



SCROLL COMPRESSOR

COMPRESSOR TECHNOLOGY
FOR HVAC & LIGHT COMMERCIAL
APPLICATIONS

GLOBAL NETWORK

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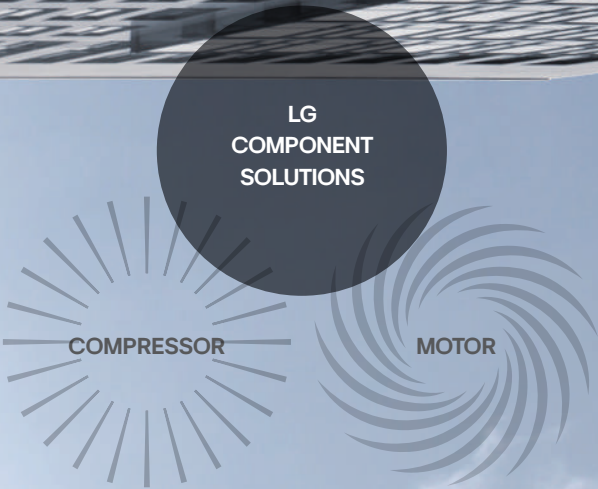
Website <https://www.lg.com/global/business/compressor-motor>

For continual product development, LG reserves the right to change specifications without notice.
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Revolutionary energy technologies of the future

LG COMPONENT SOLUTIONS



Innovation doesn't happen overnight. Ever since we built our very first fan motors in 1962, LG Compressor & Motor has been improving the lives of consumers and businesses alike. For over 60 years, we have been innovating products such as linear compressors, DD motors, scroll compressors, and R1™ compressors.

As a business division under LG Electronics, LG Compressor & Motor offers excellent performance and energy efficiency for appliances in refrigeration, air conditioning, and mobility, with sustainable component solutions that meet the latest regulations and standards.

However, we don't just stop there. We have introduced these technologies by manufacturing products built on our decades of technological advancements. That way our customers - manufacturers and product installers - can make a positive difference in the lives of their customers - the end users.

By transitioning to low GWP refrigerants and launching high-efficiency products for our LG Compressor & Motor component solutions, we're able to satisfy more diverse customer needs and pave the way towards an energy future that is more sustainable.

Tailored Solutions Based on a Global Network

Headquartered in South Korea, LG Component Solutions operates production facilities and sales offices in 13 cities and 6 countries around the globe. These various locations fully support our customers in over 50 countries.

LG Component Solutions aims to grow side-by-side with our customers’ businesses through ongoing technical consulting for product development, performance and quality optimization for real-world conditions. Those practices, along with a flexible supply chain that enables timely supply, is fueling our commitment to be a trusted partner in the industry.



 PRODUCTION SITE	 SALES OFFICE SITE
Korea	Changwon
China	Taizhou
	Tianjin
	Nanjing
	Qinhuangdao
India	Noida
Thailand	Rayong
Mexico	Monterrey
	USA
	Atlanta, Dallas
	India
	Delhi
	Thailand
	Rayong
	China
	Qinhuangdao, Tianjin,
	Taizhou, Shunde
	Korea
	Seoul, Changwon



Technical Support



Real-world Quality



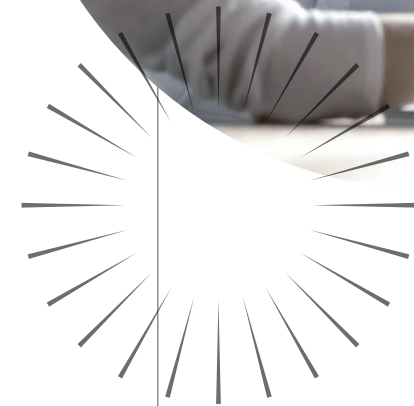
Flexible Supply Chain



Long-term Partnership

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LG Scroll Compressor

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WHY LG SCROLL COMPRESSOR?

LG offers an extensive selection of scroll compressors for fixed speed, two-stage modulating, and variable speed with an optimized inverter driver to fully support various applications.



Fixed Speed Compressor - The next generation

With a focus on reliability and performance, LG designed Gen 3 scroll compressors with significant improvements to motor efficiency and friction reduction to bring the future to the present.

Two-stage Modulating

LG Two-stage modulating compressors are built under precise quality standards and exacting durability requirements for the global marketplace. By operating at 2 capacities, the LG Two-stage scroll compressor can function in savings mode in moderate environments and in power mode in high demand situations. By modulating between two-stages, it runs longer and more efficiently than its single stage counterpart.

R1™ Compressor

Featuring a groundbreaking design that combines the technology of a conventional scroll and rotary compressor, the R1™ Compressor delivers enhanced heating performance. With the motor positioned at the top of the unit and the scroll at the center, the R1's simplified structure leads to significant efficiency improvement and sound reduction.



PRODUCT PLATFORM

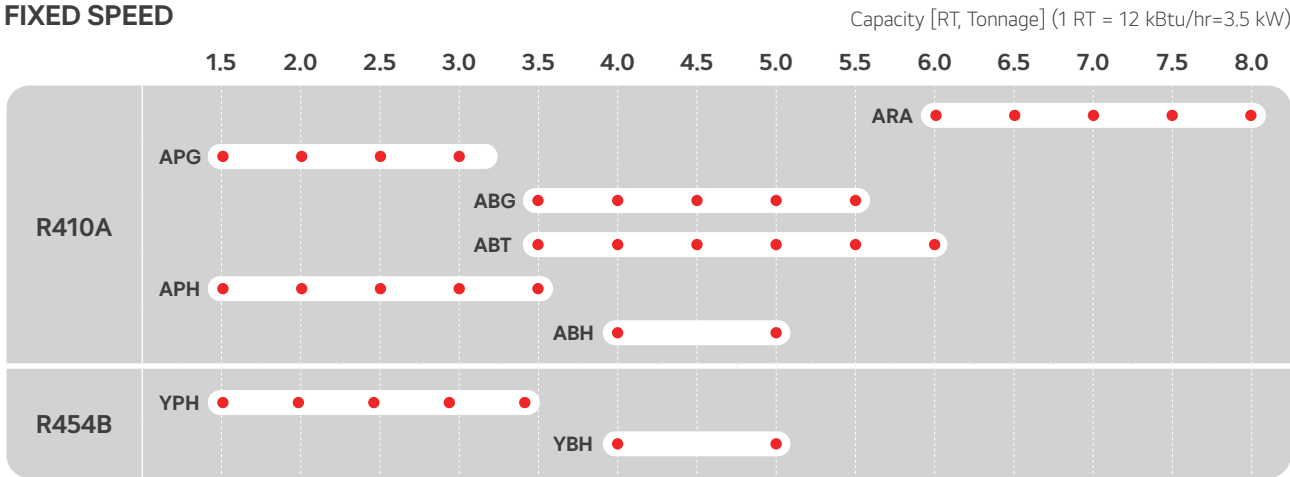
Fixed Speed			
Model			
	Residential	Commercial	Refrigeration
Capacity Range	1.5 - 5 Ton	6 - 27 Ton	1.5 - 5 Ton
Application	15+ SEER Air Conditioning and Heatpump	Commercial Air Conditioning and Heatpump	Medium temperature Low temperature
Feature	- Improved suction path smooth re-start Low GWP refrigerant	- Internal bypass valve system - Apply reliable oil	- Internal bypass valve system - Optimized deep vacuum protector - Apply reliable oil

Modulation		Variable Speed	
Model			
	Two-stage	R1™	High Side Shell
Capacity Range	1.5 - 5 Ton	2 - 5 Ton	1 - 21 Ton
Application	15-16 SEER Air Conditioning and Heatpump (including commercial)	28+ SEER Air Conditioning and Heatpump	VRF system
Feature	- Internal bypass valve system - Improved part-load and full load performance - Apply reliable oil	- Internal bypass valve system - Apply reliable oil	- Internal bypass valve system - Optimized deep vacuum protector - Apply reliable oil

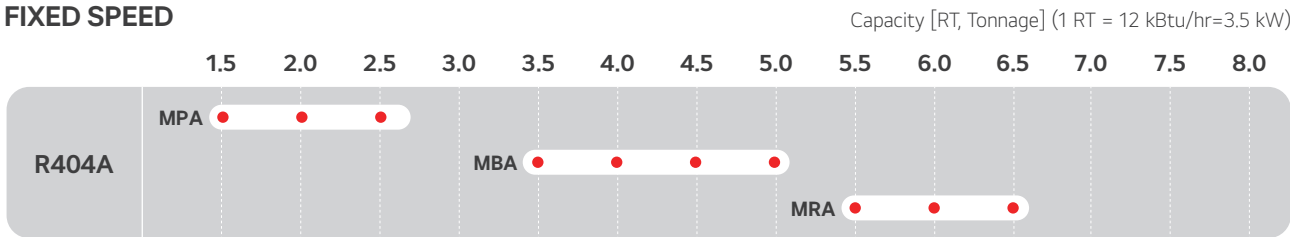


PRODUCT RANGE

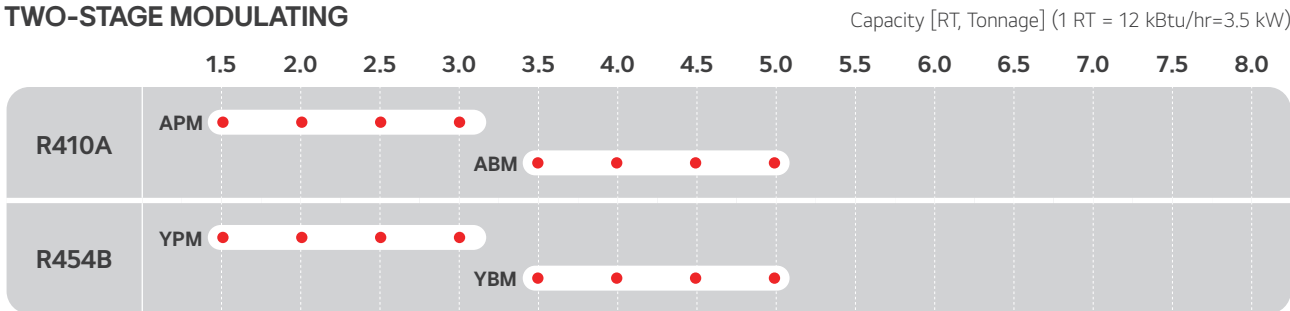
FIXED SPEED



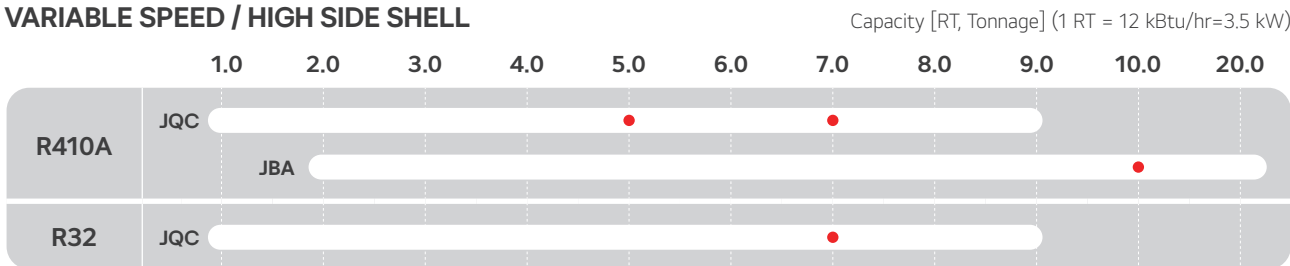
FIXED SPEED



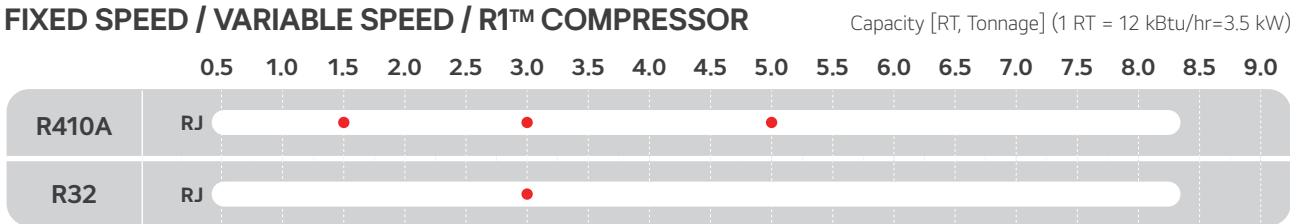
TWO-STAGE MODULATING



VARIABLE SPEED / HIGH SIDE SHELL



FIXED SPEED / VARIABLE SPEED / R1™ COMPRESSOR



NOMENCLATURE

Y P H 029 K A A

REFRIGERANT & TYPE

Code	Refrigerant	Type
A	R410A	LSS
J	R410A	HSS
M	MULTI*	LSS
S	R22	LSS
T	R32	LSS
Y	R454B	LSS
YR	R454B	R1™ Compressor
R	R410A	R1™ Compressor
PR	R290	R1™ Compressor
PJ	R290	HSS

* R404A, R507, R407A, R407C, R448A, R449A

COMPRESSOR SIZE (MM)

P : Ø139 R : Ø179
Q : Ø147 G : Ø224
B : Ø160

GENERATION CODE

(A-Z)

CAPACITY

(Btu/Hr x 1,000) @ 60 Hz

EXTERIOR SPECIFICATION

(A-Z)

MOTOR SPECIFICATION

(A-Z)

MOTOR CODE

Code	Power source			Motor
	Phase (Ø)	Voltage	Hz	
K	1	208 - 230	60	Fixed Speed
P	1	220 - 240	50	Fixed Speed
R	3	208 - 230	60	Fixed Speed
S	3	460	60	Fixed Speed
T	3	575	60	Fixed Speed
U	3	380	60	Fixed Speed
W	3	460	60	Fixed Speed
		380 - 420	50	Fixed Speed
Y	3	380 - 420	50	Fixed Speed
D	Inverter			Variable Speed
M				
Q	1	265	60	Fixed Speed



SPECIFICATION

Fixed Speed R410A [1 of 2]

Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition	
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	
LSS	60 Hz	3Ø, 208 - 230 V	APG	APG029RA	35,200	10,316	2,220	15.86	4.65	46.1 / 10.0	
				APG031RA	37,800	11,078	2,400	15.75	4.62	46.1 / 10.0	
			ABG	ABG034RA	42,900	12,573	2,640	16.25	4.76	46.1 / 10.0	
				ABG036RA	44,400	13,005	2,790	15.91	4.66	46.1 / 10.0	
				ABG038RA	47,000	13,767	2,920	16.10	4.71	46.1 / 10.0	
				ABG039RA	48,400	14,177	3,000	16.13	4.73	46.1 / 10.0	
				ABG042RA	51,700	15,144	3,210	16.11	4.72	46.1 / 10.0	
				ABG049RA	61,200	17,926	3,760	16.28	4.77	46.1 / 10.0	
		3Ø, 575 V	APG	ABG054RA	66,900	19,596	4,120	16.24	4.76	46.1 / 10.0	
				APG029TA	35,200	10,316	2,210	15.93	4.67	46.1 / 10.0	
			ABG	APG031TA	37,700	11,049	2,380	15.84	4.64	46.1 / 10.0	
				ABG039TA	48,400	14,177	3,000	16.13	4.73	46.1 / 10.0	
				ABG042TA	51,700	15,144	3,210	16.11	4.72	46.1 / 10.0	
				ABG049TA	61,200	17,926	3,770	16.23	4.75	46.1 / 10.0	
				ABG051TA	63,000	18,453	3,890	16.20	4.74	46.1 / 10.0	
				ABG054TA	66,900	19,596	4,150	16.12	4.72	46.1 / 10.0	
	50 / 60 Hz	3Ø, 380 / 420 V, 50 Hz	APG	APG029WA	28,600	8,382	1,860	15.38	4.51	46.1 / 10.0	
				APG029WA	35,200	10,316	2,220	15.86	4.65	46.1 / 10.0	
				APG031WA	30,700	8,998	1,990	15.43	4.52	46.1 / 10.0	
				APG031WA	37,600	11,019	2,370	15.86	4.65	46.1 / 10.0	
			ABG	ABG039WA	40,200	11,775	2,510	16.02	4.69	46.1 / 10.0	
				ABG039WA	48,400	14,177	3,000	16.13	4.73	46.1 / 10.0	
				ABG042WA	42,900	12,566	2,670	16.07	4.71	46.1 / 10.0	
				ABG042WA	51,700	15,144	3,210	16.11	4.72	46.1 / 10.0	
		ABG049WA		50,300	14,733	3,170	15.87	4.65	46.1 / 10.0		
		ABG049WA		61,100	17,897	3,760	16.25	4.76	46.1 / 10.0		
		ABG054WA		55,200	16,169	3,430	16.09	4.71	46.1 / 10.0		
		ABG054WA		66,900	19,596	4,120	16.24	4.76	46.1 / 10.0		
		60 Hz	1Ø, 208 - 230 V	APH	APH014KA	18,300	5,362	1,160	15.78	4.62	46.1 / 10.0
					APH020KA	24,900	7,296	1,513	16.46	4.82	46.1 / 10.0
					APH021KA	26,500	7,765	1,615	16.41	4.81	46.1 / 10.0
					APH024KA	29,700	8,702	1,790	16.59	4.86	46.1 / 10.0
	APH025KA				31,500	9,230	1,895	16.62	4.87	46.1 / 10.0	
	APH029KA				36,000	10,548	2,185	16.48	4.83	46.1 / 10.0	
	APH031KA				39,000	11,427	2,318	16.82	4.93	46.1 / 10.0	
	APH034KA				43,000	12,599	2,595	16.57	4.86	46.1 / 10.0	
	ABH			APH036KA	44,400	13,009	2,670	16.63	4.87	46.1 / 10.0	
				ABH039KA	48,500	14,211	2,920	16.61	4.87	46.1 / 10.0	
				ABH042KA	52,100	15,265	3,120	16.70	4.89	46.1 / 10.0	
				ABH049KA	61,300	17,961	3,670	16.70	4.89	46.1 / 10.0	
				ABH051KA	63,600	18,635	3,800	16.74	4.90	46.1 / 10.0	
	3Ø, 208 - 230 V		APH	APH025RA	31,100	9,112	1,981	15.70	4.60	46.1 / 10.0	
			ABH	ABH051RA	63,600	18,635	3,800	16.74	4.90	46.1 / 10.0	
	50 Hz		3Ø, 380 / 420 V	ABH	ABH051WA	51,900	15,207	3,250	15.97	4.68	46.1 / 10.0
	ABH051WA	63,600	18,635		3,800	16.74	4.90	46.1 / 10.0			
	60 Hz	3Ø, 460 V	ABH	ABH051WA	51,900	15,207	3,250	15.97	4.68	46.1 / 10.0	
				ABH051WA	63,600	18,635	3,800	16.74	4.90	46.1 / 10.0	

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Cooling Capacity		Input	EER	COP	Test Condition	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	A	B	C
39,000	11,430	1,822	21.41	6.27	37.8 / 10.0	385	363	263
41,700	12,221	1,949	21.40	6.27	37.8 / 10.0	385	363	263
47,500	13,921	2,174	21.85	6.40	37.8 / 10.0	419	394	295
49,400	14,477	2,298	21.50	6.30	37.8 / 10.0	419	394	295
51,600	15,112	2,370	21.77	6.38	37.8 / 10.0	419	394	295
53,000	15,532	2,431	21.80	6.39	37.8 / 10.0	419	394	295
57,100	16,723	2,631	21.70	6.36	37.8 / 10.0	419	394	295
67,400	19,740	3,092	21.80	6.38	37.8 / 10.0	419	394	295
74,500	21,833	3,304	22.55	6.61	37.8 / 10.0	419	394	295
39,000	11,430	1,806	21.59	6.33	37.8 / 10.0	385	363	263
41,700	12,221	1,926	21.65	6.35	37.8 / 10.0	385	363	263
53,000	15,532	2,431	21.80	6.39	37.8 / 10.0	419	394	295
57,100	16,723	2,619	21.80	6.39	37.8 / 10.0	419	394	295
67,400	19,740	3,092	21.80	6.38	37.8 / 10.0	419	394	295
69,500	20,355	3,188	21.80	6.38	37.8 / 10.0	419	394	295
74,000	21,700	3,410	21.70	6.36	37.8 / 10.0	419	394	295
32,000	9,378	1,488	21.51	6.30	37.8 / 10.0	385	363	263
39,100	11,459	1,802	21.70	6.36	37.8 / 10.0	385	363	263
34,400	10,082	1,585	21.70	6.36	37.8 / 10.0	385	363	263
41,600	12,192	1,917	21.70	6.36	37.8 / 10.0	385	363	263
43,600	12,767	2,000	21.80	6.38	37.8 / 10.0	419	394	295
53,000	15,532	2,431	21.80	6.39	37.8 / 10.0	419	394	295
47,600	13,941	2,183	21.80	6.39	37.8 / 10.0	419	394	295
57,100	16,723	2,619	21.80	6.39	37.8 / 10.0	419	394	295
55,800	16,342	2,560	21.80	6.38	37.8 / 10.0	419	394	295
67,400	19,736	3,092	21.80	6.38	37.8 / 10.0	419	394	295
61,000	17,862	2,824	21.60	6.33	37.8 / 10.0	419	394	295
74,000	21,669	3,410	21.70	6.35	37.8 / 10.0	419	394	295
20,000	5,860	919	21.76	6.38	37.8 / 10.0	385	363	263
27,400	8,028	1,220	22.46	6.58	37.8 / 10.0	385	363	263
29,400	8,614	1,309	22.46	6.58	37.8 / 10.0	385	363	263
32,700	9,581	1,443	22.66	6.64	37.8 / 10.0	385	363	263
34,900	10,226	1,534	22.75	6.67	37.8 / 10.0	385	363	263
39,600	11,603	1,747	22.67	6.64	37.8 / 10.0	385	363	263
42,500	12,453	1,867	22.76	6.67	37.8 / 10.0	385	363	263
47,300	13,859	2,134	22.16	6.49	37.8 / 10.0	385	363	263
49,300	14,445	2,204	22.37	6.55	37.8 / 10.0	385	363	263
53,200	15,588	2,356	22.58	6.62	37.8 / 10.0	419	394	295
57,600	16,877	2,542	22.66	6.64	37.8 / 10.0	419	394	295
67,500	19,778	2,978	22.67	6.64	37.8 / 10.0	419	394	295
69,800	20,451	3,080	22.66	6.64	37.8 / 10.0	419	394	295
34,300	10,050	1,981	17.31	5.07	37.8 / 10.0	385	363	263
69,800	20,451	3,080	22.66	6.64	37.8 / 10.0	419	394	295
57,600	16,877	2,600	22.15	6.49	37.8 / 10.0	419	394	295
69,800	20,451	3,080	22.66	6.64	37.8 / 10.0	419	394	295
57,600	16,877	2,600	22.15	6.49	37.8 / 10.0	419	394	295
69,800	20,451	3,080	22.66	6.64	37.8 / 10.0	419	394	295

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
LSS	50 Hz	1Ø, 220 / 240 V	ABT	ABT034PT	28,000	8,201	2,888	9.70	2.84	54.4 / 7.2
				ABT038PT	30,700	8,998	3,010	10.20	2.99	54.4 / 7.2
		3Ø, 380 / 420 V	ABT	ABT038YT	31,000	9,086	3,010	10.30	3.02	54.4 / 7.2
				ABT042YT	34,900	10,228	3,421	10.20	2.99	54.4 / 7.2
				ABT048YT	40,200	11,781	3,688	10.90	3.19	54.4 / 7.2
				ABT049YM	40,800	11,949	3,760	10.85	3.18	54.4 / 7.2
				ABT051YM	42,000	12,301	3,906	10.75	3.15	54.4 / 7.2
				ABT051YT	42,500	12,447	3,900	10.90	3.19	54.4 / 7.2
				ABT054YT	44,800	13,121	4,150	10.80	3.16	54.4 / 7.2
				ABT054YM	44,400	13,013	4,160	10.67	3.13	54.4 / 7.2
				ABT057YM	47,700	13,980	4,542	10.50	3.08	54.4 / 7.2
				ABT057YT	48,500	14,204	4,450	10.90	3.19	54.4 / 7.2
				ABT061YA	51,500	15,083	4,725	10.90	3.19	54.4 / 7.2
				ABT061YT	51,500	15,083	4,725	10.90	3.19	54.4 / 7.2
				ABT061YM	50,500	14,801	4,720	10.70	3.14	54.4 / 7.2
LSS	60 Hz	1Ø, 208 - 230 V	ARA	ARA061KA	64,000	18,756	6,038	10.60	3.11	54.4 / 7.2
				ARA072KA	72,000	21,101	6,857	10.50	3.08	54.4 / 7.2
				ARA083KA	83,000	24,324	7,905	10.50	3.08	54.4 / 7.2
		1Ø, 208 - 230 V	ABT	ABT034KT	35,000	10,258	3,500	10.00	2.93	54.4 / 7.2
				ABT038KT	38,700	11,342	3,650	10.60	3.11	54.4 / 7.2
				ABT042KT	42,200	12,359	3,980	10.60	3.11	54.4 / 7.2
				ABT048KT	48,000	14,058	4,444	10.80	3.16	54.4 / 7.2
				ABT051KT	51,200	14,058	4,740	10.80	2.97	54.4 / 7.2
				ABT054KA	54,000	15,815	4,820	11.20	3.28	54.4 / 7.2
				ABT057KM	57,100	16,735	6,000	9.52	2.79	54.4 / 7.2
		3Ø, 208 - 230 V	ABT	ABT054RM	54,200	15,885	5,160	10.50	3.08	54.4 / 7.2
				ABT061RM	61,600	18,054	5,860	10.51	3.08	54.4 / 7.2
		3Ø, 220 V	ABT	ABT048RA	48,000	14,068	4,444	10.80	3.17	54.4 / 7.2
		3Ø, 380 V	ABT	ABT048UM	48,300	14,155	4,555	10.60	3.11	54.4 / 7.2
				ABT048UT	48,500	14,214	4,410	11.00	3.22	54.4 / 7.2
				ABT054UM	53,500	15,669	4,953	10.80	3.16	54.4 / 7.2
				ABT054UT	53,700	15,728	4,880	11.00	3.22	54.4 / 7.2

* LSS : Low Side Shel

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



SPECIFICATION

Fixed Speed R454B [1 of 2]

Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
LSS	60 Hz	1Ø, 208 - 230 V	YPH	YPH014KA	18,350	5,377	1,135	16.17	4.74	46.1 / 10.0
				YPH016KA	19,500	5,714	1,192	16.36	4.79	46.1 / 10.0
				YPH020KA	24,800	7,266	1,498	16.56	4.85	46.1 / 10.0
				YPH021KA	26,600	7,794	1,597	16.66	4.88	46.1 / 10.0
				YPH024KA	29,700	8,702	1,772	16.76	4.91	46.1 / 10.0
				YPH025KA	31,300	9,171	1,890	16.56	4.85	46.1 / 10.0
				YPH029KA	36,000	10,548	2,134	16.87	4.94	46.1 / 10.0
				YPH031KA	38,600	11,310	2,280	16.93	4.96	46.1 / 10.0
			YBH	YPH034KA	42,600	12,482	2,573	16.56	4.85	46.1 / 10.0
				YPH036KA	44,700	13,097	2,684	16.65	4.88	46.1 / 10.0
				YBH039KA	48,500	14,211	2,877	16.86	4.94	46.1 / 10.0
				YBH042KA	52,200	15,295	3,115	16.76	4.91	46.1 / 10.0
				YBH049KA	61,400	17,990	3,664	16.76	4.91	46.1 / 10.0
				YBH051KA	63,300	18,547	3,777	16.76	4.91	46.1 / 10.0
			YRH	YRH061KA	75,600	22,151	4,708	16.06	4.70	46.1 / 10.0
				YRH072KA	88,700	25,989	5,526	16.05	4.70	46.1 / 10.0
				YRH083KA	103,500	30,326	6,310	16.40	4.81	46.1 / 10.0
				YRH091KA	113,000	33,109	7,040	16.05	4.70	46.1 / 10.0
		3Ø, 208 - 230 V	YPH	YPH025RA	31,300	9,171	1,868	16.76	4.91	46.1 / 10.0
				YPH029RA	35,800	10,489	2,110	16.97	4.97	46.1 / 10.0
				YPH031RA	38,300	11,222	2,238	17.11	5.01	46.1 / 10.0
				YPH034RA	42,400	12,423	2,530	16.76	4.91	46.1 / 10.0
			YBH	YPH036RA	44,500	13,039	2,670	16.67	4.88	46.1 / 10.0
				YBH039RA	48,500	14,211	2,860	16.96	4.97	46.1 / 10.0
				YBH042RA	52,200	15,295	3,097	16.86	4.94	46.1 / 10.0
				YBH051RA	63,000	18,459	3,740	16.84	4.94	46.1 / 10.0
			YRH	YRH061RA	75,900	22,239	4,571	16.60	4.87	46.1 / 10.0
				YRH067RA	82,800	24,260	4,989	16.60	4.86	46.1 / 10.0
				YRH072RA	88,500	25,931	5,266	16.81	4.92	46.1 / 10.0
				YRH076RA	95,500	27,982	5,753	16.60	4.86	46.1 / 10.0
				YRH083RA	104,500	30,619	6,182	16.90	4.95	46.1 / 10.0
				YRH091RA	113,400	33,226	6,752	16.80	4.92	46.1 / 10.0
				YRH104RA	130,600	38,266	7,650	17.07	5.00	46.1 / 10.0
				YRH122RA	152,500	44,683	8,975	16.99	4.98	46.1 / 10.0
		3Ø, 575 V	YPH	YPH029TA	35,800	10,489	2,110	16.97	4.97	46.1 / 10.0
				YPH031TA	38,100	11,163	2,246	16.96	4.97	46.1 / 10.0
				YPH034TA	42,400	12,423	2,530	16.76	4.91	46.1 / 10.0
				YPH036TA	44,300	12,980	2,620	16.91	4.95	46.1 / 10.0
			YBH	YBH039TA	48,700	14,269	2,890	16.85	4.94	46.1 / 10.0
				YBH042TA	52,200	15,295	3,097	16.86	4.94	46.1 / 10.0
				YBH051TA	63,000	18,459	3,760	16.76	4.91	46.1 / 10.0
			YRH	YRH061TA	75,900	22,239	4,571	16.60	4.87	46.1 / 10.0
				YRH067TA	82,800	24,260	4,989	16.60	4.86	46.1 / 10.0
				YRH072TA	88,500	25,931	5,266	16.81	4.92	46.1 / 10.0
				YRH076TA	95,500	27,982	5,753	16.60	4.86	46.1 / 10.0
				YRH083TA	104,500	30,619	6,182	16.90	4.95	46.1 / 10.0
				YRH091TA	113,400	33,226	6,752	16.80	4.92	46.1 / 10.0
				YRH104TA	130,600	38,266	7,650	17.07	5.00	46.1 / 10.0
				YRH122TA	152,500	44,683	8,975	16.99	4.98	46.1 / 10.0

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Cooling Capacity		Input	EER	COP	Test Condition	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	A	B	C
20,200	5,919	914	22.10	6.48	37.8 / 10.0	385	363	263
21,200	6,211	957	22.15	6.49	37.8 / 10.0	385	363	263
27,300	7,999	1,210	22.56	6.61	37.8 / 10.0	385	363	263
29,350	8,600	1,290	22.75	6.67	37.8 / 10.0	385	363	263
32,000	9,376	1,419	22.55	6.61	37.8 / 10.0	385	363	263
34,400	10,080	1,525	22.56	6.61	37.8 / 10.0	385	363	263
39,400	11,544	1,731	22.76	6.67	37.8 / 10.0	385	363	263
41,700	12,218	1,835	22.72	6.66	37.8 / 10.0	385	363	263
46,700	13,683	2,089	22.36	6.55	37.8 / 10.0	385	363	263
48,600	14,240	2,194	22.15	6.49	37.8 / 10.0	385	363	263
52,200	15,295	2,314	22.56	6.61	37.8 / 10.0	419	394	295
56,800	16,642	2,507	22.66	6.64	37.8 / 10.0	419	394	295
67,000	19,631	2,970	22.56	6.61	37.8 / 10.0	419	394	295
69,300	20,305	3,085	22.46	6.58	37.8 / 10.0	419	394	295
82,800	24,260	3,832	21.61	6.33	37.8 / 10.0	464	433	308
96,500	28,275	4,482	21.53	6.31	37.8 / 10.0	464	433	308
112,800	33,050	5,170	21.82	6.39	37.8 / 10.0	464	433	308
123,400	36,156	5,741	21.49	6.30	37.8 / 10.0	464	433	308
34,400	10,079	1,494	23.03	6.75	37.8 / 10.0	385	362	263
39,200	11,486	1,706	22.98	6.73	37.8 / 10.0	385	362	263
41,300	12,101	1,800	22.94	6.72	37.8 / 10.0	385	362	263
46,500	13,625	2,040	22.79	6.68	37.8 / 10.0	385	362	263
48,400	14,181	2,170	22.30	6.54	37.8 / 10.0	385	362	263
52,200	15,295	2,302	22.68	6.64	37.8 / 10.0	419	394	295
56,800	16,642	2,496	22.76	6.67	37.8 / 10.0	419	394	295
68,900	20,188	3,025	22.78	6.67	37.8 / 10.0	419	394	295
82,900	24,290	3,684	22.50	6.59	37.8 / 10.0	469	436	308
90,100	26,399	4,005	22.50	6.59	37.8 / 10.0	469	436	308
97,300	28,509	4,248	22.90	6.71	37.8 / 10.0	469	436	308
102,600	30,062	4,600	22.30	6.54	37.8 / 10.0	469	436	308
113,100	33,138	5,026	22.50	6.59	37.8 / 10.0	469	436	308
123,000	36,039	5,466	22.50	6.59	37.8 / 10.0	469	436	308
143,500	42,046	6,265	22.91	6.71	37.8 / 10.0	560	523	375
167,500	49,078	7,284	23.00	6.74	37.8 / 10.0	560	523	375
39,200	11,486	1,706	22.98	6.73	37.8 / 10.0	385	363	263
41,300	12,101	1,804	22.89	6.71	37.8 / 10.0	385	363	263
46,500	13,625	2,040	22.79	6.68	37.8 / 10.0	385	363	263
48,200	14,123	2,102	22.93	6.72	37.8 / 10.0	385	363	263
52,400	15,353	2,323	22.56	6.61	37.8 / 10.0	419	394	295
56,800	16,642	2,496	22.76	6.67	37.8 / 10.0	419	394	295
68,000	19,924	3,025	22.48	6.59	37.8 / 10.0	419	394	295
82,900	24,290	3,684	22.50	6.59	37.8 / 10.0	469	436	308
90,100	26,399	4,005	22.50	6.59	37.8 / 10.0	469	436	308
97,300	28,509	4,248	22.90	6.71	37.8 / 10.0	469	436	308
102,600	30,062	4,600	22.30	6.54	37.8 / 10.0	469	436	308
113,100	33,138	5,026	22.50	6.59	37.8 / 10.0	469	436	308
123,000	36,039	5,466	22.50	6.59	37.8 / 10.0	469	436	308
143,500	42,046	6,265	22.91	6.71	37.8 / 10.0	560	523	375
167,500	49,078	7,284	23.00	6.74	37.8 / 10.0	560	523	375

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



SPECIFICATION

Fixed Speed R454B [2 of 2]

Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
LSS	50 / 60 Hz	3Ø, 380 / 420 V, 50 Hz	YPH	YPH029WA	29,500	8,644	1,760	16.76	4.91	46.1 / 10.0
				YPH029WA	35,800	10,489	2,110	16.97	4.97	46.1 / 10.0
				YPH031WA	31,000	9,083	1,860	16.67	4.88	46.1 / 10.0
				YPH031WA	38,400	11,251	2,238	17.16	5.03	46.1 / 10.0
				YPH034WA	34,200	10,021	2,100	16.29	4.77	46.1 / 10.0
				YPH034WA	38,000	11,134	1,680	22.62	6.63	46.1 / 10.0
				YPH036WA	35,700	10,460	2,182	16.36	4.79	46.1 / 10.0
				YPH036WA	39,200	11,486	1,733	22.62	6.63	46.1 / 10.0
			YBH	YBH039WA	40,000	11,720	2,372	16.86	4.94	46.1 / 10.0
				YBH039WA	43,500	12,746	1,895	22.96	6.73	46.1 / 10.0
				YBH042WA	43,000	12,599	2,540	16.93	4.96	46.1 / 10.0
				YBH042WA	52,200	15,295	3,088	16.90	4.95	46.1 / 10.0
				YBH051WA	52,200	15,295	3,150	16.57	4.86	46.1 / 10.0
				YBH051WA	63,300	18,547	3,720	17.02	4.99	46.1 / 10.0
			YRH	YRH061WA	62,900	18,430	3,789	16.60	4.86	46.1 / 10.0
				YRH061WA	75,900	22,239	4,571	16.60	4.87	46.1 / 10.0
				YRH067WA	68,600	20,100	4,136	16.59	4.86	46.1 / 10.0
				YRH067WA	82,800	24,260	4,989	16.60	4.86	46.1 / 10.0
				YRH072WA	73,400	21,506	4,366	16.81	4.93	46.1 / 10.0
				YRH072WA	88,500	25,931	5,266	16.81	4.92	46.1 / 10.0
				YRH076WA	79,200	23,206	4,769	16.61	4.87	46.1 / 10.0
				YRH076WA	95,500	27,982	5,753	16.60	4.86	46.1 / 10.0
				YRH083WA	86,600	25,374	5,125	16.90	4.95	46.1 / 10.0
				YRH083WA	104,500	30,619	6,182	16.90	4.95	46.1 / 10.0
				YRH091WA	94,000	27,542	5,597	16.79	4.92	46.1 / 10.0
				YRH091WA	113,400	33,226	6,752	16.80	4.92	46.1 / 10.0
				YRH104WA	107,700	31,556	6,311	17.06	5.00	46.1 / 10.0
				YRH104WA	130,600	38,266	7,650	17.07	5.00	46.1 / 10.0
				YRH122WA	125,800	36,859	7,404	16.99	4.98	46.1 / 10.0
				YRH122WA	152,500	44,683	8,975	16.99	4.98	46.1 / 10.0
			YGH	YGH275WA	276,000	80,868	17,056	16.18	4.74	46.1 / 10.0
				YGH275WA	332,500	97,423	20,525	16.20	4.75	46.1 / 10.0
	60Hz	1Ø, 265 V	YPH	YPH021QA	26,700	7,823	1,620	16.48	4.83	46.1 / 10.0
				YPH025QA	31,200	9,142	1,903	16.40	4.80	46.1 / 10.0
				YPH029QA	35,800	10,489	2,144	16.70	4.89	46.1 / 10.0
				YPH031QA	38,500	11,281	2,290	16.81	4.93	46.1 / 10.0

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Cooling Capacity		Input	EER	COP	Test Condition	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	A	B	C
32,000	9,376	1,400	22.86	6.70	37.8 / 10.0	385	363	263
39,200	11,486	1,706	22.98	6.73	37.8 / 10.0	385	363	263
34,300	10,050	1,488	23.05	6.75	37.8 / 10.0	385	363	263
41,500	12,160	1,800	23.06	6.76	37.8 / 10.0	385	363	263
42,400	12,423	2,530	16.76	4.91	37.8 / 10.0	385	363	263
46,500	13,625	2,028	22.93	6.72	37.8 / 10.0	385	363	263
44,200	12,951	2,620	16.87	4.94	37.8 / 10.0	385	363	263
48,200	14,123	2,102	22.93	6.72	37.8 / 10.0	385	363	263
48,500	14,211	2,848	17.03	4.99	37.8 / 10.0	419	394	295
52,200	15,295	2,291	22.78	6.68	37.8 / 10.0	419	394	295
47,300	13,859	2,030	23.30	6.83	37.8 / 10.0	419	394	295
56,800	16,642	2,480	22.90	6.71	37.8 / 10.0	419	394	295
56,800	16,642	2,485	22.86	6.70	37.8 / 10.0	419	394	295
69,000	20,217	3,020	22.85	6.69	37.8 / 10.0	419	394	295
68,200	19,983	3,032	22.49	6.59	37.8 / 10.0	469	436	308
82,900	24,290	3,684	22.50	6.59	37.8 / 10.0	469	436	308
74,200	21,741	3,296	22.51	6.60	37.8 / 10.0	469	436	308
90,100	26,399	4,005	22.50	6.59	37.8 / 10.0	469	436	308
80,100	23,469	3,496	22.91	6.71	37.8 / 10.0	469	436	308
97,300	28,509	4,248	22.90	6.71	37.8 / 10.0	469	436	308
84,400	24,729	3,786	22.29	6.53	37.8 / 10.0	469	436	308
102,600	30,062	4,600	22.30	6.54	37.8 / 10.0	469	436	308
93,100	27,278	4,136	22.51	6.59	37.8 / 10.0	469	436	308
113,100	33,138	5,026	22.50	6.59	37.8 / 10.0	469	436	308
101,200	29,652	4,499	22.50	6.59	37.8 / 10.0	469	436	308
123,000	36,039	5,466	22.50	6.59	37.8 / 10.0	469	436	308
118,700	34,779	5,175	22.94	6.72	37.8 / 10.0	560	523	375
143,500	42,046	6,265	22.91	6.71	37.8 / 10.0	560	523	375
138,500	40,581	6,017	23.02	6.74	37.8 / 10.0	560	523	375
167,500	49,078	7,284	23.00	6.74	37.8 / 10.0	560	523	375
302,000	88,486	13,868	21.78	6.38	37.8 / 10.0	685	646	444
360,000	105,480	16,510	21.80	6.39	37.8 / 10.0	685	646	444
29,250	8,570	1,299	22.52	6.60	37.8 / 10.0	385	363	263
34,100	9,991	1,527	22.33	6.54	37.8 / 10.0	385	363	263
39,400	11,544	1,748	22.54	6.60	37.8 / 10.0	385	363	263
41,500	12,160	1,845	22.49	6.59	37.8 / 10.0	385	363	263

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



SPECIFICATION

Two-stage Modulating R410A

Type	Frequency	Voltage	Series	Model	Power Mode (Full Load)					
					Cooling Capacity		Input	EER	COP	Test Condition
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
LSS	60 Hz	1Ø, 208 - 230 V	APM	APM016KA	20,000	5,861	1,316	15.20	4.45	46.1 / 10.0
				APM020KA	25,100	7,356	1,673	15.00	4.40	46.1 / 10.0
				APM021KA	26,400	7,737	1,703	15.50	4.54	46.1 / 10.0
				APM030KA	37,900	11,107	2,429	15.60	4.57	46.1 / 10.0
				APM031KA	38,000	11,136	2,436	15.60	4.57	46.1 / 10.0
			ABM	ABM035KA	45,000	13,188	2,813	16.00	4.69	46.1 / 10.0
				ABM040KA	50,900	14,917	3,222	15.80	4.63	46.1 / 10.0
				ABM042KA	51,500	15,093	3,219	16.00	4.69	46.1 / 10.0
				ABM051KA	64,100	18,786	4,006	16.00	4.69	46.1 / 10.0
		3Ø, 208 - 230 V	ABM	ABM040RA	51,000	14,946	3,150	16.19	4.74	46.1 / 10.0
				ABM042RA	51,700	15,152	3,191	16.20	4.75	46.1 / 10.0
				ABM051RA	64,100	18,786	3,980	16.11	4.72	46.1 / 10.0
		3Ø, 575 V	ABM	ABM040TA	51,000	14,947	3,150	16.19	4.75	46.1 / 10.0
				ABM051TA	64,100	18,786	3,980	16.11	4.72	46.1 / 10.0
		3Ø, 460 V	ABM	ABM040WA	51,000	14,947	3,150	16.19	4.75	46.1 / 10.0
				ABM042WA	51,500	15,093	3,219	16.00	4.69	46.1 / 10.0
				ABM051WA	64,100	18,786	3,940	16.27	4.77	46.1 / 10.0
	50 Hz	3Ø, 380 - 420 V	ABM	ABM040WA	41,700	12,221	2,580	16.16	4.74	46.1 / 10.0
				ABM042WA	42,700	12,514	2,711	15.75	4.62	46.1 / 10.0
				ABM051WA	52,800	15,474	3,250	16.25	4.76	46.1 / 10.0

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Saving Mode (Part Load)						Modulation Ratio	Dimension (mm)			Solenoid Valve
Cooling Capacity		Input	EER	COP	Test Condition		A	B	C	
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	Power / Saving				Voltage
15,500	4,542	820	18.90	5.54	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
19,600	5,744	1,010	19.41	5.69	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
20,900	6,125	1,066	19.61	5.75	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
28,100	8,235	1,419	19.80	5.80	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
28,200	8,264	1,439	19.60	5.74	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
34,000	9,964	1,683	20.20	5.92	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,600	11,312	1,901	20.31	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,100	11,459	1,926	20.30	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
48,100	14,096	2,369	20.30	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,300	11,224	1,890	20.26	5.94	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,100	11,459	1,926	20.30	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
48,300	14,155	2,330	20.73	6.08	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,600	11,313	1,890	20.42	5.99	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
48,300	14,155	2,330	20.73	6.08	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,600	11,313	1,900	20.32	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,100	11,459	1,926	20.30	5.95	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
48,300	14,155	2,340	20.64	6.05	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
31,400	9,202	1,530	20.52	6.01	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
31,800	9,320	1,563	20.35	5.96	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,700	11,342	1,879	20.60	6.04	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



SPECIFICATION

Two-stage Modulating R454B

Type	Frequency	Voltage	Series	Model	Power Mode (Full Load)						
					Cooling Capacity		Input	EER	COP	Test Condition	
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	
LSS	60 Hz	1Ø, 208 - 230 V	YPM	YPM016KA	19,800	5,798	1,245	15.90	4.66	46.1 / 10.0	
				YPM021KA	26,800	7,849	1,634	16.40	4.80	46.1 / 10.0	
				YPM026KA	32,500	9,518	2,006	16.20	4.74	46.1 / 10.0	
				YPM030KA	37,800	11,070	2,305	16.40	4.80	46.1 / 10.0	
				YPM031KA	39,200	11,480	2,382	16.46	4.82	46.1 / 10.0	
			YBM	YBM035KA	45,500	13,325	2,741	16.60	4.86	46.1 / 10.0	
				YBM040KA	50,600	14,819	3,085	16.40	4.80	46.1 / 10.0	
				YBM042KA	52,000	15,229	3,152	16.50	4.83	46.1 / 10.0	
		1Ø, 265 V	YPM	YPM031QA	38,500	11,341	2,348	16.40	4.83	46.1 / 10.0	
			3Ø, 208 - 230 V	YPM	YPM021RA	26,600	7,790	1,640	16.22	4.75	46.1 / 10.0
		3Ø, 208 - 230 V	YPM	YPM030RA	37,800	11,071	2,291	16.50	4.83	46.1 / 10.0	
				YPM031RA	39,100	11,451	2,370	16.50	4.83	46.1 / 10.0	
			YBM	YBM035RA	45,500	13,326	2,741	16.60	4.86	46.1 / 10.0	
				YBM040RA	50,600	14,819	3,085	16.40	4.80	46.1 / 10.0	
				YBM042RA	52,000	15,230	3,152	16.50	4.83	46.1 / 10.0	
				YBM051RA	63,300	18,539	3,813	16.60	4.86	46.1 / 10.0	
			YRM	YRM091RA	111,300	32,597	6,510	17.10	5.01	46.1 / 10.0	
				YRM122RA	155,000	45,396	8,805	17.60	5.16	46.1 / 10.0	
			3Ø, 575 V	YPM	YPM030TA	37,800	11,071	2,291	16.50	4.83	46.1 / 10.0
				YBM	YBM040TA	50,600	14,819	3,085	16.40	4.80	46.1 / 10.0
		YBM051TA			63,300	18,539	3,813	16.60	4.86	46.1 / 10.0	
		YRM		YRM091TA	111,300	32,597	6,510	17.10	5.01	46.1 / 10.0	
				YRM122TA	155,000	45,396	8,805	17.60	5.16	46.1 / 10.0	
		3Ø, 460 V	YPM	YPM030WA	37,800	11,071	2,291	16.50	4.83	46.1 / 10.0	
				YPM031WA	39,100	11,451	2,370	16.50	4.83	46.1 / 10.0	
			YBM	YBM035WA	45,500	13,326	2,725	16.70	4.89	46.1 / 10.0	
				YBM040WA	50,600	14,819	3,085	16.40	4.80	46.1 / 10.0	
				YBM042WA	52,000	15,230	3,152	16.50	4.83	46.1 / 10.0	
				YBM051WA	63,300	18,539	3,813	16.60	4.86	46.1 / 10.0	
			YRM	YRM091WA	111,300	32,597	6,510	17.10	5.01	46.1 / 10.0	
				YRM122WA	155,000	45,396	8,805	17.60	5.16	46.1 / 10.0	
		50 Hz	3Ø, 380 - 420 V	YPM	YPM030WA	30,500	8,933	1,949	15.65	4.58	46.1 / 10.0
					YPM031WA	30,200	8,845	1,911	15.80	4.63	46.1 / 10.0
				YBM	YBM035WA	37,500	10,983	2,246	16.70	4.89	46.1 / 10.0
					YBM040WA	41,000	12,008	2,634	15.56	4.56	46.1 / 10.0
					YBM042WA	43,000	12,594	2,590	16.60	4.86	46.1 / 10.0
					YBM051WA	52,000	15,230	3,114	16.70	4.89	46.1 / 10.0
				YRM	YRM091WA	92,300	27,032	5,403	17.08	5.00	46.1 / 10.0
					YRM122WA	128,500	37,634	7,308	17.58	5.15	46.1 / 10.0

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Saving Mode (Part Load)						Modulation Ratio	Dimension (mm)			Solenoid Valve
Cooling Capacity		Input	EER	COP	Test Condition		A	B	C	
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	Power / Saving				Voltage
15,200	4,451	760	20.00	5.86	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
20,600	6,033	986	20.89	6.12	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
24,200	7,087	1,152	21.01	6.15	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
28,100	8,229	1,340	20.97	6.14	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
29,100	8,522	1,375	21.16	6.20	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
34,000	9,957	1,619	21.00	6.15	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,300	11,217	1,807	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,500	11,568	1,872	21.10	6.18	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
47,900	14,028	2,259	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
28,700	8,663	1,395	20.57	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
20,300	5,945	983	20.65	6.05	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
28,100	8,230	1,325	21.21	6.21	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
29,000	8,493	1,368	21.20	6.21	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
34,000	9,958	1,604	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,300	11,217	1,807	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,500	11,568	1,863	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
47,900	14,029	2,238	21.40	6.27	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
81,500	23,869	3,808	21.40	6.27	37.8 / 10.0	67%	474	445	308	24 Vac, 50 / 60 Hz
115,000	33,681	5,158	22.30	6.53	37.8 / 10.0	67%	564	527	375	24 Vac, 50 / 60 Hz
28,100	8,230	1,325	21.21	6.21	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
38,300	11,217	1,807	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
47,900	14,029	2,238	21.40	6.27	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
81,500	23,869	3,808	21.40	6.27	37.8 / 10.0	67%	474	445	308	24 Vac, 50 / 60 Hz
115,000	33,681	5,158	22.30	6.53	37.8 / 10.0	67%	564	527	375	24 Vac, 50 / 60 Hz
28,100	8,230	1,325	21.21	6.21	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
29,100	8,523	1,373	21.20	6.21	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
34,000	9,958	1,596	21.30	6.24	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,300	11,217	1,807	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
39,500	11,568	1,863	21.20	6.21	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
47,900	14,029	2,238	21.40	6.27	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
81,500	23,869	3,808	21.40	6.27	37.8 / 10.0	67%	474	445	308	24 Vac, 50 / 60 Hz
115,000	33,681	5,158	22.30	6.53	37.8 / 10.0	67%	564	527	375	24 Vac, 50 / 60 Hz
22,000	6,443	1,094	20.11	5.89	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
23,000	6,736	1,095	21.00	6.15	37.8 / 10.0	67%	391	368	263	24 Vac, 50 / 60 Hz
28,300	8,288	1,322	21.40	6.27	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
31,400	9,196	1,477	21.26	6.23	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
32,000	9,372	1,502	21.30	6.24	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
38,700	11,334	1,792	21.60	6.33	37.8 / 10.0	67%	425	400	295	24 Vac, 50 / 60 Hz
67,100	19,652	3,138	21.38	6.26	37.8 / 10.0	67%	474	445	308	24 Vac, 50 / 60 Hz
94,600	27,706	4,250	22.26	6.52	37.8 / 10.0	67%	564	527	375	24 Vac, 50 / 60 Hz

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



SPECIFICATION

Variable Speed R410A+R32

Refrigerant	Type	Series	Model	Power	Cooling Capacity		Input	EER	COP	Test Condition
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
R410A	LSS	APA	APA026DA	DC380V	28,000	8,204	2,772	10.10	2.96	54.4 / 7.2
		ABA	ABA042DB	DC380V	44,200	12,945	4,055	10.90	3.19	54.4 / 7.2
			ABA051DA	DC380V	53,500	15,669	4,864	11.00	3.22	54.4 / 7.2
	HSS	JQC	JQC048MA	DC540V						
			JQC048MB	DC310V						
			JQC068MA	DC540V						
			JQC068MB	DC310V						
		JBA	JBA096MA	DC540V						
	R1™ Compressor	RJ	RJB036MAB	DC520V	37,100	10,866	3,198	11.60	3.40	54.4 / 7.2
			RJB036MBA	DC380V	37,100	10,866	3,198	11.60	3.40	54.4 / 7.2
			RJB036MAA	DC520V	37,100	10,866	3,226	11.50	3.37	54.4 / 7.2
			RJB036MAB	DC520V	37,100	10,866	3,198	11.60	3.40	54.4 / 7.2
			RJA040MAB	DC380V	60,700	17,778	3,794	16.00	4.69	46.1 / 10.0
			RJA020MAB	DC380V	20,700	6,063	1,294	16.00	4.69	46.1 / 10.0
R32	R1™ Compressor	RJ	RJB036MAA	DC520V	37,700	11,042	3,397	11.10	3.25	54.4 / 7.2
			RJB036MBA	DC380V	37,650	11,027	3,356	11.22	3.29	54.4 / 7.2
			RJB036MAB	DC520V	37,650	11,027	3,356	11.22	3.29	54.4 / 7.2
	HSS	JQC	JQC068MA	DC540V						
			JQC068MB	DC310V						
		JBA	JBA096MA	DC540V						
R454B	LSS	APA	APA026DA	DC380V	28,000	8,204	2,772	10.10	2.96	54.4 / 7.2
		ABA	ABA042DB	DC380V	44,800	13,126	4,129	10.85	3.18	54.4 / 7.2
			ABA051DA	DC380V	54,300	15,910	4,950	10.97	3.21	54.4 / 7.2

* LSS : Low Side Shell
* HSS : High Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Cooling Capacity		Input	EER	COP	Test Condition	Range	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	rps	A	B	C
34,600	10,138	1,747	19.81	5.80	37.8 / 7.2	20~70	407	379	250
53,500	15,669	2,716	19.70	5.77	37.8 / 7.2	20~70	449	416	297
64,500	18,890	3,241	19.90	5.83	37.8 / 7.2	20~70	449	416	297
61,000	17,877	2,905	21.00	6.15	37.8 / 7.2	12~160	505	442	353
61,500	18,024	2,943	20.90	6.12	37.8 / 7.2	12~160	489	426	337
85,000	24,911	4,101	20.73	6.07	37.8 / 7.2	12~160	505	442	353
85,000	24,911	4,171	20.38	5.97	37.8 / 7.2	12~160	542	474	395
121,500	35,608	5,690	21.35	6.26	37.8 / 7.2	12~160	542	474	395
37,000	10,836	1,697	21.80	6.39	37.8 / 7.2	10~150	366	356	322
37,000	10,836	1,697	21.80	6.39	37.8 / 7.2	10~150	366	356	322
37,000	10,836	1,721	21.50	6.30	37.8 / 7.2	10~150	366	356	322
37,000	10,836	1697	21.80	6.39	37.8 / 7.2	10~150	366	356	322
30,700	8,992	1,323	23.20	6.80	37.8 / 10.0	15~120	366	356	322
13,200	3,866	595	22.18	6.50	37.8 / 10.0	15~120	366	356	322
36,600	10,719	1,803	20.30	5.95	37.8 / 7.2	10~150	366	356	322
36,350	10,647	1,766	20.58	6.03	37.8 / 7.2	10~150	366	356	322
36,350	10,647	1,766	20.58	6.03	37.8 / 7.2	10~150	366	356	322
89,000	26,083	4,301	20.69	6.06	37.8 / 7.2	12~160	505	442	353
89,600	26,259	4,374	20.48	6.00	37.8 / 7.2	12~160	505	442	353
122,500	35,901	6,000	20.42	5.98	37.8 / 7.2	12~160	542	474	395
33,800	9,903	1,733	19.50	5.71	37.8 / 7.2	20~70	407	379	250
53,400	15,646	2,745	19.45	5.70	37.8 / 7.2	20~70	449	416	297
64,500	18,899	3,249	19.85	5.82	37.8 / 7.2	20~70	449	416	297

* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

For Heatpump Application

Refrigerant	Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition
						Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C
R410A	R1™ Compressor	10 ~ 150 Hz	DC520V	RJ	RJB036MAC	35,000	10,251	3,125	11.2	3.28	54.4 / 7.2
R290	HSS	20 ~ 100 Hz	DC540V	PJQC	PJQC062MAA	42,336	12,401	3,577	11.84	3.47	54.4 / 7.2

Heating Capacity		Input	EER	COP	Test Condition	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	A	B	C
21,200	6,209	2,718	7.8	2.28	48.9 / -6.7	366	356	322
29,106	8,525	3,130	9.30	2.72	50.0 / -7.0	505	442	353



SPECIFICATION

For Refrigeration Application

Type	Frequency	Voltage	Series	Model	Cooling Capacity		Input	EER	COP	Test Condition	
					Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	
LSS	60 Hz	1Ø, 208 - 230 V	MPA	MPA010KA	15,300	4,481	1,779	8.60	2.52	54.4 / 7.2	
				MPA013KA	19,800	5,799	2,176	9.10	2.66	54.4 / 7.2	
				MPA015KA	23,400	6,853	2,543	9.20	2.69	54.4 / 7.2	
				MPA019KA	26,100	7,644	2,868	9.10	2.67	54.4 / 7.2	
			MBA	MBA021KA	34,400	10,075	3,909	8.80	2.58	54.4 / 7.2	
				MBA026KA	38,500	11,276	4,278	9.00	2.64	54.4 / 7.2	
				MBA029KA	43,000	12,594	4,725	9.10	2.67	54.4 / 7.2	
				MBA033KA	48,100	14,087	5,286	9.10	2.66	54.4 / 7.2	
			MRA	MRA038KA	54,000	15,815	6,585	8.20	2.40	54.4 / 7.2	
		3Ø, 208 - 230 V	MPA	MPA010RA	15,400	4,510	1,770	8.70	2.55	54.4 / 7.2	
				MPA013RA	19,600	5,740	2,227	8.80	2.58	54.4 / 7.2	
				MPA015RA	23,000	6,736	2,566	8.96	2.63	54.4 / 7.2	
				MPA019RA	25,800	7,556	2,867	9.00	2.64	54.4 / 7.2	
			MBA	MBA021RA	34,500	10,104	3,833	9.00	2.64	54.4 / 7.2	
				MBA026RA	38,100	11,159	4,187	9.10	2.67	54.4 / 7.2	
				MBA029RA	43,000	12,594	4,674	9.20	2.69	54.4 / 7.2	
				MBA033RA	48,100	14,087	5,344	9.00	2.64	54.4 / 7.2	
			MRA	MRA038RA	54,500	15,962	6,337	8.60	2.52	54.4 / 7.2	
				MRA045RA	65,000	19,037	7,558	8.60	2.52	54.4 / 7.2	
		3Ø, 380 V	MPA	MPA015UA	22,600	6,619	2,511	9.00	2.64	54.4 / 7.2	
			MBA	MBA021UA	34,500	10,104	3,833	9.00	2.64	54.4 / 7.2	
				MBA029UA	43,000	12,594	4,674	9.20	2.69	54.4 / 7.2	
				MBA033UA	48,400	14,175	5,261	9.20	2.69	54.4 / 7.2	
		3Ø, 460 V	MPA	MPA010SA	15,500	4,540	1,761	8.80	2.58	54.4 / 7.2	
				MPA013SA	19,600	5,740	2,202	8.90	2.61	54.4 / 7.2	
				MPA015SA	22,800	6,678	2,533	9.00	2.64	54.4 / 7.2	
				MPA019SA	25,600	7,498	2,844	9.00	2.64	54.4 / 7.2	
			MBA	MBA021SA	34,600	10,133	3,844	9.00	2.64	54.4 / 7.2	
				MBA026SA	38,000	11,129	4,176	9.10	2.66	54.4 / 7.2	
				MBA029SA	42,800	12,535	4,652	9.20	2.69	54.4 / 7.2	
				MBA033SA	48,100	14,087	5,286	9.10	2.66	54.4 / 7.2	
			MRA	MRA038SA	54,700	16,020	6,360	8.60	2.52	54.4 / 7.2	
				MRA045SA	65,000	19,037	7,558	8.60	2.52	54.4 / 7.2	
	50 Hz	1Ø, 220 - 240 V	MBT	MBT021PM	28,400	8,323	3,340	8.50	2.49	54.4 / 7.2	
		3Ø, 380 - 420 V		MBT021WM	28,800	8,441	3,350	8.60	2.52	54.4 / 7.2	
				MBT038WM	45,100	13,218	5,180	8.71	2.55	54.4 / 7.2	
	60 Hz	3Ø, 460 V		MBT021WM	34,800	10,199	4,040	8.61	2.52	54.4 / 7.2	
				MBT038WM	53,600	15,709	6,140	8.73	2.56	54.4 / 7.2	

* LSS : Low Side Shell
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)

Cooling Capacity		Input	EER	COP	Test Condition	Dimension (mm)		
Btu/hr	Watts	Watts	Btu/W-hr	W/W	°C	A	B	C
9,700	2,841	1,540	6.30	1.84	48.9 / -6.7	387	359	230
12,500	3,661	1,894	6.60	1.93	48.9 / -6.7	387	359	230
15,200	4,452	2,171	7.00	2.05	48.9 / -6.7	387	359	230
16,900	4,950	2,449	6.90	2.02	48.9 / -6.7	387	359	230
22,400	6,560	3,294	6.80	1.99	48.9 / -6.7	418	385	266
25,000	7,322	3,623	6.90	2.02	48.9 / -6.7	418	385	266
27,700	8,113	4,014	6.90	2.02	48.9 / -6.7	418	385	266
31,100	9,108	4,574	6.80	1.99	48.9 / -6.7	418	385	266
37,000	10,836	5,522	6.70	1.96	48.9 / -6.7	455	422	304
9,600	2,812	1,548	6.20	1.82	48.9 / -6.7	387	359	230
12,700	3,720	1,954	6.50	1.90	48.9 / -6.7	387	359	230
14,900	4,364	2,191	6.80	1.99	48.9 / -6.7	387	359	230
16,800	4,920	2,507	6.70	1.96	48.9 / -6.7	387	359	230
22,400	6,560	3,294	6.80	1.99	48.9 / -6.7	418	385	266
24,800	7,263	3,594	6.90	2.02	48.9 / -6.7	418	385	266
27,800	8,142	3,971	7.00	2.05	48.9 / -6.7	418	385	266
31,300	9,167	4,536	6.90	2.02	48.9 / -6.7	418	385	266
37,200	10,895	5,314	7.00	2.05	48.9 / -6.7	455	422	304
45,100	13,209	6,264	7.20	2.11	48.9 / -6.7	455	422	304
14,750	4,320	2,169	6.80	1.99	48.9 / -6.7	387	359	230
22,300	6,531	3,279	6.80	1.99	48.9 / -6.7	418	385	266
27,800	8,142	3,971	7.00	2.05	48.9 / -6.7	418	385	266
31,500	9,226	4,437	7.10	2.08	48.9 / -6.7	418	385	266
9,650	2,826	1,556	6.20	1.82	48.9 / -6.7	387	359	230
12,700	3,720	1,924	6.60	1.93	48.9 / -6.7	387	359	230
14,900	4,364	2,191	6.80	1.99	48.9 / -6.7	387	359	230
16,800	4,920	2,471	6.80	1.99	48.9 / -6.7	387	359	230
22,400	6,560	3,294	6.80	1.99	48.9 / -6.7	418	385	266
24,800	7,263	3,594	6.90	2.02	48.9 / -6.7	418	385	266
27,700	8,113	4,014	6.90	2.02	48.9 / -6.7	418	385	266
31,300	9,167	4,536	6.90	2.02	48.9 / -6.7	418	385	266
37,800	11,071	5,324	7.10	2.08	48.9 / -6.7	455	422	304
45,200	13,238	6,278	7.20	2.11	48.9 / -6.7	455	422	304
18,900	5,539	2,885	6.55	1.92	48.9 / -6.7	444	421	315
19,300	5,657	2,900	6.66	1.95	48.9 / -6.7	444	421	315
31,700	9,291	4,500	7.04	2.06	48.9 / -6.7	444	421	315
23,600	6,917	3,495	6.75	1.98	48.9 / -6.7	444	421	315
38,200	11,196	5,410	7.06	2.07	48.9 / -6.7	444	421	315

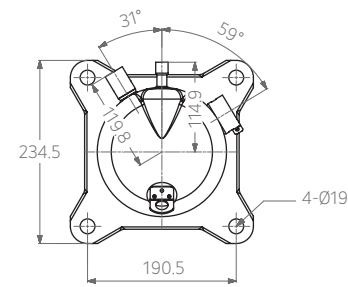
* Test condition :
- DOE A : Condensing (46.1 °C / 115.0 °F), Evaporating (10.0 °C / 50.0 °F)
- DOE B : Condensing (37.8 °C / 100.0 °F), Evaporating (10.0 °C / 50.0 °F)



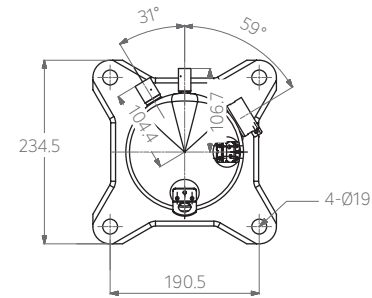
OUTLINE DRAWING

[Unit : mm]

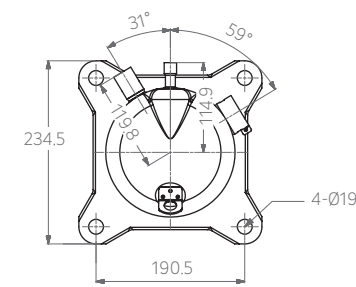
· ABT



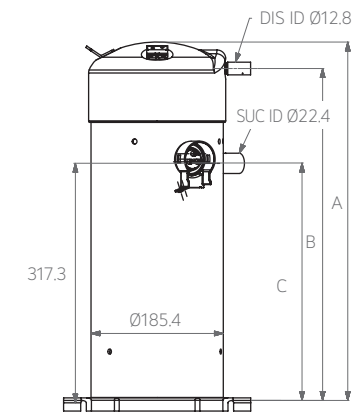
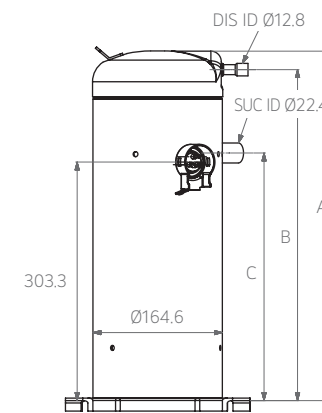
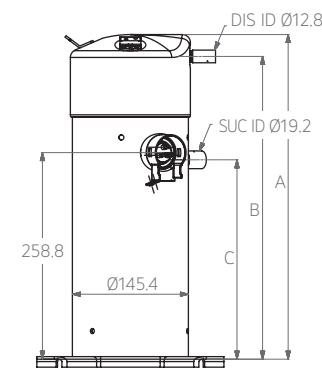
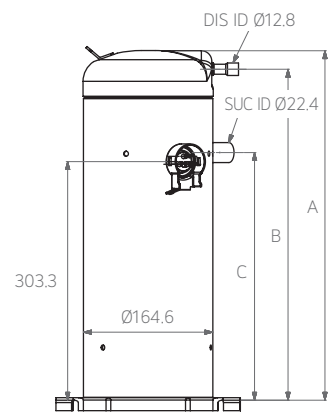
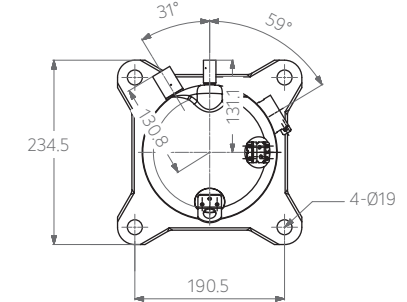
· APA



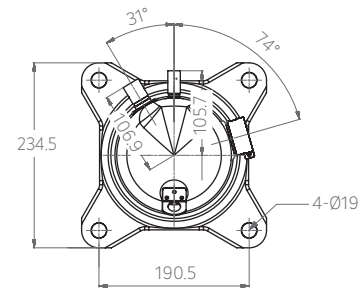
· ABA



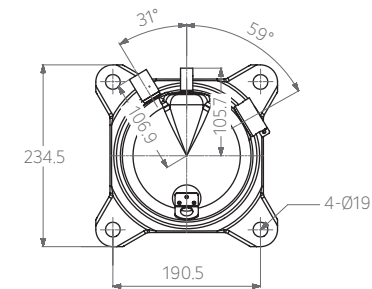
· ARA



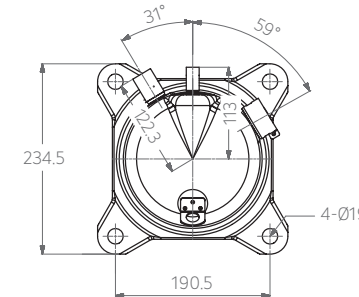
· APG



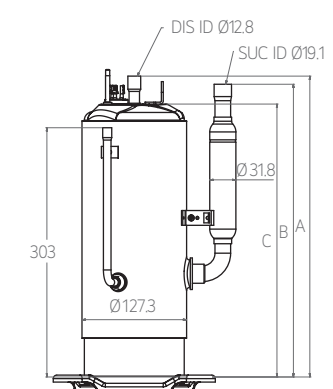
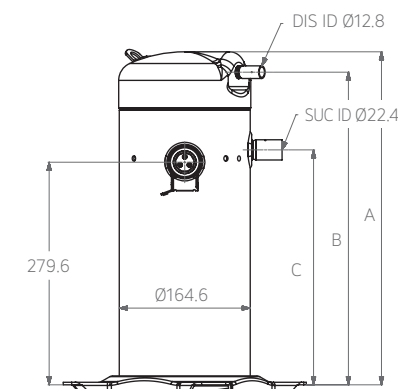
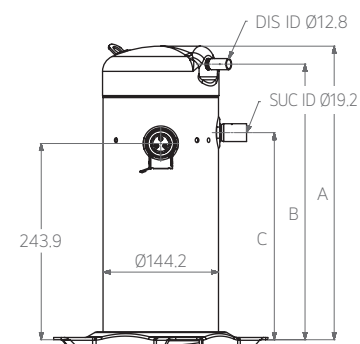
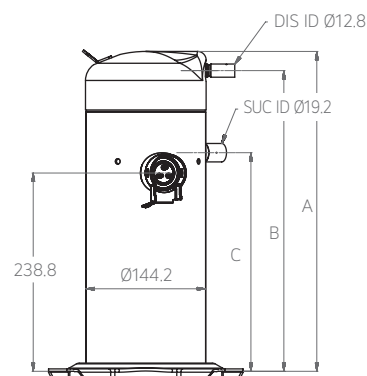
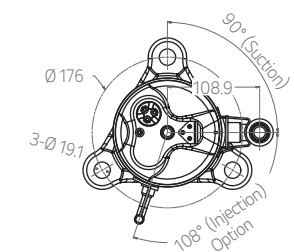
· APH / YPH



· ABG / ABH / YBH



· RJ

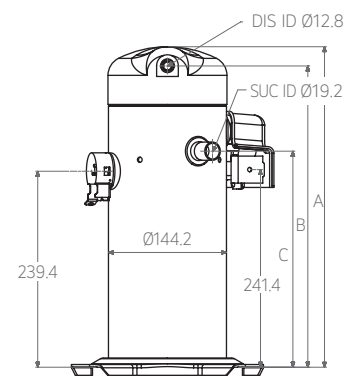
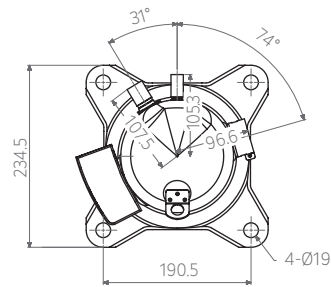




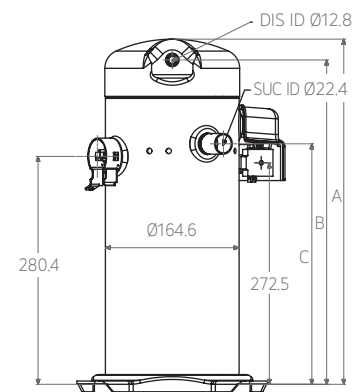
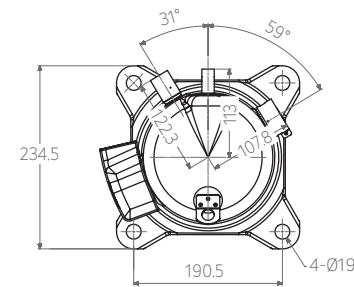
OUTLINE DRAWING

[Unit : mm]

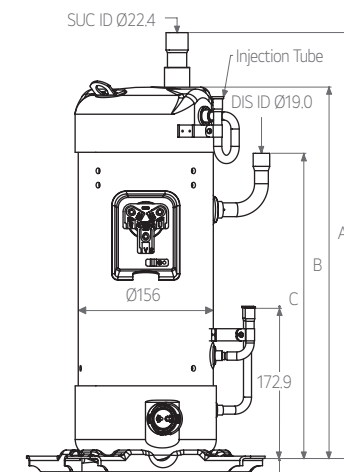
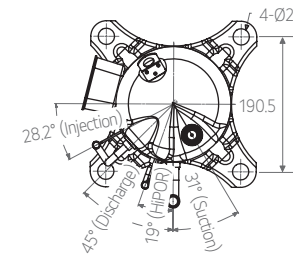
· APM / YPM



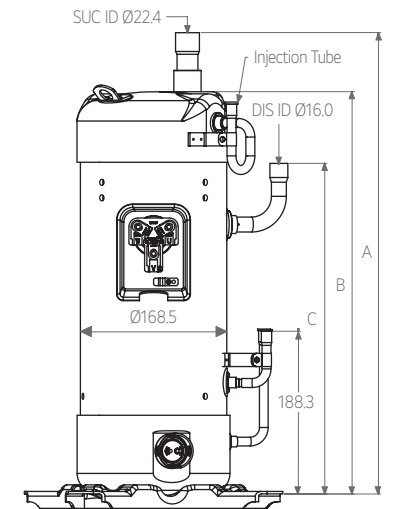
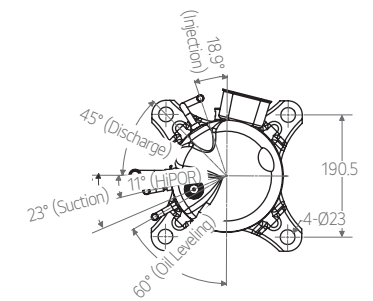
· ABM / YBM



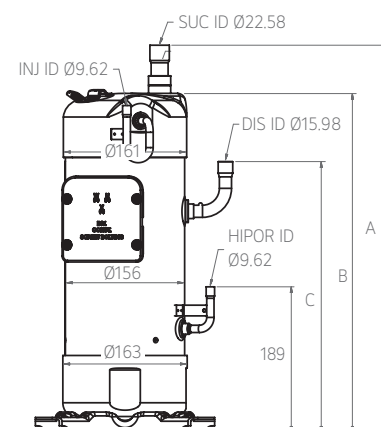
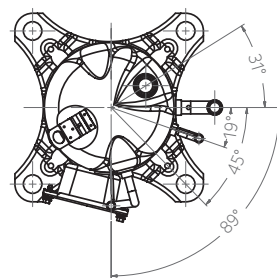
· JQC



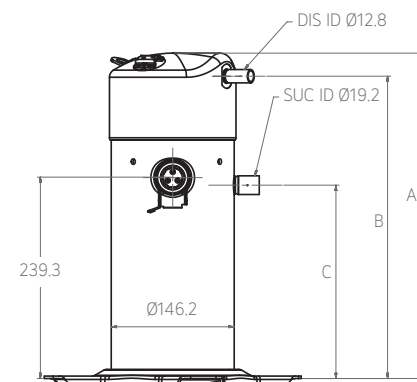
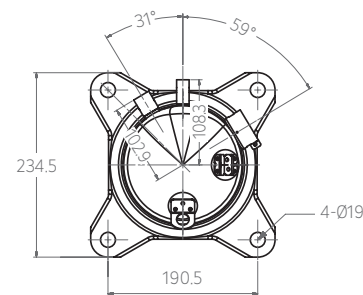
· JBA



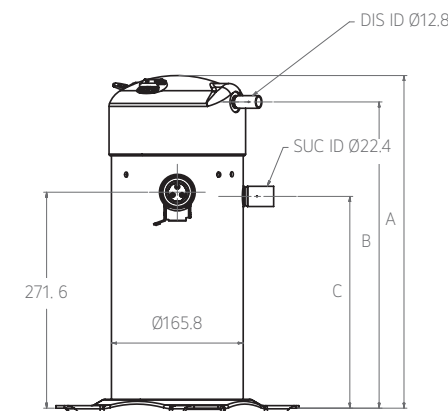
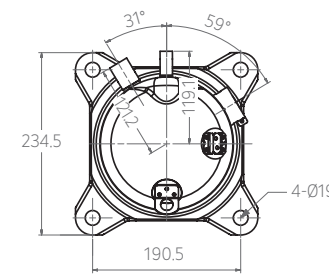
· PJQC



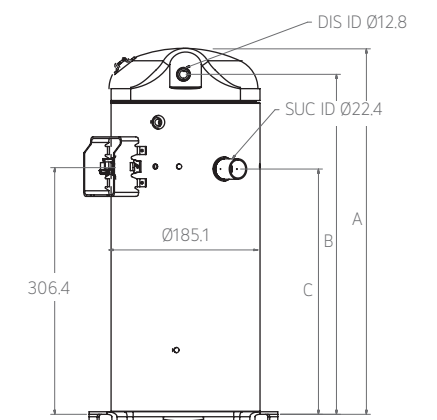
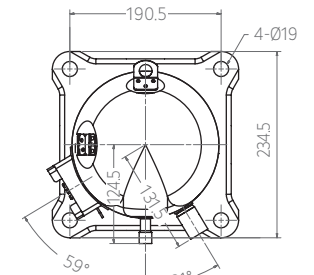
· MPA



· MBA



· MRA



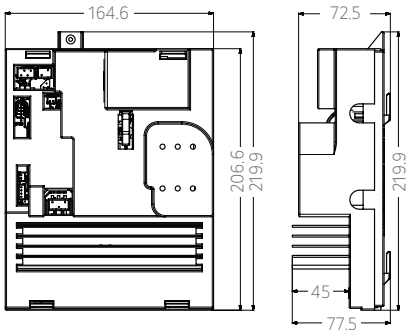


SPECIFICATION

Residential Inverter Drive

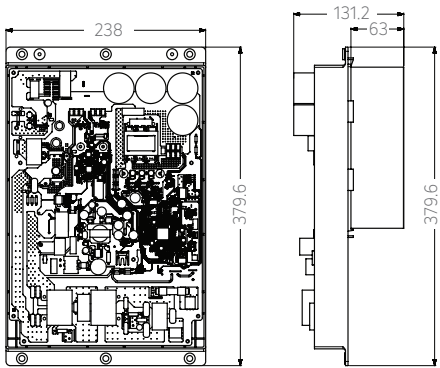
Contents		Spec	1 kW	4 kW	6 kW	7 kW
Drive	1	Model Name	A*01K001	A*04K001	A*06K001	A*07K001
	2	Rated Input Voltage [V]	1Ø, 208 - 230			
	3	Input Frequency [Hz]	50 - 60			
	4	Maximum Input Current [Arms]	5.5	18	27	31
	5	Maximum Input Power [W]	1,000	4,000	6,000	7,000
	6	Operating Compressor Speed [Hz]	15 ~ 90	10 ~ 120		
	7	Converter Type	HPSC	PFC		
	8	Compressor Connection Color	-	Red (U) / Blue (V) / Yellow (W)		
	9	Ambient Operating Temperature [°C]	0 ~ 40	-20 ~ 48		
	10	Storage Temperature [°C]	-40 ~ 60			
	11	Max. Storage Relative Humidity [%]	85			
Reactor	1	Model Name	PDR010L011	PDR040K350	PDR060K350	
	2	Rated Input Voltage [V]	1Ø, 208 - 230			
	3	Input Frequency [Hz]	50 - 60			
	4	Maximum input current	6 A	20 A	25 A	
	5	Inductance at 30 kHz, 1 V (25°C)	13 mH ±10%	220 uH ±15%	200 uH ±15%	

· A*01K001

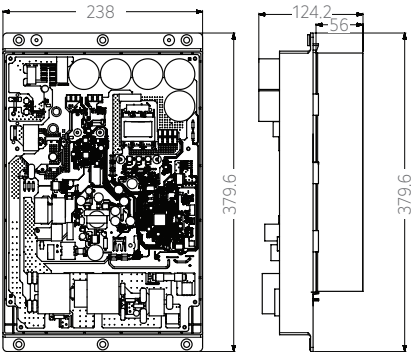


· A*04K001

[Unit : mm]



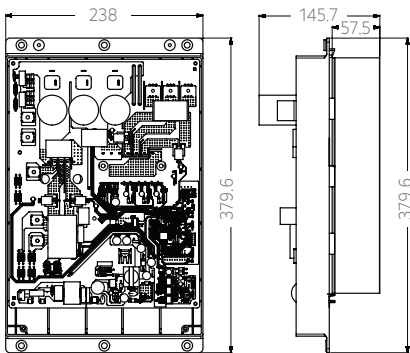
· A*06K001



Commercial Inverter Drive

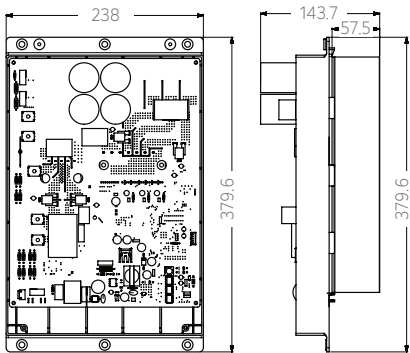
Contents	Spec	7 kW		
Drive	1 Model Name	A*07R101A	A*07S101A	A*07T101A
	2 Rated Input Voltage [V]	3Ø, 208 - 230	3Ø, 460	3Ø, 575
	3 Input Frequency [Hz]	60		
	4 Maximum Input Current [Arms]	21	11	9
	5 Maximum Input Power [W]	7,000		
	6 Operating Compressor Speed [Hz]	15 ~ 150		
	7 Converter Type	Bridge Diode		
	8 Compressor Connection Color	Red (U) / Blue (V) / Yellow (W)		
	9 Ambient Operating Temperature [°C]	-20 ~ 48	-20 ~ 48	-20 ~ 52
	10 Storage Temperature [°C]	-40 ~ 60		
	11 Max. Storage Relative Humidity [%]	85	85	95
Noise Filter	1 Current Range [Peak Current]	50		
	2 Rated Frequency [Hz]	50 / 60		
	3 Leakage Current	6.0 mA MAX. at AC 380 V 50 / 60 Hz (R,S,T - Gnd)		
	4 Insulation Resistance	Line to Gnd, AC 1500 V for 1 Min. (AC 1800 V for 1Sec.)		
	5 Operating Temperature [°C]	-40 ~ 85		
	6 Storage Temperature [°C]	-40 ~ 90		
Transformer	1 Model Name	PDR070R040	PDR070S030	PDR070T040
	2 Rated Input Voltage [V]	230	460	575
	3 Rated Input Frequency [Hz]	50 / 60	50 / 60	50 / 60
	4 Rated Output Voltage [V]	230	230	230

· A*07R101A

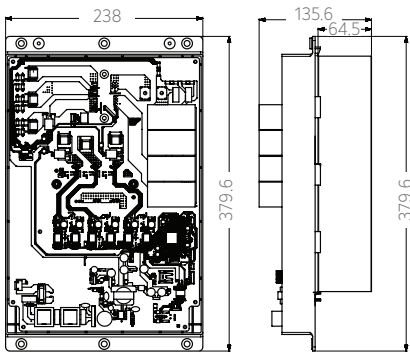


· A*07S101A

[Unit : mm]



· A*07T101A

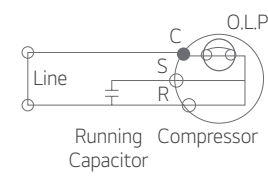




ACCESSORIES AND PACKING INFORMATION

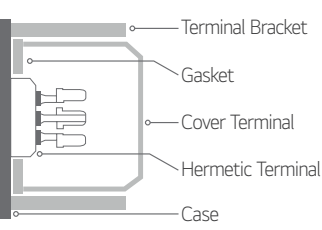
Wiring Diagram

1 HP

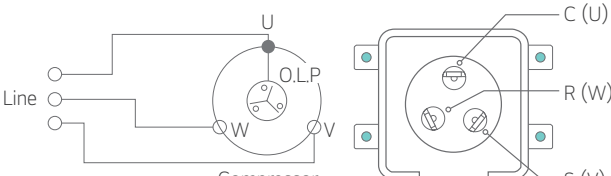


* O.L.P : Over Load Protector

Cover Terminal Fitting

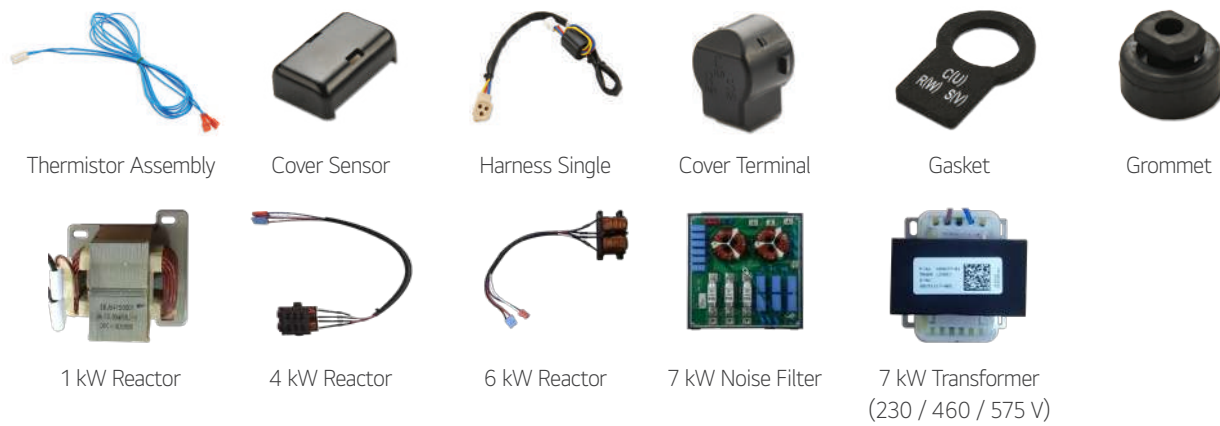


3 HP



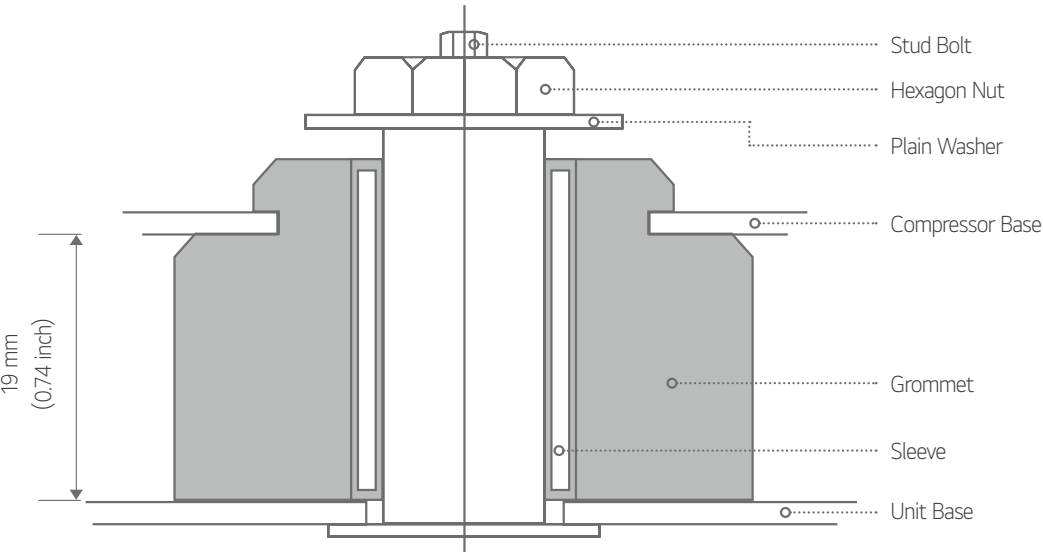
* C.S.R mark is embossed on a Cover terminal.

Accessory Parts



Note : 4 kW Drive has on board noise filter.

Mounting



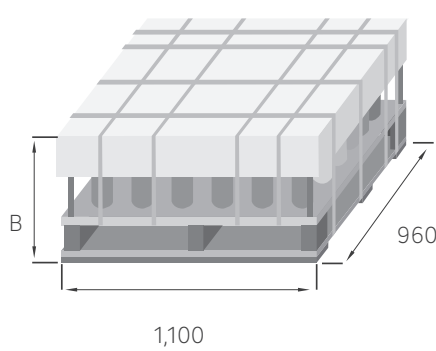
Packing & Container Stuffing Quantity

Items	1 Step pallet		2 Steps pallet		1 Container (20 ft)				
	Packing Quantity	Size	Packing Quantity	Size	Packing Quantity	Pallet Quantity			
		B		B		Step 1	Step 2	Accessory	Total
APG / APH / YPH / APM / YPM	12	560	24	980 ↓	576	0	24	0	24
	16	560	32	980 ↓	640	0	20	0	20
ABG / ABH / YBH / ABM / YBM	12	560	24	980 ↓	432	0	18	0	18
	16	560	32	980 ↓	448	0	14	0	18
ARA	12	-	24	985 ↓	408	14	10	1	25
JB / JQ / PJQC	9	-	18	985 ↓	315	35	-	1	36

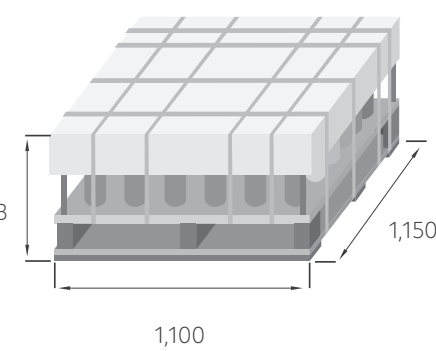
Note 1 : Only available 1 Step pallet for HSS.

Note 2 : Packing conditions are subjects to change without notice.

Packing Quantity 12, 9



Packing Quantity 16



[Unit : mm]