



THE MOST ADVANCED
COMPRESSOR TECHNOLOGY AVAILABLE

**06M RECIPROCATING COMPRESSOR
WITH R410A REFRIGERANT**

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06M RECIPROCATING COMPRESSOR

Performance you demand, quality you rely on.

Whether you require air conditioning, process cooling or refrigeration, the 06M reciprocating compressor by Carlyle is the right choice for reliable, efficient operation unlike scroll compressor. The valve system in the 06M automatically adjusts to ever-changing operating conditions for maximum performance. An integrated positive displacement oil pump ensures reliable operation even under marginal lubrication. With the 06M, cylinder unloading is available over the entire product range, and unlike a scroll compressor is fully serviceable on-site with minimal downtime.



06M at a Glance

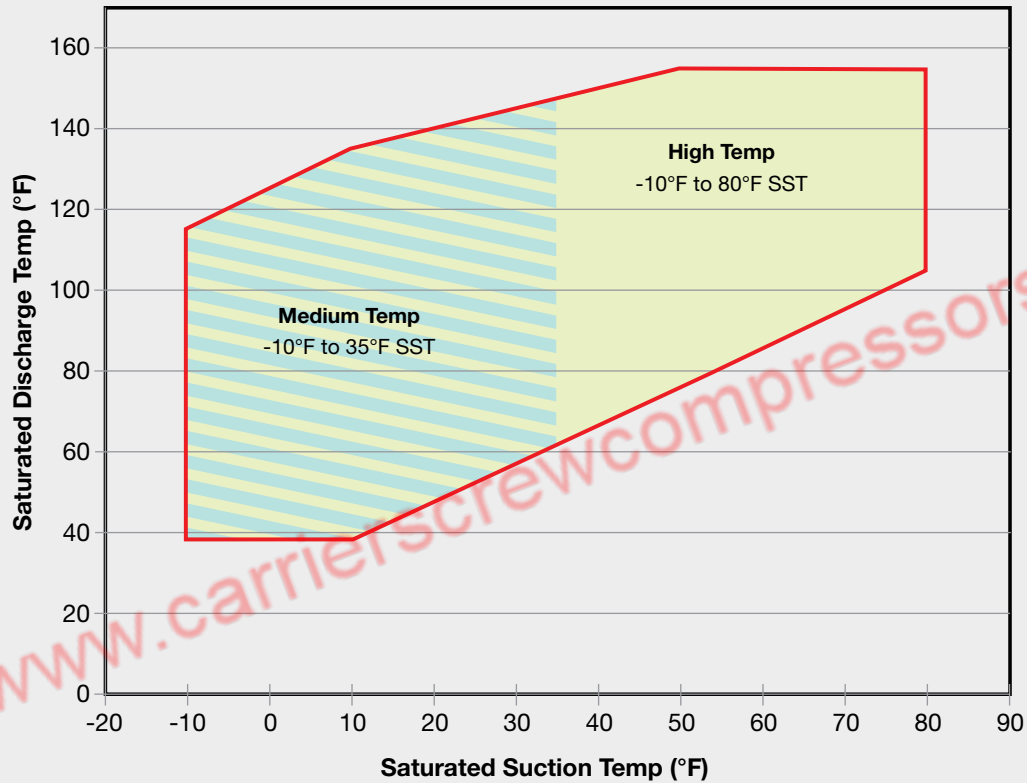
- R410A refrigerant
- Variable frequency drive (20Hz to 80Hz)
- Dual suction ports
- Wide operating envelope (-10°F to 80°F SST)
- Multiple unloading choices
- Reversible high flow oil pump
- Space saving footprint
- Service friendly
- Motor protection
- Advanced factory-installed motor and low oil protection
- UL and CSA Approved

Model Offering and Physical Data Summary

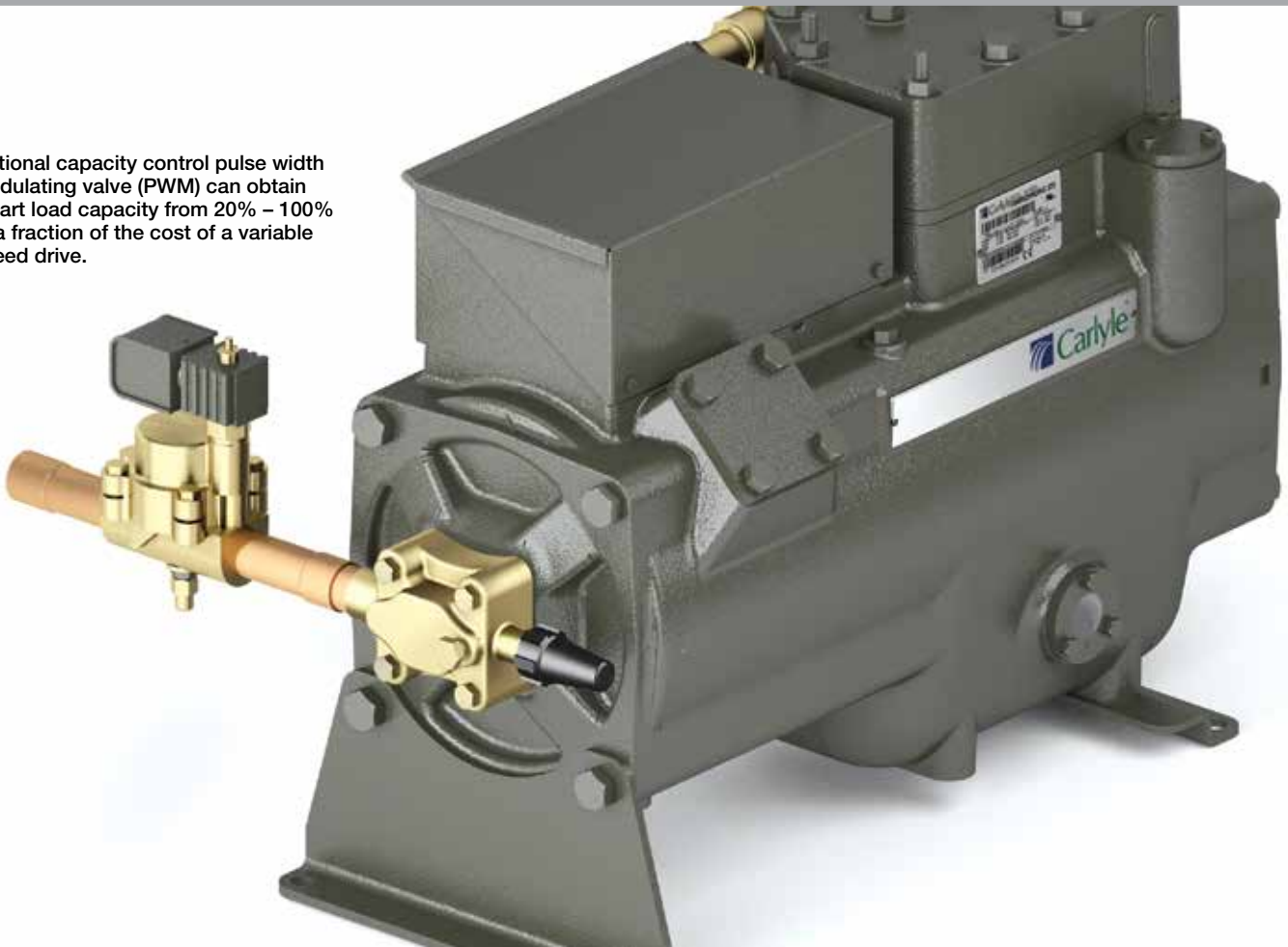
Models	CFM	Number of Cylinders	Nominal HP	Suction Line Size	Discharge Line Size	Dry Weight (lbs)	Oil Charge (pints)
Medium Temperature							
06MM015	15.5	3	7	1-1/8"	7/8"	379	5.8
06MM018	18.4	3	9	1-1/8"	7/8"	384	5.8
06MM021	21.2	3	11	1-3/8"	1-1/8"	387	5.8
06MM024	24.1	3	13	1-3/8"	1-1/8"	392	5.8
High Temperature							
06MA015	15.5	3	9	1-1/8"	7/8"	379	5.8
06MA018	18.4	3	11	1-1/8"	7/8"	384	5.8
06MA021	21.2	3	13	1-3/8"	1-1/8"	387	5.8
06MA024	24.1	3	15	1-3/8"	1-1/8"	392	5.8

Note: Normal operating speed is 1,750 RPM at 60 Hz.

06M Operating Envelopes - R410A



Optional capacity control pulse width modulating valve (PWM) can obtain a part load capacity from 20% – 100% at a fraction of the cost of a variable speed drive.



Electrical Data Summary

Compressor Model	Volt	MCC	RLA (1.4)	RLA (1.56)	LRA	Max kW	HP
Medium Temperature							
06MM015J012200	208/230	44.2	31.6	28.3	183	12.8	7
06MM015J013200	380	26.8	19.1	17.2	111		
06MM015J014200	460	22.1	15.8	14.2	91		
06MM015J015200	575	17.7	12.6	11.3	73		
06MM018K012200	208/230	51.5	36.8	33.0	215	15.7	9
06MM018K013200	380	31.2	22.3	20.0	130		
06MM018K014200	460	25.8	18.4	16.5	108		
06MM018K015200	575	20.6	14.7	13.2	86		
06MM021L012200	208/230	59.8	42.7	38.3	269	18.8	11
06MM021L013200	380	36.2	25.9	23.2	163		
06MM021L014200	460	29.9	21.4	19.2	135		
06MM021L015200	575	23.9	17.1	15.3	108		
06MM024M012200	208/230	70	50.0	44.9	305	21.9	13
06MM024M013200	380	42.4	30.3	27.2	185		
06MM024M014200	460	35	25.0	22.4	153		
06MM024M015200	575	28	20.0	17.9	122		



Electrical Data Summary

Compressor Model	Volt	MCC	RLA (1.4)	RLA (1.56)	LRA	Max kW	HP
High Temperature							
06MA015K012200	208/230	54.4	38.9	34.9	215	14.1	9
06MA015K013200	380	32.9	23.5	21.1	130		
06MA015K014200	460	27.2	19.4	17.4	108		
06MA015K015200	575	21.8	15.6	14.0	86		
06MA018L012200	208/230	62.3	44.5	39.9	269	16.7	11
06MA018L013200	380	37.7	26.9	24.2	163		
06MA018L014200	460	31.1	22.2	19.9	135		
06MA018L015200	575	24.9	17.8	16.0	108		
06MA021M012200	208/230	75.5	53.9	48.4	305	20.1	13
06MA021M013200	380	45.7	32.6	29.3	185		
06MA021M014200	460	37.8	27.0	24.2	153		
06MA021M015200	575	30.2	21.6	19.4	122		
06MA024N012200	208/230	88.9	63.5	57.0	36	24	15
06MA024N013200	380	55.7	39.8	35.7	222		
06MA024N014200	460	44.9	32.1	28.8	183		
06MA024N015200	575	34.8	24.9	22.3	146		



Performance Data

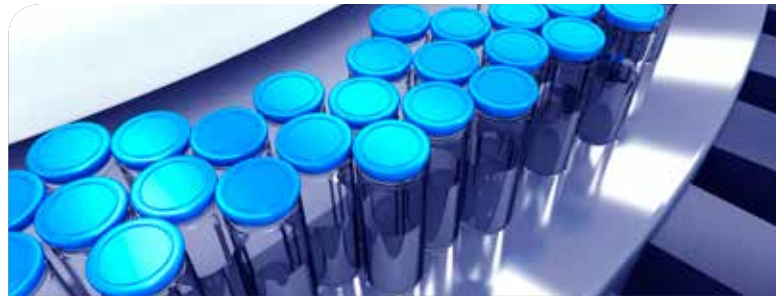
Compressor Model	Condensing Temperature SDT (°F)	Q (Btu/hr)* P (kW)	Saturated Suction Temperature SST (°F)							
Medium Temperature										
		60Hz	-10°	-5°	0°	5°	10°	15°	25°	35°
06MM015	90	Q	34,123	40,944	48,448	56,689	65,719	75,590	98,068	124,544
		P	4,942	5,318	5,661	5,969	6,235	6,456	6,742	6,793
	110	Q	23,755	18,322	36,315	43,549	51,488	60,186	80,067	103,612
		P	4,723	4,159	5,782	6,269	6,721	7,134	7,825	8,304
	130	Q	13,983	19,069	24,671	30,844	37,639	45,108	62,283	82,788
		P	3,987	4,707	5,408	6,084	6,733	7,348	8,463	9,392
06MM018	90	Q	42,560	50,676	59,547	69,229	79,780	91,258	117,221	147,576
		P	6,131	6,538	6,902	7,221	7,491	7,710	7,980	8,009
	110	Q	30,340	37,600	45,525	54,173	63,601	73,867	97,139	124,449
		P	5,993	6,613	7,192	7,727	8,213	8,648	9,355	9,824
	130	Q	18,429	24,751	31,650	39,183	47,407	56,380	76,802	100,905
		P	5,204	6,068	6,891	7,670	8,401	9,083	10,285	11,252
06MM021	90	Q	53,280	61,878	71,439	82,047	93,786	106,738	136,622	172,365
		P	7,252	7,640	8,006	8,341	8,639	8,893	9,240	9,325
	110	Q	42,442	49,816	58,007	67,098	77,173	88,315	114,135	145,228
		P	7,612	8,132	8,642	9,137	9,607	10,048	10,810	11,367
	130	Q	32,483	38,666	45,519	53,124	61,567	70,930	92,752	119,258
		P	7,722	8,360	9,003	9,643	10,274	10,889	12,042	13,046
06MM024	90	Q	60,926	70,875	81,917	94,146	107,653	122,533	156,781	197,633
		P	8,412	8,875	9,310	9,708	10,059	10,353	10,735	10,780
	110	Q	48,195	56,761	66,260	76,785	88,430	101,286	131,008	166,695
		P	8,692	9,308	9,915	10,503	11,063	11,586	12,484	13,121
	130	Q	36,447	43,642	51,611	60,446	70,240	81,086	106,307	136,853
		P	8,660	9,406	10,163	10,920	11,669	12,400	13,771	14,957



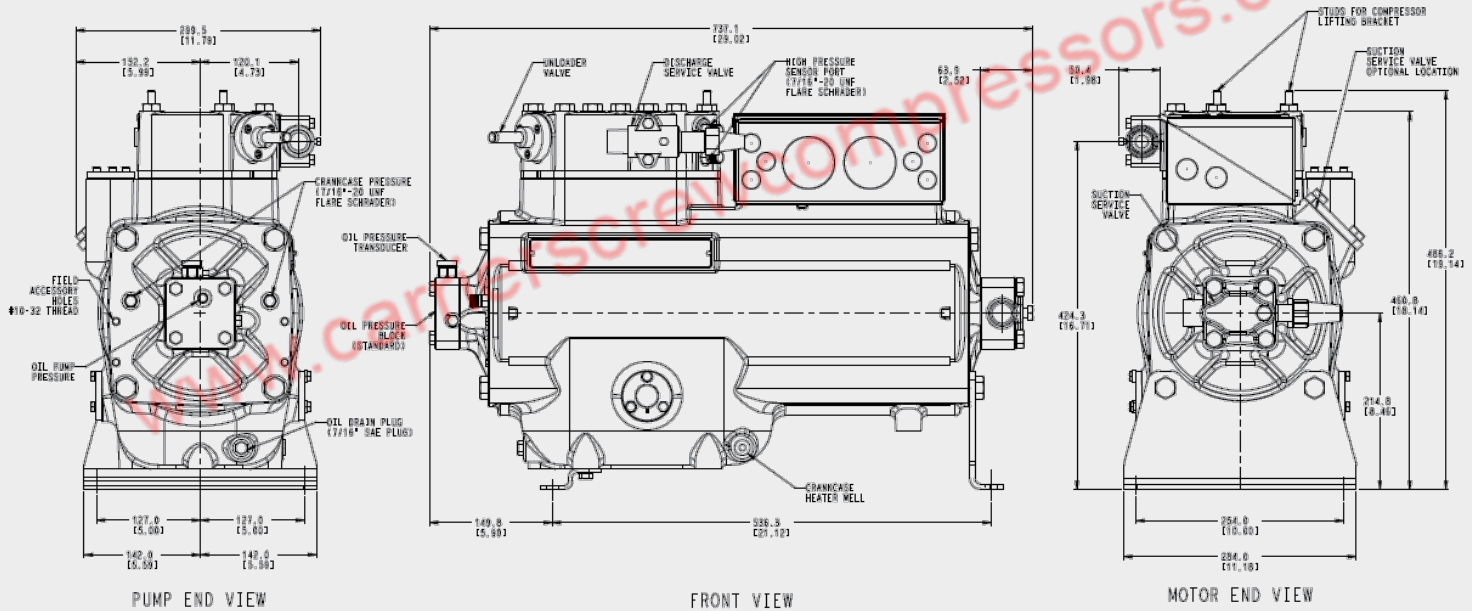
Performance Data

Compressor Model	Condensing Temperature SDT (°F)	Q (Btu/hr)* P (kW)	Saturated Suction Temperature SST (°F)							
High Temperature										
		60Hz	5°	10°	15°	20°	25°	30°	45°	55°
06MA015	90	Q	57,136	65,938	75,691	86,841	98,398	125,938	159,012	198,305
		P	5.89	6.12	6.31	6.47	6.59	6.67	6.51	6.06
	110	Q	45,406	52,883	61,149	70,288	80,389	103,817	132,125	166,002
		P	6.40	6.76	7.10	7.41	7.69	8.12	8.35	8.34
	130	Q	34,509	40,767	47,651	55,246	63,640	83,167	106,922	135,596
		P	6.65	7.14	7.62	8.08	8.51	9.29	9.90	10.31
06MA018	90	Q	69,397	79,557	90,724	102,987	116,432	147,216	183,774	226,801
		P	6.98	7.24	7.46	7.64	7.77	7.85	7.68	7.20
	110	Q	56,121	64,955	74,640	85,264	96,913	123,637	155,509	193,224
		P	7.64	8.06	8.45	8.80	9.12	9.61	9.87	9.85
	130	Q	43,271	50,833	59,090	68,129	78,038	100,810	128,104	160,617
		P	7.98	8.57	9.13	9.66	10.17	11.06	11.75	12.21
06MA021	90	Q	83,797	95,654	108,613	122,767	138,207	173,311	214,656	262,973
		P	8.27	8.57	8.82	9.02	9.17	9.27	9.07	8.54
	110	Q	68,518	78,993	90,415	102,873	116,461	147,388	183,928	226,811
		P	9.09	9.58	10.04	10.45	10.81	11.37	11.66	11.65
	130	Q	53,301	62,402	72,292	83,063	94,805	121,571	153,322	190,787
		P	9.53	10.23	10.89	11.52	12.11	13.14	13.94	14.46
06MA024	90	Q	98,395	111,980	126,768	142,854	160,334	199,863	246,123	299,881
		P	9.59	9.93	10.22	10.45	10.61	10.72	10.5	9.91
	110	Q	81,069	93,212	106,399	120,726	136,289	171,507	212,822	261,003
		P	10.58	11.15	11.67	12.14	12.55	13.18	13.50	13.49
	130	Q	63,445	74,106	85,654	98,183	111,790	142,621	178,915	221,441
		P	11.13	11.94	12.71	13.43	14.10	15.28	16.18	16.77





Technical Drawing



Accessories

- Service valves
- Oil pressure safety switch
- Oil level regulator
- Compressor interconnection package
- Muffler
- Capacity control coil packages
- Crankcase heaters
- Factory installed motor protection
- Capacity control pulse width modulating valve (PWM)

Carlyle 06M Compressors

Reliability, efficiency and versatility in one complete compressor family.

Learn more : www.carrierscrewcompressors.com