

Unparalleled Performance that's Environmentally Friendly
Imagine Sustainable Power



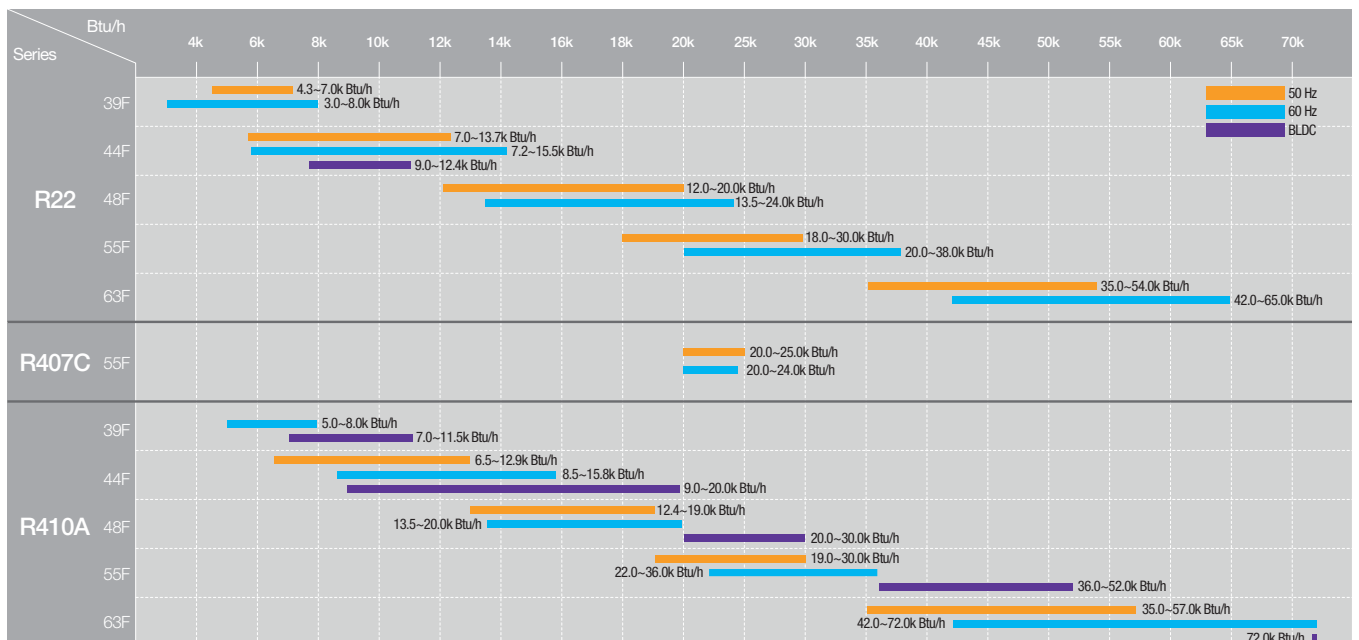
SAMSUNG

Introduction

Brief History

1990	Established rotary compressor plant in Suwon, Korea
1993	Approved and registered by ISO 9001
1995	Developed AC inverter compressors
1996	Approved and registered by ISO 14000
1997	Developed R407C compressors Developed Super EER 44 frame compressors
2001	Developed R410A compressors and large volume 55 frame compressors Accomplished accumulated production 10 million
2002	Developed single vane BLDC compressors, small volume 39 frame compressors
2003	Started production in Suzhou, China
2004	Developed twin vane BLDC and extra-large volume 63 frame compressors
2005	Increased production capacity to 7 million
2006	Moved all Korean Line to Suzhou, China Accomplished accumulated production 30 million
2007	Increased production capacity to 8 million
2008	Sine-Wave control BLDC full line up
2010	Developed copper alternative motor Accomplished accumulated production of 50 million
2012	Developing 63/52 frame scroll compressors

Products Range



* Tested under ASHRAE-T condition

Model Identification

Refrigerant		Frame		Cooling Capacity (×100 Btu/h)	Miscellaneous Change	Foot Position	
UR	R22	9	39 Frames	Ex/) 080 : 8,000 Btu/h	A:Basic	Tri-angle foot	
UF	R407C	4	44 Frames		OLD B:1st changed	D	15°
UG	R410A	8	48 Frames		C:2nd changed	E	30°
UB	R744	5	55 Frames		NEW A,B,C:SPEC table	G	60°
UX	R134	3	63 Frames			J	90°(-30°)
						K	105°(-15°)
				S		40°	
						Rectangular foot	
					M	15°	
					F	45°	
					H	60°	
					L	75°	



Major Change (Pump Ass'y)	
A	Basic
B	Taller
C	Shorter
T	Twin
D	Improved efficiency
V	Capacity Power Source

Power Source	
H	1 φ 115V, 60Hz
I	1 φ 208 - 230V, 60Hz
M	1 φ 200 - 220V, 50Hz
J	1 φ 220 - 240V, 50Hz
D	1 φ 220V, 50Hz
G	1 φ 127V, 60Hz
K	1 φ 100V, 50/60Hz
Y	1 φ 265V, 60Hz
Q	3 φ 115V, 60Hz(44F AC INV)
R	3 φ 125/130V, 60Hz(48F AC INV)
A	3 φ 380 - 440V, 60Hz
B	3 φ 380 - 420V, 50Hz
C	3 φ 220V, 60Hz
F	3 φ BLDC(Nd)
L	3 φ BLDC(Ferrite)

Model Type	
V,S	High EER
U,X	Super EER
T	Tropical
N	Normal
H	Tropical

Accumulator			
	Out dia. x Height (mm)	effective (cc)	Remak
39F	A φ 31.8 × 172.8	50	
	B φ 41.3 × 190.3	87	
44F	C φ 41.3 × 222.0	167	
	D φ 58.4 × 223.0	300	44A(Inverter)
44F	F φ 47.6 × 204.5	160	
	T φ 47.6 × 204.5	160	
48F	L φ 58.4 × 237.0	340	
	G φ 54.5 × 218.0	300	
48F	H φ 77.4 × 260.0	620	
	W φ 77.0 × 271.5	600	Twin
48F	U φ 77.0 × 282.0	580	Twin
	M φ 77.4 × 290.0	750	Split type A/C
55F	N φ 77.4 × 264.0	620	Window type A/C
	K φ 77.4 × 295.8	650	Twin, DRC
55F	X φ 90.0 × 303.8	890	Twin
	2 φ 90.0 × 270.9	855	Split type A/C
55F	3 φ 77.0 × 350.8	900	Twin
	P φ 58.4 × 223.0	300	
G4F	R φ 77.4 × 217.0	500	G4C BLDC
	Q φ 77.0 × 260.6	570	G4T BLDC, DRC
63F	4 φ 77.0 × 273.5	600	Twin
	E φ 77.0 × 344.8	760	R410A/R22
63F	J φ 77.4 × 351.0	760	R22
	V φ 90.0 × 351.0	1,100	R22
63F	Y φ 90.0 × 344.8	1,100	R410A/R22
	Z φ 15.9 × 190.0	-	Tandem
44F	Z φ 15.9 × 225.0	-	Tandem
55F	Z φ 19.1 × 260.0	-	Tandem

Specifications

R22 Compressor (60 Hz)

Ref.	Power Source	Model	Displacement		Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	cc	kg	● Mass Production ○ Under develop		
R22	1∅ 115V	UR9A060HS	8.7	6,000	1,758	10.5	3.08	571	210	7.5	1	●	
		UR9B072HS	10.2	7,050	2,066	10.6	3.11	665	230	8.1	6	●	
		UR9B080HS	11.3	8,000	2,345	10.6	3.11	755	230	8.3	5	●	
		UR9C052HS	7.6	5,300	1,553	10.8	3.16	491	210	7.3	9	●	
		UR4A092HU	13.2	9,350	2,740	10.7	3.14	874	300	10.2	2,3	●	
		UR4A098HU	14.1	10,100	2,960	10.8	3.17	935	300	10.5	4	●	
		UR4B110HN	16.1	11,550	3,385	10.6	3.11	1,090	340	11.8	7	●	
		UR4B117HX	16.6	11,900	3,488	10.7	3.14	1,112	340	11.9	8	●	
		UR4B124HX	17.6	12,650	3,707	10.7	3.14	1,182	340	11.9	8	●	
		UR4B135HX	18.7	13,400	3,927	10.6	3.11	1,264	340	11.9	9	●	
	1∅ 208-230V	UR9A052IS	7.6	5,300	1,553	10.6	3.11	500	210	7.5	1,2	●	
		UR9B068IS	9.6	6,700	1,964	10.7	3.14	626	230	8.4	4	●	
		UR9B072IS	10.2	7,050	2,066	10.7	3.14	659	230	8.4	7	●	
		UR9B080IS	11.3	8,000	2,345	10.7	3.13	748	230	8.4	5	●	
		UR4A085IU	12.2	8,600	2,520	10.8	3.17	796	300	10.2	1	●	
		UR4A092IU	13.2	9,350	2,740	10.7	3.14	874	300	10.2	2	●	
		UR4A098IN	14.1	10,260	3,007	10.8	3.17	950	300	11.1	10	●	
		UR4B110IX	16.1	11,500	3,370	10.7	3.14	1,075	340	12.1	11	●	
		UR4B117IX	16.6	11,900	3,488	10.7	3.14	1,112	340	11.8	18	●	
		UR4B124IX	17.6	12,650	3,707	10.6	3.11	1,193	340	12.1	11	●	
		UR4B135IX	18.7	13,400	3,927	10.5	3.08	1,276	340	11.8	8	●	
		UR4D140IX	19.8	14,300	4,191	10.8	3.17	1,324	450	12.9	12	●	
		UR4D155IX	21.7	15,500	4,543	10.6	3.11	1,462	450	12.9	12	●	
		UR8C155IU	21.7	15,800	4,631	10.9	3.19	1,450	540	15.1	3	●	
		UR8C172IN	24.0	17,500	5,129	10.9	3.19	1,606	540	15.6	4	●	
		UR8D185IU	25.8	18,560	5,439	10.8	3.16	1,719	550	15.7	1	●	
		UR8D190IU	26.6	19,200	5,627	11.0	3.22	1,745	550	16.1	5	●	
		UR8D200IU	27.8	20,200	5,920	10.8	3.17	1,870	550	15.7	1	●	
		UR5A200IU	27.9	20,400	5,979	11.1	3.25	1,840	600	19.7	2	●	
		UR5A240IN	33.4	25,000	7,327	10.9	3.20	2,293	500/750	21.0/21.6	3,4	●	
		UR5A260IU	36.2	26,700	7,825	11.0	3.22	2,430	750	20.1	5	●	
		UR5A280IU	39.0	29,500	8,646	11.0	3.23	2,680	800	21.9	1	●	
		UR5A300IU	41.8	31,500	9,232	10.9	3.19	2,890	800	21.8	1	●	
3∅ 380V	UR5T360AU	49.4	36,000	10,551	10.9	3.19	3,303	1,000	23.8	20	●		

Specifications

R22 Compressor (50 Hz)

Ref.	Power Source	Model	Displacement	Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	cc	kg		● Mass Production ○ Under develop
R22	1φ 220-240V	UR9A052JS	9.0	5,200	1,524	10.2	2.99	510	210	7.7	3	●
		UR9C037DS	6.6	3,700	1,084	10.1	2.97	365	210	7.7	8	●
	UR9B066DS	11.3	6,400	1,876	9.9	2.91	645	230	8.1	4	●	
	UR4A080DN	14.1	8,300	2,432	11.0	3.22	755	300	11.5	10	●	
	UR4A085DU	15.0	8,900	2,608	10.3	3.02	864	300	10.8	13	●	
	UR4B092DX	16.1	9,380	2,749	10.8	3.17	868	340	11.9	9	●	
	UR4B102DX	17.6	10,100	2,960	10.2	2.99	990	340	11.8	11	●	
	UR4D115DX	19.8	11,500	3,370	10.7	3.14	1,075	380	12.6	14	●	
	UR4D124DX	21.0	12,200	3,575	10.5	3.08	1,161	450	12.8	15	●	
	1φ 220V	UR8C124DU	21.0	12,400	3,634	11.1	3.25	1,117	540	15.4	6	●
		UR8C129DU	21.7	12,900	3,781	11.2	3.28	1,152	540	15.5	7	●
		UR8D158DU	26.6	15,800	4,631	10.8	3.17	1,463	550	15.8	1	●
		UR8B180DU	30.4	18,100	5,305	10.5	3.08	1,724	550	16.8	8	●
		UR8B200DU	32.5	19,400	5,686	10.6	3.11	1,830	550	16.7	8	●
		UR5A180DU	30.6	18,000	5,275	10.9	3.20	1,650	750	20.1	5	●
		UR5A215DU	36.2	21,800	6,389	10.8	3.16	2,020	750	20.1	5	●
	UR5A260DN	44.6	26,800	7,854	10.7	3.13	2,510	800	22.6	6	●	



Specifications

R410A Compressor

Ref.	Power Source	Model	Displacement	Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development	
			cc/rev	Btu/h	W	Btu/W/h	w/w	W	cc	kg		● Mass Production ○ Under develop	
R410A	1 ϕ , 115V	UG9C050HS	4.9	5,000	1,465	10.2	2.99	490	210	7.4	10	●	
		UG9C052HS	5.0	5,200	1,524	10.2	2.99	510	210	7.5	10	●	
		UG9C060HS	5.8	6,000	1,758	10.2	2.99	589	210	7.5	10	●	
		UG9C067HS	6.6	6,750	1,978	10.2	3.00	660	270	8.1	12	●	
		UG9C076HS	7.3	7,600	2,227	10.1	2.95	755	210	7.8	11	●	
		UG9C080HS	7.6	8,000	2,345	10.1	2.95	795	210	7.8	11	●	
		UG4A098HU	9.7	9,800	2,872	10.3	3.02	951	300	10.7	20	●	
		UG4A102HN	10.3	10,750	3,151	10.5	3.08	1,023	300	10.8	21	○	
		UG4A110HU	10.9	11,500	3,370	10.5	3.08	1,095	300	10.8	21	●	
	60Hz	1 ϕ 208-230V	UG9C060IS	5.8	6,000	1,758	10.0	2.93	600	210	7.8	11	●
			UG9C067IS	6.6	6,750	1,978	10.2	3.00	660	210	7.9	11	●
			UG9C076IS	7.3	7,600	2,227	10.1	2.97	750	210	7.9	11	●
			UG9C080IS	7.6	8,000	2,345	10.1	2.97	790	210	7.9	11	●
			UG4C085IU	8.0	8,340	2,444	10.4	3.04	803	260	10.5	19	●
			UG4C090IU	8.9	9,000	2,638	10.3	3.02	874	260	10.5	18	●
			UG4A098IU	9.7	9,800	2,872	10.3	3.02	951	300	10.7	20	●
			UG4A102IU	10.3	10,900	3,194	10.4	3.05	1,048	300	10.8	20	●
			UG4A110IU	10.9	11,600	3,400	10.6	3.10	1,095	300	10.8	19	●
			UG4A124IU	11.5	12,050	3,532	10.2	2.99	1,180	300	10.8	20	●
			UG4B135IX	13.2	13,500	3,956	10.1	2.95	1,340	340	12.2	31	●
			UG4B147IX	13.9	14,850	4,352	10.1	2.96	1,470	340	12.2	31	●
			UG8C155IU	15.2	16,300	4,777	10.6	3.11	1,538	540	15.5	13	●
			UG8C180IU	17.6	18,100	5,305	10.7	3.14	1,691	540	15.5	13	●



Specifications

R410A Compressor

Ref.	Power Source	Model	Displacement			Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	cc	kg	● Mass Production ○ Under develop			
R410A	60Hz	1φ 208-230V	UG8C185IU	17.6	18,500	5,422	10.4	3.05	1,779	540	15.5	13	●	
			UG8C200IU	19.0	20,300	5,949	10.5	3.09	1,925	540	15.4	13	●	
			UG5A220IU	21.5	22,200	6,506	10.1	2.96	2,200	1,220	21.5	11	●	
			UG5C220IU	21.5	22,400	6,565	10.3	3.02	2,175	1,220	23.1	13	●	
			UG5A240IU	23.4	24,500	7,180	10.2	2.99	2,402	750	21.2	10	●	
			UG5C240IU	23.4	25,090	7,353	10.2	3.12	2,356	750	21.5	13	○	
			UG5A250IU	24.4	25,500	7,473	10.2	2.99	2,500	1,220	25.0	12	●	
			UG5A260IU	25.4	26,500	7,766	10.2	2.99	2,598	750	20.5	12	●	
			UG5C260IU	24.7	26,250	7,693	10.5	3.08	2,500	1,220	24.7	14	●	
			UG5A280IU	27.2	28,500	8,353	10.2	2.99	2,794	750	21.3	10	●	
			UG5A300IU	29.3	30,500	8,939	10.2	2.99	2,990	750	21.3	10	●	
			UG5T320IUZ	30.6	32,500	9,525	10.3	3.02	3,155	1,500	26.8	21	●	
			UG5T360IN	34.3	37,000	10,844	10.0	2.93	3,700	1,500	26.8	-	○	
			1φ 265V	UG9C060YS	5.8	6,000	1,758	10.1	3.08	594	210	7.8	11	●
	UG9C067YS	6.6		6,700	1,964	10.0	3.08	670	210	7.8	10	●		
	UG9C076YS	7.3		7,600	2,227	10.2	3.08	745	210	7.5	12	●		
	UG4C085YU	8.0		8,200	2,403	10.3	3.01	796	260	10.7	5	●		
	UG4A102YU	10.3		10,850	3,180	10.5	2.93	1,033	340	11.3	19	●		
	UG4A110YU	10.9		11,450	3,356	10.5	2.93	1,090	300	11.3	19	●		
	UG4A124YU	11.5		12,050	3,532	10.5	2.93	1,145	300	11.3	19	●		
	UG4B147YX	15.0	14,700	4,308	10.3	2.87	1,430	340	12.5	31	●			
	50Hz	1φ 220-240V	UG4C065JU	8.0	6,800	1,993	10.0	2.93	680	260	10.2	17	●	
			UG4A080JU	9.7	8,350	2,447	10.0	2.78	835	300	10.6	18	●	
			UG4A086JU	10.3	8,800	2,579	10.0	2.90	880	300	10.8	18	●	
			UG4A091JU	10.9	9,210	2,699	9.8	2.87	940	300	11.4	21	●	
			UG4A097JU	11.5	9,850	2,887	10.0	2.93	985	300	11.2	20	●	
			UG4B124JX	14.1	12,000	3,517	9.5	2.78	1,263	340	12.2	22	●	
			UG4B129JX	15.0	13,000	3,810	9.9	2.90	1,315	340	12.6	22	●	
UG8C150JU			17.0	14,800	4,337	9.8	2.87	1,510	540	15.4	13	●		
UG8D180JU			21.7	18,300	5,363	10.0	2.93	1,830	550	15.8	14	●		
UG8D185JU			21.7	18,900	5,539	9.8	2.87	1,928	550	15.8	14	●		
UG8D190JU			23.0	20,000	5,861	9.9	2.89	2,030	550	15.7	14	●		
UG5A240JU			29.3	24,100	7,063	9.8	2.86	2,470	750	20.1	10	●		

Specifications

BLDC Compressor (Single & Twin)

Ref.	Power Source	Model	Displacement		Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	600 cc	kg	● Mass Production ○ Under develop		
R410A	BLDC (Single Pump,Nd)	UG9C072FUA	7.3	7,560	2,216	11.2	3.28	675	270	7.3	17	●	
		UG9A090FUA	9.0	9,450	2,770	11.1	3.25	851	320	7.5	13	●	
		UG9A090FUB	9.0	9,450	2,770	10.8	3.17	875	320	7.3	14	●	
		UG9A090FUC	9.0	9,450	2,770	10.8	3.17	875	320	6.9	15	●	
	BLDC (Twin Pump,Nd)	UG9T115FUA	11.6	11,800	3,458	11.3	3.31	1,044	380	9.0	16	●	
		UG4T135FUA	13.1	13,200	3,869	11.1	3.25	1,189	500	10.4	29	●	
		UG4T150FUA	15.0	15,200	4,455	11.1	3.25	1,369	500	10.4	29	●	
		UG4T150FUB	15.0	15,200	4,455	11.1	3.25	1,369	650	10.5	29	●	
		UG4T150FUC	15.0	15,200	4,455	11.0	3.22	1,380	500	10.4	29	●	
		UG4T150FUD	15.0	15,200	4,455	11.1	3.25	1,369	650	10.5	29	●	
		UG4T200FUA	19.5	20,200	5,920	11.3	3.31	1,788	650	11.2	30	●	
		UG4T200FNF	19.5	20,500	6,008	11.6	3.40	1,767	650	11.5	32	●	
		UG8T260FUA	25.2	26,500	7,766	11.1	3.25	2,387	700	14.0	15	●	
		UG8T265FUA	25.2	26,500	7,766	11.3	3.31	2,345	700	14.5	16	●	
		UG8T265FXA	25.2	26,700	7,825	11.5	3.37	2,322	700	15.6	19	●	
		UG8T300FUA	30.0	31,300	9,173	11.1	3.25	2,820	750	14.6	17	●	
		UG8T300FUB	30.0	31,300	9,173	11.1	3.25	2,820	1,200	16.5	18	●	
		UG8T300FUC	30.0	31,300	9,173	11.1	3.25	2,820	1,200	16.5	18	●	
		UG5T360FUA	35.1	37,500	10,990	11.0	3.22	3,409	1,100	20.0	15	●	
		UG5T360FUE	35.1	37,500	10,990	11.0	3.22	3,409	1,700	21.6	17	●	
		UG5T450FUA	43.0	46,500	13,628	11.3	3.31	4,115	1,100	21.3	16	●	
		UG5T450FUE	43.0	46,500	13,628	11.3	3.31	4,115	1,700	23.0	18	●	
		UG5T450FUF	43.0	46,500	13,628	11.3	3.31	4,115	1,700	23.0	18	●	
		UG5T450FXA	43.0	46,500	13,628	11.6	3.40	4,009	1,700	23.8	19	●	
	UG5T520FUB	49.4	54,000	15,826	11.3	3.31	4,779	1,700	23.8	19	●		
	BLDC (Twin Pump,Ferrite)	UG4T150LNC	15.0	15,200	4,455	10.9	3.19	1,395	500	11.9	33	○	
		UG4T200LNE	19.5	20,500	6,008	11.2	3.28	1,830	650	12.4	34	○	
	BLDC (Single Pump,Ferrite)	UG9A090LNA	9.0	9,450	2,770	10.8	3.17	875	320	7.8	15	○	
		UG9B102LNA	10.2	10,350	3,033	10.7	3.14	967	340	7.9	18	○	
		UG4A090LU	8.9	9,300	2,726	10.9	3.20	853	340	10.3	25,28	●	
UG4C090LU		8.9	9,300	2,726	10.8	3.17	861	320	10.0	23,26,27	●		
UG4A110LU		10.3	10,900	3,194	10.7	3.14	1,018	340	10.3	25,28	●		
UG4B135LU		13.2	14,300	4,191	10.8	3.17	1,324	600	10.5	24	●		

Specifications

BLDC Compressor (Single & Twin)

Ref.	Power Source	Model	Displacement		Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development ● Mass Production ○ Under develop
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	600 cc	kg			
R22	BLDC (Single Pump, Ferrite)	UR4B092LU	13.2	9,500	2,784	11.5	3.37	826	500	10.4	6	●	
		UR4B124LU	17.6	12,750	3,737	11.4	3.34	1,118	500	10.4	6	●	
R134A	BLDC (Twin Pump, Nd)	UX5T210FUA	43.0	21,500	6,301	11.6	3.40	1,853	1,100	21.6	16	○	
		UX5T250FNB	49.4	25,000	7,327	11.8	3.46	2,120	1,700	23.8	19	○	

Wide Capacity Range 15Hz ~ 120Hz Variable Control

High Efficiency

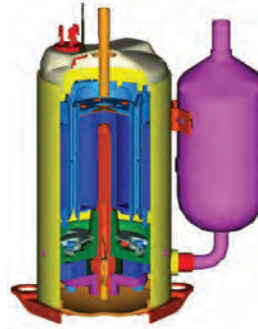
- Adopt high efficiency pump
- High Precision process parts and assembly

Low Noise

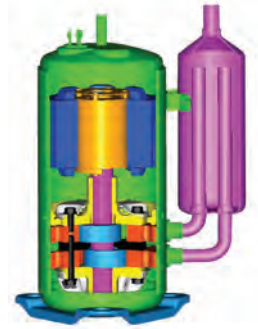
- Sine wave control available
- Adopt the Optimized Muffer structure

Excellent Reliability

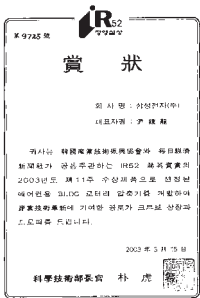
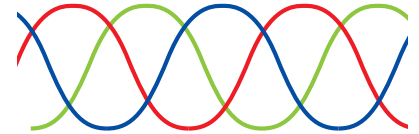
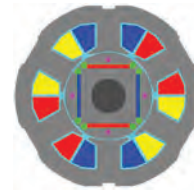
- Adopt the coating material to improve reliability
- Reduction the oil circulation



Single BLDC Rotary



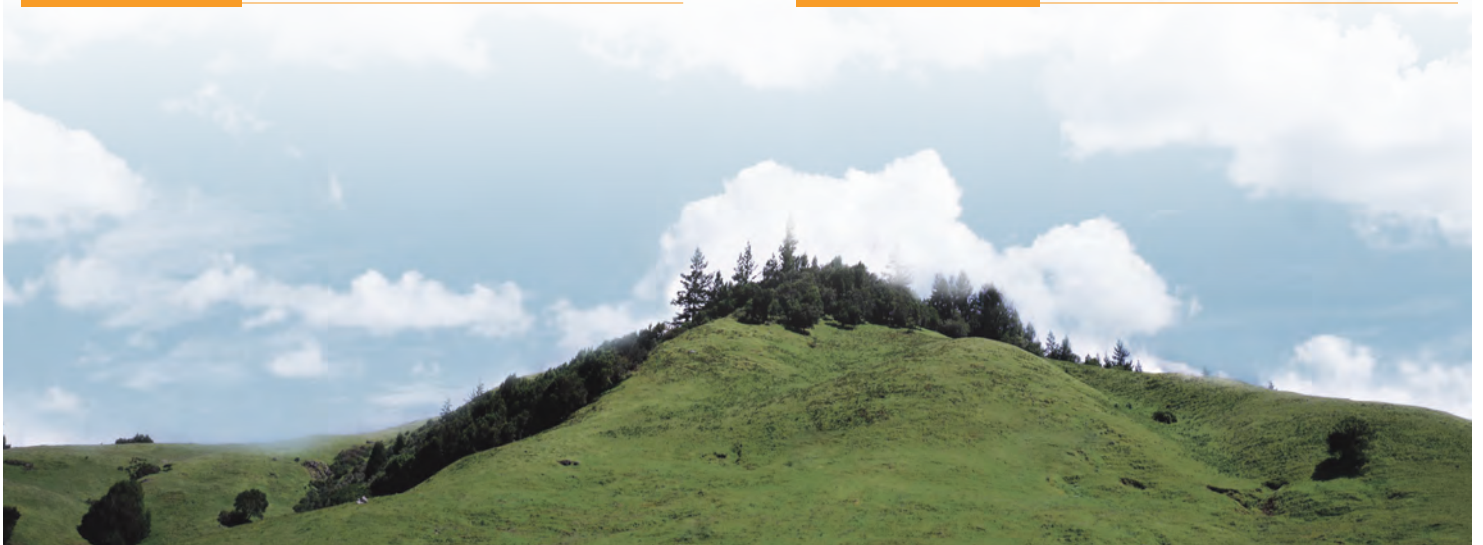
Twin BLDC Rotary



Awarded
"Jang Young Shil" Mark
from KOITA (Korean Industrial
Technology Association)
2003



Awarded
"Cheoltap" Medal
from Korean Government
2005



Specifications

Tropical Compressor (UTR - Ultra Tropical Rotary)													
Ref.	Power Source	Model	Displacement		Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development ● Mass Production ○ Under develop
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	cc	kg			
R22	60Hz	1φ 208-230V	UR4B124IT	17.6	12,650	3,707	10.3	3.02	1,228	320	11.8	8	●
			UR4B135IT	18.7	13,500	3,956	10.3	3.02	1,310	340	11.8	9	●
			UR8D190IH	26.6	19,500	5,715	10.5	3.08	1,858	550	15.9	9	●
			UR8D200IH	27.8	20,700	6,067	10.4	3.05	1,990	550	16.0	9	●
			UR5A240IT	33.4	24,800	7,268	10.8	3.17	2,295	500	19.4	7	●
			UR5A260IT	36.2	27,500	8,059	10.3	3.02	2,670	500/750	19.6/20.0	5,7	●
			UR5A300IT	41.8	31,700	9,290	10.0	2.93	3,170	800	21.7	1	●
	50Hz	1φ 220-240V	UR4B092JT	16.1	9,300	2,726	10.0	2.93	930	340	11.8	8	●
			UR4D124JH	21.0	12,400	3,634	9.7	2.84	1,278	380	12.7	16	●
			UR4D129JT	21.7	12,800	3,751	9.6	2.81	1,333	380	12.7	14	●
			UR8B180JH	30.4	18,300	5,363	9.6	2.81	1,907	550	16.5	10	●
			UR8B200JT	32.5	19,500	5,715	9.3	2.73	2,097	550	16.5	2	●
			UR8D165JH	27.8	16,500	4,836	10.2	2.99	1,618	550	16.5	11	●
			UR5A250JH	41.8	25,300	7,415	10.1	2.97	2,500	550/800	22.3/22.6	8,9	●
			UR5T300JT	49.4	30,000	8,792	10.0	2.93	3,000	950	24.0	16	●
1φ 220V	UR8B180DT	30.4	18,100	5,305	10.2	2.99	1,775	550	16.3	8	●		
R407C	50Hz	1φ 220-240V	UF5A200JH	33.4	19,600	5,744	10.7	3.13	1,835	500	20.8	-	○
			UF5A250JH	41.8	24,700	7,239	10.6	3.11	2,330	650	23.1	-	○
	60Hz	1φ 208-230V	UF5A200IH	27.9	20,500	6,008	10.8	3.16	500	1,900	19.4	-	○
			UF5A240IH	33.4	24,800	7,268	10.8	3.17	500	2,295	21.0	-	○



Upgraded UTR

- Reduced Motor Temperature
- Upgraded Pump Reliability
- Reduced Noise Level
- Improved Protection Ability

Items	UTR	UTR Plus	Remark
Outside Temp (°C)	54	54	
Motor Temp (°C)	135	125	10°C↓
Noise (dB)	57	54	3 dB↓



Certified by Maryland CEEE
(Max 9% Higher EER than Recip. comp)



Certificate
All of the UTR Compressor
are Licensed by KSA

Tropical Environment



- Ultimate Freeze
- Powerful Cooling

'04 Rotary



- High Motor Torque
- High Reliability
- Light Weight (30%↓)
- High Efficiency (5-10%)

'06 Rotary

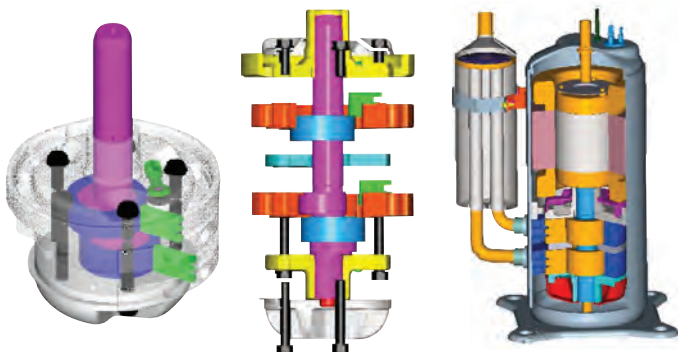


- Reduced the Sound & Vibration (3dB↓)

Specifications

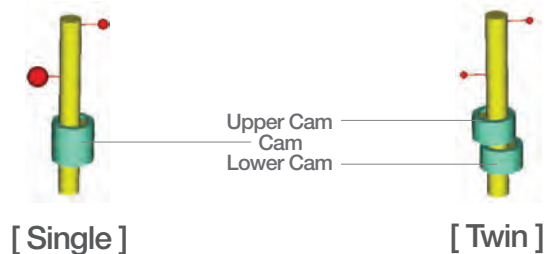
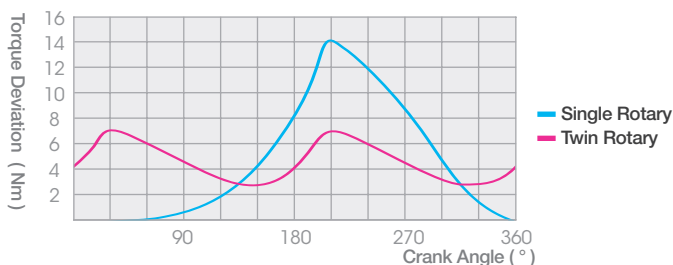
Large Volume Compressor (TTR - Turbo Twin Rotary)

Ref.	Power Source	Model	Displacement		Cooling Capacity		EER	COP	Input	Oil Charge	Net Weight	Dimension	Development ● Mass Production ○ Under develop
			cc/rev	Btu/h	W	Btu/Wh	w/w	W	cc	kg			
R22	60Hz	3φ 380-440V	UR5T360AU	49.4	36,000	10,551	10.9	3.19	3,303	1,000	23.7	12	●
			UR3T480AU	65.8	49,850	14,610	11.2	3.28	4,450	1,700	35.0	4	●
			UR3T550AT	72.6	55,500	16,265	11.0	3.23	5,040	1,900	35.0	1	●
			UR3T650AU	85.5	65,000	19,050	10.9	3.19	5,965	1,900	35.5	2	●
	3φ 220V	UR3T480CT	65.8	49,850	14,610	10.8	3.17	4,615	1,700	35.0	4	●	
		UR3T550CT	72.6	55,500	16,265	11.0	3.23	5,040	1,900	35.0	1	●	
	50Hz	3φ 380-420V	UR3T480BU	78.6	48,500	14,214	10.9	3.19	4,450	1,700	35.0	1	●
			UR3T510BU	83.6	51,500	15,093	10.9	3.19	4,725	1,700	35.0	1	●
			UR3T400BT	65.8	40,500	11,869	10.8	3.17	3,750	1,700	32.5	3	●
			UR3T480BT	78.6	48,900	14,331	10.8	3.16	4,530	1,900	35.0	1	●
UR3T510BT			83.6	51,500	15,093	10.8	3.16	4,770	1,900	35.0	1	●	
R410A	50Hz	3φ 380-420V	UG3T400BU	46.3	40,500	11,869	10.4	3.05	3,895	1,700	33.5	4	●
			UG3T450BU	52.1	45,500	13,335	10.4	3.05	4,375	1,700	33.5	4	●
			UG3T470BU	54.5	47,500	13,921	10.4	3.05	4,565	1,700	33.5	4	●
			UG3T530BU	61.5	53,900	15,797	10.4	3.05	5,185	1,700	34.5	5	●
			UG3T570BU	65.8	57,500	16,852	10.4	3.05	5,530	1,700	34.5	5	●
	60Hz	3φ 380-440V	UG3T480AN	46.3	49,200	14,419	10.3	3.00	4,800	1,700	33.5	-	○
			UG3T650AN	61.5	65,300	19,138	10.4	3.05	6,280	1,700	33.5	-	○
		3φ 220V	UG3T480CN	46.3	49,200	14,419	10.3	3.00	4,800	1,700	33.5	-	○
			UG3T650CN	61.5	65,300	19,138	10.4	3.05	6,280	1,700	34.5	-	○



Extremely Low Vibration	1/4 of Single
Excellent Reliability	<ul style="list-style-type: none"> • Wide Operation Range (Pd 33.0 kg/cm²) • High Ambient Temperature 65°C (Tropical)
High Efficiency & Low Noise	R22(11.2), R410A(10.4)

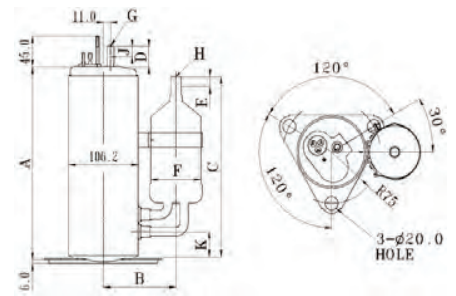
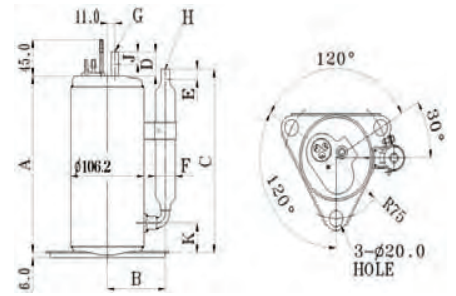
Comparison of Torque Deviation



Dimension

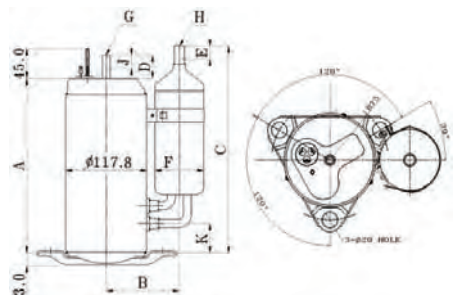
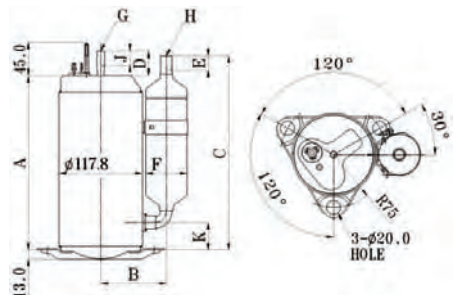
39 Frame

(UNIT : mm)										
Type	A	B	C	D	E	J	F	G	H	K
1	193.3	84.6	203.1	30.0	10.0	15.0	31.8	8.15	9.64	30.3
2	193.3	86.5	220.6	30.0	15.0	15.0	41.3	8.15	9.64	30.3
3	197.3	84.6	203.1	30.0	10.0	15.0	31.8	8.15	9.64	30.3
4	212.9	86.5	227.3	30.0	15.0	15.0	41.3	8.15	9.64	37.0
5	212.9	84.6	209.8	30.0	10.0	15.0	31.8	8.15	9.64	37.0
6	206.9	86.5	227.3	30.0	15.0	15.0	41.3	8.15	9.64	37.0
7	218.9	86.5	227.3	30.0	15.0	15.0	41.3	8.15	9.64	37.0
8	200.3	86.5	219.1	30.0	15.0	15.0	41.3	8.15	9.64	28.8
9	190.3	84.6	201.6	30.0	10.0	15.0	31.8	8.15	9.64	28.8
10	194.3	84.6	201.6	30.0	10.0	15.0	31.8	8.15	9.64	28.8
11	200.3	84.6	201.6	30.0	10.0	15.0	31.8	8.15	9.64	28.8
12	207.8	86.5	226.6	30.0	15.0	15.0	41.3	8.15	12.85	36.3
13	246.5	97.2	261.0	30.0	15.0	15.0	77.4	8.15	12.85	44.0
14	261.5	87.9	267.0	30.0	15.0	15.0	58.4	8.15	12.85	44.0
15	236.5	87.9	267.0	30.0	15.0	15.0	58.4	8.15	12.85	44.0
16	283.7	97.2	267.0	30.0	15.0	15.0	77.4	8.15	12.85	42.5
17	237.3	97.2	253.3	30.0	15.0	15.0	77.4	8.15	12.85	36.3
18	245.9	97.2	267.7	30.0	15.0	15.0	77.4	8.15	12.85	50.7



44 Frame

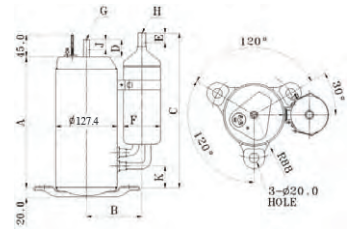
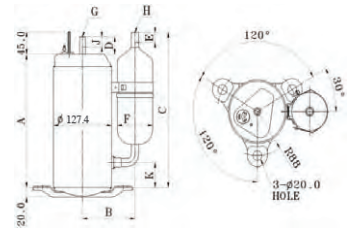
(UNIT : mm)										
Type	A	B	C	D	E	J	F	G	H	K
1	215.1	92.1	218.9	35.0	15.0	15.0	41.3	8.15	9.64	28.6
2	215.1	95.9	233.1	35.0	15.0	15.0	47.6	8.15	12.85	28.6
3	215.1	93.7	251.6	35.0	15.0	15.0	58.4	8.15	12.85	28.6
4	219.1	95.9	233.1	35.0	15.0	15.0	47.6	8.15	12.85	28.6
5	240.7	99.1	264.0	35.0	15.0	15.0	15.9	8.15	14.10	39.0
6	245.7	102.6	311.0	35.0	15.0	15.0	77.4	8.15	12.85	51.0
7	247.7	95.9	242.0	35.0	15.0	15.0	47.6	8.15	12.85	37.0
8	240.7	93.7	274.0	35.0	15.0	15.0	58.4	8.15	12.85	37.0
9	247.7	93.7	274.0	35.0	15.0	15.0	58.4	8.15	12.85	37.0
10	240.1	93.7	251.6	35.0	15.0	15.0	58.4	8.15	12.85	28.6
11	252.7	93.7	274.0	35.0	15.0	15.0	58.4	8.15	12.85	37.0
12	265.8	93.7	289.6	35.0	15.0	15.0	58.4	8.15	12.85	52.6
13	235.1	93.7	251.6	35.0	15.0	15.0	58.4	8.15	12.85	28.6
14	252.4	93.7	276.2	35.0	15.0	15.0	58.4	8.15	12.85	39.2
15	270.8	93.7	289.6	35.0	15.0	15.0	58.4	8.15	12.85	52.6
16	257.4	93.7	276.2	35.0	15.0	15.0	58.4	8.15	12.85	39.2
17	211.1	92.1	216.9	35.0	15.0	15.0	41.3	8.15	9.64	26.6
18	219.1	93.7	252.7	35.0	15.0	15.0	58.4	8.15	12.85	29.7
19	223.2	93.7	258.7	35.0	15.0	15.0	58.4	8.15	12.85	29.7
20	226.1	93.7	252.7	35.0	15.0	15.0	58.4	8.15	12.85	29.7
21	235.1	93.7	276.0	35.0	15.0	15.0	58.4	8.15	12.85	39.0
22	240.7	93.7	276.0	35.0	15.0	15.0	58.4	8.15	12.85	39.0
23	223.8	102.6	252.3	35.0	15.0	15.0	77.4	8.15	12.85	35.3
24	245.7	102.6	311.0	35.0	15.0	15.0	77.4	8.15	12.85	51.0
25	227.1	102.6	253.7	35.0	15.0	15.0	77.4	8.15	12.85	36.7
26	229.8	102.6	252.3	35.0	15.0	15.0	77.4	8.15	12.85	35.3
27	221.3	102.6	252.3	35.0	15.0	15.0	77.4	8.15	12.85	35.3
28	224.6	102.6	253.7	35.0	15.0	15.0	77.4	8.15	12.85	36.7
29	246.5	102.6	308.2	35.0	15.0	15.0	77.0	8.15	12.85	47.6
30	259.5	102.6	310.2	35.0	15.0	15.0	77.0	8.15	12.85	49.6
31	247.7	93.7	252.7	35.0	15.0	15.0	58.4	8.15	12.85	28.6
32	264.5	102.6	310.2	35.0	15.0	15.0	77.0	8.15	12.85	49.6
33	268.5	102.6	308.2	35.0	15.0	15.0	77.0	8.15	12.85	47.6
34	281.5	102.6	310.2	35.0	15.0	15.0	77.0	8.15	12.85	49.6



Dimension

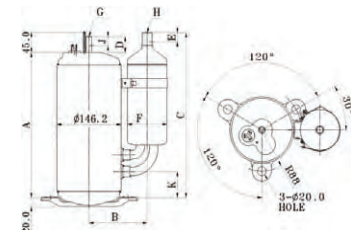
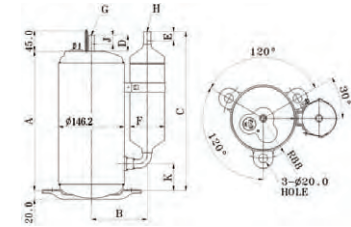
48 Frame

(UNIT : mm)										
Type	A	B	C	D	E	J	F	G	H	K
1	280.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.6
2	291.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.2
3	285.8	98.0	285.4	35.0	15.0	15.0	58.4	9.70	12.85	48.4
4	285.8	114.5	308.4	35.0	15.0	15.0	77.4	9.70	12.85	48.4
5	285.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.6
6	280.8	114.5	308.4	35.0	15.0	15.0	77.4	9.70	12.85	48.4
7	280.8	98.0	285.4	35.0	15.0	15.0	58.4	9.70	12.85	48.4
8	301.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.2
9	300.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.6
10	306.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.2
11	295.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.6
12	296.3	114.5	310.6	35.0	15.0	15.0	77.4	9.70	12.85	50.2
13	275.8	114.5	309.0	35.0	15.0	15.0	77.4	9.70	12.85	49.0
14	285.3	114.5	311.2	35.0	15.0	15.0	77.4	9.70	12.85	51.2
15	267.5	115.2	316.7	35.0	15.0	15.0	77.0	9.70	12.85	45.2
16	272.5	115.2	316.7	35.0	15.0	15.0	77.0	9.70	12.85	45.2
17	287.5	115.2	330.5	35.0	15.0	15.0	77.0	9.70	12.85	48.5
18	325.0	115.2	368.8	35.0	15.0	15.0	77.0	9.70	12.85	86.8
19	281.1	115.2	316.0	35.0	15.0	15.0	77.0	9.70	12.85	44.5



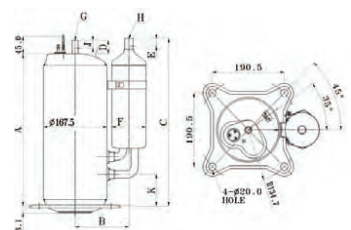
55 Frame

(UNIT : mm)										
Type	A	B	C	D	E	J	F	G	H	K
1	303.7	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
2	276.4	124.8	313.7	35.0	15.0	15.0	77.4	9.70	16.03	49.7
3	294.4	124.8	306.7	35.0	15.0	15.0	77.4	9.70	16.03	42.7
4	311.4	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
5	286.4	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
6	323.8	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
7	269.4	124.8	306.7	35.0	15.0	15.0	77.4	9.70	16.03	42.7
8	301.7	124.8	306.7	35.0	15.0	15.0	77.4	9.70	16.03	42.7
9	318.7	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
10	296.4	124.8	349.7	35.0	15.0	15.0	77.4	9.70	16.03	59.7
11	360.8	132.4	370.0	35.0	15.0	15.0	90.0	9.70	19.20	99.1
12	370.8	132.4	370.0	35.0	15.0	15.0	90.0	9.70	19.20	99.1
13	350.8	132.4	368.6	35.0	15.0	15.0	90.0	9.70	19.20	97.7
14	365.8	132.4	368.6	35.0	15.0	15.0	90.0	9.70	19.20	97.7
15	311.5	125.5	351.0	35.0	15.0	15.0	77.0	9.70	16.03	55.3
16	323.5	132.4	362.1	35.0	15.0	15.0	90.0	9.70	19.20	58.3
17	371.0	125.5	390.5	35.0	15.0	15.0	77.0	9.70	16.03	94.8
18	383.0	132.4	401.6	35.0	15.0	15.0	90.0	9.70	19.20	97.8
19	393.0	132.4	401.6	35.0	15.0	15.0	90.0	9.70	19.20	97.8
20	341.2	132.4	361.0	35.0	15.0	15.0	90.0	9.70	19.20	57.2
21	395.8	125.5	455.4	35.0	15.0	15.0	77.0	9.70	16.03	104.6
22	279.4	124.8	306.7	35.0	15.0	15.0	77.0	9.70	16.03	42.7



63 Frame

(UNIT : mm)										
Type	A	B	C	D	E	J	F	G	H	K
1	392.8	142.2	432.6	35.0	15.0	15.0	90.0	12.90	19.20	81.6
2	397.8	135.7	432.6	35.0	15.0	15.0	77.0	12.90	19.20	81.6
3	374.8	142.2	432.6	35.0	15.0	15.0	90.0	12.90	19.20	77.8
4	379.8	135.7	422.6	35.0	15.0	15.0	77.0	12.90	19.20	77.8
5	389.8	142.2	422.6	35.0	15.0	15.0	77.0	12.90	19.20	77.8



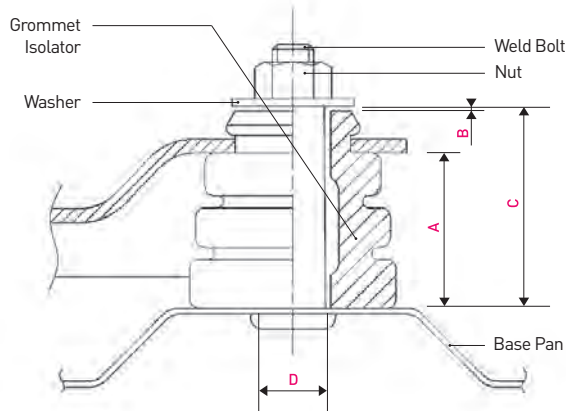
Mounting System & Wiring Diagram

Mounting System

Frame / Parts	A	B	C	D
39F	14.0	0.5~2.0	21.0	10.5
44, 48, 55, 63F	25.5	0.5~2.0	33.5	11.5

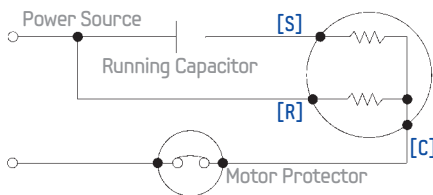
Remark

Keep the Clearance between Washer and Grommet Isolator by 0.5-2.0mm

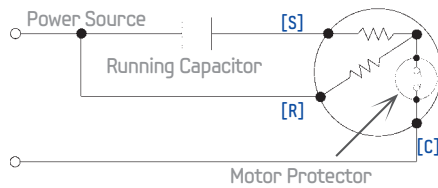


Wiring Diagram

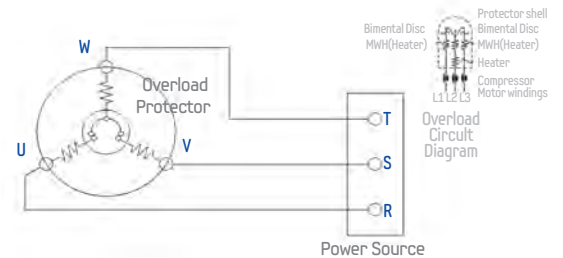
External OLP Type



Internal OLP Type



3 Phase Internal OLP Type



Test Condition

Refrigerant	R-22 / R407C / R410A
Condensing Temp.(°C)	54.4
Evaporating Temp.(°C)	7.2
Ambient Temp.(°C)	35.0
Return Gas Temp.(°C)	35.0
Liquid Temp.(°C)	46.1

Application Envelopes

Items	Normal	Tropical
Condensing Temp.(°C)	28.0 ~ 65.0	28.0 ~ 74.5
Evaporating Temp.(°C)	-25.0 ~ 12.7	
Discharge Temp.(°C)	Max. 115.0	

Evaporating Temp Range of 39Frame is -10.0 ~ 12.0

Accessory & Packing

Standard Accessory Parts



Items	Application				Quantity (pcs)
	Comp. with Externel OLP	Comp. with Internal OLP	BLDC Compressor		
			Type1	Type2	
Nut	①				1
Cover Terminal	②	③	②	③	1
Overload Protector	④				1
Spring etc-OLP	⑤				1
Holder - Thermistor			⑥		1
Gasket	⑦	⑧	⑦	⑧	1
Grommet Isolator	⑨				3 (63F 4Pcs)

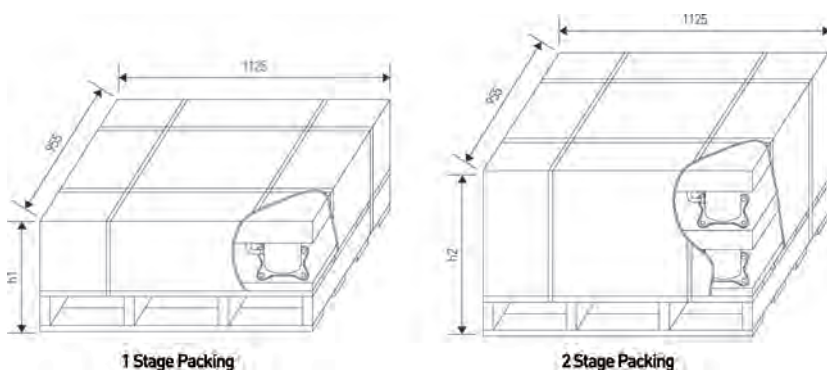
Standard Export Packing & Loading Quantity (20ft container)

Frame	Compressor Quantity/Carton (pcs)		Carton Quantity (carton)		Accessory Box (e)	Loading Quantity (t) (pcs)	Packing Height	
	1 stage (a)	2 stage (b)	1 stage (c)	2 stage (d)			1 stage (h1)	2 stage (h2)
39F	36	72	2	24	6	1,800	477	788
39 BLDC	35	70	1	23	6	1,645	523	896
44A, 44C	36	72	2	22	6	1,656	477	788
44A,44B (+60)	36	72	-	-	-	-	477	788
44B, 44D	36	72	4	16	6	1,296	507	840
44D "H" accum	30	60	5	19	6	1,290	507	840
44 BLDC	30	60	4	22	4	1,440	507	840
48F Ex(In) OLP	30	60	4	16	5 (3)	1,080	523	896
48F(+60)	20	40	4	16	2	720	523	896
48F (ZJZ)	12	24	0	24	2	576	523	896
55F,55T	20	40	4	16	2	720	560	965
55F(ZJZ, ZF2)	12	24	12	12	2	432	560	965
63F	12	24	12	12	2	432	660	1,153

ex.) Compressor Total Quantity of 44Frame 8.5K Btu/h Model : (a)X(c)+(b)X(d)= (t) / 1,656 pcs

ex.) Carton Total Quantity of 44Frame 8.5K Btu/h Model : (c)+(d)+(e)=30 Cartons

* Korean sale is exception in upside standard.



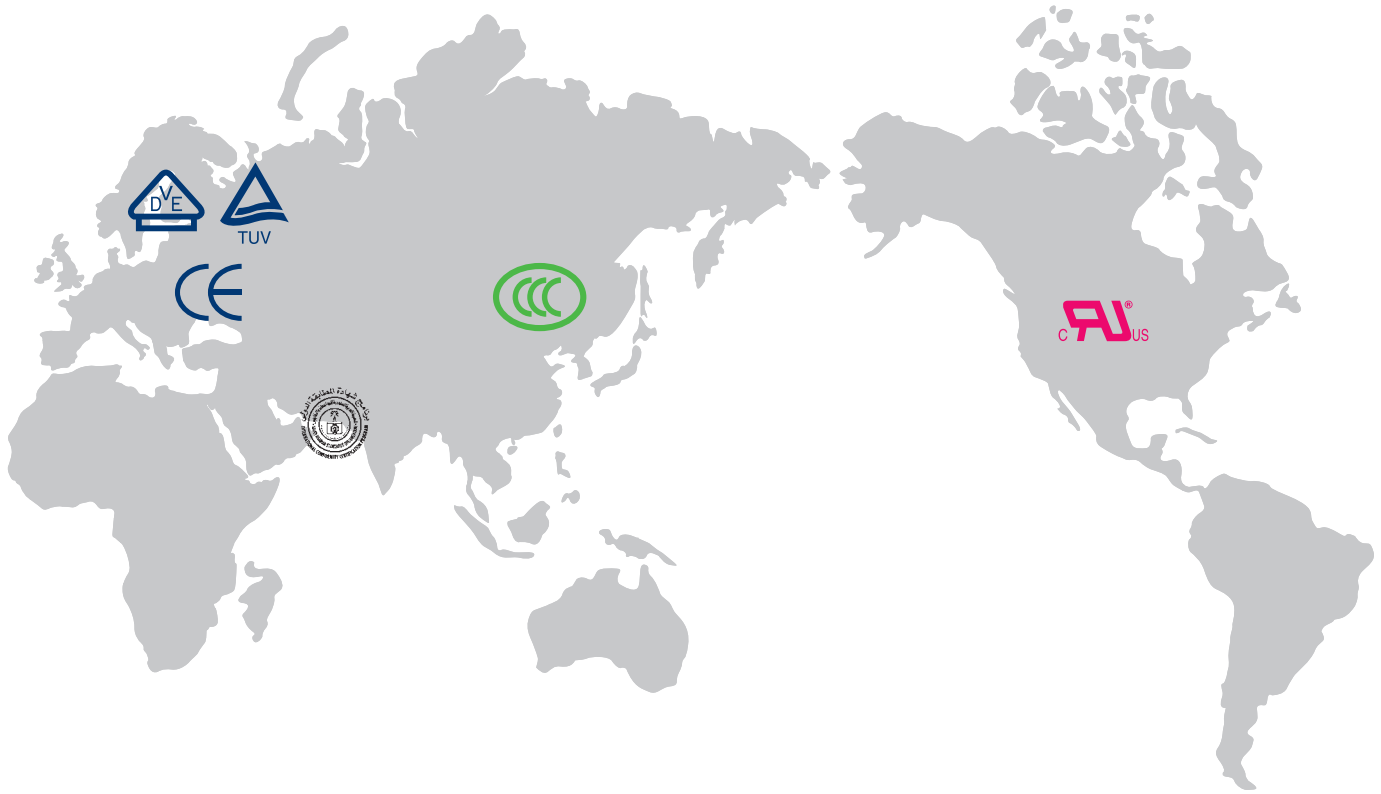
WARNING / DANGER

Failure to follow these instructions could result in serious personal injury.

1. Ground the Equipment securely.
2. Turn off power before servicing.
3. Mount the terminal cover in place whenever power is applied to this compressor.
4. Wear protective goggles when servicing.
5. Before brazing, remove pressure from both high and low side.
6. Do not use this compressor to compress air.
7. Use only approved refrigerants and lubricants.
8. Do not touch with bare hands during running or after stopping instantly.

Approved Licenses & RoHS

Approved Licenses



VDE or TUV for European Compressor
(220-240V 50Hz and some 3-phase compressor)



CCC for Chinese Compressor
(200V, 200-220V 50Hz and some 3-phase compressor)



C-UL for American Compressor
(115V or 208-230V 60Hz)



KSA for tropical compressor
(208-230V)





RoHS Compliant

Introducing the environmentally-friendly Samsung Rotary Compressor. Our compressor is free of lead, cadmium, and other hazardous substances. It is not only in full compliance with the Eu's RoHS, but is built to take into consideration the environment and the future of the world!



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