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]	23,500	Input [Watts]	2305
EER[BTU/W.HR]	10.20	Noise [dB]	71
Vibration [um]	30	RPM	

Mechanical

Displacement [cm3 / rev]	23	Weight [kg]	23.1 kg
Compressor Cooling			

Electrical

Starting Capacitor [MFD/VAC]		Running Current	
Protection Type	Internal OLP	Max Continuous Current [A]	17
Lock Rotor Ampere [A]	63	Running Capacitor [MFD/VAC]	40/370
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 | **APG024KA** | 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)	9,388	10,700	12,200	15,700	19,700	24,500	30,000	33,000	36,200	39,700
90	(32.2)	8,800	10,100	11,600	14,900	18,700	23,300	28,600	31,500	34,600	37,900
100	(37.8)	8,000	9,300	10,600	13,800	17,500	21,900	26,900	29,700	32,700	35,900
110	(43.3)			9,500	12,500	16,100	20,200	25,100	27,700	30,595	33,600
115	(48.9)				11,900	15,300	19,400	24,100	26,700	29,500	32,500
130	(54.4)					13,100	16,800	21,200	23,600	26,200	29,000
140	(60.0)						15,200	19,300	21,600	24,000	26,700
150	(65.6)							17,500	19,700	22,000	24,500

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)	7.2	8.2	9.3	12.1	15.5	19.9	25.2	28.0	30.9	34.2
90	(32.2)	6.0	6.9	7.8	10.1	13.0	16.6	21.0	23.5	26.0	28.7
100	(37.8)	4.8	5.6	6.3	8.3	10.7	13.8	17.4	19.3	21.5	23.8
110	(43.3)			5.1	6.6	8.7	11.1	14.1	15.7	17.6	19.5
115	(48.9)				6.0	7.7	10.0	12.7	14.2	15.9	17.7
130	(54.4)					5.4	7.1	9.1	10.3	11.5	12.8
140	(60.0)						5.6	7.3	8.2	9.2	10.3
150	(65.6)							5.7	6.5	7.3	8.2

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)	1,300	1,310	1,310	1,300	1,270	1,230	1,190	1,180	1,170	1,160
90	(32.2)	1,460	1,470	1,480	1,470	1,440	1,400	1,360	1,340	1,330	1,320
100	(37.8)	1,650	1,660	1,670	1,660	1,630	1,590	1,550	1,540	1,520	1,510
110	(43.3)			1,880	1,880	1,850	1,820	1,780	1,760	1,738	1,720
115	(48.9)				2,000	1,980	1,940	1,900	1,880	1,860	1,840
130	(54.4)					2,410	2,370	2,330	2,300	2,280	2,270
140	(60.0)						2,710	2,660	2,640	2,620	2,600
150	(65.6)							3,050	3,030	3,000	2,980

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)	6.1	6.0	6.0	5.8	5.5	5.2	5.1	5.1	5.2	5.3
90	(32.2)	6.3	6.3	6.3	6.2	6.0	5.9	5.8	5.8	5.9	6.0
100	(37.8)	6.9	7.0	7.1	7.0	6.9	6.8	6.7	6.7	6.7	6.8
110	(43.3)			8.1	8.1	8.0	7.8	7.7	7.7	7.7	7.8
115	(48.9)				8.7	8.6	8.4	8.3	8.3	8.3	8.3
130	(54.4)					10.7	10.4	10.2	10.0	9.9	9.9
140	(60.0)						11.9	11.4	11.3	11.1	10.9
150	(65.6)							12.7	12.4	12.2	11.9

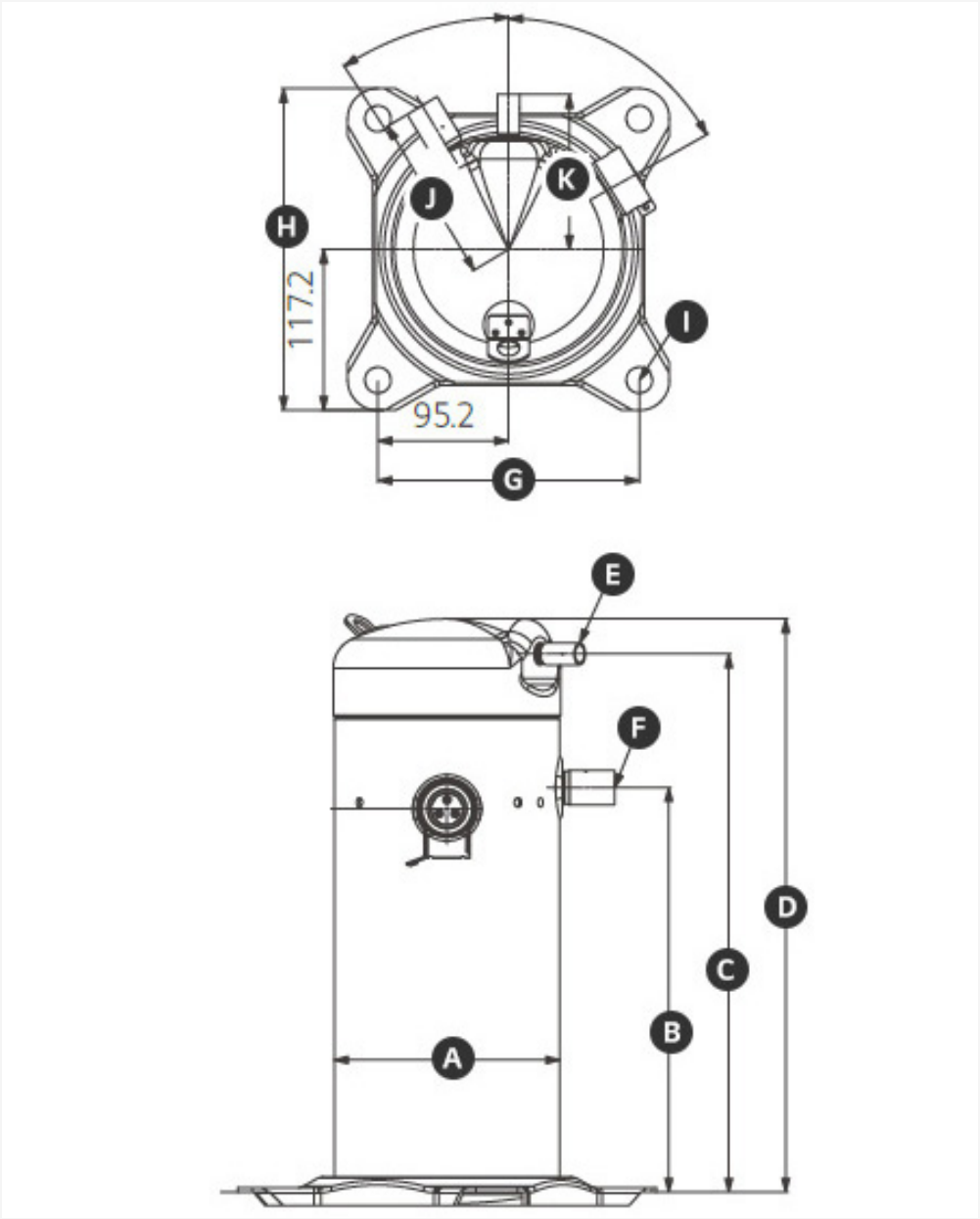
MASS FLOW (LBS/HR)

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)	112.0	130.0	140.0	180.0	230.0	280.0	340.0	370.0	410.0	440.0
90	(32.2)	110.0	130.0	140.0	180.0	230.0	280.0	340.0	370.0	400.0	440.0
100	(37.8)	110.0	120.0	140.0	180.0	220.0	270.0	330.0	370.0	400.0	440.0
110	(43.3)			130.0	170.0	220.0	270.0	330.0	360.0	400.0	430.0
115	(48.9)				170.0	210.0	260.0	320.0	360.0	390.0	430.0
130	(54.4)					200.0	250.0	310.0	350.0	380.0	420.0
140	(60.0)						240.0	300.0	340.0	370.0	410.0
150	(65.6)							300.0	330.0	370.0	410.0

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

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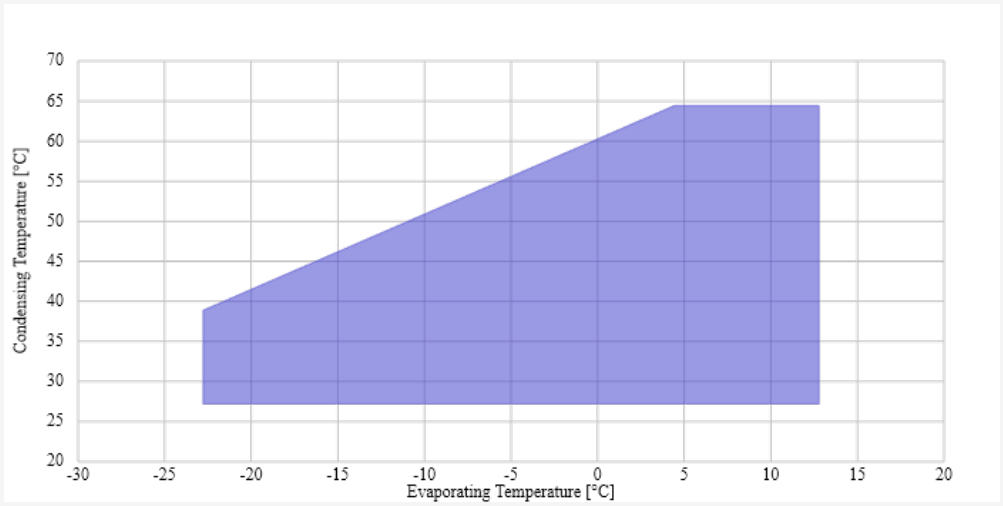
Drawing



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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