.78 39.90 30 -1.1 49.52 64.01 40.51 35.86 20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 -10 -12 39.32 52.17 31.48 28.09 -10 -12 39.32 52.17 31.48 28.09 -10 -23 30.54 41.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -30 -34 23.33 32.79 18.23 15.82			30	-1.1	49.52	64.01	40.51	35.86
15 ACC-5430-9S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82 -40 -40 20.19 28.45 15.64 13.28 40 4.4 55.41 68.87 44.78 39.90 30 -1.1 49.52 64.01 40.51 35.86 20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 16 ACCM-5330-75 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			20	-6.7	44.23	58.32	35.57	31.53
10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82 -40 -40 20.19 28.45 15.64 13.28 -40 4.4 55.41 68.87 44.78 39.90 -30 -1.1 49.52 64.01 40.51 35.86 -20 -6.7 44.23 58.32 35.57 31.53 -10 -12 39.32 52.17 31.48 28.09 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			10	-12	39.32	52.17	31.48	28.09
16 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18	15	ACC-5430-9S	0	-18	34.78	46.33	27.72	24.18
-30			-10	-23	30.54	41.78	24.26	21.30
-40			-20	-29	26.81	36.71	21.10	18.18
16 ACCM-5330-7S 0 4.4 55.41 68.87 44.78 39.90 10 -1.1 49.52 64.01 40.51 35.86 20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 16 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			-30	-34	23.33	32.79	18.23	15.82
30 -1.1 49.52 64.01 40.51 35.86 20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			-40	-40	20.19	28.45	15.64	13.28
20 -6.7 44.23 58.32 35.57 31.53 10 -12 39.32 52.17 31.48 28.09 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			40	4.4	55.41	68.87	44.78	39.90
16 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			30	-1.1	49.52	64.01	40.51	35.86
16 ACCM-5330-7S 0 -18 34.78 46.33 27.72 24.18 -10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			20	-6.7	44.23	58.32	35.57	31.53
-10 -23 30.54 41.78 24.26 21.30 -20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82			10	-12	39.32	52.17	31.48	28.09
-20 -29 26.81 36.71 21.10 18.18 -30 -34 23.33 32.79 18.23 15.82	16	ACCM-5330-7S	0	-18	34.78	46.33	27.72	24.18
-30 -34 23.33 32.79 18.23 15.82			-10	-23	30.54	41.78	24.26	21.30
			-20	-29	26.81	36.71	21.10	18.18
-40 -40 20.19 28.45 15.64 13.28			-30	-34	23.33	32.79	18.23	15.82
			-40	-40	20.19	28.45	15.64	13.28



Functional Data

Non III Listed

		40	4.4	82.91	103.04	67.01	59.70
		30	-1.1	74.09	95.76	60.62	53.65
		20	-6.7	66.17	87.26	53.22	47.18
		10	-12	58.84	78.05	47.10	42.02
17	ACC-5330-9S	0	-18	52.03	69.32	41.47	36.17
		-10	-23	45.69	62.52	36.30	31.87
		-20	-29	40.12	54.93	31.57	27.20
		-30	-34	34.90	49.06	27.28	23.68
		-40	-40	30.20	42.57	23.40	19.87
		40	4.4	82.91	103.04	67.01	59.70
		30	-1.1	74.09	95.76	60.62	53.65
		20	-6.7	66.17	87.26	53.22	47.18
		10	-12	58.84	78.05	47.10	42.02
18	ACCM-5330-9S	0	-18	52.03	69.32	41.47	36.17
		-10	-23	45.69	62.52	36.30	31.87
		-20	-29	40.12	54.93	31.57	27.20
		-30	-34	34.90	49.06	27.28	23.68
		-40	-40	30.20	42.57	23.40	19.87
SER	IES - Ø6"						
		40	4.4	33.49	41.62	27.06	24.11
		30	-1.1	29.92	38.68	24.48	21.67
		20	-6.7	26.73	35.24	21.49	19.05
		10	-12	23.76	31.52	19.02	16.97
19	ACC-6330-7S	0	-18	21.02	28.00	16.75	14.61
		-10	-23	18.45	25.25	14.66	12.87
		-20	-29	16.20	22.19	12.75	10.99
		-30	-34	14.10	19.81	11.02	9.56
		-40	-40	12.20	17.19	9.45	8.03
		40	4.4	33.49	41.62	27.06	24.11
		30	-1.1	29.92	38.68	24.48	21.67
		20	-6.7	26.73	35.24	21.49	19.05
		10	-12	23.76	31.52	19.02	16.97
20	ACCM-6330-7S	0	-18	21.02	28.00	16.75	14.61
		-10	-23	18.45	25.25	14.66	12.87
		-20	-29	16.20	22.19	12.75	10.99
		-30	-34	14.10	19.81	11.02	9.56
		-40	-40	12.20	17.19	9.45	8.03
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Functional Data

Non UL Listed

21 ACC-6330-9S	39.87 35.84 31.51 28.07 24.16 21.29 18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16 21.29
20	31.51 28.07 24.16 21.29 18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16
10 -12 39.30 52.13 31.46 ACC-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25 -20 -29 26.80 36.69 21.09 -30 -34 23.31 32.77 18.22 -40 -40 20.17 28.43 15.63 40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	28.07 24.16 21.29 18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16
21 ACC-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25 -20 -29 26.80 36.69 21.09 -30 -34 23.31 32.77 18.22 -40 -40 20.17 28.43 15.63 40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	24.16 21.29 18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16
-10 -23 30.52 41.76 24.25 -20 -29 26.80 36.69 21.09 -30 -34 23.31 32.77 18.22 -40 -40 20.17 28.43 15.63 40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	21.29 18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16
-20 -29 26.80 36.69 21.09 -30 -34 23.31 32.77 18.22 -40 -40 20.17 28.43 15.63 40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	18.17 15.81 13.27 39.87 35.84 31.51 28.07 24.16
-30	15.81 13.27 39.87 35.84 31.51 28.07 24.16
-40 -40 20.17 28.43 15.63 40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	13.27 39.87 35.84 31.51 28.07 24.16
40 4.4 55.38 68.82 44.75 30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	39.87 35.84 31.51 28.07 24.16
30 -1.1 49.48 63.96 40.49 20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	35.84 31.51 28.07 24.16
20 -6.7 44.20 58.28 35.55 10 -12 39.30 52.13 31.46 22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	31.51 28.07 24.16
22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	28.07 24.16
22 ACCM-6330-9S 0 -18 34.75 46.30 27.70 -10 -23 30.52 41.76 24.25	24.16
-10 -23 30.52 41.76 24.25	
	21.29
-20 -29 26.80 36.69 21.09	
	18.17
-30 -34 23.31 32.77 18.22	15.81
-40 -40 20.17 28.43 15.63	13.27
40 4.4 33.49 41.62 27.06	24.11
30 -1.1 29.92 38.68 24.48	21.67
20 -6.7 26.73 35.24 21.49	19.05
10 -12 23.76 31.52 19.02	16.97
23 ACC-6430-7S 0 -18 21.02 28.00 16.75	14.61
-10 -23 18.45 25.25 14.66	12.87
-20 -29 16.20 22.19 12.75	10.99
-30 -34 14.10 19.81 11.02	9.56
-40 -40 12.20 17.19 9.45	8.03
40 4.4 33.49 41.62 27.06	24.11
30 -1.1 29.92 38.68 24.48	21.67
20 -6.7 26.73 35.24 21.49	19.05
10 -12 23.76 31.52 19.02	16.97
24 ACCM-6430-7S 0 -18 21.02 28.00 16.75	14.61
-10 -23 18.45 25.25 14.66	12.87
-20 -29 16.20 22.19 12.75	10.99
-30 -34 14.10 19.81 11.02	9.56
-40 -40 12.20 17.19 9.45	8.03



Functional Data

Non UL Listed

		40	4.4	55.38	68.82	44.75	39.87
		20					
		30	-1.1	49.48	63.96	40.49	35.84
	ACC-6330-9S	20	-6.7	44.20	58.28	35.55	31.51
		10	-12	39.30	52.13	31.46	28.07
25		0	-18	34.75	46.30	27.70	24.16
		-10	-23	30.52	41.76	24.25	21.29
		-20	-29	26.80	36.69	21.09	18.17
		-30	-34	23.31	32.77	18.22	15.81
		-40	-40	20.17	28.43	15.63	13.27
		40	4.4	55.38	68.82	44.75	39.87
		30	-1.1	49.48	63.96	40.49	35.84
		20	-6.7	44.20	58.28	35.55	31.51
		10	-12	39.30	52.13	31.46	28.07
26	ACCM-6330-9S	0	-18	34.75	46.30	27.70	24.16
		-10	-23	30.52	41.76	24.25	21.29
		-20	-29	26.80	36.69	21.09	18.17
		-30	-34	23.31	32.77	18.22	15.81
		-40	-40	20.17	28.43	15.63	13.27
	ACC-6430-7S	40	4.4	82.79	102.89	66.91	59.61
		30	-1.1	73.98	95.62	60.53	53.57
		20	-6.7	66.07	87.13	53.14	47.11
		10	-12	58.75	77.93	47.03	41.96
27		0	-18	51.96	69.22	41.41	36.12
		-10	-23	45.62	62.42	36.25	31.82
		-20	-29	40.06	54.85	31.53	27.16
		-30	-34	34.85	48.98	27.24	23.64
		-40	-40	30.16	42.50	23.36	19.84
	ACCM-6430-7S	40	4.4	82.79	102.89	66.91	59.61
		30	-1.1	73.98	95.62	60.53	53.57
		20	-6.7	66.07	87.13	53.14	47.11
		10	-12	58.75	77.93	47.03	41.96
28		0	-18	51.96	69.22	41.41	36.12
		-10	-23	45.62	62.42	36.25	31.82
		-20	-29	40.06	54.85	31.53	27.16
		-30	-34	34.85	48.98	27.24	23.64
		-40	-40	30.16	42.50	23.36	19.84



Functional Data

Non UL Listed

		40	4.4	115.78	143.90	93.57	83.37			
		30	-1.1	103.46	133.73	84.65	74.93			
		20	-6.7	92.41	121.85	74.32	65.88			
		10	-12	82.16	109.00	65.78	58.68			
29	ACC-6330-9S	0	-18	72.66	96.81	57.91	50.52			
		-10	-23	63.80	87.30	50.69	44.51			
		-20	-29	56.03	76.70	44.09	37.98			
		-30	-34	48.74	68.51	38.09	33.06			
		-40	-40	42.17	59.44	32.67	27.75			
		40	4.4	115.78	143.90	93.57	83.37			
		30	-1.1	103.46	133.73	84.65	74.93			
		20	-6.7	92.41	121.85	74.32	65.88			
		10	-12	82.16	109.00	65.78	58.68			
30	ACCM-6330-9S	0	-18	72.66	96.81	57.91	50.52			
		-10	-23	63.80	87.30	50.69	44.51			
		-20	-29	56.03	76.70	44.09	37.98			
		-30	-34	48.74	68.51	38.09	33.06			
		-40	-40	42.17	59.44	32.67	27.75			
SERIES - Ø8"										
		40	4.4	219.56	249.74	127.58	164.63			
		30	-1.1	201.59	237.66	117.49	150.35			
	ACCM-8350-17S	20	-6.7	184.06	222.67	105.66	133.85			
		10	-12	166.22	205.30	96.00	119.55			
31		0	-18	148.03	187.08	84.60	101.90			
		-10	-23	129.34	171.55	75.30	87.68			
		-20	-29	111.13	152.58	64.45	70.71			
		-30	-34	92.28	136.47	55.09	56.60			
		-40	-40	73.27	116.82	50.60	39.70			
SERI	ES - Ø10"									
	ACCM-105485-21S	40	4.4	197.95	342.59	175.03	222.98			
		30	-1.1	176.89	325.41	160.82	202.77			
		20	-6.7	157.99	304.09	144.17	179.37			
		10	-12	140.47	279.34	130.57	159.13			
32		0	-18	124.23	253.42	114.56	134.22			
		-10	-23	109.08	231.32	101.50	114.11			
		-20	-29	95.79	204.36	86.28	90.12			
		-30	-34	83.34	181.45	73.21	70.16			
		-40	-40	72.11	153.52	66.89	46.28			



Holding Capacity (Unit in kg)

Sr		Total	R	22	R410A		R404		R134a	
No.	Model	Volume (Lit.)	4.4 °C	30°C	4.4 °C	30 °C	4.4 °C	30 °C	4.4 °C	30°C
1	ACC-3150-3S	0.60	0.38	0.35	0.35	0.31	0.34	0.31	0.38	0.36
2	ACC-3185-4S	0.72	0.46	0.42	0.42	0.37	0.41	0.37	0.46	0.43
3	ACC-3239-5S	0.94	0.60	0.55	0.54	0.49	0.53	0.48	0.60	0.56
4	ACC-3349-6S	1.38	0.87	0.81	0.80	0.72	0.78	0.71	0.88	0.82
5	ACC-3370-4S	1.46	0.92	0.85	0.85	0.76	0.83	0.75	0.93	0.87
6	ACCF-4254-4S	1.93	1.22	1.13	1.12	1.00	1.10	0.99	1.23	1.15
7	ACCF-4254-5S	1.93	1.22	1.13	1.12	1.00	1.10	0.99	1.23	1.15
8	ACCF-5216-6S	2.07	1.31	1.13	1.20	1.07	1.17	1.06	1.32	1.13
9	ACCF-5216-7S	2.07	1.31	1.21	1.20	1.07	1.17	1.06	1.32	1.23
10	ACCF-5330-7S	3.29	2.08	1.93	1.90	1.70	1.87	1.68	2.10	1.95
11	ACCF-5330-9S	3.29	2.08	1.93	1.90	1.70	1.87	1.68	2.10	1.95
12	ACCF-5330-9S	3.29	2.08	1.93	1.90	1.70	1.87	1.68	2.10	1.95
13	ACCF-5430-11S	4.37	2.77	2.56	2.53	2.26	2.48	2.24	2.79	2.59
14	ACCF-6330-7S	4.87	3.08	2.85	2.82	2.52	2.76	2.49	3.11	2.89
15	ACCF-6330-9S	4.87	3.08	2.85	2.82	2.52	2.76	2.49	3.11	2.89
16	ACCF-6430-7S	6.46	4.09	3.78	3.74	3.35	3.67	3.30	4.13	3.83
17	ACCF-6330-9S	4.87	3.08	2.85	2.82	2.52	2.76	2.49	3.11	2.89
18	ACCF-6430-11S	6.46	4.09	3.78	3.74	3.35	3.67	3.30	4.13	3.83
19	ACCF-6430-13S	6.46	4.09	3.78	3.74	3.35	3.67	3.30	4.13	3.83
20	ACCF-6430-13S	6.46	4.09	3.78	3.74	3.35	3.67	3.30	4.13	3.83
21	ACCF-6430-13S	6.46	4.09	3.78	3.74	3.35	3.67	3.30	4.13	3.83
22	ACC-3185-4S	0.69	0.44	0.40	0.40	0.36	0.39	0.35	0.44	0.41
23	ACC-3239-5S	0.91	0.58	0.53	0.53	0.47	0.52	0.47	0.58	0.54
24	ACC-3349-6S	1.35	0.85	0.79	0.78	0.70	0.77	0.69	0.86	0.80
25	ACC-3370-4S	1.43	0.91	0.84	0.83	0.74	0.81	0.73	0.91	0.85
26	ACC-4254-4S	1.93	1.22	1.13	1.12	1.00	1.10	0.99	1.23	1.15
27	ACC-4254-5S	1.93	1.22	1.13	1.12	1.00	1.10	0.99	1.23	1.15
28	ACC-5216-6S	2.48	1.57	1.45	1.44	1.29	1.41	1.27	1.58	1.47
29	ACC-5216-7S	2.48	1.57	1.45	1.44	1.29	1.41	1.27	1.58	1.47
30	ACCM-5216-7S	2.48	1.57	1.45	1.44	1.29	1.41	1.27	1.58	1.47
31	ACC-5330-7S	3.8	2.41	2.22	2.20	1.97	2.16	1.94	2.43	2.25
32	ACCM-5330-75	3.8	2.41	2.22	2.20	1.97	2.16	1.94	2.43	2.25
33	ACC-5330-9S	3.8	2.41	2.22	2.20	1.97	2.16	1.94	2.43	2.25
34	ACCM-5330-9S	3.8	2.41	2.22	2.20	1.97	2.16	1.94	2.43	2.25
35	ACC-5430-9S	4.96	3.14	2.90	2.87	2.57	2.81	2.54	3.17	2.94
36	ACCM-5430-9S	4.96	3.14	2.90	2.87	2.57	2.81	2.54	3.17	2.94
37	ACC-5430-11S	4.96	3.14	2.90	2.87	2.57	2.81	2.54	3.17	2.94
38	ACCM-5430-11S	4.96	3.14	2.90	2.87	2.57	2.81	2.54	3.17	2.94
39	ACC-6330-7S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
40	ACCM-6330-7S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
41	ACC-6330-9S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
42	ACCM-6330-9S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
43	ACC-6430-7S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
44	ACCM-6430-7S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
45	ACC-6330-9S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
46	ACCM-6330-9S	4.92	3.11	2.88	2.85	2.55	2.79	2.52	3.14	2.92
47	ACC-6430-11S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
48	ACCM-6430-11S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
49	ACC-6430-13S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
50	ACCM-6430-13S	6.55	4.15	3.84	3.79	3.39	3.72	3.35	4.19	3.89
51	ACCM-8350-17S	10.86	6.87	6.36	6.29	5.63	6.16	5.56	6.94	6.44
52	ACCM-105485-21S	22.44	14.20	13.14	12.99	11.63	12.73	11.48	14.34	13.31
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Note: Refrigerant holding capacity is the weight of refrigerant the suction accumulator can safely hold without the risk of carry-over into the compressor suction line and accumulator selection based on refrigerant type, temperature, and required liquid capacity. For R134a at 4.4° C use 50% of internal volume for liquid storage — e.g., a 0.6 L accumulator holds $^{\sim}0.383$ kg of liquid refrigerant.

Possible Customization on Demand

- Specifics volumes and connections.
- Different supports and dimensions.

Selection Guideline

- The accumulator should have adequate holding capacity. Normally, the accumulator should not be sized for less than 50% of the total system charge.
- The system designer must verify that both the minimum and maximum refrigeration capacities of the system fall within the accumulator limits, as well as system designer verify the suction line fittings.
- The maximum capacities are based on accumulator pressure loss and oil return.
- The pressure loss is equivalent to a maximum of 1/2°C. The minimum kW capacities are to ensure proper oil return.

