

Ducted Split

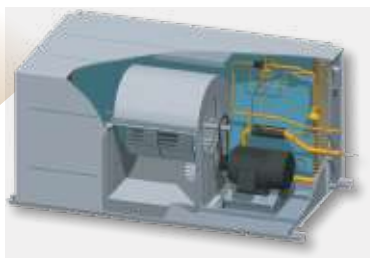
R-410A
Non-Inverter

● COOLING ONLY [60Hz], 220V/380V, Non-Inverter

FDN, FGN



Ducted Split Features



R-410A

• CONVERTIBLE AIR THROW

Versatile, as the air discharge direction (vertical or horizontal) can be changed at site according to requirements. (For size 12.5hp and above only)

Tough Casing:

Casing made of electro galvanized mild steel, coated with epoxy polyester for protection against corrosion.

Polyethylene (PE) Insulation:

10mm-thick, fire-resistant insulation with durable surface with a higher degree of puncture resistance compared to fiberglass.

Changeable Drive Package:

Changeable on-site to accommodate different static pressure and air flow requirements. (For size 12.5hp and above only)

Part Load Operation:

The modular unit configuration allows it to operate under part load conditions to meet the required cooling capacity.

Indoor Air Quality:

A 2-inch rail is provided at return air for the installation of field-supplied filter.

Heat Exchanger:

Seamless inner grooved copper tubes mechanically bonded to hydrophilic aluminium fins to ensure optimum heat transfer.

Condensing Unit Features



• CONVERTIBLE AIR THROW

Flexible, as the air discharge direction (vertical or horizontal) can be changed at site according to requirements. (For size 12.5hp and above only)

High Efficiency Scroll Compressor:

High efficiency, low noise, and hermetically sealed scroll compressor for optimum performance. It also comes with an internal overload protection and crankcase heater.

Service Access Valve:

Valves are provided for installation of pressure gauge at site. These valves are easily accessible without the needs to open the service panel.

Condenser Fan Motor with IP55 Ingress Protection:

The motor is designed with dust proof bearing to ensure the reliability and smooth operation.

Service-friendly Design:

Easy access to compressor and control panel. Condenser coil is easier to clean with pressure washing.

Long Piping:

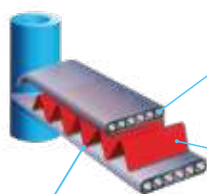
Maximum piping length & elevation of 75m and 30m respectively, providing design flexibility for large-sized buildings.

Other Product Features:

- Balance loading helps enhance compressor reliability by balancing compressor run time of each unit during the modular installation.
- Phase sequential is used to detect for any wrong phase and phase loss during installation and operation.
- High Pressure and Low Pressure protection.
- Compressor & motor current overload protection.
- Sensor fault indication.
- Minimum compressor running time to ensure oil return.
- Auto Random Restart with Last-State-Memory

Microchannel Coil

Superior Heat Exchange Performance



Heat transfer is maximized via multiple tiny refrigerant channels, which provide increased primary surface.

Air side heat transfer is maximized by the insertion of angle and louvered fins in between the flat tubes.

The brazed bond between fin and tube further maximizes conductive heat transfer.

The heat transfer performance can reach 10%-30% higher than standard copper tube and fin coil, which enabled comparable capacity to be achieved with a smaller coil.

Improved Corrosion Resistance:

Microchannel coil, which only uses mono-metal and aluminium, eliminates the possibility of galvanic corrosion.

Serviceability:

Robust Microchannel coil, which is with only one row coil, is less likely to clog and more easily cleaned with a high pressure spray wash. No chemical wash is required, which in turn enhances the coil durability and the maintenance cost is reduced.

Reduced Refrigerant Charge:

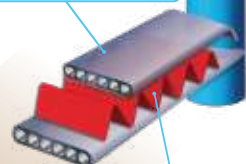
Due to its effective design, the microchannel coils can be built with a smaller volumetric, thus lowering the refrigerant charge by more than 30%.

Lower Weight:

Microchannel coil offers a weight advantage compared to a copper tube. This weight reduction can significantly reduce the installation cost if the equipment is installed on the roof of the building.

Improved Durability

Dummy tube placed on the top and bottom protects the first functional tube.



Improved coil design and are not as susceptible to fin damage as conventional fin plate coils.

Aluminium fins protrude past the edge of copper tube, making it susceptible to damage.

Copper tube

Microchannel Coil Build

Typical Coil Build

Wired Controller



BRC51A62/64
For 8HP and 10HP only

- Sleep function
- Air swing function
- Error indicator
- Delay timer (1 or 2 hours)
- Interaction with wireless handset (BRC52A62) (Optional)

Features:

- Temperature Setting of 16°C to 30°C
- Temperature operate in °C and °F
- Fan Speed Setting (H / M / L / Auto)
- Cool / Heat / Fan / Dry / Auto mode
- Energy Saving Mode
- Self-diagnosis Error Code Display
- Key Lock & Fan-lock Function
- Real Time Clock with 7 Days Programmable Timer
- Batteries backup and retain setting during power failure
- Last state memory (memory backup setting from main board)



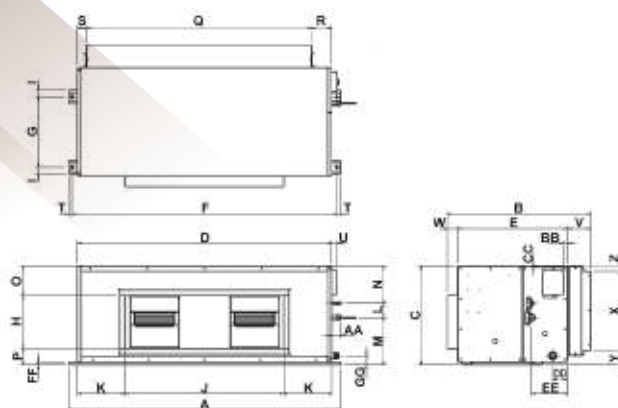
BRC51C61
For >12.5HP

Features:

- Temperature Setting of 16°C to 30°C
- Energy Saving Mode
- Self-diagnosis Error Code Display
- Key Lock Function
- Compressor Running Display
- Real Time Clock with 7 Days Programmable Timer

Indoor Unit Dimensions

FDN80HVL
FDN100HVL



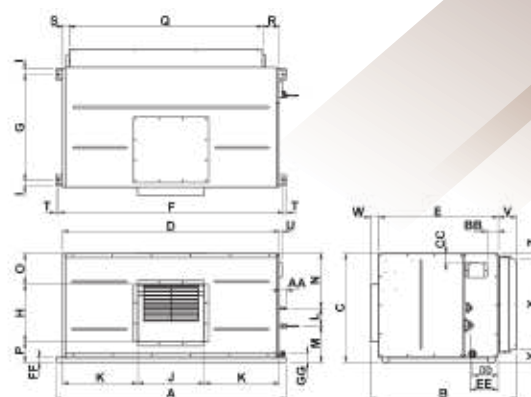
Model / Dimension	A	B	C	D	E	F	G	H	I
80 / 100	1502	792	553	1402	605	1462	394	298	38

Model / Dimension	J	K	L	M	N	O	P	Q	R
80 / 100	876	263	80	264	209	164	91	1242	110

Model / Dimension	S	T	U	V	W	X	Y	Z
80 / 100	50	20	55	127	60	443	80	30

Model / Dimension	AA	BB	CC	DD	EE	FF	GG
80 / 100	50	23	121	82	200	15	51

FDN125HVL/TL
FDN150HVL/TL



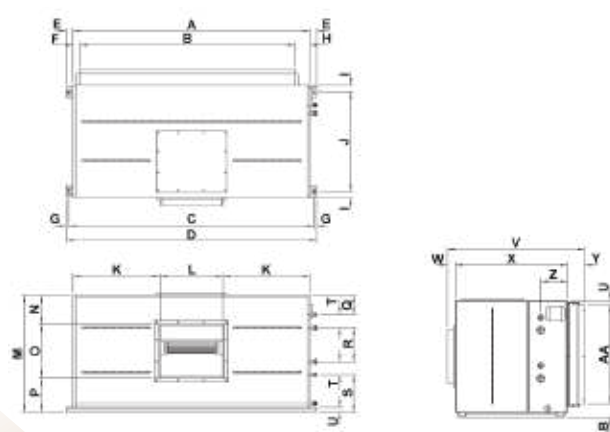
Model / Dimension	A	B	C	D	E	F	G	H
125 / 150	1640	1040	836	1540	850	1600	754	408

Model / Dimension	I	J	K	L	M	N	O	P	Q
125 / 150	38	474	533	125	259	392	382	60	1377

Model / Dimension	R	S	T	U	V	W	X	Y	Z
125 / 150	118	45	20	21	130	60	646	90	39

Model / Dimension	AA	BB	CC	DD	EE	FF	GG
125 / 150	52	79	65	183	200	35	61

2FDN200HVL/TL



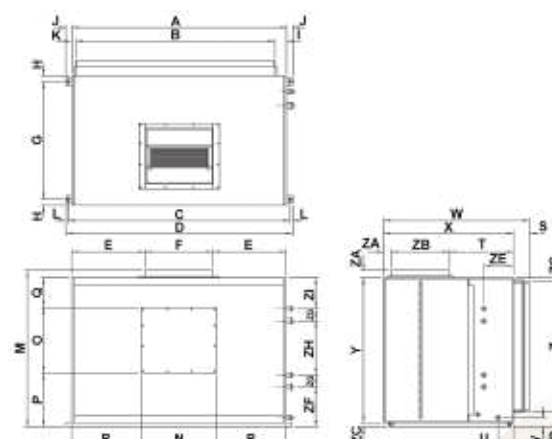
Model / Dimension	A	B	C	D	E	F	G	H	I
200	1794	1624	1854	1894	50	53	20	117	478

Model / Dimension	J	K	L	M	N	O	P	Q
200	755	660	474	885	220	408	257	147

Model / Dimension	R	S	T	U	V	W	X	Y
200	256	282	100	35	1040	60	850	130

Model / Dimension	Z	AA	AB	AC	AD
200	202	747	103	20	50

2FGN250HVL/TL
2FGN300HVL/TL



Model / Dimension	A	B	C	D	E	F	G	H	I
250 & 300	1766	1636	1826	1866	603	560	974	48	95

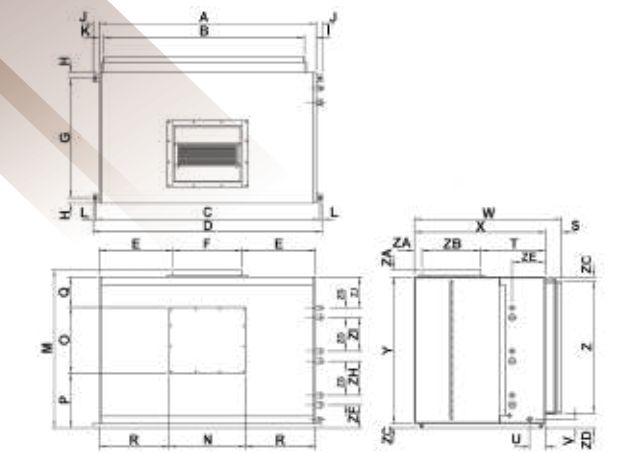
Model / Dimension	J	K	L	M	N	O	P	Q	R	S
250 & 300	50	35	20	1291	620	542	444	245	573	130

Model / Dimension	T	U	V	W	X	Y	Z	ZA	ZB
250 & 300	527	129	73	1199	1069	1196	1073	60	482

Model / Dimension	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK
250	35	123	254	328	100	446	257	115	95
300				323	120	426	242		

Indoor Unit Dimensions

3FGN300HYL/TL



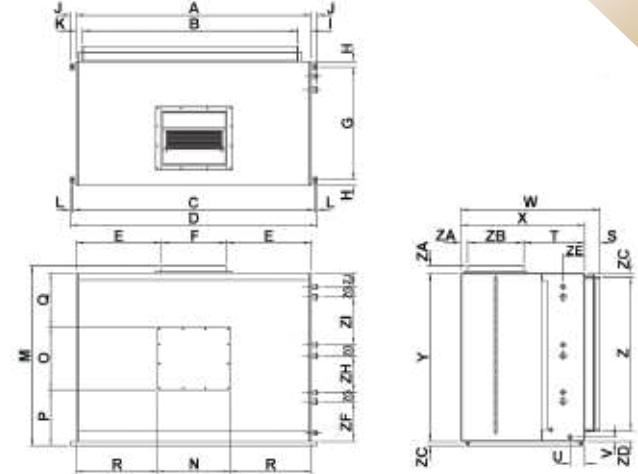
Model / Dimension	A	B	C	D	E	F	G	H	I
300	1766	1636	1826	1866	603	560	974	48	95

Model / Dimension	J	K	L	M	N	O	P	Q	R	S
300	50	35	20	1291	620	542	444	245	573	187

Model / Dimension	T	U	V	W	X	Y	Z	ZA	ZB
300	80	279	275	250	1199	1069	1196	1073	60

Model / Dimension	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK
300	123	482	527	130	272	129	73	115	95

3FGN350HYL/TL



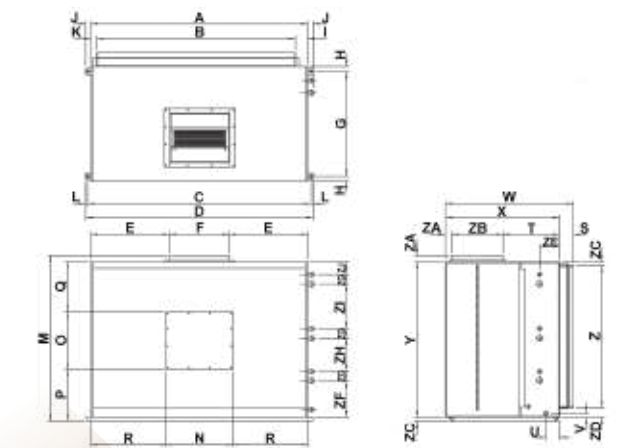
Model / Dimension	A	B	C	D	E	F	G	H	I
350	2022	1852	2082	2122	731	560	974	48	115

Model / Dimension	J	K	L	M	N	O	P	Q	R	S
350	50	55	20	1546	620	542	479	465	701	130

Model / Dimension	T	U	V	W	X	Y	Z	ZA	ZB
350	527	129	38	1199	1069	1451	1326	60	482

Model / Dimension	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL
350	35	90	188	344	80	315	414	118	114	95

3FGN450HYL/TL



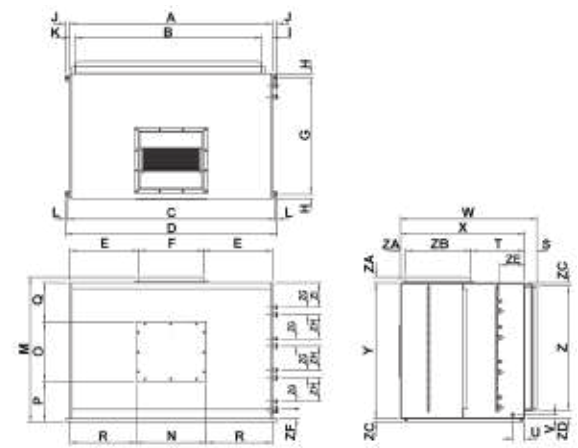
Model / Dimension	A	B	C	D	E	F	G	H	I
450	2174	2004	2234	2274	740	694	1240	48	115

Model / Dimension	J	K	L	M	N	O	P	Q	R	S
450	50	55	20	1546	754	758	446	326	710	130

Model / Dimension	T	U	V	W	X	Y	Z	ZA	ZB	ZC
450	578	129	38	1466	1336	1451	1326	60	698	35

Model / Dimension	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL
450	90	198	270	120	300	221	300	221	

4FGN400HYL/TL



Model / Dimension	A	B	C	D	E	F	G	H
400	2022	1852	2082	2122	731	560	1199	1069

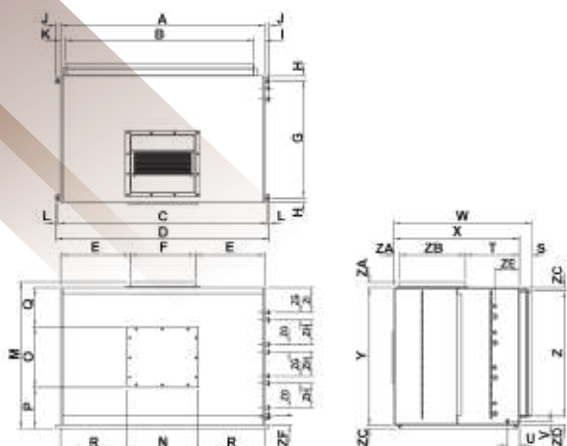
Model / Dimension	I	J	K	L	M	N	O	P	Q	R
400	482	527	50	20	1240	55	115	48	80	97

Model / Dimension	S	T	U	V	W	X	Y	Z	ZA
400	256	267	1546	1451	1326	35	60	129	

Model / Dimension	ZB	ZC	ZD	ZE	ZF	ZG
400	130	232	38	90	114	95

Indoor Unit Dimensions

4FGN500HYL/TL



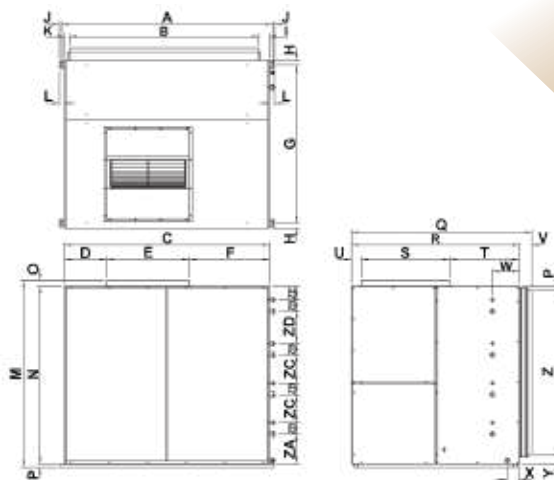
Model / Dimension	A	B	C	D	E	F	G	H
500	2174	2004	2234	2274	740	694	1466	1336

Model / Dimension	I	J	K	L	M	N	O	P	Q	R
500	698	578	50	20	1240	55	115	48	80	101

Model / Dimension	S	T	U	V	W	X	Y	Z	ZA
500	256	262	1546	1451	1326	35	60	129	

Model / Dimension	ZB	ZC	ZD	ZE	ZF	ZG
500	130	264	38	90	38	90

4FGN600HYL/TL



Model / Dimension	A	B	C	D	E	F	G	H
600	1883	1978	1758	2234	2004	1680	20	50

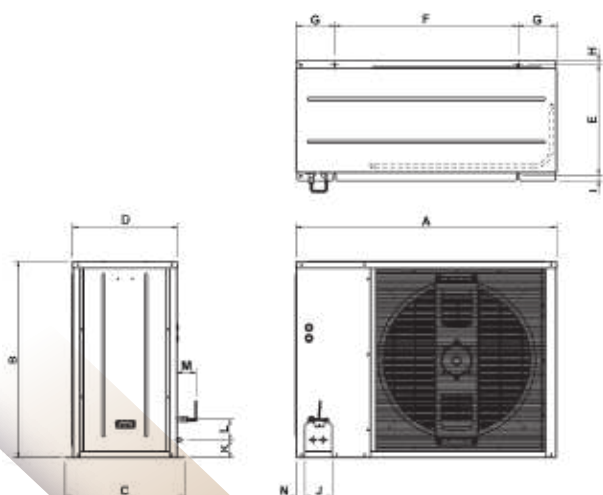
Model / Dimension	I	J	K	L	M	N	O	P	Q
600	115	48	2174	873	451	851	60	35	1905

Model / Dimension	R	S	T	U	V	W	X	Y	Z
600	1775	939	736	100	130	212	129	90	55

Model / Dimension	ZA	ZB	ZC	ZD	ZE	ZF	ZG
600	146	130	232	38	90	114	95

Outdoor Unit Dimensions

RN80HYL/TL

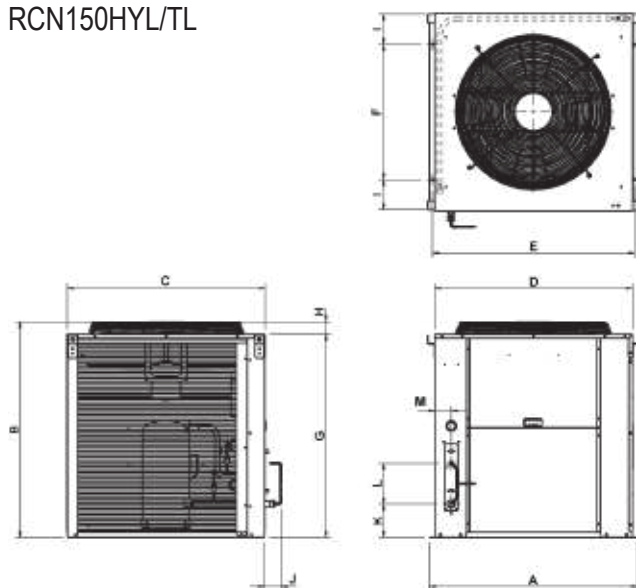


Model / Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RN80HYL/TL	1235	929	568	496	523	869	183	20	25	30	85	99	89	40

RCN100HYL/TL

RCN125HYL/TL

RCN150HYL/TL



Model / Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M
RCN100HYL/TL	930	1067	880		902	569	1006	61	150	80	180	200	81
RCN125HYL/TL	1030		980		002	669					165		
RCN150HYL/TL		1166					1096	70	200				

Ducted Split H Series (60Hz)



INDOOR | 8-60HP



OUTDOOR | 8-15HP

Specification for ducted split H series - Cooling only (R410A)

Indoor model name		FDN80HVL	FDN100HVL	FDN125HYL/TL	FDN150HYL/TL	2FDN200HYL/TL	2FGN250HYL/TL	2FGN300HYL/TL	
Outdoor model name		RN80HYL/TL	RCN100HYL/TL	RCN125HYL/TL	RCN150HYL/TL	RCN100HYL/TLx2	RCN125HYL/TLx2	RCN150HYL/TLx2	
Nominal cooling capacity	Btu/hr	80000	100000	121000	150000	200000	242000	300000	
	W	23447	29308	35463	43962	58617	70926	87925	
Nominal EER		W/W	2.98	2.87	2.89	2.91	2.81(2.86)	2.75(2.81)	2.78(2.81)
Indoor	Power supply	V/Ph/Hz	220V/ 1ø/ 60Hz		380V/3ø/ 60Hz (220V/3ø/ 60Hz)				
	Airflow (H/M/L) or (H only)	cfm	2700/2350/2040	3000/2800/2450	4100	4500	6000	7500	9000
	External static pressure (H/M/L) or (H only)	Pa	100/75/60	100/90/70	150			200	
	Sound pressure level (H/M/L) or (H only)	dBA	52/50/47	55/54/53	56		61	63	66
	Dimensions (HxWxD)	mm	553x1402x605		776x1540x850		885x1794x850	1231x1766x1069	
	Net weight	kg	85	85	159		196	323	337
Outdoor	Power supply	V/Ph/Hz	380V/3ø/ 60Hz (220V/3ø/ 60Hz)						
	Sound pressure level	dBA	69	65		70	65		70
	Dimensions (HxWxD)	mm	929x1235x496	1067x880x880	1067x980x980	1166x980x980	1067x880x880	1067x980x980	1166x980x980
	Net weight	kg	111(109)	135(134)	157	177	135(134)	157	177
	Pipe connection - Liquid	mm / in.	12.7 / ½			15.88 / ¾	12.7 / ½		15.88 / ¾
	Pipe connection - Gas	mm / in.	22.23 / ¾	25.40 / 1	28.58 / 1¼	34.92 / 1½	25.40 / 1	28.58 / 1¼	34.92 / 1½
	Max. piping length	m	75						
	Max. piping elevation	m	30						

Indoor model name		3FGN300HYL/TL	3FGN350HYL/TL		4FGN400HYL/TL	3FGN450HYL/TL	4FGN500HYL/TL	4FGN600HYL/TL	
Outdoor model name		RCN100HYL/TLx3	RCN100HYL/TL	RCN125HYL/TLx2	RCN100HYL/TLx4	RCN150HYL/TL x3	RCN125HYL/TLx4	RCN150HYL/TLx4	
Nominal cooling capacity	Btu/hr	300000	342000		400000	450000	484000	600000	
	W	87925	100234		117233	131887	141852	175850	
Nominal EER	W/W	2.80 (2.84)	2.71 (2.76)		2.82 (2.86)	2.77 (2.80)	2.64 (2.69)	2.76 (2.79)	
Indoor	Power supply	V/Ph/Hz	380V/3ø/ 60Hz (220V/3ø/ 60Hz)						
	Airflow	cfm	9000	10500		12000	13500	15000	18000
	External static pressure	Pa	200			250			300
	Sound pressure level	dBA	66				68		70
	Dimensions (HxWxD)	mm	1231x1766x1069	1486x2022x1069		1486x2174x1336			1918x2174x1775
	Net weight	kg	337	431		488	533	580	899
Outdoor	Power supply	V/Ph/Hz	380V/3ø/ 60Hz (220V/3ø/ 60Hz)						
	Sound pressure level	dBA	65				70	65	70
	Dimensions (HxWxD)	mm	1116x980x980	1067x880x880	1067x980x980	1067x880x880	1166x980x980	1067x980x980	1166x980x980
	Net weight	kg	135(134)		157	135(134)	177	157	177
	Pipe connection - Liquid	mm / in.	12.7 / ½				15.88 / ¾	12.7 / ½	15.88 / ¾
	Pipe connection - Gas	mm / in.	25.40 / 1		28.58 / 1½	25.40 / 1	34.92 / 1½	28.58 / 1½	34.92 / 1½
	Max. piping length	m	75						
	Max. piping elevation	m	30						

NOTE:
 * THE CONDENSING UNIT IS SHIPPED WITH ONLY NITROGEN HOLDING CHARGE. REFRIGERANT CHARGING IS REQUIRED AT SITE.
 * ALL UNITS ARE BEING TESTED AND COMPLY TO ISO9511 (NON-DUCTED UNIT) OR ISO13253 (DUCTED UNIT).

บริษัท บี.เค.แอร์ซัพพลาย จำกัด

611,613 ถนนพระราม3 แขวงบางโพงพาง เขตยานนาวา กรุงเทพมหานคร 10120
 T: 02-284-2826 02-294-5260 02-294-5261 02-294-2972 F: 02-294-2973
 email: bkairsupply@hotmail.com LINE ID: @bkairsupply



ข้อมูลเพิ่มเติม