

# BULLETIN



## CARLYLE COMPRESSOR DIVISION

Visit our web site at [www.carlylecompressor.com](http://www.carlylecompressor.com)  
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**PRODUCT**

**GENERAL**

**SERVICE & PARTS**

Date: 06 December, 2002

Number: 02T-2

Issued By: P. Tollar

**Subject:** *06DR541*

**Product Name**      **06DR541**

**Product Family**



### DESCRIPTION

Want to get more for your money?

Carlyle is proud to introduce the 06DR541 compressor

- Ideal for refrigeration applications requiring a 15HP compressor
- All the capacity of a 15 Horsepower compressor in the size of a 10 Horsepower compressor
- In fact, the external dimensions are identical to our 06DR337
  - Including mounting, service valve and terminal box locations
- Initial offering will include models with 208/230, 460 & 575 volt motors

We will begin accepting orders in August 2002, so don't delay and place your order today!

## COMPRESSOR MODELS AND SPECIFICATION

Compressor Part No.	Motor HP	Displ. cfm	# Of Cyl.	Oil Charge (Pints)	Weight (Lbs)
06DR541	15	41.0	6	9.5	325

Externally the 06DR541 is identical to our 06DR337 compressor with the same mounting and service valve locations. The outline drawings in our current 06D/E Application Manual can be used for these dimensions.

## ELECTRICAL SPECIFICATIONS

Compressor Part # (on nameplate)	Compressor Pkg Part No. to order	Motor HP	Electrical Specs (Volts-Ph-Hertz)	MCC Amps	RLA Amps	LRA Amps
06DR5410DA12(*)0	06DR5410DA12(*)A	15	208/230-3-60	89.0	57.1	266
06DR5410DA06(*)0	06DR5410DA06(*)A	15	400/460-3-50/60	40.0	25.6	120
06DR5410DA01(*)0	06DR5410DA01(*)A	15	575-3-60	32.0	20.5	96

Where:

MCC = Maximum Continuous Current

RLA = Rated Load Amps

LRA = Locked Rotor Amps

\*Where: 5 = non unloading model without oil & 7 = one step electric SCO unloading, and without oil.

## APPROVED APPLICATIONS

These new compressor models are approved for low and medium refrigeration duty applications with refrigerants R-22 and R-404A/507. They have not been approved for high temperature or air conditioning duty applications with these refrigerants at this time. The approved application ranges are:

### **For R-404A/507:**

Saturated Suction Temp range: -40° F to +30° F

Saturated Condensing Temp range: 70° F to +130° F

Note: Operation below -20° F SST with R-404A/507 requires a cylinder head cooling fan.

### **For R-22:**

Saturated Suction Temp range: -30° F to +30° F

Saturated Condensing Temp range: 70° F to +130° F

Note: Operation below 0° F SST with R-22 requires a cylinder head cooling fan and desuperheating valve. The desuperheating can be a ½ ton Y-1037 as shown in our 02T-3 bulletin or the desuperheating feature in our new Sentinel compressor module.

## PERFORMANCE DATA

Attached are low and medium temperature tabular data for the new compressors applied with R-22 and R-404A/507. Carlyle's Carwin Compressor selection software is being updated to include these models. If any OEM's require the ARI co-efficients for this performance data – contact the Carlyle Application Department.

## RECOMMENDED LUBRICANTS AND ACCESSORIES

- **Approved lubricants:** Same as other 06DR's. See Section 2.3 of current 06D/E/CC Application Guide.
- **Capacity control:** Same accessory capacity control packages as used on other 06DR models. Recommend limiting to one bank of capacity control in the above approved application ranges.
- **Service valves:** Recommend 1-5/8" ODF 06EA660090 suction service valve and 1-1/8" ODF 06DA660064 discharge service valve.
- **Cylinder head fan:** Required in low temperatures as noted in above approved application ranges. Use 06DR660014 if required.
- **Oil safety switches:** Recommend their use. Use same models as other 06DR's.
- **Crankcase heaters:** Recommend their use. Use same models as other 06DR's.
- **Mufflers:** Use 06DA605614 if required.
- **Baffle plates:** Use 06DA660105 if required.
- **Spring mounting package:** Use 06DA660057 if required.
- **Sound mounting spacer:** Use (4) 30HR070-1071 if required.

## MOTOR PROTECTION AND CODE APPROVALS

The new 06DR541 compressors are supplied with supplementary overloads in the compressor terminal box and an internal thermostat in the motor to protect the compressor-motor from overcurrent and over temperature. The motor is protected against locked rotor, running overcurrent, primary and secondary single phasing and loss of refrigerant conditions. These compressors comply with UL, CSA and National Electric Code (NEC) requirements for inherent motor protection.

The supplementary overloads used are:

Compressor Model Number	Electrical Specifications	TI Overload Part Number	Carlyle Overload Part Number
06DR5410DA12(*)0	208/230-3-60	(4) 8348A17-9**	HN69GZ214**
06DR5410DA06(*)0	400/460-3-50/60	(2) 8348A19-4	HN69GZ307
06DR5410DA01(*)0	575-3-60	(2) 8347A30-69	HN69GZ301

\*Where: 5 = non-unloading model without oil & 7 = one step electric SCO unloading, without oil.

\*\* Two overloads are in parallel in legs 1 & 3.

These new models are UL recognized and CSA approved. Both the UL recognition and CSA approval are covered in the UL file below, due to harmonized codes between the United States and Canada. These new 06DR compressors are also ISO 9002 registered. The Code Approvals are shown in the following files:

UL File number – SA4936  
 CSA File number – SA4936  
 ISO 9002 Certificate Number A2899

**Model 06DR541 R-22 Low Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas                      Horsepower      15.0  
 0 Deg. Subcooling                      Displacement    41.0  
 Amp @ 230-3-60                      (CFM @ 60 Hz)  
    @ 460 Volts Multiply by .5  
    @ 575 Volts Multiply by .4

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		-30	-25	-20	-15	-10	-5	0
<b>70</b>	CAPACITY (BTU/HR)	46,936	54,496	62,888	72,310	82,957	95,024	108,709
	FLOW RATE (LB/HR)	548	637	737	849	976	1,119	1,283
	POWER (KW)	7.11	7.52	7.89	8.26	8.66	9.11	9.67
	EER (BTU/WATT HR)	6.60	7.25	7.97	8.76	9.58	10.43	11.25
	CURRENT (AMPERES)	30.7	31.6	32.2	32.8	33.6	34.7	36.3
<b>80</b>	CAPACITY (BTU/HR)	43,590	50,925	58,918	67,765	77,663	88,807	101,393
	FLOW RATE (LB/HR)	528	617	716	824	947	1,084	1,241
	POWER (KW)	7.47	8.00	8.46	8.88	9.29	9.73	10.24
	EER (BTU/WATT HR)	5.83	6.37	6.97	7.63	8.36	9.12	9.91
	CURRENT (AMPERES)	31.6	32.7	33.6	34.2	35.0	35.8	37.1
<b>90</b>	CAPACITY (BTU/HR)	39,982	47,222	54,946	63,349	72,628	82,977	94,595
	FLOW RATE (LB/HR)	502	594	693	800	919	1,052	1,202
	POWER (KW)	7.69	8.38	8.96	9.47	9.94	10.41	10.90
	EER (BTU/WATT HR)	5.20	5.64	6.13	6.69	7.31	7.97	8.68
	CURRENT (AMPERES)	31.9	33.5	34.7	35.6	36.4	37.2	38.2
<b>100</b>	CAPACITY (BTU/HR)	35,979	43,254	50,838	58,927	67,716	77,402	88,180
	FLOW RATE (LB/HR)	470	566	667	774	892	1,021	1,166
	POWER (KW)	7.72	8.61	9.35	9.99	10.56	11.08	11.60
	EER (BTU/WATT HR)	4.66	5.03	5.44	5.90	6.41	6.98	7.60
	CURRENT (AMPERES)	31.5	33.8	35.5	36.7	37.8	38.7	39.7
<b>110</b>	CAPACITY (BTU/HR)	31,446	38,886	46,460	54,364	62,794	71,946	82,015
	FLOW RATE (LB/HR)	429	531	636	746	864	991	1,133
	POWER (KW)	7.52	8.64	9.59	10.40	11.10	11.72	12.30
	EER (BTU/WATT HR)	4.18	4.50	4.84	5.23	5.66	6.14	6.67
	CURRENT (AMPERES)	30.3	33.4	35.8	37.6	38.9	40.1	41.2
<b>120</b>	CAPACITY (BTU/HR)	26,249	33,984	41,678	49,527	57,728	66,475	75,965
	FLOW RATE (LB/HR)	375	486	598	712	832	959	1,099
	POWER (KW)	7.05	8.44	9.63	10.64	11.51	12.27	12.95
	EER (BTU/WATT HR)	3.73	4.03	4.33	4.66	5.02	5.42	5.87
	CURRENT (AMPERES)	28.2	32.2	35.4	37.9	39.8	41.4	42.7
<b>130</b>	CAPACITY (BTU/HR)							
	FLOW RATE (LB/HR)							
	POWER (KW)							
	EER (BTU/WATT HR)							
	CURRENT (AMPERES)							

\* Rated with cylinder head cooling fan and liquid injection to maintain 250 deg. F discharge temperature at all operating conditions.

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

Specification Sheet # SS22-61

**Model 06DR541 R-22 Medium Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas                      Horsepower      15.0  
 0 Deg. Subcooling                      Displacement    41.0  
 Amps @ 230-3-60                      (CFM @ 60 Hz)  
    @ 460 Volts Multiply by .5  
    @ 575 Volts Multiply by .4

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		0	5	10	15	20
<b>70</b>	CAPACITY (BTU/HR)	107,994	122,286	137,883	154,999	173,844
	FLOW RATE (LB/HR)	1275	1447	1635	1845	2074
	POWER (KW)	9.44	9.74	9.98	10.18	10.31
	EER (BTU/WATT HR)	11.43	12.56	13.81	15.23	16.87
	CURRENT (AMPERES)	35.4	36.0	36.5	36.9	37.1
<b>80</b>	CAPACITY (BTU/HR)	101,389	114,984	129,816	146,098	164,043
	FLOW RATE (LB/HR)	1241	1410	1596	1803	2030
	POWER (KW)	10.23	10.62	10.97	11.27	11.52
	EER (BTU/WATT HR)	9.91	10.83	11.84	12.97	14.24
	CURRENT (AMPERES)	37.0	37.8	38.5	39.1	39.7
<b>90</b>	CAPACITY (BTU/HR)	94,889	107,784	121,849	137,295	154,336
	FLOW RATE (LB/HR)	1206	1373	1556	1760	1984
	POWER (KW)	10.98	11.46	11.91	12.32	12.69
	EER (BTU/WATT HR)	8.64	9.40	10.23	11.14	12.17
	CURRENT (AMPERES)	38.6	39.5	40.5	41.4	42.2
<b>100</b>	CAPACITY (BTU/HR)	88,487	100,679	113,973	128,580	144,714
	FLOW RATE (LB/HR)	1170	1335	1516	1717	1937
	POWER (KW)	11.69	12.27	12.82	13.33	13.81
	EER (BTU/WATT HR)	7.57	8.21	8.89	9.64	10.48
	CURRENT (AMPERES)	40.0	41.2	42.4	43.6	44.7
<b>110</b>	CAPACITY (BTU/HR)	82,175	93,661	106,181	119,947	135,172
	FLOW RATE (LB/HR)	1135	1297	1475	1673	1891
	POWER (KW)	12.35	13.02	13.67	14.29	14.88
	EER (BTU/WATT HR)	6.65	7.19	7.77	8.39	9.08
	CURRENT (AMPERES)	41.4	42.9	44.3	45.8	47.2
<b>120</b>	CAPACITY (BTU/HR)	75,946	86,723	98,466	111,388	125,699
	FLOW RATE (LB/HR)	1099	1259	1433	1628	1843
	POWER (KW)	12.96	13.71	14.46	15.19	15.88
	EER (BTU/WATT HR)	5.86	6.32	6.81	7.34	7.91
	CURRENT (AMPERES)	42.7	44.4	46.2	48.0	49.7
<b>130</b>	CAPACITY (BTU/HR)	69,792	79,858	90,821	102,894	116,291
	FLOW RATE (LB/HR)	1062	1219	1391	1583	1795
	POWER (KW)	13.50	14.34	15.18	16.01	16.82
	EER (BTU/WATT HR)	5.17	5.57	5.98	6.43	6.91
	CURRENT (AMPERES)	44.0	46.0	48.1	50.2	52.3

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

Specification Sheet # SSR22MT-56

**Model 06DR541 R-22 Medium Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas	Horsepower	15.0
0 Deg. Subcooling	Displacement	41.0
Amps @ 230-3-60	(CFM @ 60 Hz)	
@ 460 Volts Multiply by .5		
@ 575 Volts Multiply by .4		

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		25	30	35	40	45
<b>70</b>	CAPACITY (BTU/HR)	194,632	217,575			
	FLOW RATE (LB/HR)	2330	2614			
	POWER (KW)	10.37	10.35			
	EER (BTU/WATT HR)	18.77	21.02			
	CURRENT (AMPERES)	37.2	36.9			
<b>80</b>	CAPACITY (BTU/HR)	183,862	205,769			
	FLOW RATE (LB/HR)	2283	2565			
	POWER (KW)	11.70	11.82			
	EER (BTU/WATT HR)	15.71	17.42			
	CURRENT (AMPERES)	40.0	40.0			
<b>90</b>	CAPACITY (BTU/HR)	173,183	194,051			
	FLOW RATE (LB/HR)	2235	2514			
	POWER (KW)	12.99	13.24			
	EER (BTU/WATT HR)	13.33	14.66			
	CURRENT (AMPERES)	42.8	43.2			
<b>100</b>	CAPACITY (BTU/HR)	162,588	182,412			
	FLOW RATE (LB/HR)	2185	2462			
	POWER (KW)	14.24	14.61			
	EER (BTU/WATT HR)	11.42	12.48			
	CURRENT (AMPERES)	45.6	46.4			
<b>110</b>	CAPACITY (BTU/HR)	152,067	170,846			
	FLOW RATE (LB/HR)	2136	2410			
	POWER (KW)	15.43	15.93			
	EER (BTU/WATT HR)	9.86	10.73			
	CURRENT (AMPERES)	48.5	49.6			
<b>120</b>	CAPACITY (BTU/HR)	141,615	159,345			
	FLOW RATE (LB/HR)	2086	2357			
	POWER (KW)	16.55	17.17			
	EER (BTU/WATT HR)	8.56	9.28			
	CURRENT (AMPERES)	51.4	52.8			
<b>130</b>	CAPACITY (BTU/HR)	131,222	147,902			
	FLOW RATE (LB/HR)	2034	2304			
	POWER (KW)	17.60	18.34			
	EER (BTU/WATT HR)	7.46	8.06			
	CURRENT (AMPERES)	54.3	56.1			

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

Specification Sheet # SSR22MT-56

**Model 06DR541 R-507/404A Low Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas                      Horsepower      15.0  
 0 Deg. Subcooling                      Displacement    41.0  
 Amps @ 230-3-60                      (CFM @ 60 Hz)  
    @ 460 Volts Multiply by .5  
    @ 575 Volts Multiply by .4

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		-40	-35	-30	-25	-20
<b>70</b>	CAPACITY (BTU/HR)	45,495	52,378	60,187	68,999	78,894
	FLOW RATE (LB/HR)	655	755	869	999	1144
	POWER (KW)	7.04	7.54	8.04	8.54	9.03
	EER (BTU/WATT HR)	6.46	6.95	7.49	8.08	8.73
	CURRENT (AMPERES)	27.3	28.4	29.6	30.7	31.7
<b>80</b>	CAPACITY (BTU/HR)	41,042	47,554	54,891	63,130	72,349
	FLOW RATE (LB/HR)	623	723	835	964	1106
	POWER (KW)	7.26	7.80	8.35	8.91	9.47
	EER (BTU/WATT HR)	5.65	6.10	6.57	7.08	7.64
	CURRENT (AMPERES)	27.8	29.1	30.3	31.5	32.6
<b>90</b>	CAPACITY (BTU/HR)	36,715	42,846	49,700	57,354	65,887
	FLOW RATE (LB/HR)	590	690	802	928	1068
	POWER (KW)	7.44	8.03	8.63	9.25	9.87
	EER (BTU/WATT HR)	4.93	5.34	5.76	6.20	6.67
	CURRENT (AMPERES)	28.3	29.6	30.9	32.2	33.4
<b>100</b>	CAPACITY (BTU/HR)	32,523	38,262	44,622	51,682	59,518
	FLOW RATE (LB/HR)	558	657	768	893	1030
	POWER (KW)	7.59	8.22	8.87	9.55	10.23
	EER (BTU/WATT HR)	4.28	4.65	5.03	5.41	5.82
	CURRENT (AMPERES)	28.7	30.1	31.4	32.7	34.1
<b>110</b>	CAPACITY (BTU/HR)	28,473	33,810	39,666	46,120	53,249
	FLOW RATE (LB/HR)	524	624	733	856	990
	POWER (KW)	7.71	8.38	9.08	9.80	10.54
	EER (BTU/WATT HR)	3.69	4.04	4.37	4.71	5.05
	CURRENT (AMPERES)	29.0	30.4	31.8	33.2	34.7
<b>120</b>	CAPACITY (BTU/HR)	24,575	29,498	34,840	40,678	47,089
	FLOW RATE (LB/HR)	491	590	698	818	949
	POWER (KW)	7.79	8.50	9.24	10.01	10.81
	EER (BTU/WATT HR)	3.16	3.47	3.77	4.06	4.35
	CURRENT (AMPERES)	29.2	30.7	32.1	33.7	35.2
<b>130</b>	CAPACITY (BTU/HR)	20,835	25,335	30,152	35,363	41,047
	FLOW RATE (LB/HR)	456	556	663	781	908
	POWER (KW)	7.83	8.58	9.36	10.19	11.04
	EER (BTU/WATT HR)	2.66	2.95	3.22	3.47	3.72
	CURRENT (AMPERES)	29.3	30.8	32.4	34.0	35.6

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

Specification Sheet # SSAZ50HP62-13

**Model 06DR541 R-507/404A Low Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas                      Horsepower      15.0  
 0 Deg. Subcooling                      Displacement    41.0  
 Amps @ 230-3-60                      (CFM @ 60 Hz)  
    @ 460 Volts Multiply by .5  
    @ 575 Volts Multiply by .4

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		-15	-10	-5	0
<b>70</b>	CAPACITY (BTU/HR)	89,947	102,238	115,844	130,843
	FLOW RATE (LB/HR)	1308	1491	1694	1919
	POWER (KW)	9.52	10.00	10.45	10.89
	EER (BTU/WATT HR)	9.45	10.23	11.08	12.02
	CURRENT (AMPERES)	32.7	33.6	34.5	35.4
<b>80</b>	CAPACITY (BTU/HR)	82,625	94,038	106,664	120,580
	FLOW RATE (LB/HR)	1267	1447	1646	1867
	POWER (KW)	10.03	10.58	11.12	11.65
	EER (BTU/WATT HR)	8.24	8.88	9.59	10.35
	CURRENT (AMPERES)	33.7	34.8	35.8	36.8
<b>90</b>	CAPACITY (BTU/HR)	75,377	85,900	97,535	110,360
	FLOW RATE (LB/HR)	1226	1401	1596	1812
	POWER (KW)	10.50	11.13	11.75	12.35
	EER (BTU/WATT HR)	7.18	7.72	8.30	8.93
	CURRENT (AMPERES)	34.6	35.8	37.0	38.1
<b>100</b>	CAPACITY (BTU/HR)	68,209	77,833	88,467	100,189
	FLOW RATE (LB/HR)	1184	1356	1547	1758
	POWER (KW)	10.92	11.62	12.32	13.01
	EER (BTU/WATT HR)	6.24	6.70	7.18	7.70
	CURRENT (AMPERES)	35.4	36.7	38.0	39.3
<b>110</b>	CAPACITY (BTU/HR)	61,132	69,845	79,467	90,076
	FLOW RATE (LB/HR)	1141	1308	1494	1700
	POWER (KW)	11.30	12.07	12.84	13.61
	EER (BTU/WATT HR)	5.41	5.79	6.19	6.62
	CURRENT (AMPERES)	36.1	37.6	39.0	40.5
<b>120</b>	CAPACITY (BTU/HR)	54,153	61,945	70,545	80,029
	FLOW RATE (LB/HR)	1096	1259	1440	1640
	POWER (KW)	11.63	12.47	13.32	14.17
	EER (BTU/WATT HR)	4.65	4.97	5.30	5.65
	CURRENT (AMPERES)	36.8	38.3	39.9	41.5
<b>130</b>	CAPACITY (BTU/HR)	47,280	54,141	61,708	70,058
	FLOW RATE (LB/HR)	1051	1209	1384	1578
	POWER (KW)	11.92	12.82	13.74	14.67
	EER (BTU/WATT HR)	3.97	4.22	4.49	4.78
	CURRENT (AMPERES)	37.3	39.0	40.7	42.5

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

Specification Sheet # SSAZ50HP62-13

**Model 06DR541 R-507/404A Medium Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas                      Horsepower      15.0  
 0 Deg. Subcooling                      Displacement    41.0  
 Amps @ 230-3-60                      (CFM @ 60 Hz)  
    @ 460 Volts Multiply by .5  
    @ 575 Volts Multiply by .4

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		0	5	10	15	20
<b>70</b>	CAPACITY (BTU/HR)	130,843	147,312	165,329	184,973	206,320
	FLOW RATE (LB/HR)	1919	2170	2446	2749	3080
	POWER (KW)	10.89	11.29	11.67	12.00	12.29
	EER (BTU/WATT HR)	12.02	13.04	14.17	15.41	16.78
	CURRENT (AMPERES)	35.4	36.1	36.8	37.4	38.0
<b>80</b>	CAPACITY (BTU/HR)	120,580	135,866	152,599	170,856	190,715
	FLOW RATE (LB/HR)	1867	2113	2384	2682	3008
	POWER (KW)	11.65	12.14	12.62	13.06	13.46
	EER (BTU/WATT HR)	10.35	11.19	12.09	13.08	14.17
	CURRENT (AMPERES)	36.8	37.7	38.6	39.4	40.2
<b>90</b>	CAPACITY (BTU/HR)	110,360	124,452	139,889	156,749	175,109
	FLOW RATE (LB/HR)	1812	2054	2320	2612	2933
	POWER (KW)	12.35	12.94	13.51	14.06	14.57
	EER (BTU/WATT HR)	8.93	9.61	10.35	11.15	12.02
	CURRENT (AMPERES)	38.1	39.2	40.3	41.3	42.3
<b>100</b>	CAPACITY (BTU/HR)	100,189	113,076	127,207	142,660	159,512
	FLOW RATE (LB/HR)	1758	1994	2255	2543	2859
	POWER (KW)	13.01	13.69	14.35	15.00	15.62
	EER (BTU/WATT HR)	7.70	8.26	8.86	9.51	10.21
	CURRENT (AMPERES)	39.3	40.6	41.9	43.1	44.3
<b>110</b>	CAPACITY (BTU/HR)	90,076	101,748	114,563	128,598	143,930
	FLOW RATE (LB/HR)	1700	1931	2186	2468	2779
	POWER (KW)	13.61	14.38	15.14	15.88	16.61
	EER (BTU/WATT HR)	6.62	7.07	7.57	8.10	8.67
	CURRENT (AMPERES)	40.5	41.9	43.3	44.8	46.2
<b>120</b>	CAPACITY (BTU/HR)	80,029	90,477	101,964	114,570	128,372
	FLOW RATE (LB/HR)	1640	1865	2115	2392	2697
	POWER (KW)	14.17	15.02	15.87	16.71	17.53
	EER (BTU/WATT HR)	5.65	6.02	6.43	6.86	7.32
	CURRENT (AMPERES)	41.5	43.1	44.7	46.4	48.0
<b>130</b>	CAPACITY (BTU/HR)	70,058	79,269	89,419	100,586	112,847
	FLOW RATE (LB/HR)	1578	1797	2042	2312	2612
	POWER (KW)	14.67	15.60	16.54	17.47	18.40
	EER (BTU/WATT HR)	4.78	5.08	5.41	5.76	6.13
	CURRENT (AMPERES)	42.5	44.3	46.1	47.9	49.7

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

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**Model 06DR541 R-507/404A Medium Temperature**

Rating Date: 6/2002

**Rating Conditions:**

65 Deg. Return Gas	Horsepower	15.0
0 Deg. Subcooling	Displacement	41.0
Amps @ 230-3-60	(CFM @ 60 Hz)	
@ 460 Volts Multiply by .5		
@ 575 Volts Multiply by .4		

**SATURATED SUCTION TEMPERATURE (F)**

S.C.T. (F)		25	30	35	40
<b>70</b>	CAPACITY (BTU/HR)	229,448	254,436		
	FLOW RATE (LB/HR)	3446	3844		
	POWER (KW)	12.54	12.73		
	EER (BTU/WATT HR)	18.30	19.98		
	CURRENT (AMPERES)	38.5	38.9		
<b>80</b>	CAPACITY (BTU/HR)	212,254	235,551		
	FLOW RATE (LB/HR)	3369	3763		
	POWER (KW)	13.82	14.14		
	EER (BTU/WATT HR)	15.35	16.66		
	CURRENT (AMPERES)	40.9	41.6		
<b>90</b>	CAPACITY (BTU/HR)	195,049	216,644		
	FLOW RATE (LB/HR)	3289	3678		
	POWER (KW)	15.05	15.48		
	EER (BTU/WATT HR)	12.96	13.99		
	CURRENT (AMPERES)	43.2	44.1		
<b>100</b>	CAPACITY (BTU/HR)	177,840	197,723		
	FLOW RATE (LB/HR)	3210	3595		
	POWER (KW)	16.21	16.76		
	EER (BTU/WATT HR)	10.97	11.80		
	CURRENT (AMPERES)	45.4	46.6		
<b>110</b>	CAPACITY (BTU/HR)	160,637	178,797		
	FLOW RATE (LB/HR)	3125	3506		
	POWER (KW)	17.30	17.97		
	EER (BTU/WATT HR)	9.28	9.95		
	CURRENT (AMPERES)	47.6	48.9		
<b>120</b>	CAPACITY (BTU/HR)	143,447	159,874		
	FLOW RATE (LB/HR)	3039	3416		
	POWER (KW)	18.34	19.12		
	EER (BTU/WATT HR)	7.82	8.36		
	CURRENT (AMPERES)	49.6	51.2		
<b>130</b>	CAPACITY (BTU/HR)	126,280	140,963		
	FLOW RATE (LB/HR)	2950	3325		
	POWER (KW)	19.31	20.21		
	EER (BTU/WATT HR)	6.54	6.98		
	CURRENT (AMPERES)	51.6	53.4		

Nominal Performance Values +/- 5 % (minimum 72 hours run in)

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