Specification

Compression Type	Scroll Compressor	Refrigerant	R410A
Speed	Fixed	Power Source	208-230V / 60Hz
Application1	Air conditioning - Unitary	Application2	
Application3		Application4	
Application5			

Performance

Capacity[BTU/HR]	30,300	Input [Watts]	2942
EER[BTU/W.HR]	10.30	Noise [dB]	72
Vibration [um]	30	RPM	

Mechanical

Displacement [cm3 / rev]	29.55	Weight [kg]	23 kg
Compressor Cooling			

Electrical

Starting Capacitor [MFD/VAC]		Running Current	
Protection Type	Internal OLP	Max Continuous Current [A]	13.2
Lock Rotor Ampere [A]	70	Running Capacitor [MFD/VAC]	N/A
Rated Revolution		Max Continuous Ampere	
Max Operation Current		OLP	
Capacitor		Motor Type	
Starting Torque			

Test Condition	ARI		
Evaporating Temperature[°C]		Condensing Temperature[°C]	
Subcooled Temperature[°C]		Superheated Temperature[°C]	
Ambient Temperaturee[°C]			°

Standard	UL		

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Performance

RATING CONDITIONS

20 °F Superheat | 15 °F Sub Cooling
95 °F Ambient Air Over | 60 Hz Operation

RATED PERFORMANCE
SCROLL COMPRESSOR | **APG031RA** | R410A

CAPACITY (BTU/HR)

Condensing Temperature		Evaporating Temperature °F (°C)									
		-10	-5	0	10	20	30	40	45	50	55
°F	(°C)	(-23)	(-20.5)	(-17.7)	(-12.2)	(-6.7)	(-1.1)	(4.4)	(7.2)	(10.0)	(12.8)
80	(26.7)	11,794	13,800	15,800	20,300	25,300	31,200	38,300	42,300	46,600	51,400
90	(32.2)	10,300	12,300	14,300	18,700	23,700	29,400	36,200	40,000	44,200	48,800
100	(37.8)	8,700	10,700	12,700	17,100	21,900	27,500	34,000	37,700	41,800	46,200
110	(43.3)			11,000	15,300	20,000	25,400	31,800	35,300	39,200	43,400
120	(48.9)				13,400	18,100	23,300	29,400	32,900	36,600	40,700
130	(54.4)					16,000	21,100	27,000	30,300	33,900	37,800
140	(60.0)						18,700	24,400	27,600	31,100	34,800
150	(65.6)							21,800	24,900	28,200	31,800

EER (BTU/WATT-HR)

Condensing Temperature		Evaporating Temperature °F (°C)									
		-10	-5	0	10	20	30	40	45	50	55
°F	(°C)	(-23)	(-20.5)	(-17.7)	(-12.2)	(-6.7)	(-1.1)	(4.4)	(7.2)	(10.0)	(12.8)
80	(26.7)	7.6	8.7	9.9	12.8	16.2	20.7	26.2	29.4	32.8	36.5
90	(32.2)	5.7	6.8	7.8	10.3	13.2	16.8	21.2	23.7	26.3	29.2
100	(37.8)	4.2	5.1	6.0	8.2	10.6	13.6	17.2	19.2	21.4	23.7
110	(43.3)			4.5	6.4	8.5	10.9	14.0	15.6	17.4	19.4
120	(48.9)				4.9	6.7	8.8	11.3	12.8	14.2	15.9
130	(54.4)					5.1	7.0	9.1	10.3	11.6	13.0
140	(60.0)						5.4	7.2	8.3	9.4	10.6
150	(65.6)							5.7	6.6	7.5	8.5

POWER (WATTS)

Condensing Temperature		Evaporating Temperature °F (°C)									
		-10	-5	0	10	20	30	40	45	50	55
°F	(°C)	(-23)	(-20.5)	(-17.7)	(-12.2)	(-6.7)	(-1.1)	(4.4)	(7.2)	(10.0)	(12.8)
80	(26.7)	1,560	1,590	1,590	1,590	1,560	1,510	1,460	1,440	1,420	1,410
90	(32.2)	1,800	1,820	1,830	1,820	1,790	1,750	1,710	1,690	1,680	1,670
100	(37.8)	2,070	2,090	2,100	2,090	2,060	2,020	1,980	1,960	1,950	1,950
110	(43.3)			2,420	2,400	2,360	2,320	2,270	2,260	2,250	2,240
120	(48.9)				2,760	2,710	2,650	2,600	2,580	2,570	2,560
130	(54.4)					3,110	3,030	2,970	2,940	2,920	2,910
140	(60.0)						3,460	3,380	3,340	3,310	3,290
150	(65.6)							3,840	3,790	3,750	3,720

CURRENT (AMPS) @ 230 VOLTS

Condensing Temperature		Evaporating Temperature °F (°C)									
		-10	-5	0	10	20	30	40	45	50	55
°F	(°C)	(-23)	(-20.5)	(-17.7)	(-12.2)	(-6.7)	(-1.1)	(4.4)	(7.2)	(10.0)	(12.8)
80	(26.7)	5.8	5.9	6.0	5.9	5.9	5.8	5.7	5.7	5.7	5.7
90	(32.2)	6.2	6.3	6.4	6.4	6.3	6.2	6.1	6.1	6.1	6.2
100	(37.8)	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.6	6.6
110	(43.3)			7.4	7.4	7.3	7.2	7.1	7.1	7.1	7.1
120	(48.9)				8.1	8.0	7.9	7.7	7.7	7.7	7.7
130	(54.4)					8.8	8.6	8.5	8.4	8.4	8.4
140	(60.0)						9.6	9.4	9.3	9.2	9.2
150	(65.6)							10.5	10.4	10.3	10.2

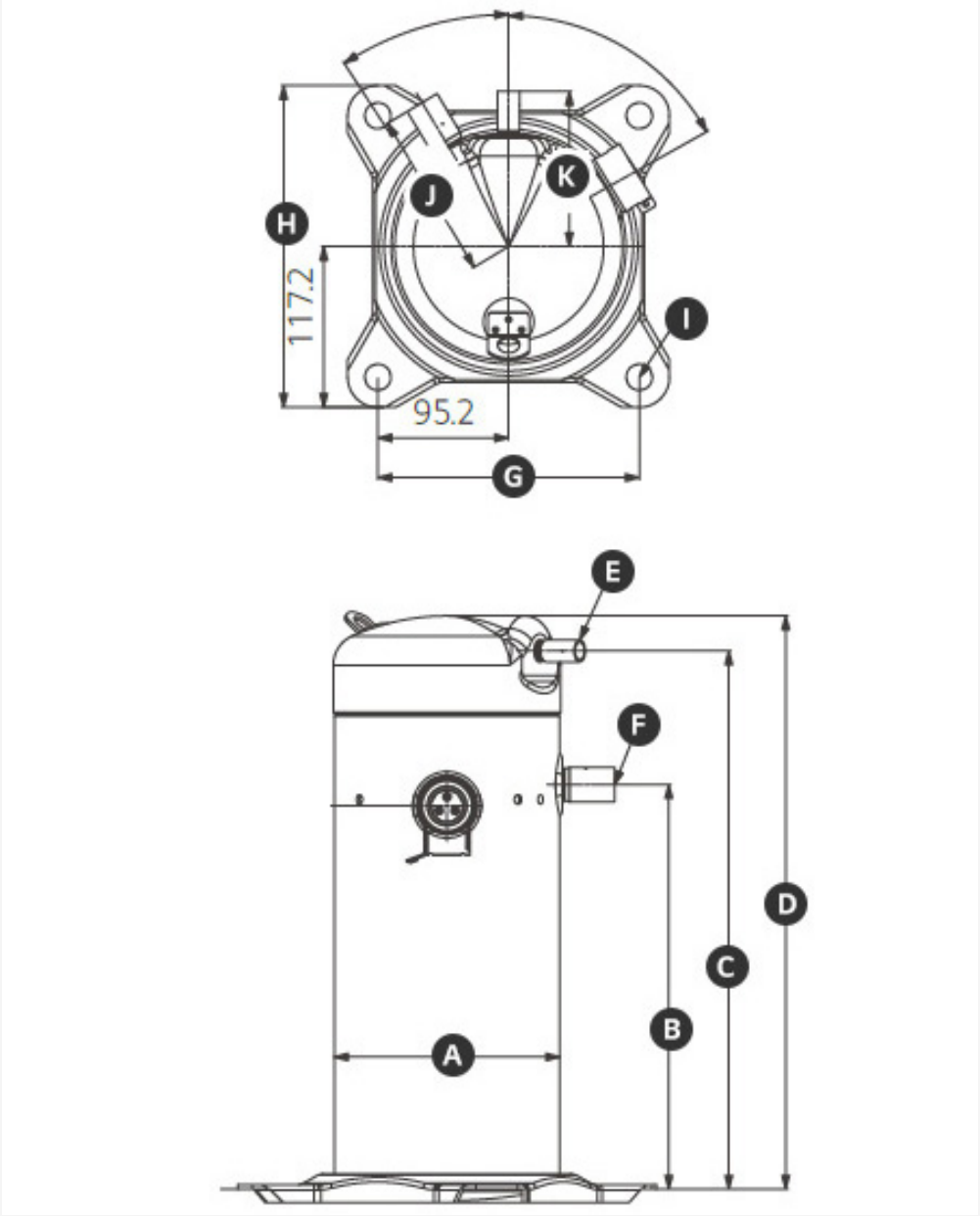
MASS FLOW (LBS/HR)

Condensing Temperature		Evaporating Temperature °F (°C)									
		-10	-5	0	10	20	30	40	45	50	55
°F	(°C)	(-23)	(-20.5)	(-17.7)	(-12.2)	(-6.7)	(-1.1)	(4.4)	(7.2)	(10.0)	(12.8)
80	(26.7)	141.0	160.0	190.0	240.0	290.0	360.0	430.0	480.0	520.0	570.0
90	(32.2)	130.0	150.0	180.0	230.0	290.0	350.0	430.0	470.0	520.0	570.0
100	(37.8)	120.0	140.0	170.0	220.0	280.0	350.0	420.0	470.0	510.0	560.0
110	(43.3)			150.0	210.0	270.0	340.0	420.0	460.0	510.0	560.0
120	(48.9)				190.0	260.0	330.0	410.0	450.0	500.0	550.0
130	(54.4)					240.0	320.0	400.0	450.0	500.0	550.0
140	(60.0)						300.0	390.0	440.0	490.0	540.0
150	(65.6)							380.0	430.0	480.0	540.0

Nominal Performance Values (±5%) based on minimum 72 hours run-in. Subject to change without notice.

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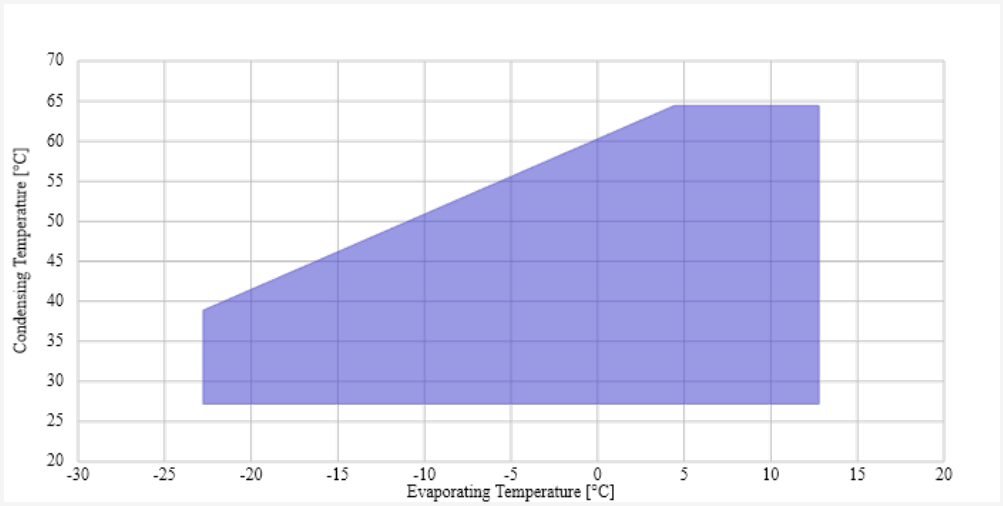
Drawing



A(ø)	144.2
B(mm)	263
C(mm)	362
D(mm)	385
E(I.D ø)	12.7-12.9
F(I.D ø)	19.1-19.3
G(mm)	190.5
H(mm)	234.5
I(ø)	19

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Operation Envelop



R410A

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