

# Mbsm.pro, ADW compressor, R134a, ADW77, refrigerator compressor, 1/4 hp, 187 w, lbp

Category: compressor

written by Lilianne | 24 September 2023



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## Product Description

### 1.Product Performance

- 1)ADW77, MS series, use R134A refrigerant;
- 2)Voltage application 220V to 240V;
- 3)Frequency for 50/60HZ;
- 4)Motor type: RSIR;
- 5)Cooling type: ST;
- 6)Starting device is PTC/current Relay;
- 7)Application: Low Back Pressure;
- 8)Nominal power is 1/4HP;
- 9)COP is 1.25 with the cooling capacity 185W.

Basing on Test Condition(ASHRAE)

Evaporating Temperature: -23.3 degree

Ambient Temperature: 32.2 degree

Subcooling Temperature: 32.2 degree

Condensing Temperature: 54.4 degree

Suction Temperature: 32.2 degree

### Compressor Specification

Serial	Model	HP	V/Hz	Dispt (cm <sup>3</sup> )	Cooling Capacity (ASHRAE)					Motor type	Starting Device	Starting capacitor (uF)	Running capacitor (uF)	Cooling Type	
					Capacity (W)	Capacity (Btu/h)	Input Power(W)	Current (A)	COP						EER
	QD25HG	1/12		2.5	55	188	52	0.55	1.05	3.61	RSIR	/	/	ST	
	QD30HG	1/12		3.0	65	222	62	0.63	1.05	3.58	RSIR	/	/	ST	
	QD35HG	1/11		3.5	75	256	71	0.68	1.05	3.60	RSIR	/	/	ST	
L	ADW43	1/6-		4.3	110	375	100	1.0	1.1	3.75	RSIR	PTC Starting Relay	/	/	ST
	ADW51	1/6		5.1	125	427	104	1.1	1.2	4.10	RSIR		/	/	ST
	ADW57	1/5-		5.7	135	461	112	1.15	1.2	4.11	RSIR		/	/	ST
	ADW43	1/6-		4.3	110	375	100	1.0	1.1	3.75	RSIR		/	/	ST
	ADW51	1/6		5.1	125	427	104	1.1	1.2	4.10	RSIR		/	/	ST
MS	ADW57	1/5-		5.7	135	461	112	1.15	1.2	4.11	RSIR	/	/	ST	
	ADW66	1/4-		6.6	165	563	132	1.2	1.25	4.27	RSIR	/	/	ST	
	ADW77	1/4		7.7	185	631	148	1.4	1.25	4.27	RSIR	/	/	ST	
	ADW86	1/4+		8.6	200	682	160	1.45	1.25	4.27	RSIR	/	/	ST	
	ADW91	1/3-		9.1	220	751	176	1.65	1.25	4.27	RSIR	/	/	ST	
LM	ADW43	1/6-	220-240V/50-60HZ	4.3	110	375	100	1.0	1.1	3.75	RSIR	/	/	ST	
	ADW51	1/6		5.1	125	427	104	1.1	1.2	4.10	RSIR	PTC/Current Starting Relay	/	/	ST
	ADW57	1/5-		5.7	135	461	112	1.15	1.2	4.11	RSIR		/	/	ST
	ADW66	1/4-		6.6	165	563	132	1.2	1.25	4.27	RSIR		/	/	ST
	ADW77	1/4		7.7	185	631	148	1.4	1.25	4.27	RSIR		/	/	ST
ADW66	1/4-	6.6	165	563	132	1.2	1.25	4.27	RSIR	/	/		ST		
MK	ADW77	1/4		7.7	185	631	148	1.4	1.25	4.27	RSIR	/	/	ST	
	ADW86	1/4+		8.6	200	682	160	1.45	1.25	4.27	RSIR	/	/	ST	
	ADW91	1/3-		9.1	220	751	176	1.65	1.25	4.27	RSIR	/	/	ST	
	ADW110	3/8		11.0	270	921	215	2.05	1.25	4.28	RSIR	/	/	F	
	ADW91	1/3-		9.1	220	751	176	1.65	1.25	4.27	RSIR	/	/	F	
WQ	ADW110	3/8		11.0	270	921	215	2.05	1.25	4.28	RSIR	/	/	F	
	ADW128	3/8+		12.8	320	1092	256	2.3	1.25	4.27	CSIR	Current Starting Relay	80	/	F
	ADW142	1/2-		14.2	350	1194	280	2.6	1.25	4.27	CSIR	/	/	F	
	ADW153	1/2		15.3	380	1297	304	2.8	1.25	4.27	CSIR	/	/	F	



Serial	Model	HP	V/Hz	Dispt (cm <sup>3</sup> )	Cooling Capacity (ASHRAE)						Motor type	Starting Device	Starting capacitor (µF)	Running capacitor (µF)	Cooling Type
					Test Conditions -23.3°C (-10°F)										
					Capacity (W)	Capacity (Btu/h)	Input Power (W)	Current (A)	COP	EER					
L	QD25HG	1/12	220-240V/50-60Hz	2.5	55	188	52	0.55	1.05	3.61	RSIR	/	/	ST	
	QD30HG	1/12		3.0	65	222	62	0.63	1.05	3.58	RSIR	/	/	ST	
	QD35HG	1/11		3.5	75	256	71	0.68	1.05	3.60	RSIR	/	/	ST	
	ADW43	1/8-		4.3	110	375	100	1.0	1.1	3.75	RSIR	/	/	ST	
	ADW51	1/6		5.1	125	427	104	1.1	1.2	4.10	RSIR	/	/	ST	
	ADW57	1/5-		5.7	135	461	112	1.15	1.2	4.11	RSIR	/	/	ST	
MS	ADW43	1/8-		4.3	110	375	100	1.0	1.1	3.75	RSIR	/	/	ST	
	ADW51	1/6		5.1	125	427	104	1.1	1.2	4.10	RSIR	/	/	ST	
	ADW57	1/5-		5.7	135	461	112	1.15	1.2	4.11	RSIR	/	/	ST	
	ADW66	1/4-		6.6	165	563	132	1.2	1.25	4.27	RSIR	/	/	ST	
	ADW77	1/4		7.7	185	631	148	1.4	1.25	4.27	RSIR	/	/	ST	
	ADW86	1/4+		8.6	200	682	160	1.45	1.25	4.27	RSIR	/	/	ST	
MK	ADW91	1/3-		9.1	220	751	176	1.65	1.25	4.27	RSIR	/	/	ST	
	ADW66	1/4-		6.6	165	563	132	1.2	1.25	4.27	RSIR	/	/	ST	
	ADW77	1/4		7.7	185	631	148	1.4	1.25	4.27	RSIR	/	/	ST	
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WQ	ADW91	1/3-	9.1	220	751	176	1.65	1.25	4.27	RSIR	/	/	F		
	ADW110	3/8	11.0	270	921	215	2.05	1.25	4.28	RSIR	/	/	F		
	ADW128	3/8+	12.8	320	1092	256	2.3	1.25	4.27	CSIR	Current Starting Relay	80	/	F	
	ADW142	1/2-	14.2	350	1194	280	2.6	1.25	4.27	CSIR	Current Starting Relay	80	/	F	
	ADW153	1/2	15.3	380	1297	304	2.8	1.25	4.27	CSIR	Current Starting Relay	80	/	F	