RECIPROCATING
COMPRESSOR

COMPRESSOR TECHNOLOGY
FOR REFRIGERATION

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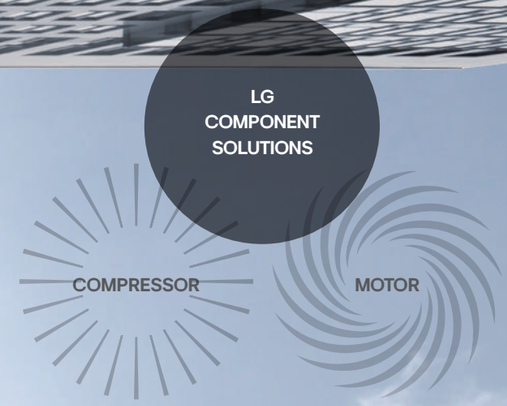
YUYUE
REFRIGERATED COMPRESSOR

LG

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.

Sales Office / Production Site

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

Korea	Changwon
China	Taizhou
	Tianjin
	Nanjing
	Qinhuangdao
India	Noida
Thailand	Rayong
Mexico	Monterrey

SALES OFFICE SITE

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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Ultra Compact Reciprocating Compressor

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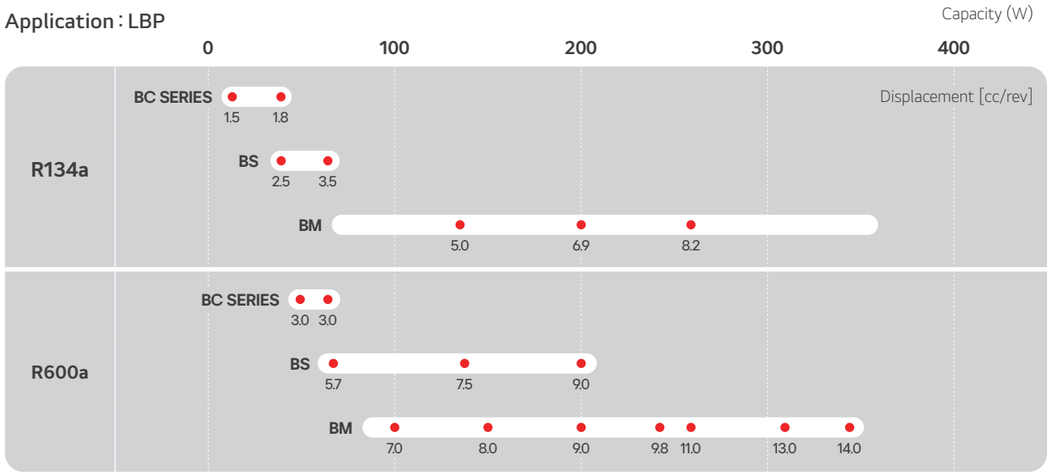
PRODUCT RANGE

VARIABLE SPEED

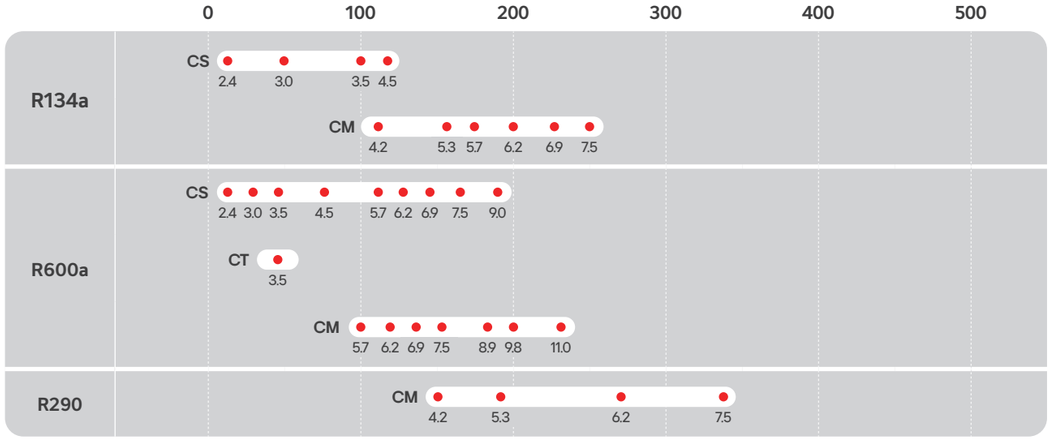
Application : LBP



※ Test Condition : ASHRAE / Evaporating temperature : -23.3°C / Condensing temperature : 54.4°C

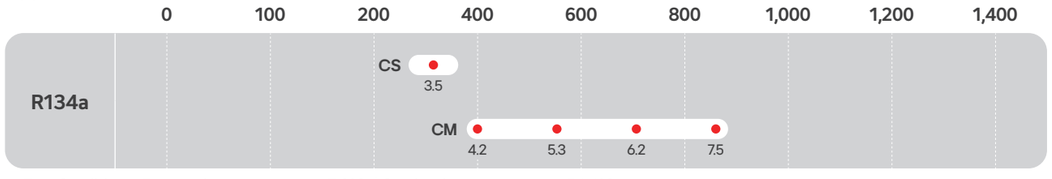
FIXED SPEED

Application : LBP



※ Test Condition : ASHRAE / Evaporating temperature : -23.3°C / Condensing temperature : 54.4°C

Application : HBP



※ Test Condition : Evaporating temperature : 7.2°C / Condensing temperature : 54.4°C

NOMENCLATURE

B M K 090 N A M V

PRODUCT TYPE

B : Variable speed
C : Fixed speed

SIZE*

C : 95 mm
S : 135 mm
T : 145 mm
M : 158 mm

* Compressor upper shell width size

GENERATION CODE

(A-Z)

CAPACITY

Displacement
(ex : 098=9.8cc/rev)

REFRIGERANT

L : R134a
H : R134a HBP
N : R600a
P : R290

OPERATING TYPE

Code	Operating type
G	RSIR
M	RSCR
F	CSIR
H	CSR
K	RSIR
N	RSCR
P	CSIR
R	CSR

RATED VOLTAGE & FREQUENCY

Code	Voltage	Hz
A	100	50 / 60
B	220	50 / 60
C	115	60
D	220	60
E	220 - 240	50
F	127	60
J	220	50
K	110	60
L	240	50
P	110	50
Q	110 - 115	60
R	110 - 127	60
S	200 - 220	50
	220	60
T	220 - 240	50
	220	60
U	115 - 127	60
M	220 - 240	50 / 60
N	115 - 127	50 / 60

IMPROVEMENT ORDER

A / B / C : Cu Wire
H / J : Al Wire

SPECIFICATION

Variable Speed R600a [1 of 5]

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance				
									Capacity			EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R600a	BSA	BSA057NAMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,260 - 4,500	4,500	126	501	147	5.94	1.74
								3,000	87	344	101	6.35	1.86
								1,800	54	215	63	6.48	1.90
								1,380	40	160	47	5.94	1.74
		BSA057NHMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,320 - 4,500	4,500	126	502	147	5.66	1.66
								3,600	101	399	117	5.87	1.72
								1,800	54	215	63	6.04	1.77
								1,500	44	174	51	5.84	1.71
								1,380	40	160	47	5.67	1.66
		BSA057NCVV	BLDC	12 / 24	-	ASHRAE -23.3 °C / 54.4 °C	2,100 - 3,900	3,900	107	423	124	4.54	1.33
								2,100	57	226	66	4.74	1.39
		BSA075NBMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,320 - 4,500	4,500	165	655	192	5.66	1.66
								3,000	117	464	136	5.97	1.75
								1,800	71	283	83	6.11	1.79
								1,320	51	201	59	5.80	1.70
		BSA075NHMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,320 - 4,500	4,500	165	655	192	5.63	1.65
								3,000	120	478	140	5.90	1.73
								1,800	71	283	83	5.94	1.74
								1,320	51	201	59	5.32	1.56
		BSA090NAMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,260 - 4,500	4,500	194	768	225	5.46	1.60
								3,000	140	556	163	6.11	1.79
								1,980	95	375	110	6.41	1.88
								1,800	86	341	100	6.48	1.90
								1,260	61	242	71	6.11	1.79
		BSA090NJMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,260 - 4,500	4,500	194	768	225	5.19	1.52
								3,000	140	556	163	5.60	1.64
								1,800	86	341	100	5.80	1.70
								1,260	58	232	68	5.39	1.58

Variable Speed R600a [2 of 5]

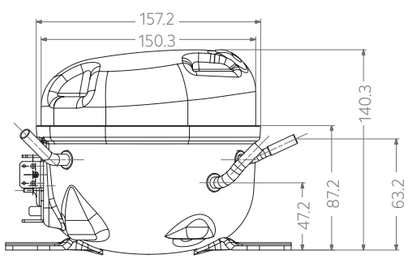
Application : LBP

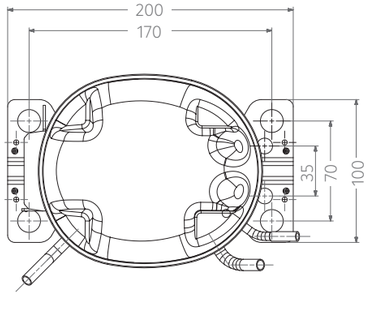
Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance				
									Capacity			EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R600a	BSD	BSD075NHMV*	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,260 - 4,320	4,320	159	631	185	5.94	1.74
								3,000	118	467	137	6.38	1.87
								1,800	71	283	83	6.55	1.92
								1,260	49	194	57	6.28	1.84
		BSD075NAMV*	BLDC	220 - 240	50 / 60		1,260 - 4,320	4,320	159	631	185	6.18	1.81
								3,000	118	467	137	6.59	1.93
								1,800	71	283	83	6.79	1.99
								1,260	49	194	57	6.41	1.88
		BSD090NHMV	BLDC	220 - 240	50 / 60		1,260 - 4,320	4,320	196	778	228	5.94	1.74
								3,000	145	577	169	6.55	1.92
								1,800	88	348	102	6.62	1.94
								1,260	60	239	70	6.38	1.87
		BSD090NAMV*	BLDC	220 - 240	50 / 60		1,260 - 4,320	4,320	196	778	228	6.18	1.81
								3,000	145	577	169	6.59	1.93
								1,800	88	348	102	6.72	1.97
								1,260	60	239	70	6.28	1.84

* Static cooling

· BSA

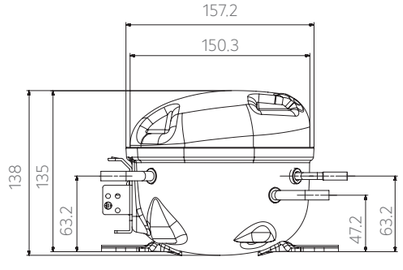
[Unit : mm]

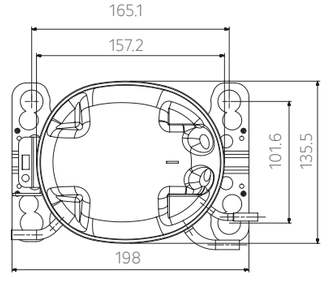




· BSD

[Unit : mm]





SPECIFICATION

Variable Speed R600a [3 of 5]

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance			
									Capacity		EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Watts	Btu/Whr	W/W
R600a	BMG	BMG089NAMV	BLDC	220 - 240	50 / 60	ISO -29 °C / 31 °C	1,200 - 4,500	4,500	168	195	6.80	1.99
								3,600	146	170	7.40	2.17
								1,800	76	88	8.50	2.49
								1,500	63	73	8.50	2.49
		BMG089NHMV	BLDC	220 - 240	50 / 60	ISO -29 °C / 31 °C	1,200 - 4,500	4,500	168	195	6.40	1.87
								3,600	146	170	6.90	2.02
								1,800	76	88	7.70	2.26
								1,500	63	73	7.50	2.20
		BMG110NHMV	BLDC	220 - 240	50 / 60	ISO -29 °C / 31 °C	1,200 - 4,500	4,500	202	235	6.10	1.79
								3,600	172	200	6.60	1.93
								1,800	93	108	7.50	2.20
								1,500	77	90	7.70	2.26
						ASHRAE -23.3 °C / 54.4 °C		4,500	235	273	5.19	1.52
								3,000	176	205	5.63	1.65
								1,500	89	104	5.63	1.65
		BMG110NAMV	BLDC	220 - 240	50 / 60	ISO -29 °C / 31 °C	1,200 - 4,500	4,500	202	235	6.60	1.93
								3,600	172	200	7.30	2.14
								1,800	93	108	8.40	2.46
								1,500	77	90	8.40	2.46
						ASHRAE -23.3 °C / 54.4 °C		4,500	235	273	5.60	1.64
								3,000	176	205	6.35	1.86
								1,500	89	104	6.59	1.93
	BMH	BMH130NBMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	1,020 - 4,500	4,500	273	317	5.46	1.60
								3,600	241	281	5.63	1.65
								3,000	206	240	6.04	1.77
								1,800	127	148	6.24	1.83
								1,020	71	82	5.77	1.69
		BMH130NCMV	BLDC	220 - 240	50 / 60		1,020 - 4,500	4,500	267	310	5.36	1.57
								3,000	203	236	6.25	1.83
								1,800	127	148	6.72	1.97
								1,020	71	83	6.28	1.84

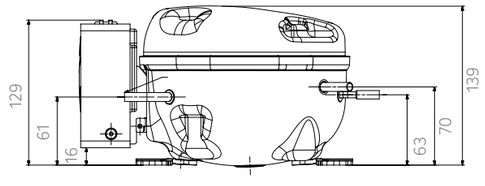
Variable Speed R600a [4 of 5]

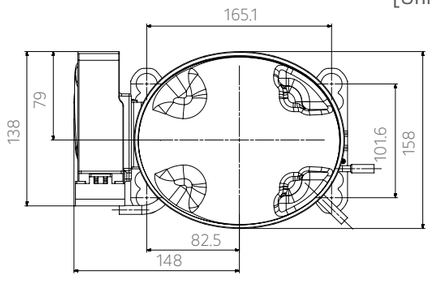
Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance			
									Capacity		EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Btu/Whr	Btu/Whr	W/W
R600a	BMK	BMK070NAMV	BLDC	220 - 240	50 / 60	SYSTEM -26 °C / 38 °C	900 - 4,500	4,500	151	175	6.80	1.99
								2,400	87	101	7.75	2.27
								1,800	65	75	7.90	2.32
								1,020	35	41	7.37	2.16
		BMK070NKMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 °C / 54.4 °C	900 - 4,500	4,500	155	180	6.31	1.85
								3,000	109	127	6.66	1.95
								1,800	66	77	6.76	1.98
								1,020	37	43	5.80	1.70
								900	31	36	6.11	1.79
		BMK090NAMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	197	229	5.73	1.68
								1,800	88	102	7.03	2.06
								1,020	48	56	6.38	1.87
		BMK110NAMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	254	295	5.90	1.73
								3,000	176	205	6.62	1.94
								1,800	110	128	6.99	2.05
								1,020	59	69	6.31	1.85
		BMK110NKMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	237	275	5.63	1.65
								3,000	205	205	6.52	1.91
								1,800	108	125	6.72	1.97
								1,020	52	60	5.39	1.58
		BMK110NJMV	BLDC	220 - 240	50 / 60		900 - 4,080	4,080	218	254	-	-
								3,000	172	200	6.14	1.80
								1,800	108	125	6.31	1.85
								900	52	60	5.12	1.50
		BMK140NAMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	314	365	5.46	1.60
								3,000	194	226	6.31	1.85
								1,800	142	165	6.96	2.04
								1,020	82	95	6.62	1.94

· BMG / BMH

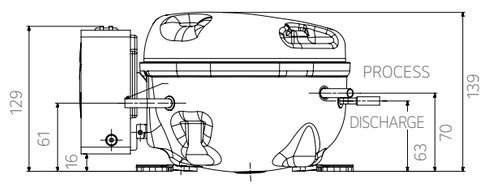
[Unit : mm]

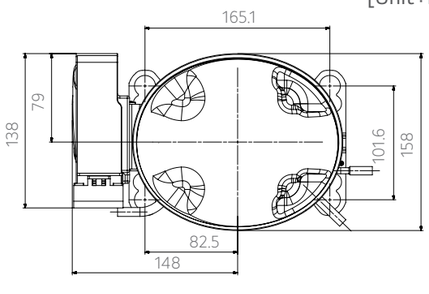




· BMK

[Unit : mm]





SPECIFICATION

Variable Speed R600a [5 of 5]

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance			
									Capacity		EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Watts	Btu/Whr	W/W
R600a	BMK	BMK090NEMV	BLDC	220 - 240	50 / 60	SYSTEM -26 °C / 38 °C	900 - 4,500	4,500	194	225	6.36	1.86
								1,800	85	99	8.50	2.49
								1,020	48	56	8.45	2.47
		BMK110NEMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	228	265	6.30	1.85
								1,800	103	120	8.40	2.46
								900	52	60	8.10	2.37
		BMK140NEMV	BLDC	220 - 240	50 / 60		1,020 - 4,200	4,200	272	316	5.91	1.73
								1,800	138	160	8.40	2.46
								1,200	94	109	8.65	2.53
		BMK090NLMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	194	225	6.13	1.80
								1,800	85	99	8.10	2.37
								1,020	48	56	8.15	2.39
		BMK110NLMV	BLDC	220 - 240	50 / 60		900 - 4,500	4,500	228	265	6.08	1.78
								1,800	103	120	8.10	2.37
								900	52	60	7.81	2.29
		BMK140NHMV	BLDC	220 - 240	50 / 60		1,020 - 4,200	4,200	272	316	5.70	1.67
								1,800	138	160	8.10	2.37
								1,200	94	109	8.34	2.44

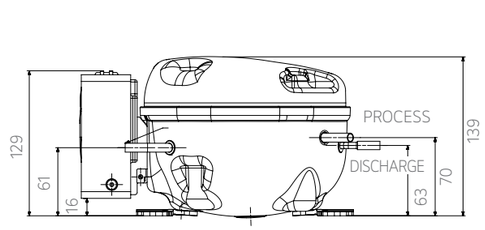
Variable Speed R134a

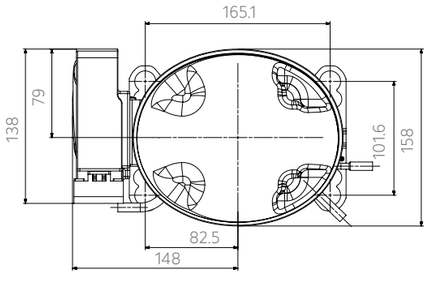
Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance				
									Capacity			EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R134a	BSA	BSA025LCVV	BLDC	12 / 24	-	ASHRAE -23.3 °C / 54.4 °C	2,100 - 3,900	3,900	61	242	71	4.16	1.22
								2,100	30	119	35	3.96	1.16
		BSA035LCVV	BLDC	12 / 24			2,100 - 3,900	3,900	104	413	121	4.30	1.26
								2,100	57	226	66	4.16	1.22

· BMK

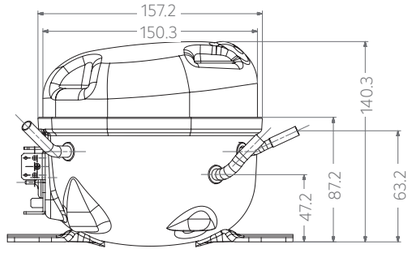
[Unit : mm]

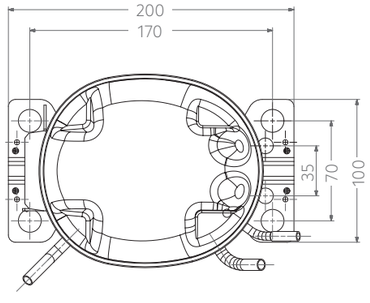




· BSA

[Unit : mm]





SPECIFICATION

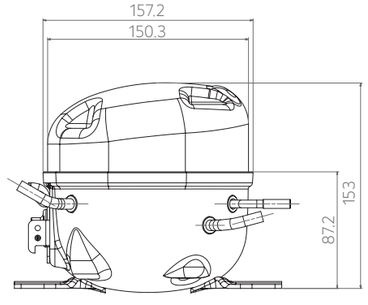
Fixed Speed R600a [1 of 2]

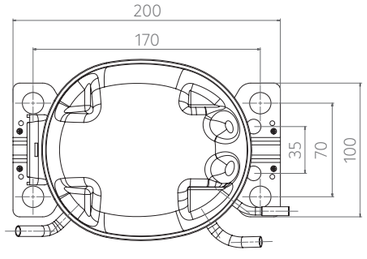
Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Performance				
							Capacity			EER	COP
				V	Hz		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R600a	CSB	CSB024LAAG	RSIR	100	50	ASHRAE -23.3 °C / 54.4 °C	45	179	52	2.88	0.84
				100	60		54	214	63	3.25	0.95
		CSB024LHMG	RSIR	220 - 240	50		45	179	52	3.10	0.91
				220 - 240	60		54	214	63	3.60	1.05
		CSB024LJMG	RSIR	220 - 240	50		36	143	42	2.75	0.81
				220 - 240	60		47	187	55	3.42	1.00
		CSB024LHUG	RSIR	100 - 127	60		54	214	63	3.00	0.88
		CSB035NHAG	RSIR	100	50		45	179	52	2.59	0.76
				100	60		54	214	63	3.53	1.03
		CSB035NHCG	RSIR	115	60		54	215	63	4.10	1.20
		CSB035NKDG	RSIR	220	60		54	215	63	4.10	1.20
		CSB035NKEG	RSIR	220 - 240	50		47	188	55	4.10	1.20
		CSB035NKMG	RSIR	220 - 240	50		46	181	53	3.93	1.15
				220 - 240	60		54	215	63	4.27	1.25
		CSB045NHAG	RSIR	110	50		64	253	74	4.37	1.28
				110	60		74	294	86	4.95	1.45
		CSB045NKMG	RSIR	220 - 240	50		60	239	70	4.68	1.37
				220 - 240	60		72	287	84	4.85	1.42
		CSB057NHCG	RSIR	115	60		103	410	120	5.12	1.50
		CSB057NHDM	RSCR	220	60		103	409	120	5.43	1.59
		CSB057NHEG	RSIR	220 - 240	50		86	341	100	5.02	1.47
		CSB057NJAM	RSCR	100	50		86	341	100	5.05	1.48
				100	60		105	417	122	5.60	1.64
		CSB057NJEG	RSIR	220 - 240	50		86	341	100	4.43	1.30
		CSB062NSJM	RSCR	220	50		99	393	115	5.46	1.60
		CSB069NHXM	CSIR	100	50		110	437	128	4.95	1.45
				100	60		129	512	150	5.43	1.59
		CSB069NJEG	RSIR	220 - 240	50		108	429	126	4.78	1.40
		CSB075NJEG	RSIR	220 - 240	50		120	475	139	4.65	1.36
		CSB075NAEM	RSCR	220 - 240	50		116	461	135	5.53	1.62
		CSB090NJJM	RSIR	220	50		138	546	160	4.47	1.31

· CSB

[Unit : mm]





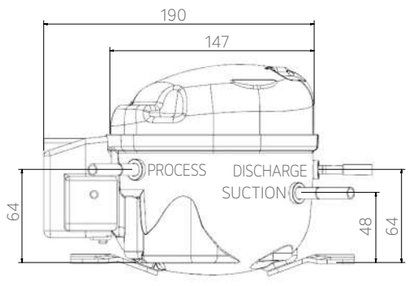
Fixed Speed R600a [2 of 2]

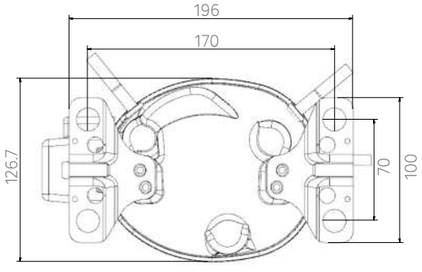
Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Performance				
							Capacity			EER	COP
				V	Hz		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R600a	CTA	CTA035NKMG	RSIR	100	50	ASHRAE -23.3 °C / 54.4 °C	46	181	53	3.41	1.00
				100	60		54	214	63	4.10	1.20
	CMA	CMA057NHEM	RSCR	220 - 240	50	ASHRAE -23.3 °C / 54.4 °C	84	333	98	6.15	1.80
		CMA062NHDM	RSCR	220	60		111	440	129	5.80	1.70
		CMA062NHEM	RSCR	220 - 240	50		96	382	112	6.32	1.85
		CMA062NSEM	RSCR	220 - 240	50		96	382	112	5.29	1.55
		CMA069NJEM	RSCR	220 - 240	50		105	417	122	5.50	1.61
		CMA075NKJG	RSIR	220	50		120	475	139	4.78	1.40
		CMA089NBEM	RSCR	220 - 240	50		141	560	164	6.35	1.86
		CMA089NHDM	RSCR	220	60		166	659	193	6.08	1.78
		CMA089NHJM	RSCR	220	50		139	553	162	5.57	1.63
		CMA098NHEM	RSCR	220 - 240	50		156	618	181	6.32	1.85
		CMA098NHJM	RSCR	220	50		155	615	180	5.57	1.63

· CTA

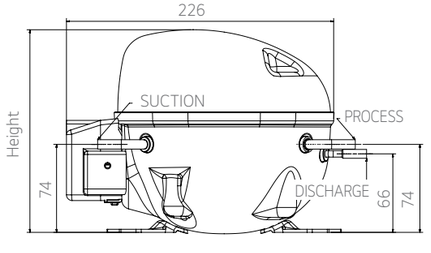
[Unit : mm]

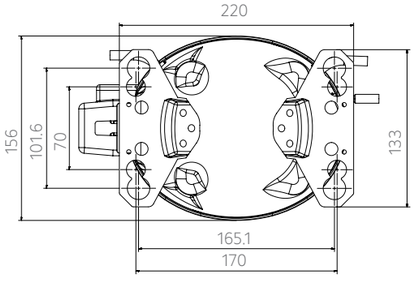




· CMA

[Unit : mm]





SPECIFICATION

Fixed Speed R134a [1 of 2]

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Performance				
							Capacity			EER	COP
				V	Hz		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R134a	CSB	CSB024LAAG	RSIR	100	50	ASHRAE -23.3 °C / 54.4 °C	45	179	52	2.88	0.84
				100	60		54	214	63	3.25	0.95
		CSB024LHAG	RSIR	100	50		45	179	52	3.08	0.90
				100	60		54	214	63	3.50	1.03
		CSB024LHMG	RSIR	220 - 240	50		45	179	52	3.10	0.91
				220 - 240	60		54	214	63	3.60	1.05
		CSB024LJMG	RSIR	220 - 240	50		36	143	42	2.75	0.81
				220 - 240	60		47	187	55	3.42	1.00
		CSB024LHUG	RSIR	100 - 127	60		54	214	63	3.00	0.88
		CSB024LJAG	RSIR	100	50		45	179	52	2.59	0.76
				100	60		54	214	63	3.41	1.00
		CSB030LHAG	RSIR	100	50		65	258	76	3.58	1.05
				100	60		75	298	87	3.82	1.12
		CSB030LHMG	RSIR	220 - 240	50		65	258	76	3.24	0.95
				220 - 240	60		75	298	87	3.79	1.11
		CSB030LHQG	RSIR	110 - 115	60		75	298	87	3.52	1.03
		CSB030LKMG	RSIR	220 - 240	50		63	250	73	3.24	0.95
				220 - 240	60		75	298	87	3.79	1.11
		CSB035LHAG	RSIR	100	50		75	298	87	3.31	0.97
				100	60		92	365	107	3.86	1.13
		CSB035LHMG	RSIR	220 - 240	50		77	306	90	3.12	0.91
				220 - 240	60		92	365	107	3.60	1.05
		CSB035LJCM	RSCR	115	60		91	362	106	3.57	1.05
	CMA	CMA042LHCM	RSCR	115	60		110	437	128	4.96	1.45
		CMA042LHDG	RSIR	220	60		109	433	127	4.80	1.41
		CMA042LHEG	RSIR	220 - 240	50		92	365	107	4.62	1.35
		CMA042LHEM	RSCR	220 - 240	50		92	365	107	4.61	1.35

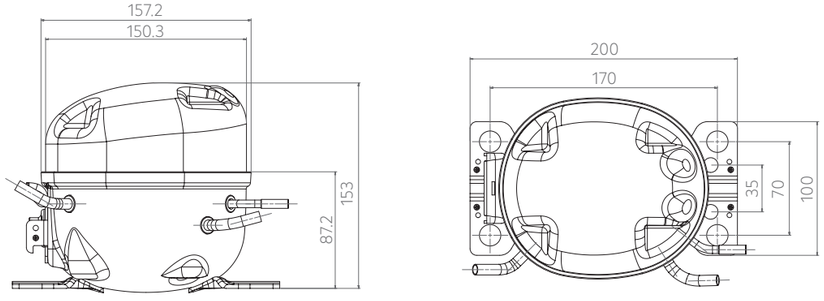
Fixed Speed R134a [2 of 2], R290

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Performance				
							Capacity			EER	COP
				V	Hz		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W
R134a	CMA	CMA053LHCG	RSIR	115	60	ASHRAE -23.3 °C / 54.4 °C	148	588	172	4.82	1.41
		CMA053LHCM	RSCR	115	60		148	588	172	5.07	1.48
		CMA053LHDM	RSCR	220	60		146	580	170	4.90	1.44
		CMA053LHEG	RSIR	220 - 240	50		125	496	145	4.68	1.37
		CMA053LHEM	RSCR	220 - 240	50		125	496	145	4.89	1.43
		CMA057LCDG	RSIR	220	60		160	635	186	5.29	1.55
		CMA057LHEG	RSIR	220 - 240	50		138	548	160	4.83	1.41
		CMA057LHEM	RSCR	220 - 240	50		138	548	160	4.98	1.46
		CMA057LKTM	RSCR	220 - 240	50		138	548	160	4.85	1.42
				220	60		160	635	186	5.29	1.55
		CMA062LHCM	RSCR	115	60		175	695	203	4.89	1.43
		CMA062LHEM	RSCR	220 - 240	50		153	607	178	5.19	1.52
		CMA069LAEM	RSCR	220 - 240	50		165	655	192	5.50	1.61
		CMA069LATM	RSCR	220 - 240	50		168	667	195	5.16	1.51
				220	60		202	802	235	5.50	1.61
		CMA069LHEM	RSCR	220 - 240	50		168	667	195	5.20	1.52
		CMA069LKEM	RSCR	220 - 240	50		161	639	187	5.15	1.51
		CMA069LKDM	RSCR	220	60		190	754	221	5.05	1.48
		CMA069LJDG	RSIR	220	60		190	754	221	4.84	1.42
		CMA075LAEM	RSCR	220 - 240	50		185	734	215	5.69	1.67
		CMA075LATM	RSCR	220 - 240	50		185	734	215	5.17	1.51
				220	60		222	881	258	5.47	1.60
		CMA075LKJM	RSCR	220	50		191	758	208	5.70	1.42
		CMA075LBEM	RSCR	220 - 240	50		191	758	222	5.70	1.67
R290	CMA	CMA062PHJG	RSIR	220	50	ASHRAE -23.3 °C / 54.4 °C	220	873	256	4.37	1.28
		CMA075PHEM	RSCR	220 - 240	50		288	1,143	335	5.12	1.50
		CMA075PHJM	RSCR	220	50		285	1,130	331	4.98	1.46
		CMA053PJJM	RSCR	220	50		175	695	203	4.37	1.28

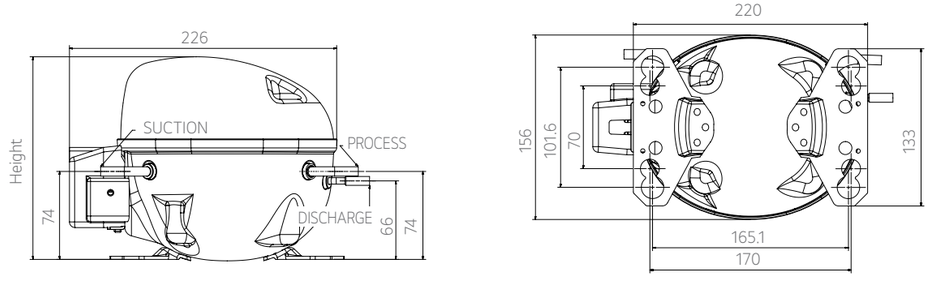
· CSB

[Unit : mm]



· CMA

[Unit : mm]



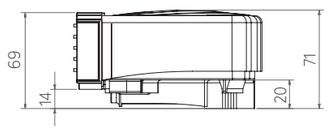
SPECIFICATION

Drive

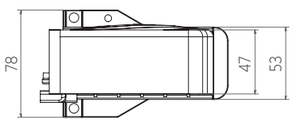
		10A IPM (Medium)	5A IPM (Small)	5A IPM (Compact)
Controller	Rated input power	220-240 Vac	220-240 Vac	220-240 Vac
	Maximum input current	3.0A	2.0A	1.0A
	Maximum input power	260W	220W	100W
	Operating compressor Hz	20-75 Hz	17 - 75 Hz	45-70 Hz
	Compressor connection color	Black (U) / Blue (V) / Yellow (W)	Black (U) / Blue (V) / Yellow (W)	Black (U) / Blue (V) / Yellow (W)
	Ambient operating temperature	-5 - 43 °C	-5 - 43 °C	-5 - 38 °C
	Storage temperature	-25 - 85 °C	-25 - 85 °C	-25 - 85 °C
	Max. storage relative humidity	85%	85%	85%
	PCBA Size	110 * 100 mm	110 * 94 mm	80 * 75 mm (PCBA type)
Noise Filter	Inductance	4A, 26mH	5A, 10mH	None
OLP	Type	External type (3/4")	External type (4MPS)	External type (4MPS)

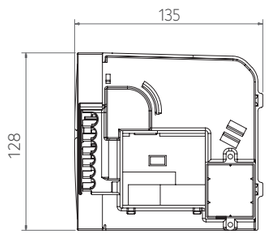
· 10A IPM (Medium)

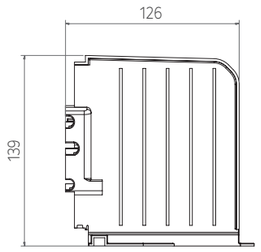
Attached controller



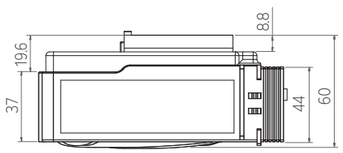
Detached controller

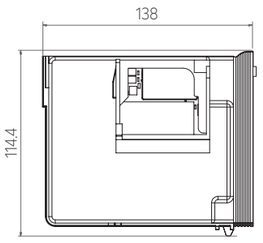






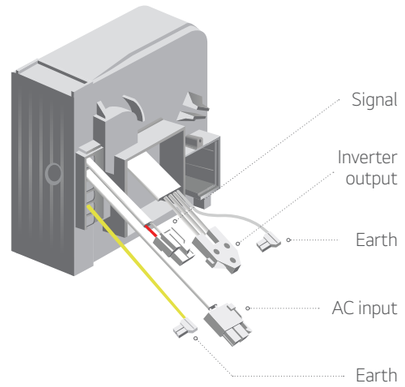
· 5A IPM (Small)

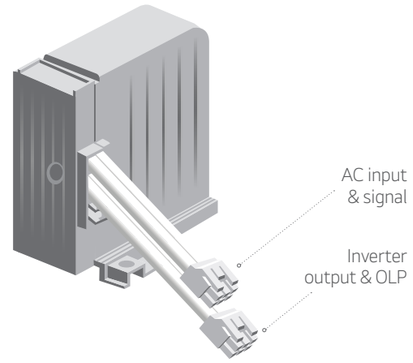




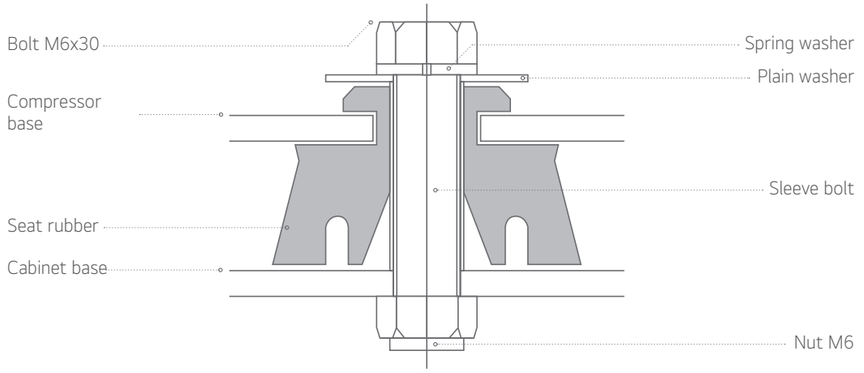
ACCESSORIES AND PACKING INFORMATION

Attached / Detached Controller





Mounting

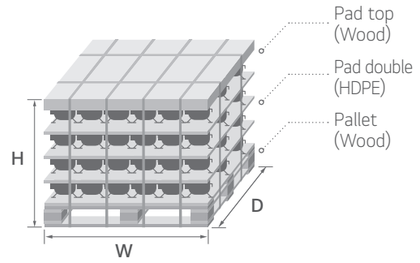


Packing & Container Stuffing Quantity

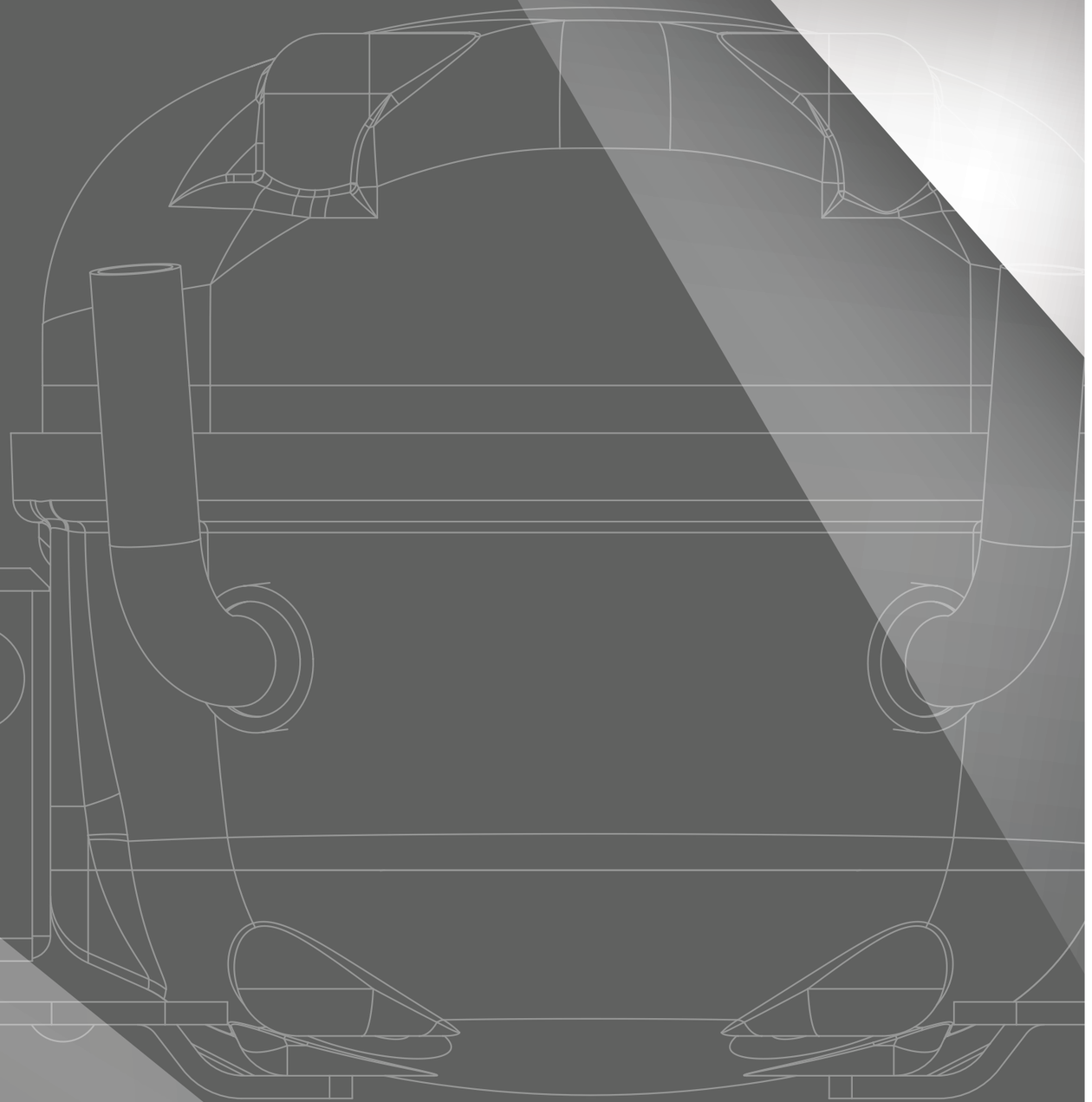
[Unit : mm]

		LX/LQ	CSB	CMA	BSA	BMA	BMG/H/K
Dimension	W	1,100	1,100	1,100	1,100	1,100	1,100
	D	800	800	800	800	800	800
	H(Max)	1,000	1,120	1,080	900	916	916
Q'ty		64	150	90	150	90	90
Layout		4 x 4 x 4	5 x 5 x 5	6 x 3 x 5	5 x 5 x 6	6 x 3 x 5	6 x 3 x 5

Stacking : 3 pallets max. compressor
Height : Based on wooden type



ULTRA COMPACT RECIPROCATING COMPRESSOR



SPECIFICATION

Ultra Compact Reciprocating Compressor

Application : LBP

Refrigerant	Series	Model	Motor Type	Voltage	Frequency	Test Condition	Speed Range	Speed	Performance			
									Capacity		EER	COP
				V	Hz		RPM	RPM	Kcal/hr	Watts	Btu/Whr	W/W
R600a	BCA	BCA030NAMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,400 - 4,200	4,200	52	61	4.70	1.38
								3,600	45	53	4.63	1.36
								3,000	37	42	3.88	1.14
								2,400	28	32	3.90	1.14
		BCA030NBWV	BLDC	100 - 127	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,400 - 4,200	4,200	52	61	4.25	1.24
								3,600	45	53	4.23	1.24
								3,000	37	42	3.88	1.14
								2,400	28	32	3.41	1.00
		BCA030NCMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,400 - 4,500	4,500	56	65	4.40	1.29
								4,200	52	61	4.50	1.32
								3,600	44	51	4.36	1.28
								2,400	28	32	3.90	1.14
	BCK	BCK035NHMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	65	75	4.63	1.36
								3,600	52	61	4.63	1.36
								3,000	45	52	4.50	1.32
								2,400	32	37	3.90	1.14
R134a	BCA	BCA015LCVV	BLDC	12/24 DC	-	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	34	39	3.89	1.14
								3,600	29	34	3.90	1.14
								3,000	25	29	3.86	1.13
								2,700	22	26	3.83	1.12
		BCA018LBVV *Obsolete	BLDC	12/24 DC	-	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	42	49	4.05	1.19
								3,600	28	33	3.45	1.01
								3,000	25	29	3.16	0.92
								2,700	23	27	3.00	0.88
		BCA018LCVV	BLDC	12/24 DC	-	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	44	51	4.08	1.19
								3,600	35	41	4.09	1.20
								3,000	29	34	3.93	1.15
								2,700	26	31	3.83	1.12
		BCA018LAMV	BLDC	220 - 240	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,400 - 4,200	4,200	40	46	3.80	1.11
								3,600	33	38	3.71	1.09
								3,000	26	30	3.16	0.92
								2,400	19	22	2.50	0.73
		BCA018LBWV	BLDC	100 - 127	50 / 60	ASHRAE -23.3 ℃ / 54.4 ℃	2,400 - 4,200	4,200	40	46	3.73	1.09
								3,600	33	38	3.63	1.06
								3,000	26	30	3.12	0.91
								2,400	19	22	2.50	0.73
	BCK	BCK015LCVV	BLDC	12/24 DC	-	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	38	44	4.47	1.31
								3,600	31	36	4.40	1.31
								3,000	26	30	4.36	1.28
								2,400	23	27	3.93	1.15
		BCK025LAVV	BLDC	12/24 DC	-	ASHRAE -23.3 ℃ / 54.4 ℃	2,700 - 4,500	4,500	46	54	4.51	1.32
								3,600	38	44	4.51	1.32
								3,000	32	37	4.44	1.30
								2,700	28	32	3.93	1.15

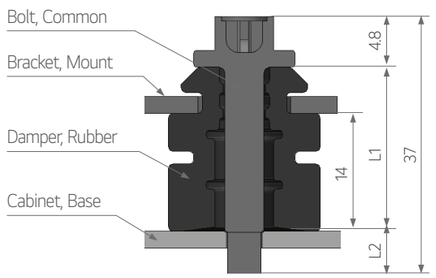
※ Test Conditions : ASHRAE LBP (Rated Point) : Teva : -23.3 ℃ / Tcond : 54.4 ℃

Electrical Data

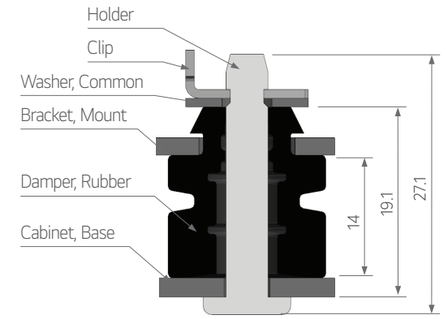
Series	AC	DC
Input voltage range	187 - 264 Vac	12 / 24 Vdc (9.0 - 31.5 V)
Input frequency	50 / 60 Hz	-
Maximum drive input current	1 Arms	15 Apeak
Maximum drive input power	100W	100W
Maximum drive input power in maximum load	100W (PCB Parts temperature 100 ℃↓)	100W (PCB Parts temperature 100 ℃↓)
Maximum motor input current	0.63 Arms	15 Apeak
Maximum motor input power	95W	100W
Motor input frequency range	2,400 - 4,500rpm	40 to 75 Hz (2,400 - 4,500rpm)

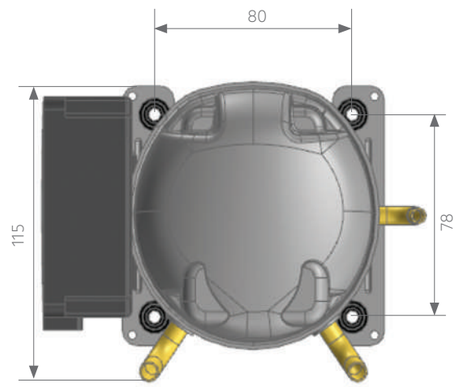
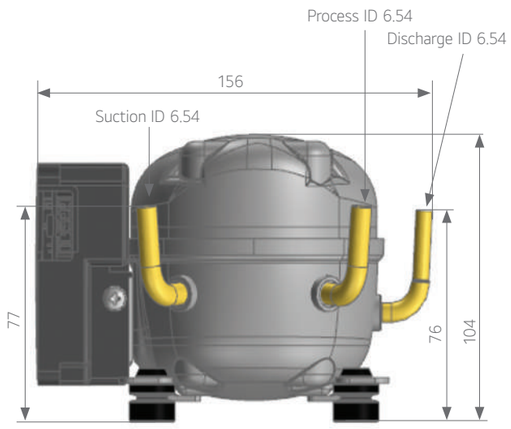
Mounting

Bolt Type



Snap on Type



Dimensions

[Unit : mm]