



Midea LC Range

LC Product Range



Product	Gas	Capacity (Btu/hr)														
		18K			24K			36K		48K	50K	66K	102K	132K	204K	
Cassette																
Inverter Cassette																
Medium Static Duct																
High Static Duct																
Floor Standing																



Cassette

Cassette Unit- R410A

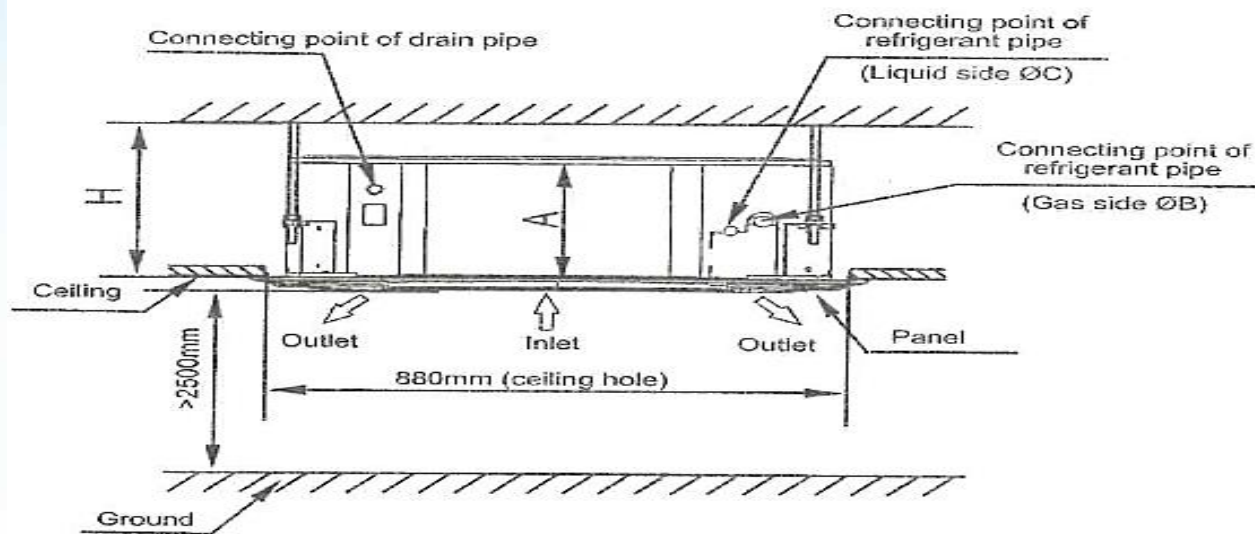
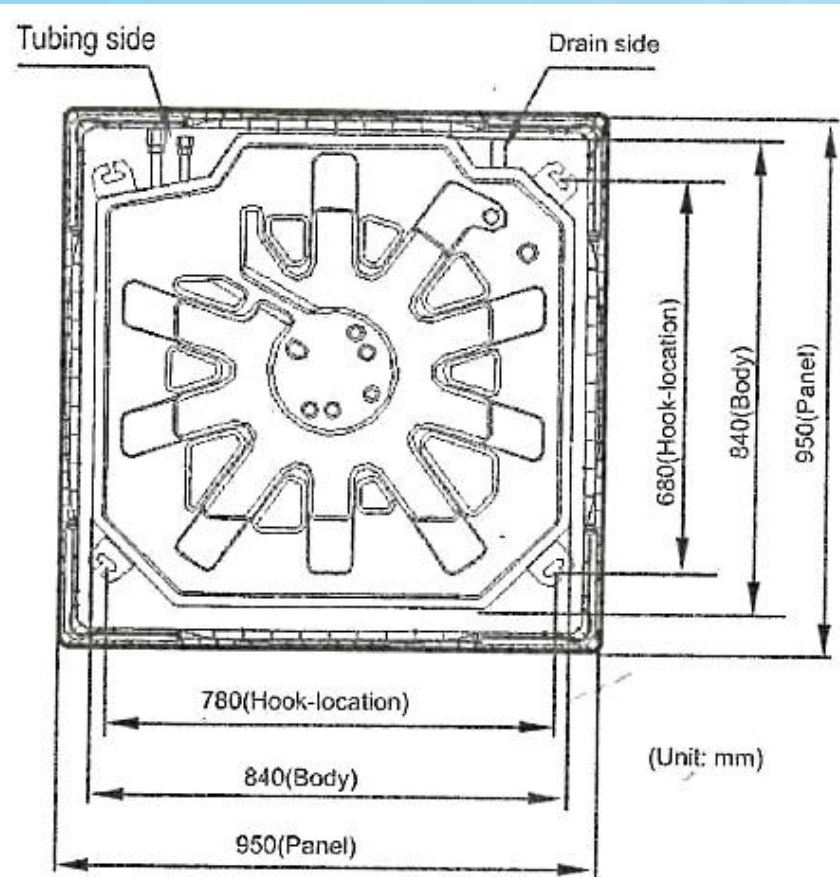


Updated: 08112019

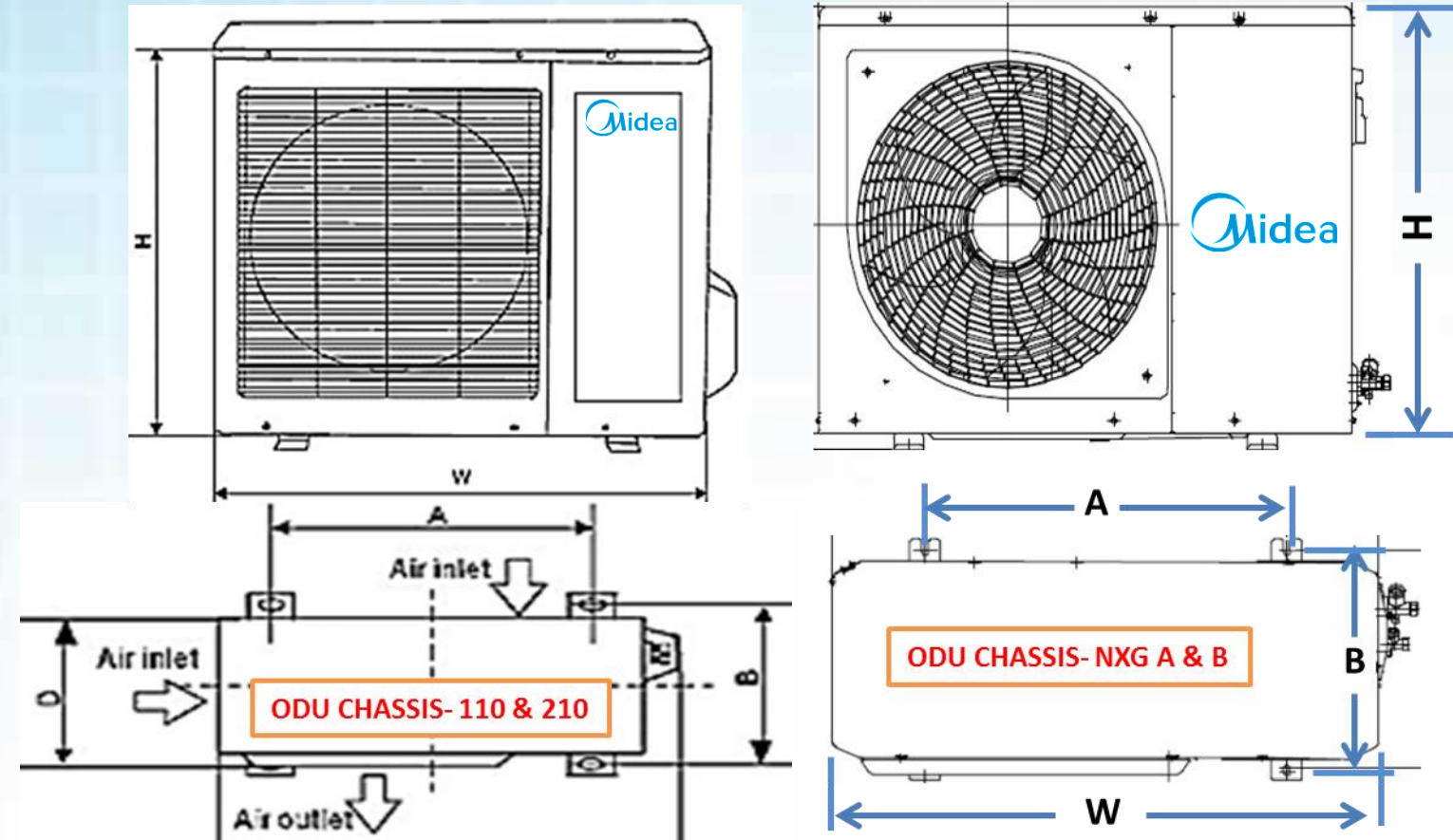
Cassette Unit- R410A		18K Cassette (1 Star)	18K Cassette (2 Star)	24K Cassette (1 Star)	24K Cassette (2 Star)	36K Cassette	48K Cassette
FG Model No/ Code	Unit	MCAC18RY1C2	MCAC18RY2C2	MCAC24RY1C2	MCAC24RY2C2	MCAC36RSC2	MCAC48RSC2
FG Code		224050052470@CMI	224050052500@CMI	224050052560@CMI	224050052590@CMI	224050052830@CMI	224050061620@CMI
IDU Code		224050052480@CMI	224050052510@CMI	224050052570@CMI	224050052600@CMI	224050052840@CMI	224050061600@CMI
ODU Code		224050052490@CMI	224050052520@CMI	224050052580@CMI	224050052610@CMI	224050052850@CMI	224050061610@CMI
Cooling Capacity	TR/ Kw/ BTU	1.5 / 5.275 / 17999	1.5 / 5.340 / 18220	2.0 / 6.200 / 21155	2.0 / 6.380 / 21769	3.0 / 10.6 / 36000	4.0 / 14.07 / 48000
Operating Power	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	380~415-3-50	380~415-3-50
Total Input Power/ Current	Watts / A	1640 / 7.2	1580 / 6.65	1925 / 8.6	1915 / 8.35	3900 / 6.8	5000 / 8.8
Annual Power Consumption	Watts	1269.53	1223.09	1490.16	1482.41	NA	NA
ISEER	Watts/Watts	3.22	3.38	3.22	3.33	NA	NA
Air Flow Volume (Max)	CMH/ cfm	1220 / 718	1220 / 718	1220 / 718	1220 / 718	1648 / 970	1648 / 970
Noise Level (Max-Min)	dB(A)	47 ~ 35	47 ~ 35	47 ~ 35	47 ~ 35	50 ~ 43	50 ~ 43
Compressor	Make & Type	GMCC- Rotary	GMCC- Rotary	GMCC- Rotary	GMCC- Rotary	Emerson- Scroll	Emerson- Scroll
Pipe Size (Liquid / Gas)	Inch	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"
Metering Device	Orific & Capillary	In IDU	In IDU	In IDU	In IDU	In IDU	In IDU
Insulation Thickness (Liquid/ Gas)	mm	13 / 13	13 / 13	13 / 13	13 / 13	13 / 19	13 / 19
Max. Pipe length	Meters	20	20	25	25	30	30
Max. Height Difference	Meters	8	8	10	10	10	10
U Trap in Gas Pipe (ODU above)	Nos / meters	at every 4 m	at every 4 m	at every 4 m	at every 4 m	at every 4 m	at every 4 m
Main Input Power Location	IDU/ ODU	at IDU	at IDU	at ODU	at ODU	at ODU	at ODU
Main Power wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 4 + E	Cu / 2.5 / 4 + E
Inter Connecting wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 3 + E	Cu / 2.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E
Pre gas charge qty for 7.5 M length	Kg	R410A - 0.9 Kg	R410A - 1.2 Kg	R410A - 1.15 Kg	R410A - 1.8 Kg	R410A - 2.0 Kg	R410A - 2.05 Kg
Additional Gas sty/ Mtrs	gm	20	20	50	50	50	50
Net dimension IDU (W x D x H)	mm	840 x 840 x 230	840 x 840 x 230	840 x 840 x 230	840 x 840 x 230	840 x 840 x 300	840 x 840 x 300
Net dim. Panel (W x D x H)	mm	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55
Net dim. ODU (W x D x H)/ Chassis	mm	780x250x540/W110	900x320x670/NXG-A	845x320x700/W210	845x320x700/W210	900x320x820/NXG-B	900x320x820/NXG-B
Net weight (IDU/ ODU)	Kg/ Kg	29 / 36	29 / 46	29 / 48	29 / 48	32 / 64	34 / 70
Ceiling cutout dimension (W x D)	mm	880 x 880	880 x 880	880 x 880	880 x 880	880 x 880	880 x 880
Air Filter built-in	Yes / No	Yes	Yes	Yes	Yes	Yes	Yes
Drain Pump/ Head	mm	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750
Drain Pipe Dia	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Ambient operating Range	°C	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50
Remote (Codeless/ Coded)	Inbuilt / Optional	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA
RCBO Rating (300mA)	Pole / Class- Amp	DP / C- 16	DP / C- 16	DP / C- 20	DP / C- 20	TPN / C- 16	TPN / C- 20



Cassette Unit- 1.5 ~ 4.0 TR-R410A-GA Drawing



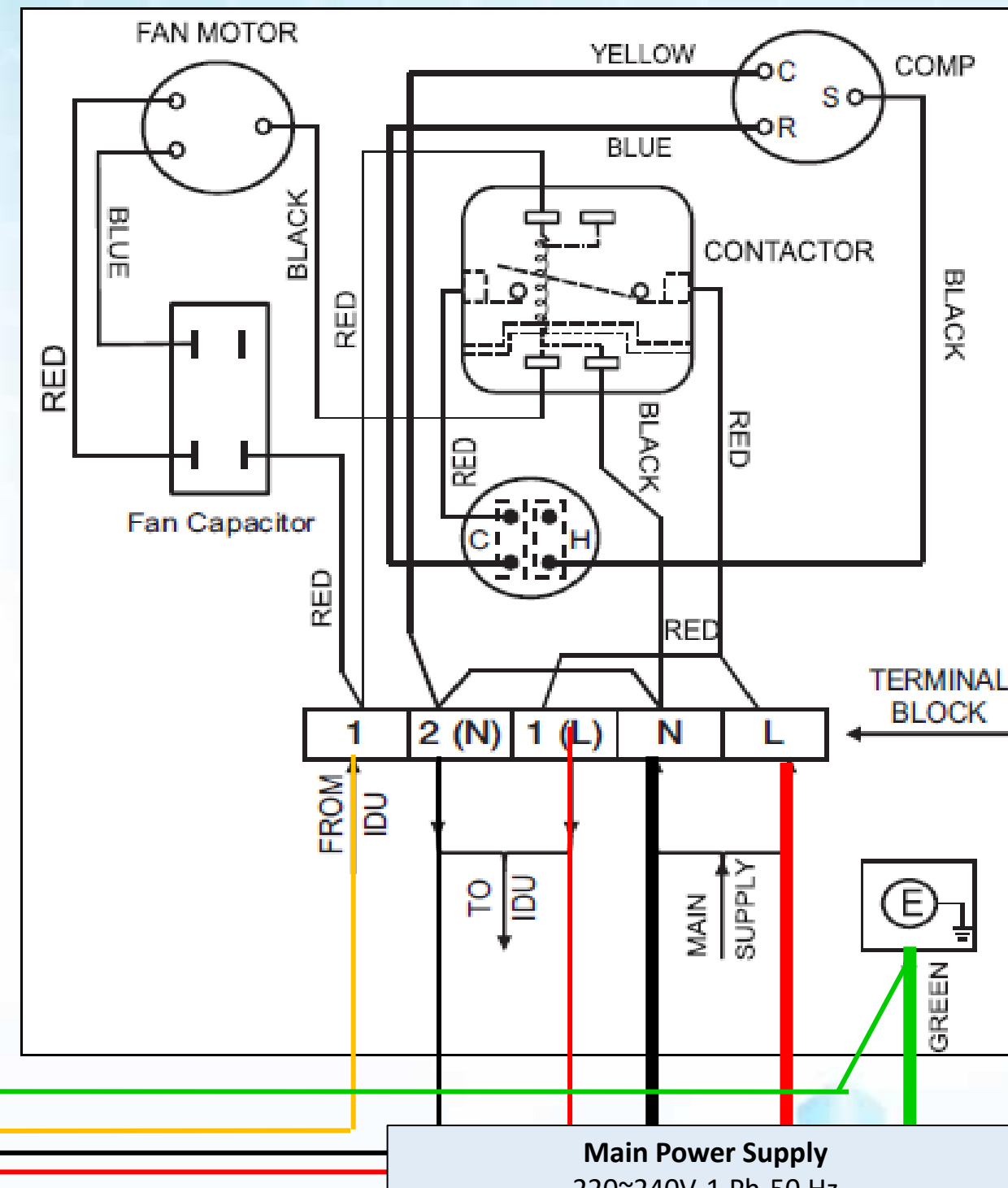
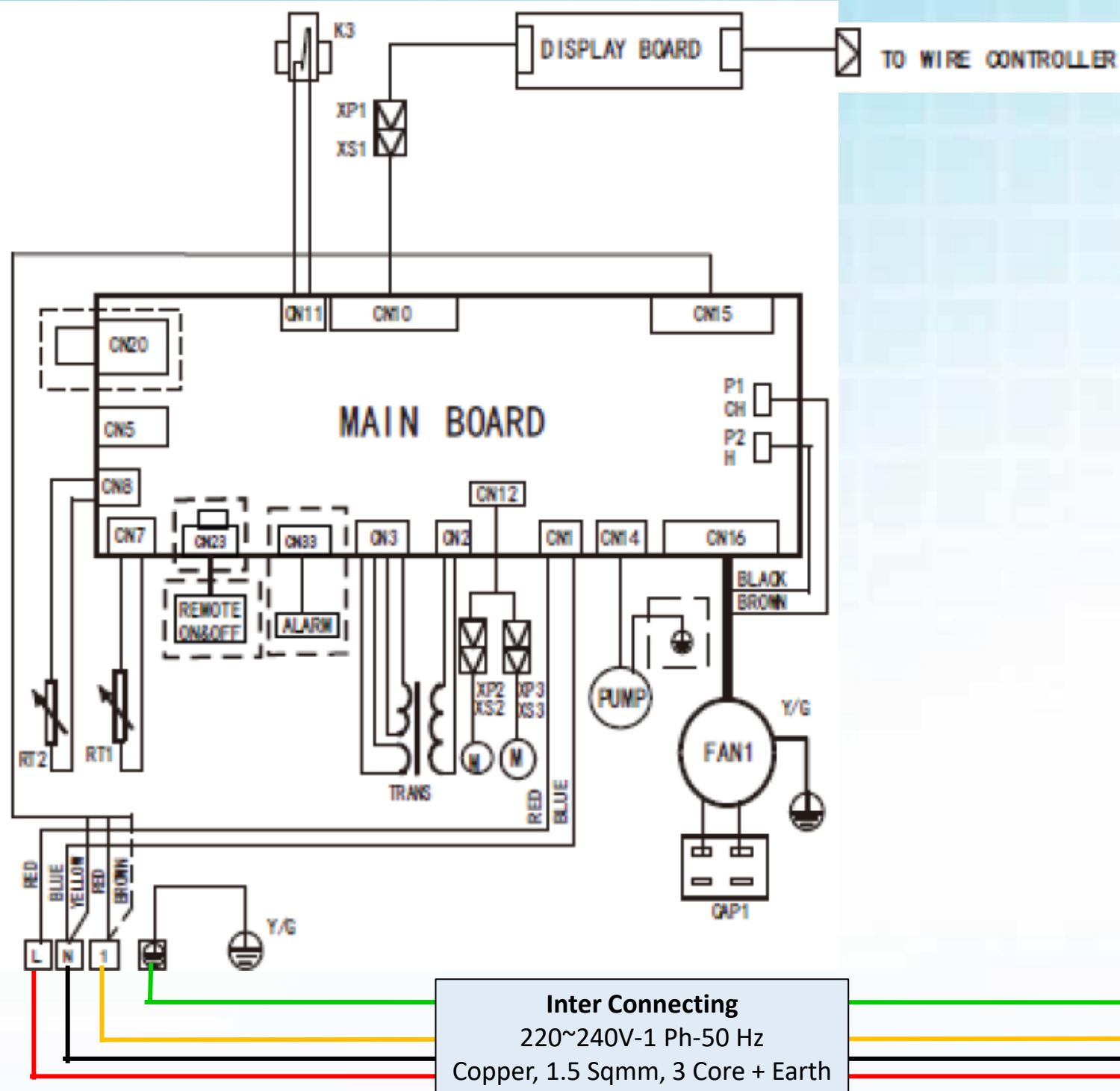
MODEL	A	H	
18	230	> 260	R410A & R22
24	230	> 260	R410A & R22
	300	> 330	R410A & R22
30-60	300	> 330	R410A & R22



Units	ODU Chassis Dimension & Footprint in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
18K 1 Star Cassette	W 110	780	250	540	549	276
18K 2 Star Cassette	NXG- A	900	320	670	600	360
24K 1 & 2 Star Cassette	W 210	845	320	700	560	335
36K, 48K & 50K Cassette	NXG- B	900	320	820	600	360



Cassette Unit- 1.5 & 2.0 TR- R410A- Field Wiring

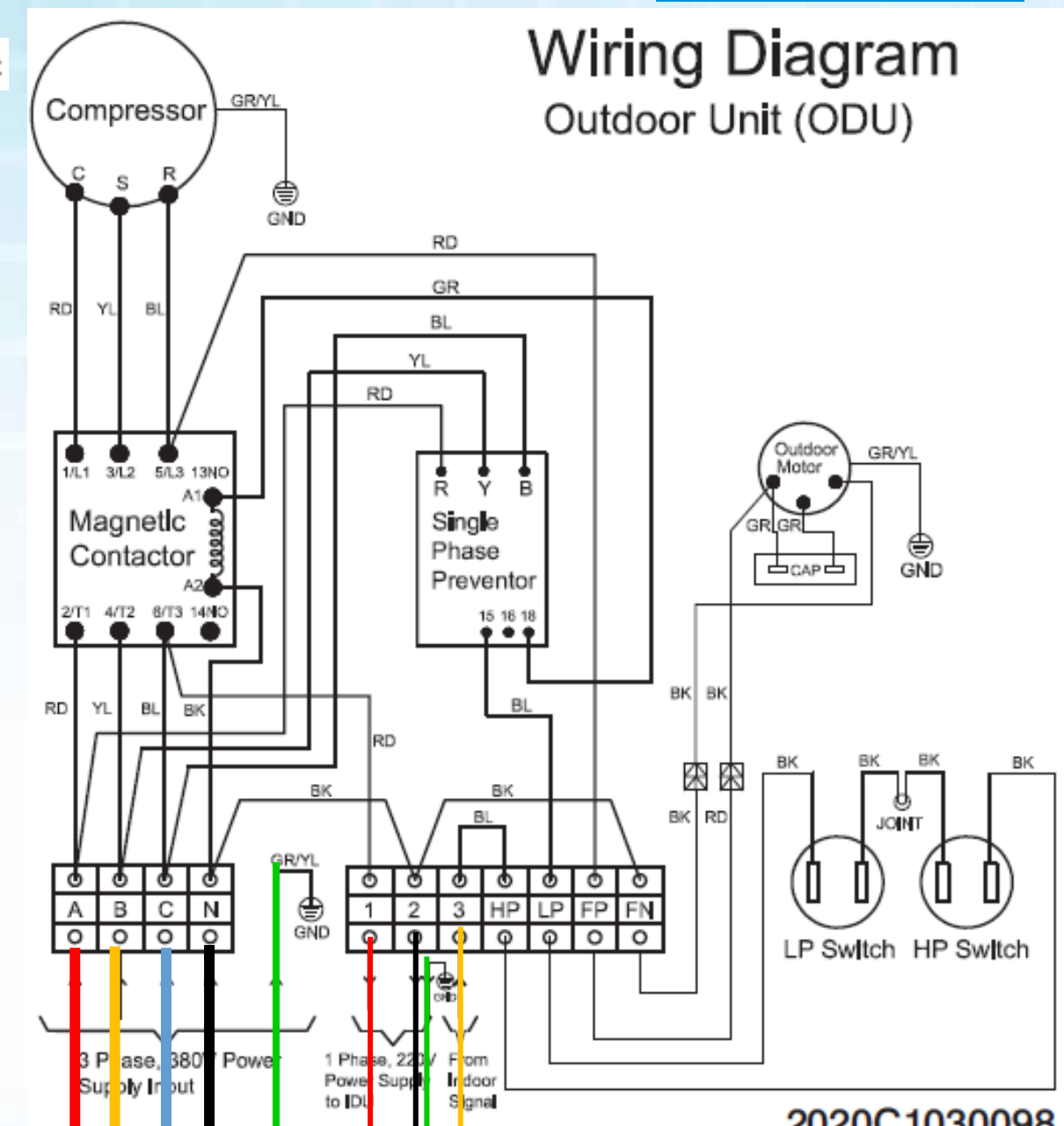
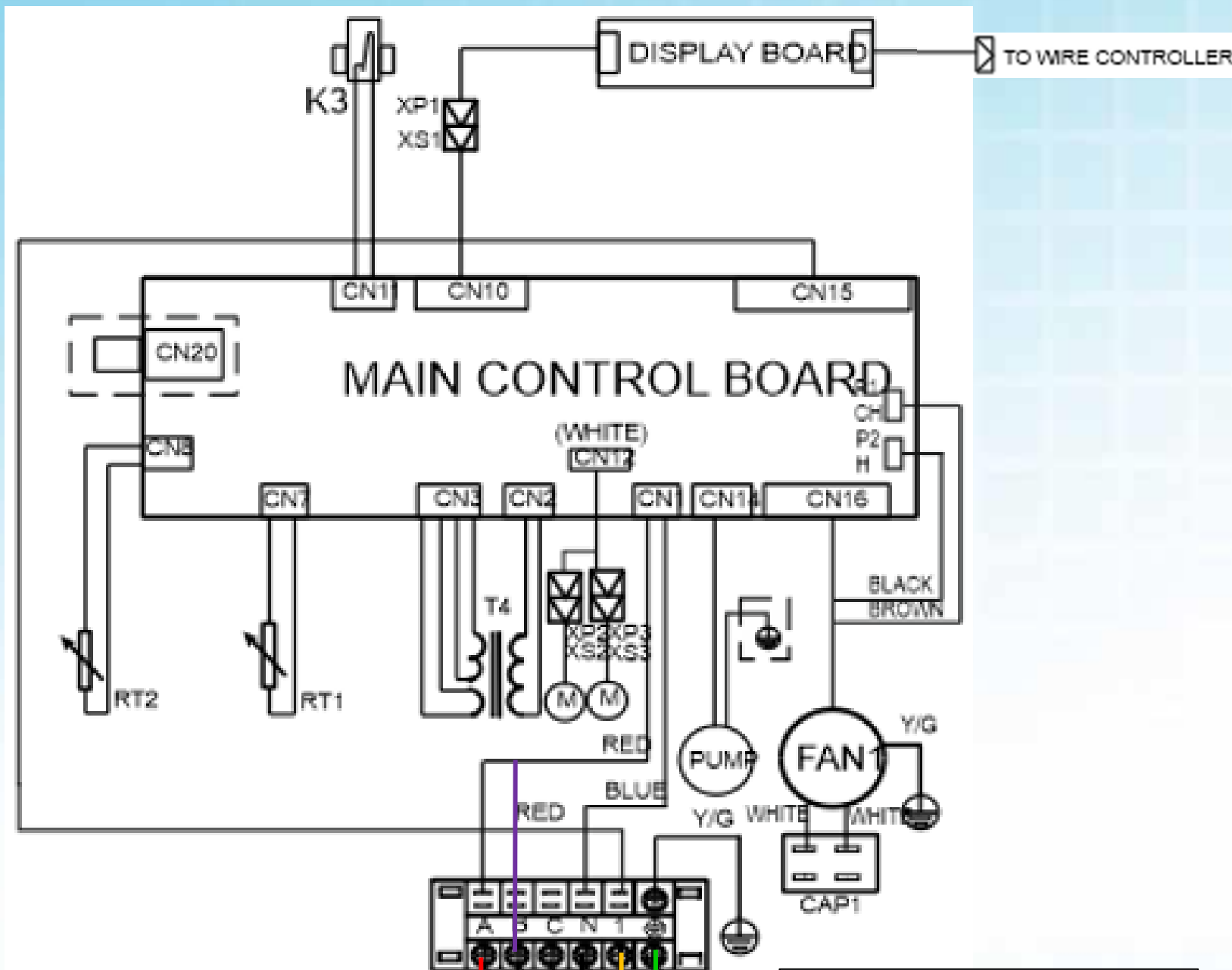


Inter Connecting
220~240V-1 Ph-50 Hz
Copper, 1.5 Sqmm, 3 Core + Earth

Main Power Supply
220~240V-1 Ph-50 Hz
1.5 TR: Copper, 1.5 Sqmm, 2 Core + Earth
2.0 TR: Copper, 2.5 Sqmm, 2 Core + Earth



Cassette Unit- 3.0 & 4.0- R410A- Field Wiring



Inter Connecting
 220~240V-1 Ph-50 Hz
 Copper, 1.5 Sqmm, 3 Core + Earth

Main Power Supply
 380~415V-3 Ph-50 Hz
 3 TR & 4 TR Copper, 2.5 Sqmm, 4 Core + Earth

2020C1030098



Cassette Unit- 1.5 ~ 4.0 TR- R410A- Error Code



Cassette Unit				
Error Code at IDU Display	Error code with IDU LED	Error code thru LED in Power Scanner at ODU	Error Description	Applicable for unit
E2	Timer LED Blink @1/ Sec	NA	Room Sensor faulty	1.5 ~ 4.2 TR
E3	Operation LED Blink @1/ Sec	NA	Coil Sensor faulty	1.5 ~ 4.2 TR
E7	Timer & Operation LED Blink @1/ Sec	NA	Non-volatile memory failure	1.5 ~ 4.2 TR
E8	Alarm LED Blink @1/ Sec	NA	Float Switch failure/ Jam	1.5 ~ 4.2 TR
E9	DEF/FAN LED Blink @1/ Sec	NA	Defrost fault	1.5 ~ 4.2 TR
H1	Operation & Alarm LED Blink @1/ Sec	NA	High pressure trip	1.5 ~ 4.2 TR
L1	Timer & DEF/FAN LED Blink @1/ Sec	NA	Low pressure trip	1.5 ~ 4.2 TR
CE		NA	Communication fault	1.5 ~ 4.2 TR
	NA	Red LED Glow continuously	Power Healthy	3 ~ 4.2 TR
	NA	Red LED Off	Any of Phase Loss	3 ~ 4.2 TR
	NA	Red LED Fast Blink (2/Sec)	Voltage unbalance	3 ~ 4.2 TR
	NA	Red LED Slow Blink (1/Sec)	Incorrect Phase Sequence	3 ~ 4.2 TR



IDU Display & LED



Power Scanner in ODU



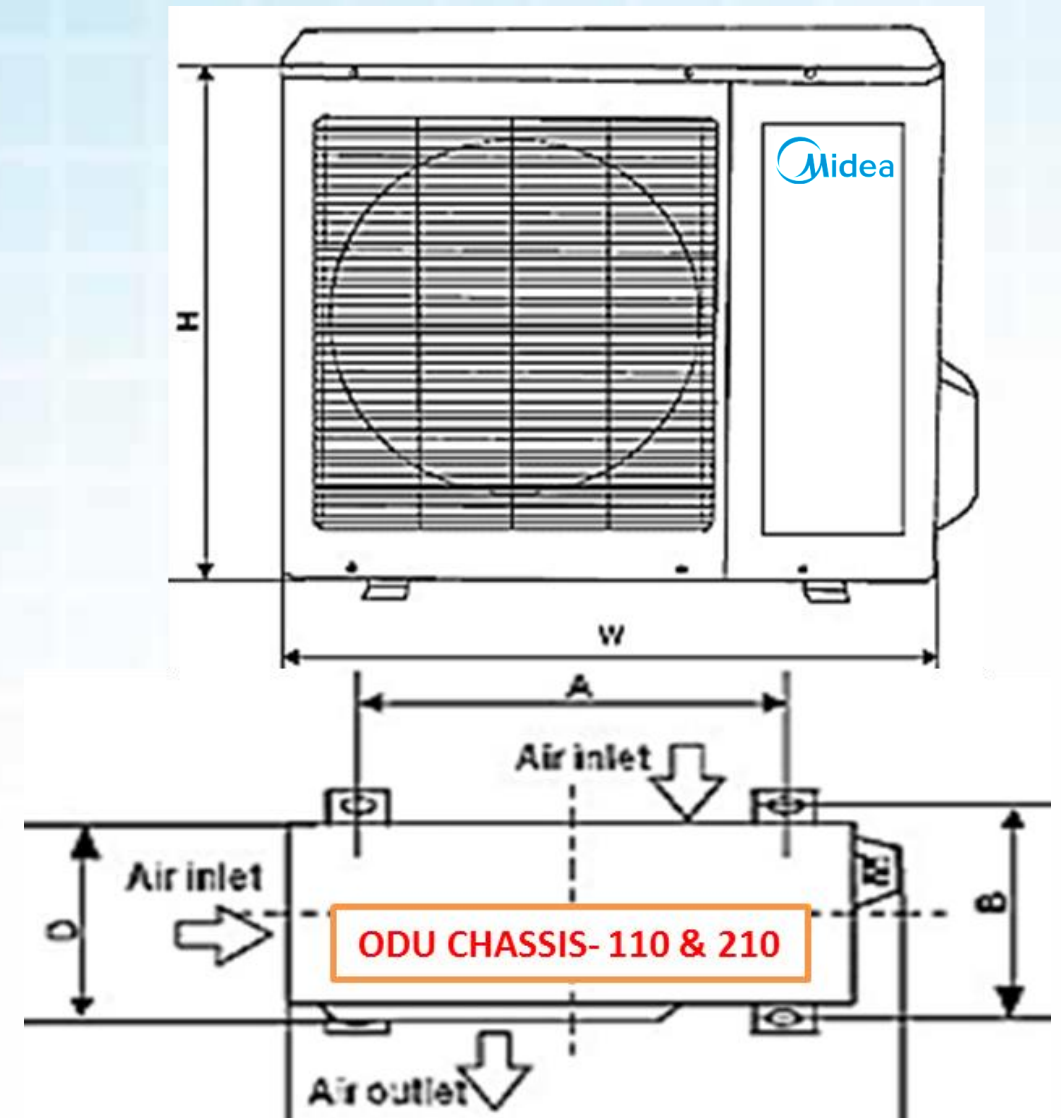
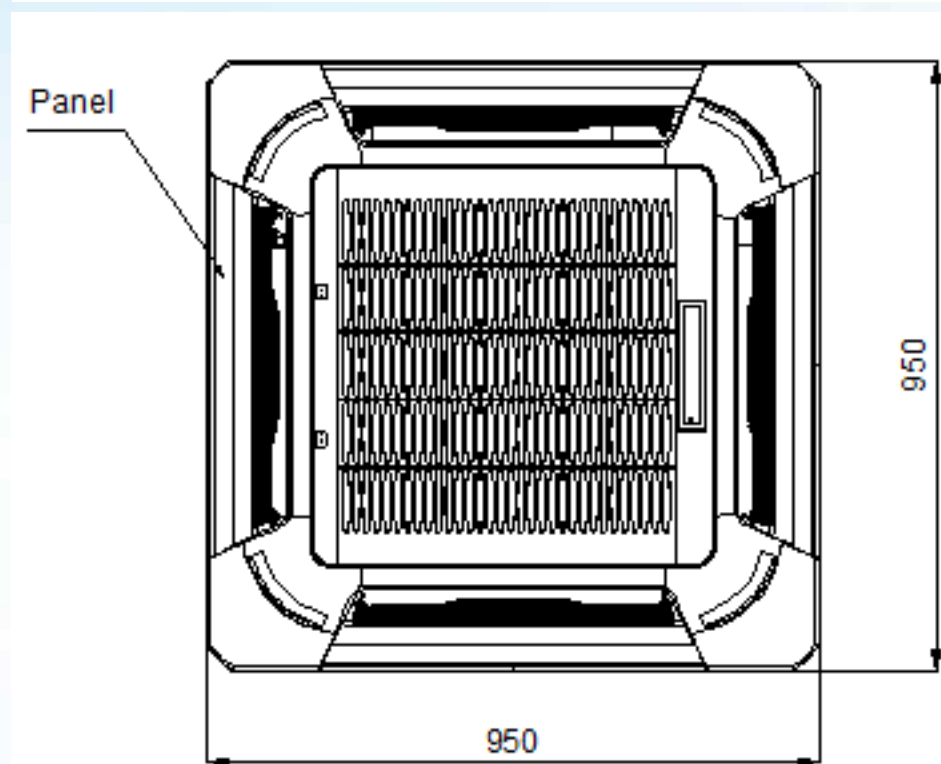
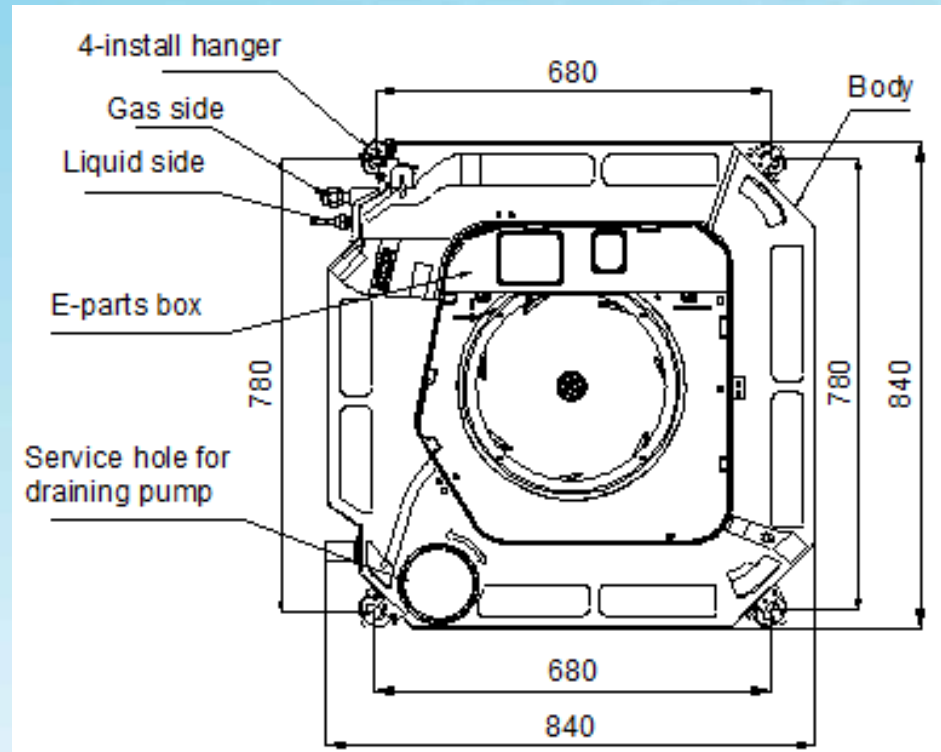
Inverter Cassette

Inverter Cassette Unit- R32



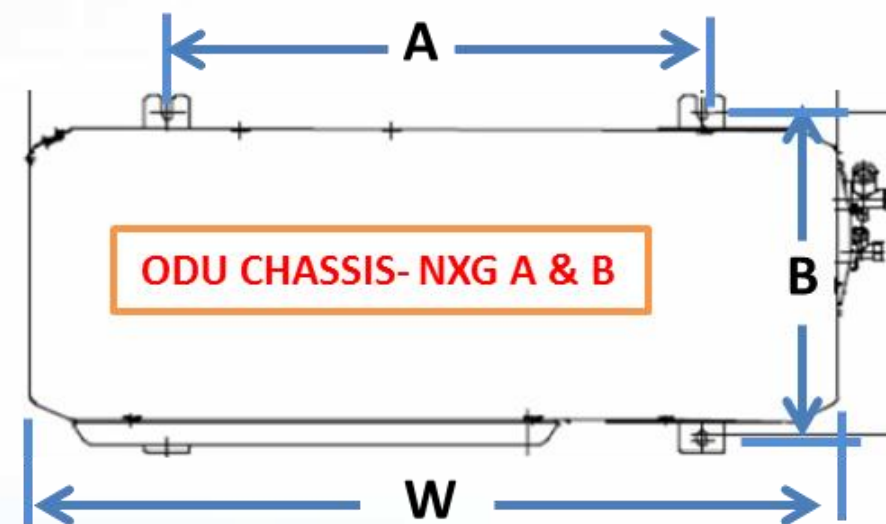
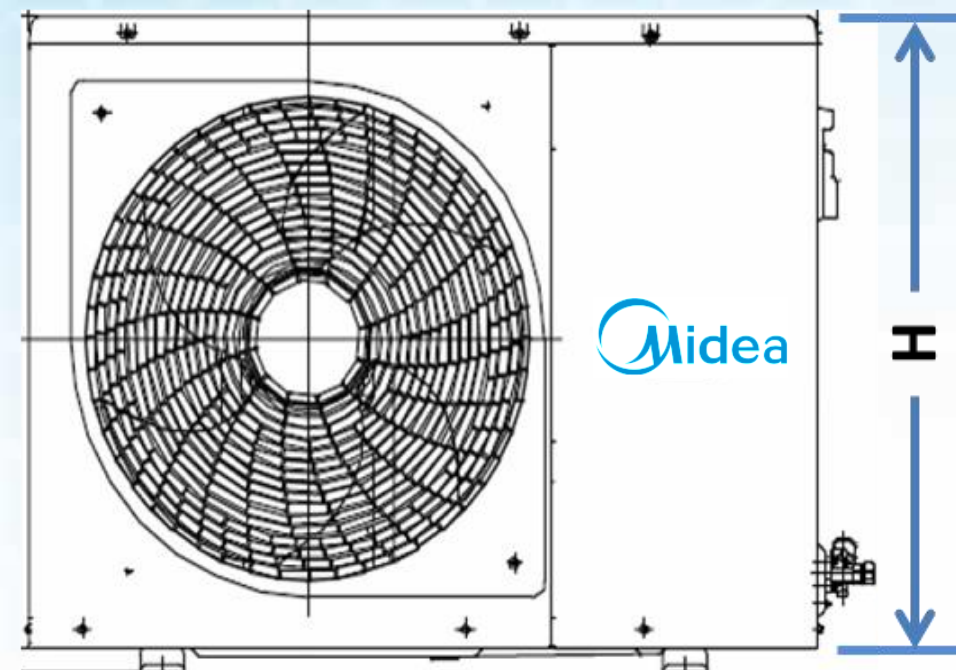
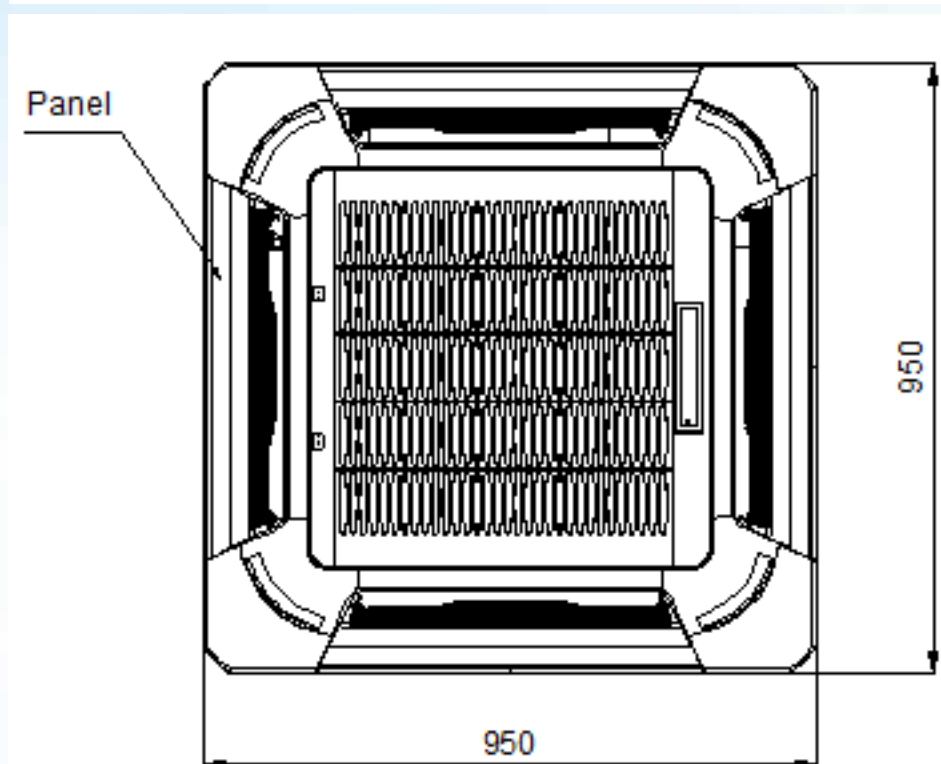
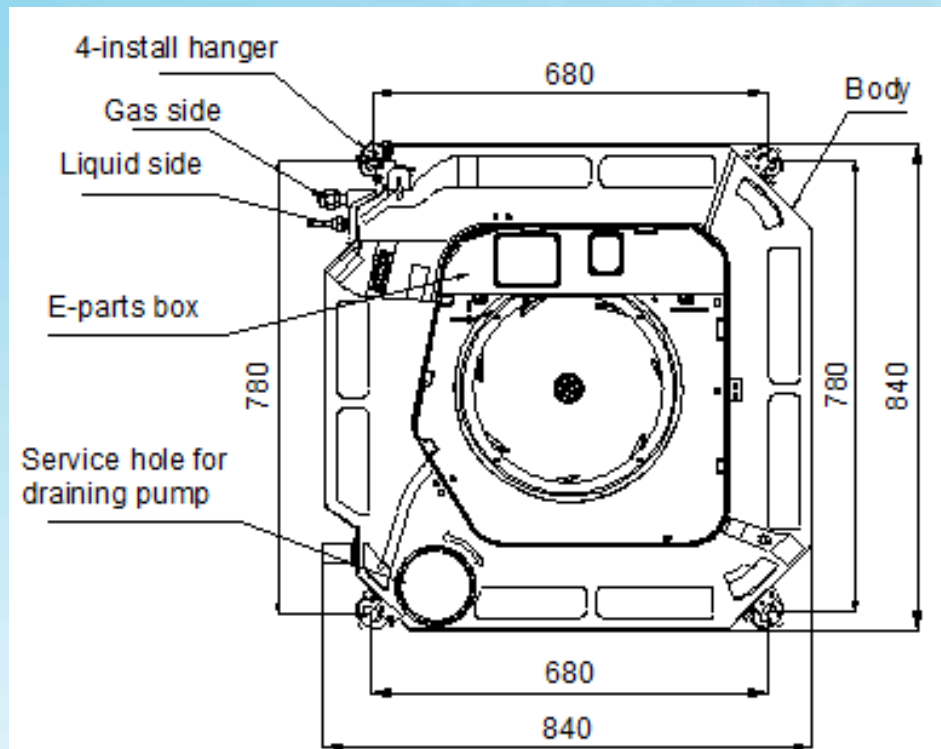
Inverter Cassette Unit- R32							Updated: 08112019
Description	Unit	18K Inverter Cassette (3 Star)	24K Inverter Cassette (3 Star)	36K Inverter Cassette (1 Star)	36K Inverter Cassette	48K Inverter Cassette	
FG Model No/ Code		MCAI018RY3CR3	MCAI024RY3CR3	MCAI036RY1CR3S	MCAI036RY0CR3T	MCAI048RY0CR3T	
FG Code		224050067980@CMI	224050068010@CMI	224050069390@CMI	224050069010@CMI	224050069120@CMI	
IDU Code		224050067960@CMI	224050067990@CMI	224050069370@CMI	224050068990@CMI	224050069100@CMI	
ODU Code		224050067970@CMI	224050068000@CMI	224050069380@CMI	224050069000@CMI	224050069110@CMI	
Operating Power	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	380~415-3-50	380~415-3-50	
Cooling Capacity (Full)	TR/ Kw/ BTU	1.51 / 5.300 / 18084	1.79 / 6.3 / 21496	3.01 / 10600 / 36167	3.04 / 10700 / 36508	4.0 / 14068 / 48000	
Cooling Capacity (Half)	TR/ Kw/ BTU	0.73 / 2.650 / 8758	0.89 / 3.150 / 10748	1.5 / 5300 / 18084	1.52 / 5350 / 18254	2.0 / 7034 / 24000	
Total Input Power/ Current (Full)	Watts / A	1750 / 7.7	2015 / 8.85	3650 / 15.74	3850 / 6.84	5700 / 8.75	
Total Input Power/ Current (Half)	Watts / A	690 / 3.04	555 / 2.44	1650 / 7.43	1725 / 2.9	2100 / 3.45	
Annual Power Consumption	Watts	1111.93	1333.35	2502.35	2626.30	3489.99	
ISEER	Watts / Watts	3.69	3.66	3.28	3.15	3.12	
Noise Level (Max-Min)	dBa	47 ~ 35	47 ~ 35	50 ~ 43	50 ~ 43	50 ~ 43	
Compressor	Make & Type	GMCC / DC Inverter	GMCC / DC Inverter	GMCC / DC Inverter	GMCC / DC Inverter	GMCC / DC Inverter	
Pipe Size (Liquid / Gas)	Inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	
Metering Device	Orific & Capillary	Capillary in ODU	Capillary in ODU	Capillary in ODU	Orifice in IDU	Orifice in IDU	
Insulation Thickness (Liquid/ Gas)	mm	13 / 13	13 / 13	13 / 19	13 / 19	13 / 19	
Max. Pipe length	Meters	30	30	50	50	50	
Max. Height Difference	Meters	20	20	20	20	20	
U Trap in Gas Pipe (ODU above)	Nos / meters	at every 4 m	at every 4 m	at every 4 m	at every 4 m	at every 4 m	
Main Input Power Location	IDU/ ODU	at IDU	at IDU	at ODU	at ODU	at ODU	
Main Power wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 4 + E	Cu / 2.5 / 4 + E	Cu / 2.5 / 4 + E	
Inter Connecting wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 3 + E	Cu / 2.5 / 4 + E	Cu / 1.5 / 2 + E	Cu / 1.5 / 2 + E	Cu / 1.5 / 2 + E	
Communication wire	Type/ Sqmm / Core	NA	NA	Cu shielded/ 1.5 / 2 Core	Cu shielded/ 1.5 / 2 Core	Cu shielded/ 1.5 / 2 Core	
Pre gas charge qty for 7.5 M length	Kg	R 32 - 0.850 Kg	R 32 - 1.0 Kg	R 32- 1.65 Kg	R 32 - 1.825 Kg	R 32 - 1.825 Kg	
Additional Gas sty/ Mtrs	gm	??	??	50	50	50	
Net dimension IDU (W x D x H)	mm	840 x 840 x 230	840 x 840 x 230	840 x 840 x 300	840 x 840 x 300	840 x 840 x 300	
Net dim. Panel (W x D x H)	mm	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	
Net dim. ODU (W x D x H)/ Chassis	mm	780x250x540/W110	845x320x700/W210	900x320x820/NXG-B	900x320x820/NXG-B	900x320x820/NXG-B	
Net weight (IDU/ ODU)	Kg/ Kg	29 / 36	29 / 48	33 / 53	33 / 59	33 / 61	
Ceiling cutout dimension (W x D)	mm	880 x 880	880 x 880	880 x 880	880 x 880	880 x 880	
Air Filter built-in	Yes / No	Yes	Yes	Yes	Yes	Yes	
Drain Pump/ Head	mm	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	Inbuilt/ 750	
Drain Pipe Dia	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	
Ambient operating Range	°C	18 ~ 52	18 ~ 52	18 ~ 52	18 ~ 52	18 ~ 52	
Remote (Codeless/ Coded)	Inbuilt / Optional	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	Inbuilt / NA	
RCBO Rating (300mA)	Pole / Class- Amp	DP / C- 16	DP / C- 20	DP / C- 25	TPN / C- 16	TPN / C- 20	

Inverter Cassette -1.5 & 2 TR- R32- GA Drawing



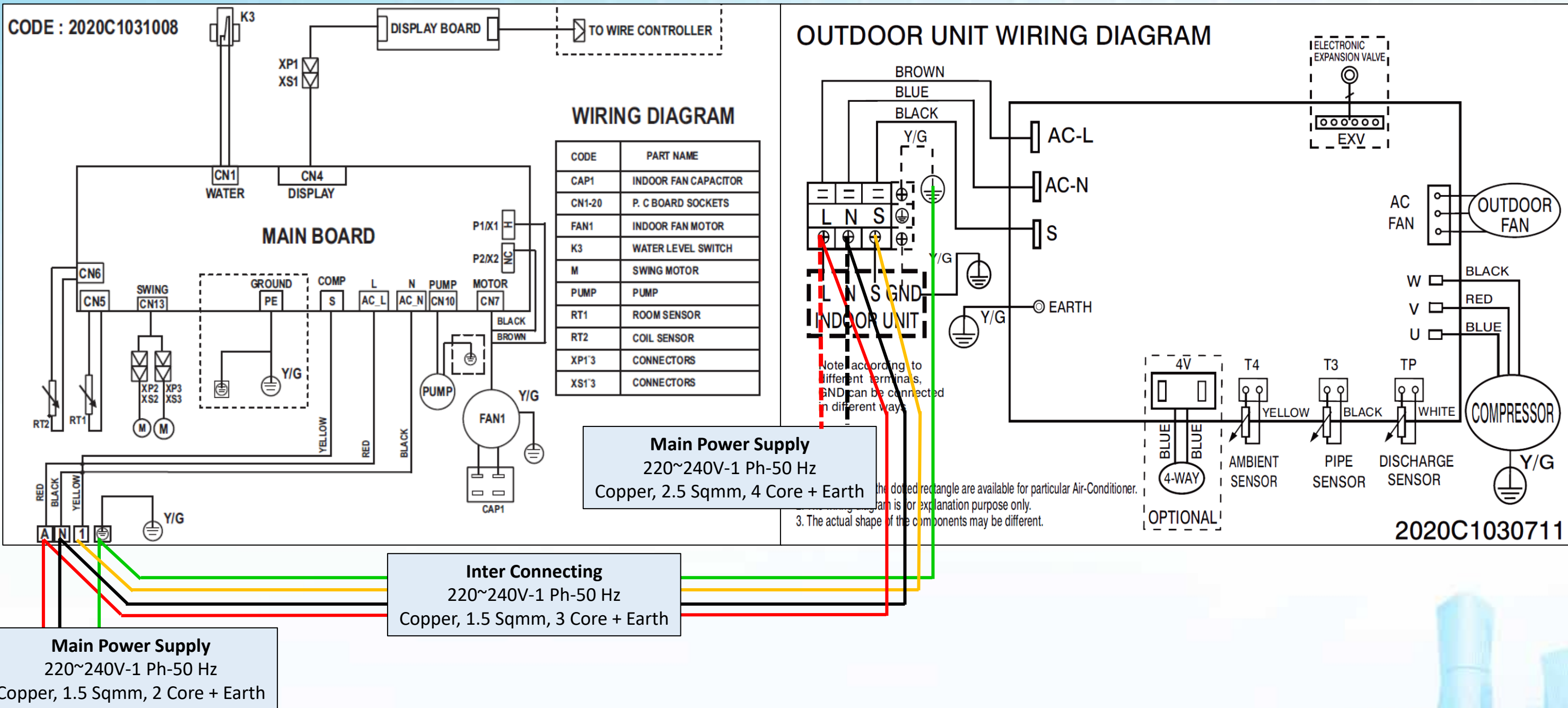
Units	ODU Chassis Dimension & Footprint in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
18K Inverter Cassette	W 110	780	250	540	549	276
24K Inverter Cassette	W 210	845	320	700	560	335

Inverter Cassette Unit- 3 & 4 TR- R410A- GA Drawing

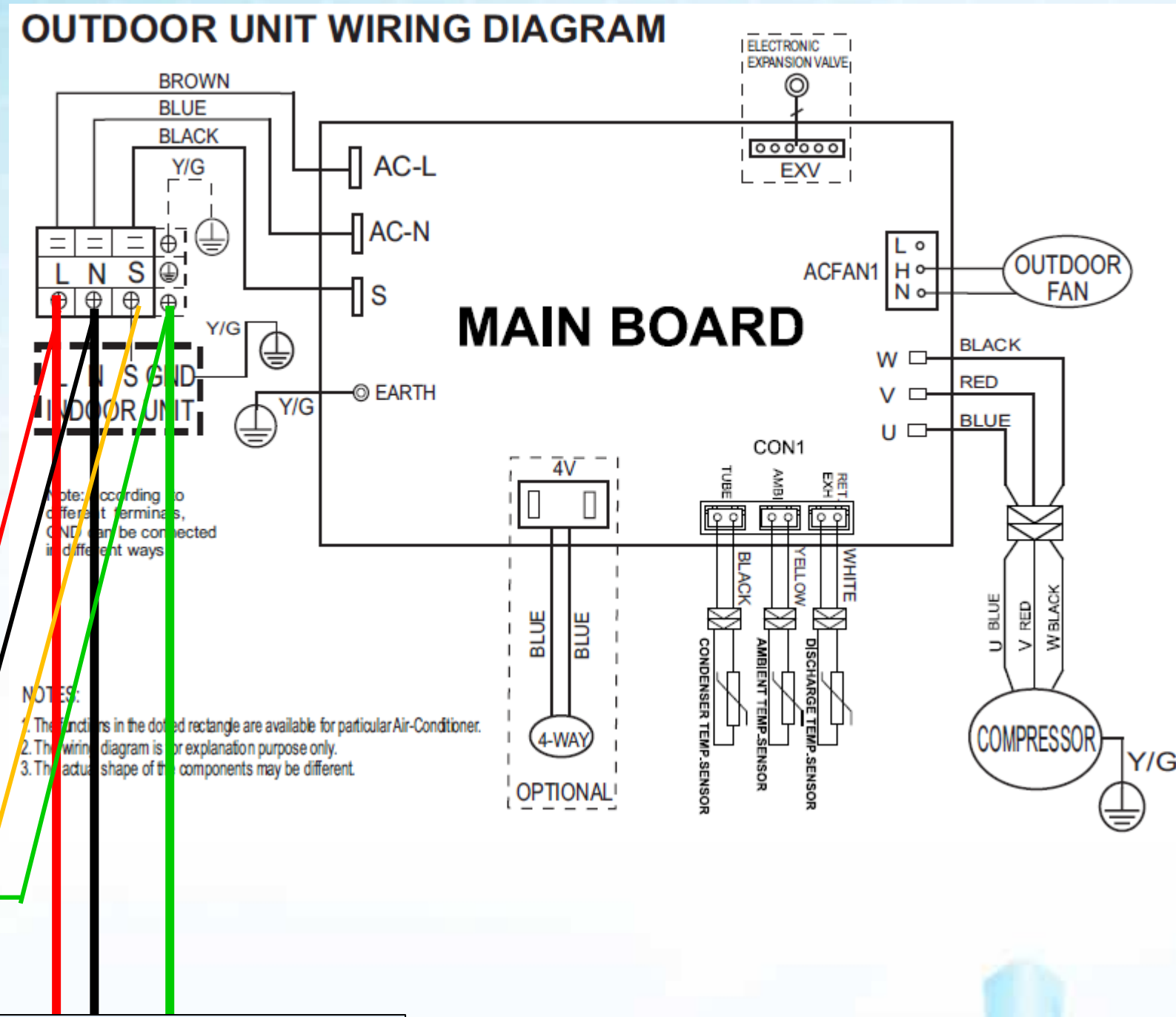
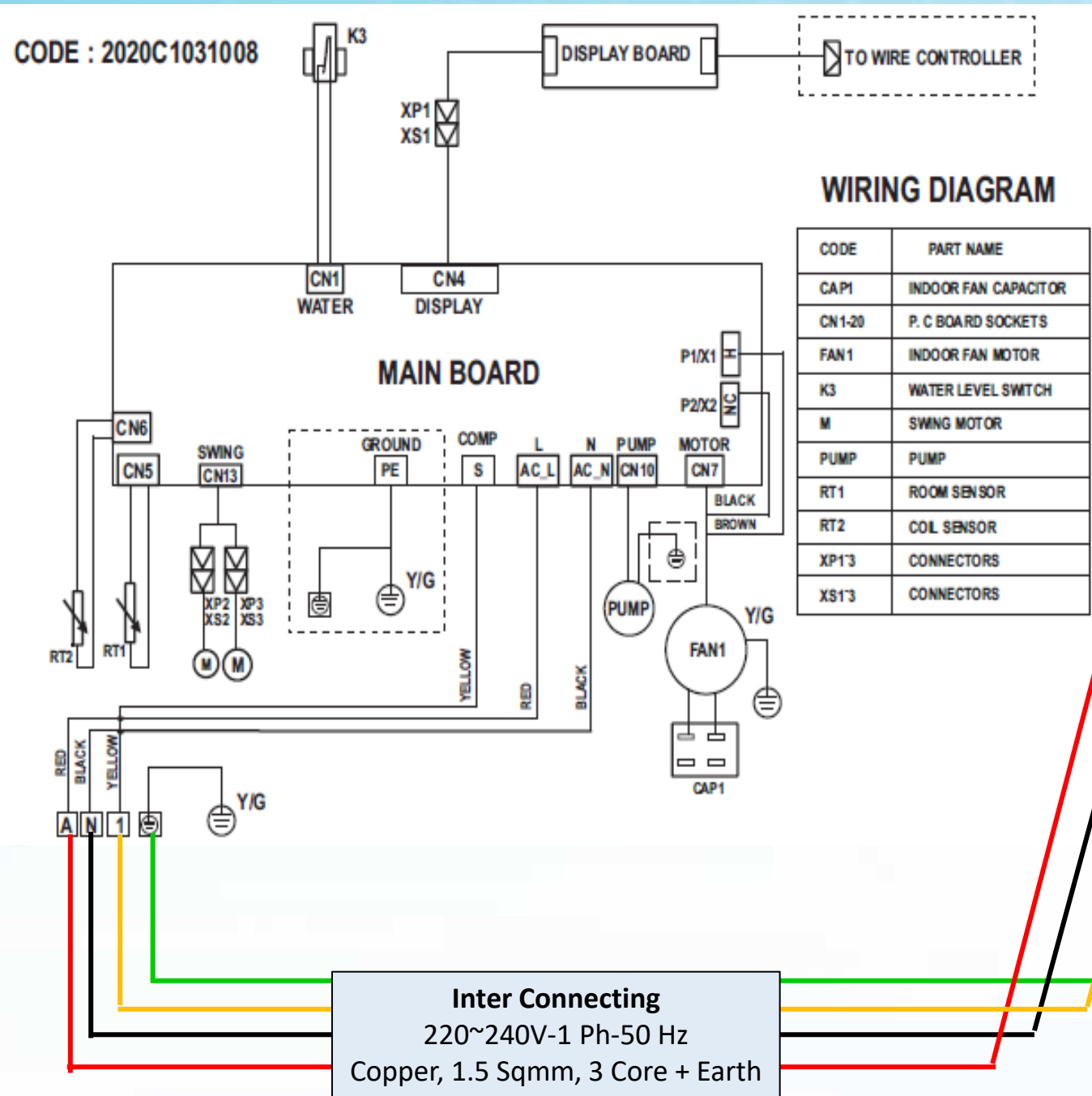


Units	ODU Chassis Dimension & Footprint in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
36K & 48 K Inverter Cassette	NXG- B	900	320	820	600	360

Inverter Cassette 1.5 & 2.0 Unit- R32- Field Wiring



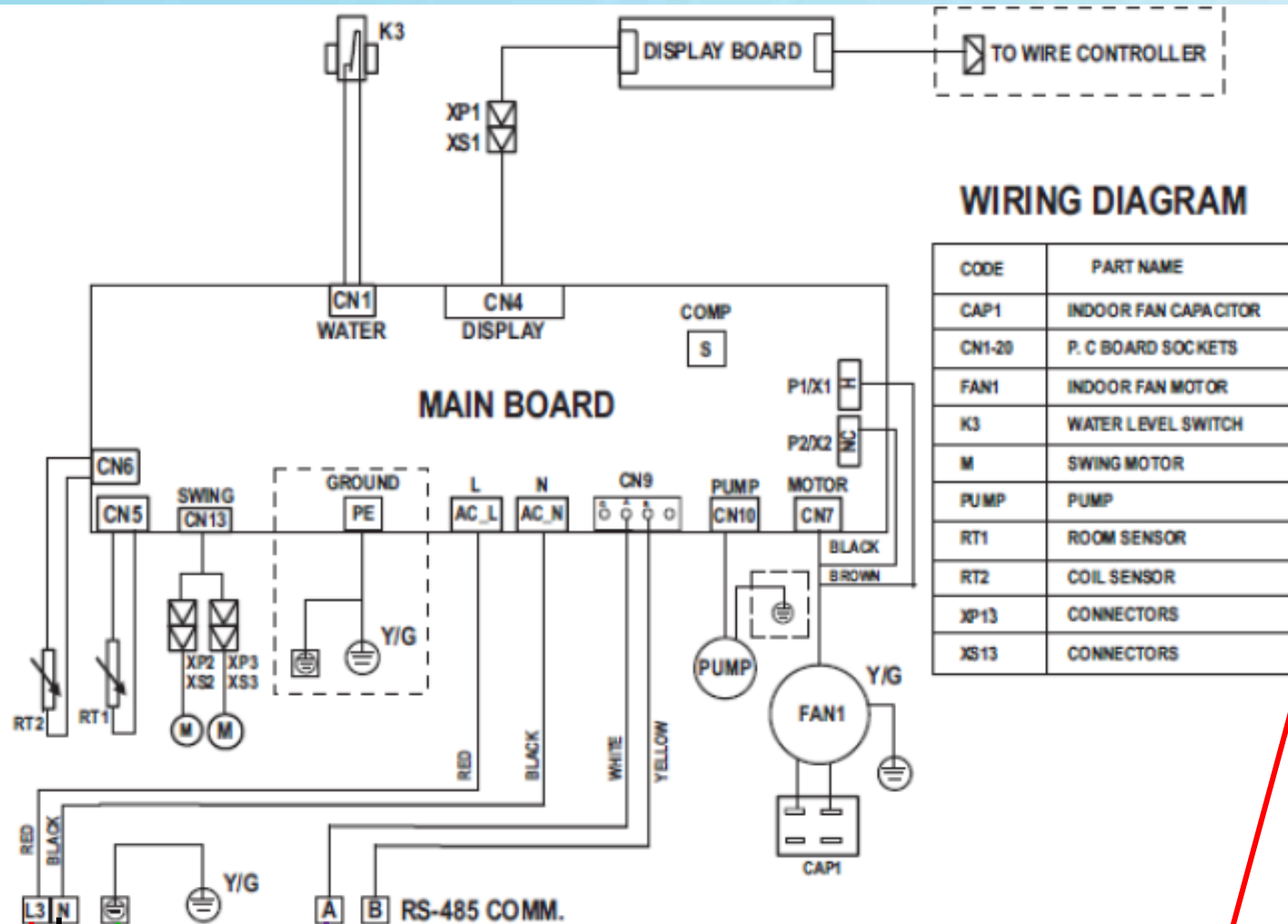
Inverter Cassette 3 TR Unit (1 Phase)- R32- Field Wiring



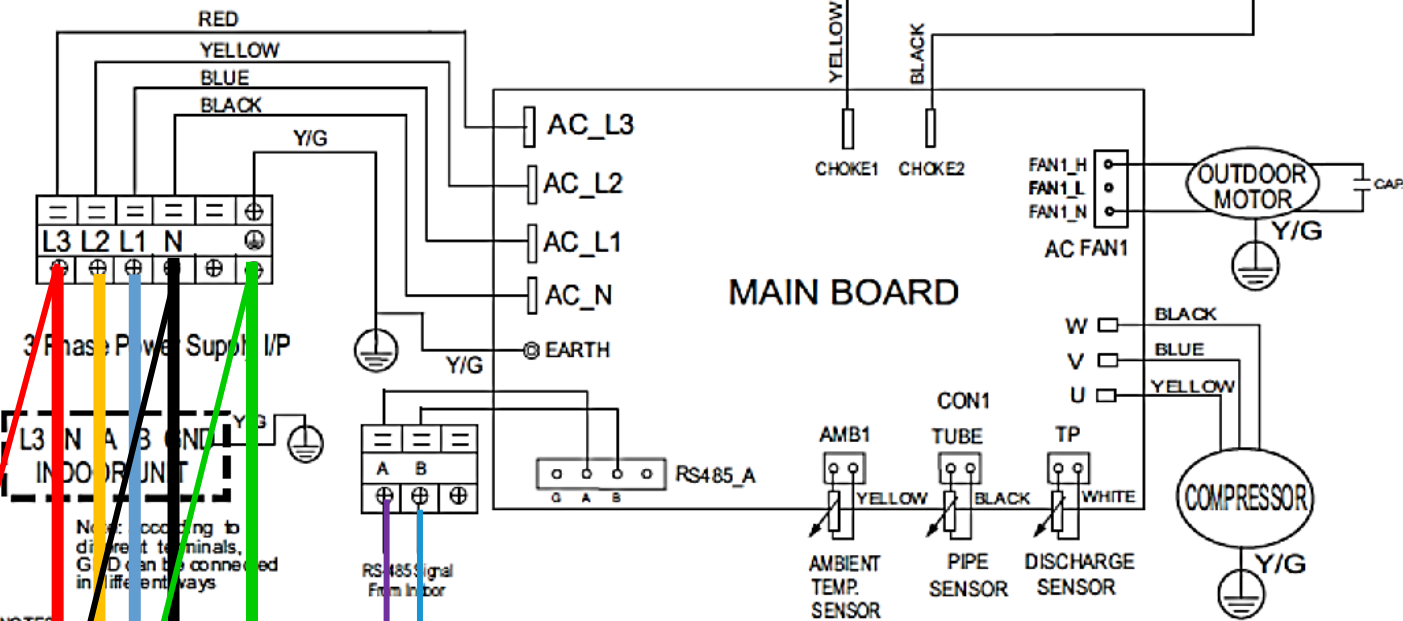
Main Power Supply
380~415V-3 Ph-50 Hz
3 TR & 4 TR Copper, 2.5 Sqmm, 4 Core + Earth



Inverter Cassette 3 & 4 TR Unit (3 Phase)- R410A- Field Wiring



OUTDOOR UNIT WIRING DIAGRAM



Communication Wire
Copper Shielded, 1.5 Sqmm, 2 Core

Inter Connecting
220~240V-1 Ph-50 Hz
Copper, 1.5 Sqmm, 2 Core + Earth

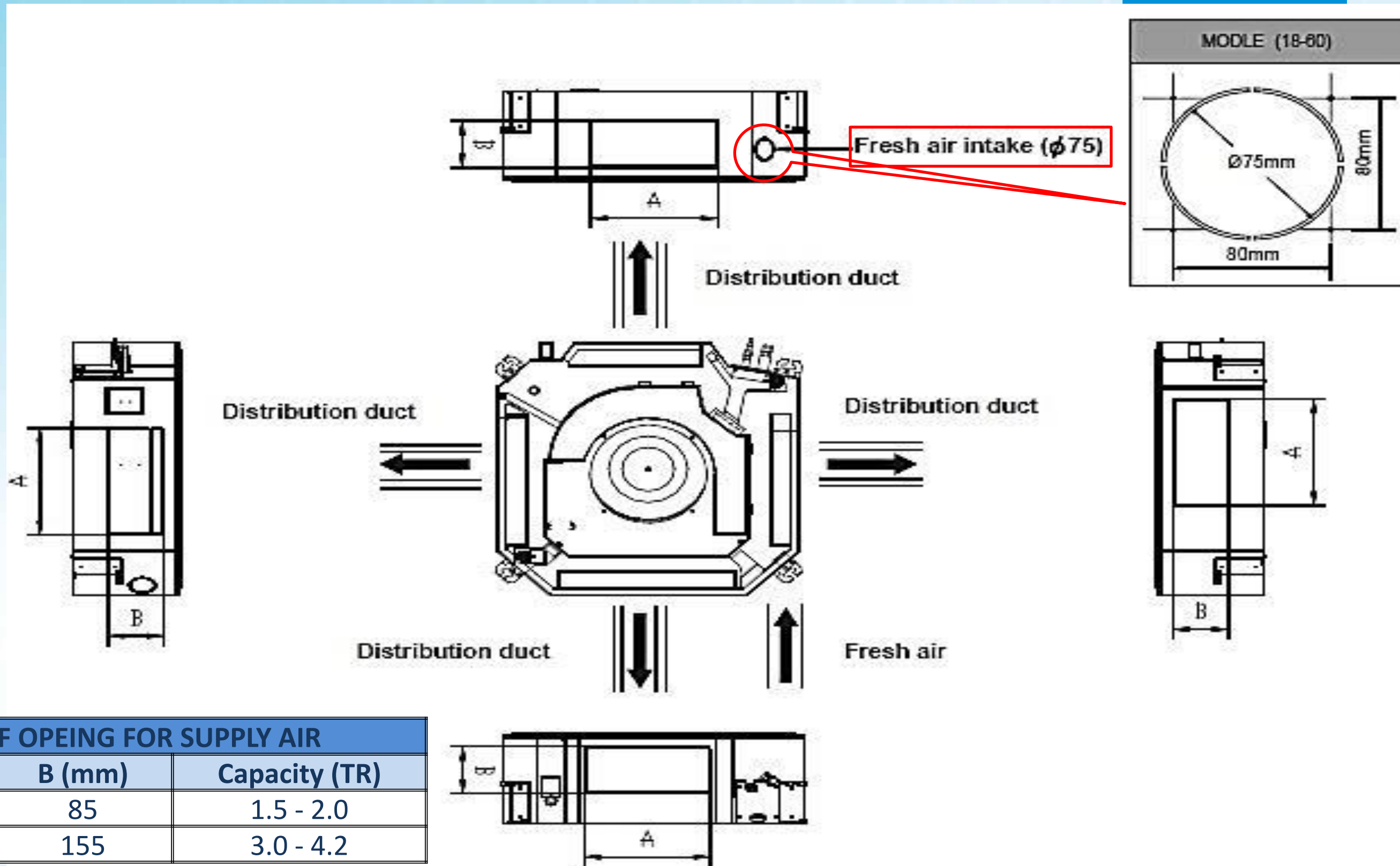
Main Power Supply
380~415V-3 Ph-50 Hz
3 TR & 4 TR Copper, 2.5 Sqmm, 4 Core + Earth

Inverter Cassette (Cooling)-R32- Error Code



Operation Lamp	Timer Lamp	Display	Error Information	Operation Lamp	Timer Lamp	Display	Error Information
1 Time	Blink	P0	Outdoor IPM module over current protection	off	off	PF	PFC(Power Factor Correction) malfunction
2 Times	Blink	P1	Abnormal DC voltage	off	off	PF0	PFC hardware over current protection(PFC Fo)
2 Times	Blink	P10	Too low DC voltage	off	off	PF1	PFC software over current protection(PFC Fo)
2 Times	Blink	P11	Too high DC voltage	off	off	L0	Frequency limitation for anti-freeze protection
3 Times	Blink	P2	IPM temperature protection	off	off	L1	Frequency limitation for over high outdoor heat exchanger temperature
5 Times	Blink	P4	Compressor driver malfunction	off	off	L2	Frequency limitation for over high discharge temperature
5 Times	Blink	P40	Communication malfunction between control MCU and compressor driver MCU	Blinking	Blinking	E7	EEPROM error
5 Times	Blink	P41	Compressor current sampling circuit fault	2 Times	OFF	E1	Communication error
5 Times	Blink	P42	Compressor startup failure	OFF	OFF	E8	Drain Pump Error
5 Times	Blink	P43	Compressor phase loss failure	OFF	Blinking	E2	Indoor room sensor error
5 Times	Blink	P44	Compressor current unbalance	Blinking	OFF	E3	Evaporator sensor error
5 Times	Blink	P48	Compressor step out	7 Times	OFF	EC	Refrigerant leakage detection / No cooling
5 Times	Blink	P49	Compressor software over current	1 Time	ON	F0	Overload current protection
Off	off	P6	Compressor exhaust temperature too high	2 Times	ON	F1	Outdoor ambient temperature sensor Toa open circuit or short circuit
off	off	P9	Indoor heat exchanger temperature too high or too low	3 Times	ON	F2	Condenser coil temperature sensor Toc is in open circuit or short circuit
off	off	P91	Too low indoor heat exchanger temperature	4 Times	ON	F3	Compressor discharge temperature sensor TP open circuit or short circuit
off	off	PA	Too high outdoor heat exchanger temperature				

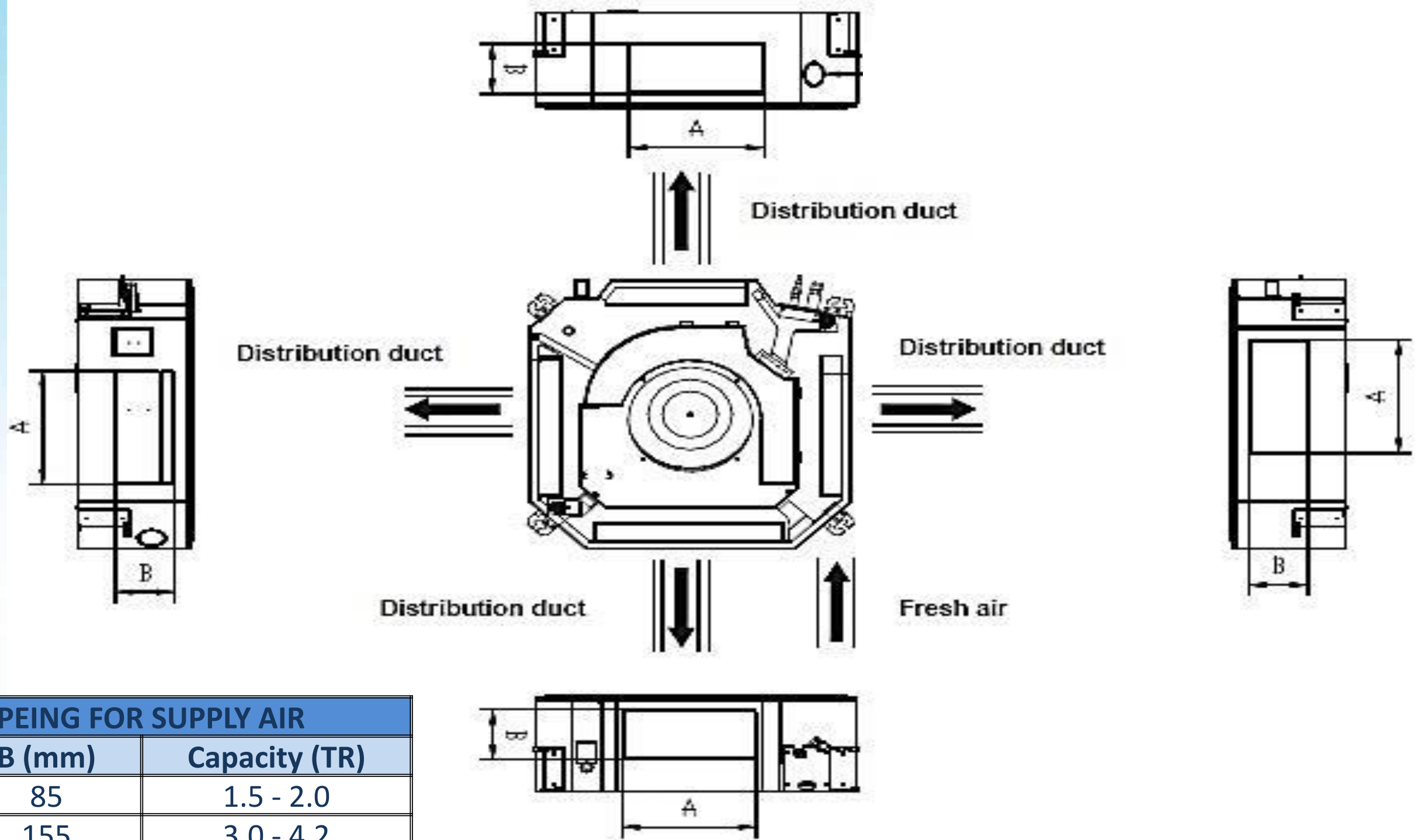
Cassette Unit: Fresh Air Intake



SIZE OF OPEING FOR SUPPLY AIR

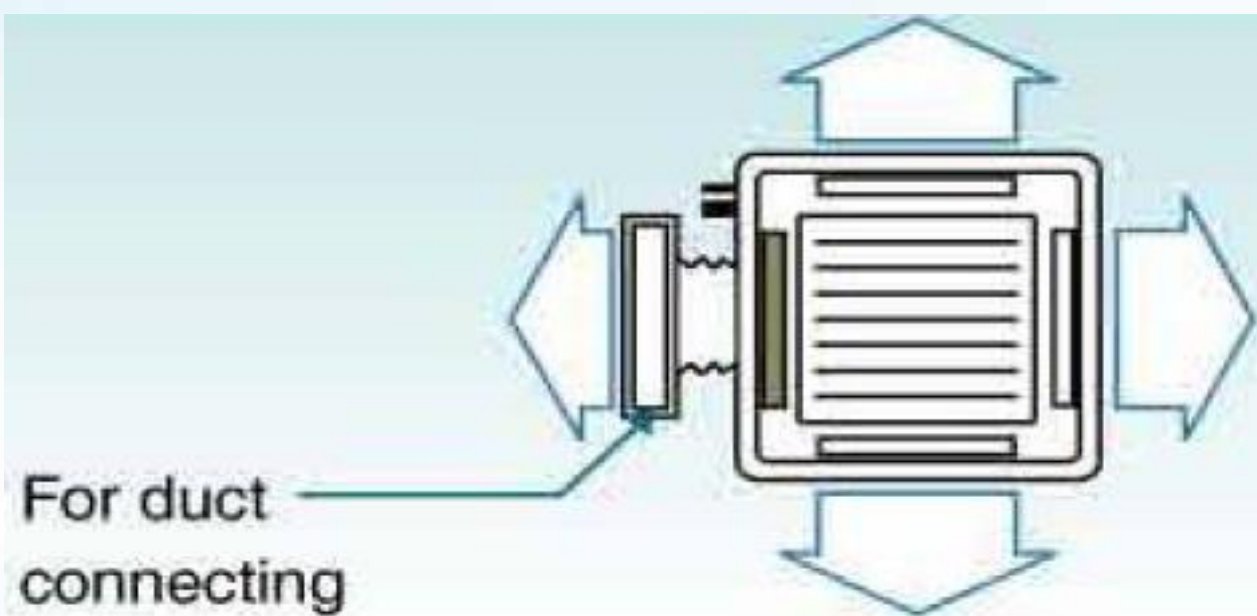
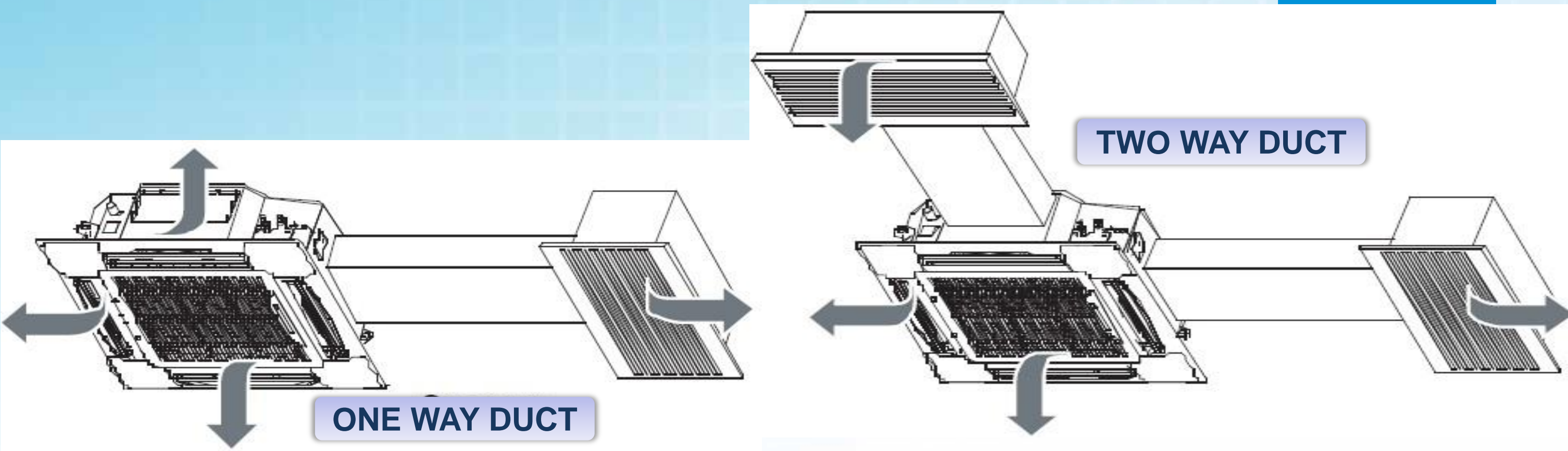
A (mm)	B (mm)	Capacity (TR)
350	85	1.5 - 2.0
350	155	3.0 - 4.2

Cassette Unit: Air Distribution in Adjoining Room



SIZE OF OPEING FOR SUPPLY AIR		
A (mm)	B (mm)	Capacity (TR)
350	85	1.5 - 2.0
350	155	3.0 - 4.2

Cassette Unit: Air Distribution in Adjoining Room

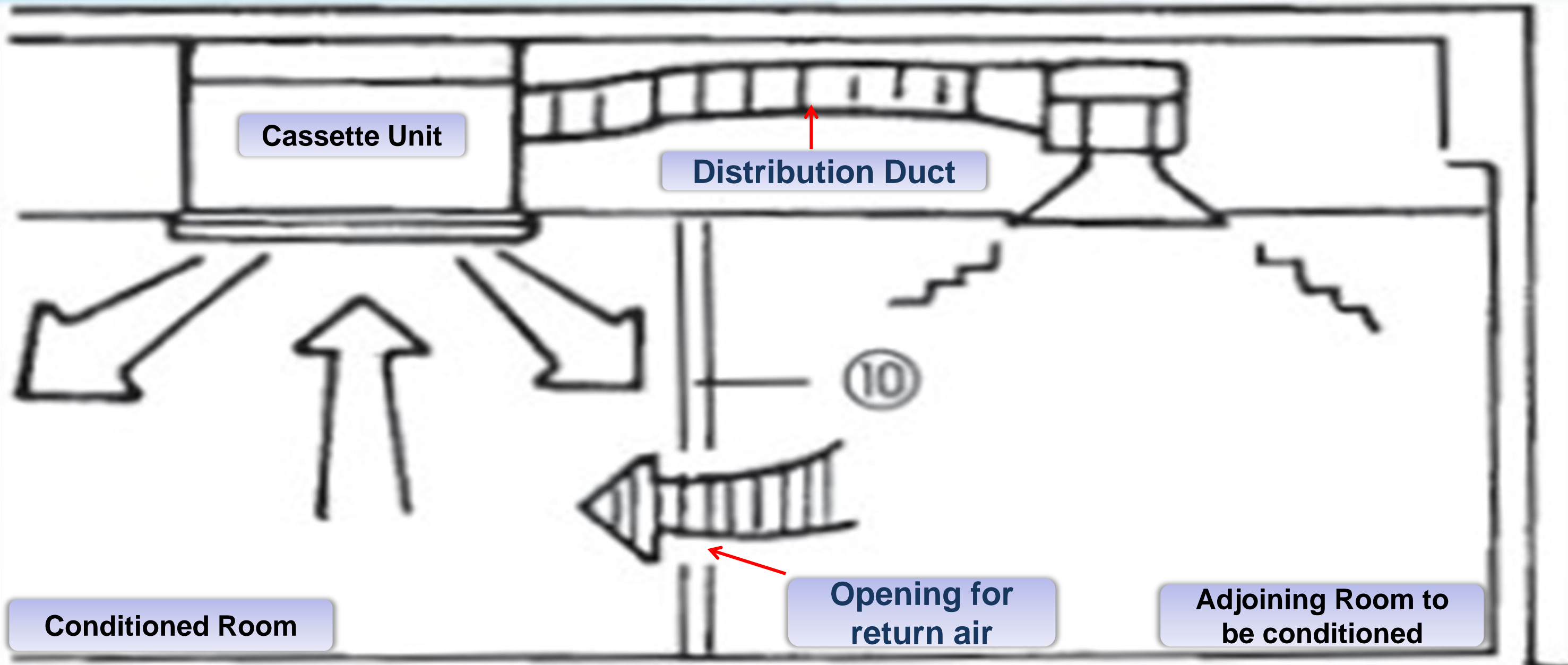


SUPPLY AIR DUCT			
No of Duct Connection	Air Flow (cfm) per Duct	Max Length of Duct (Mtrs.)	Capacity (TR)
One	176 - 212	2.0	1.5 - 2.0
One	235 - 376	2.0	3.0 - 4.2
Two	117 - 152	1.5	1.5 - 2.0
Two	176 - 294	1.5	3.0 - 4.2

Note : Max 02 Ducts can be connected accordingly supply air outlet in cassette to be closed by foam/ thermocole



Cassette Unit: Air Distribution in Adjoining Room



Conditioned Room

Opening for
return air

Adjoining Room to
be conditioned



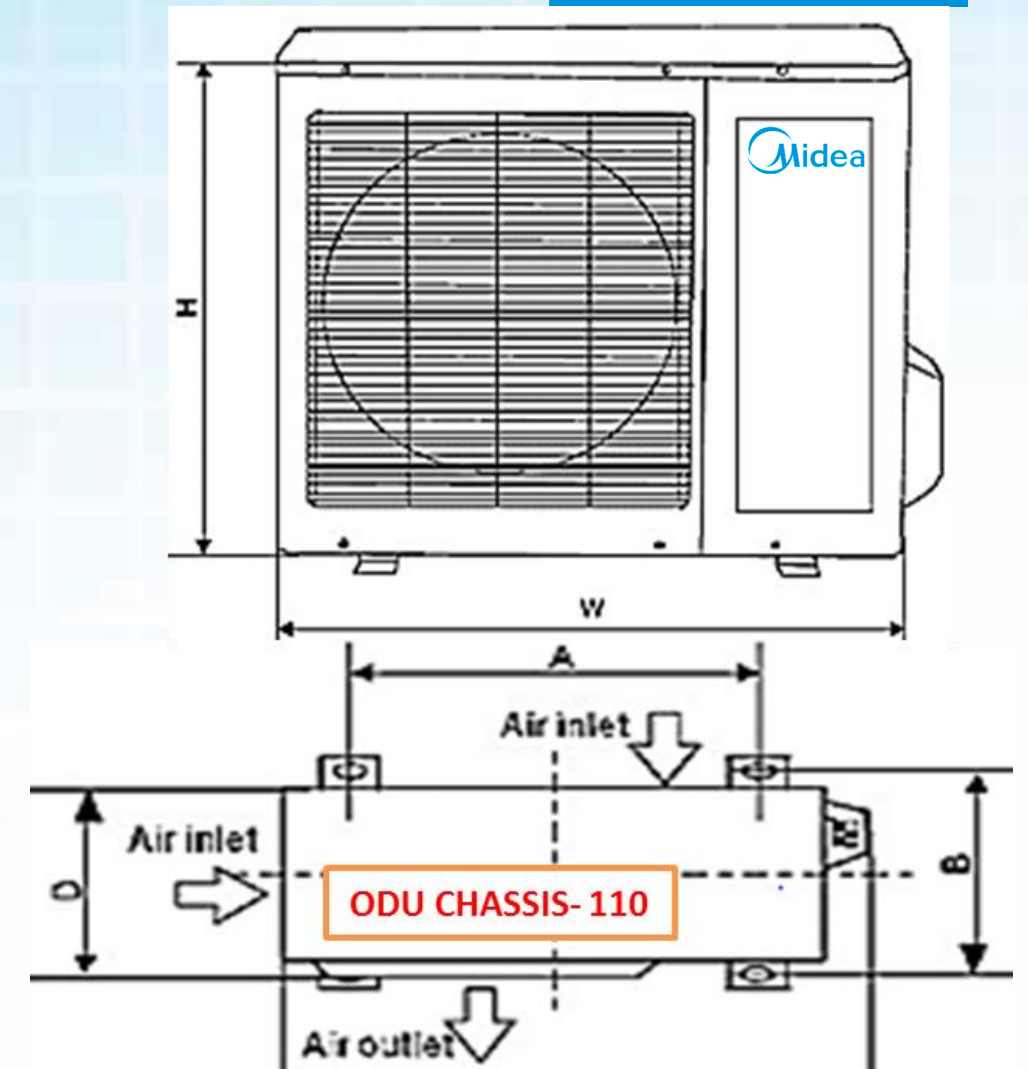
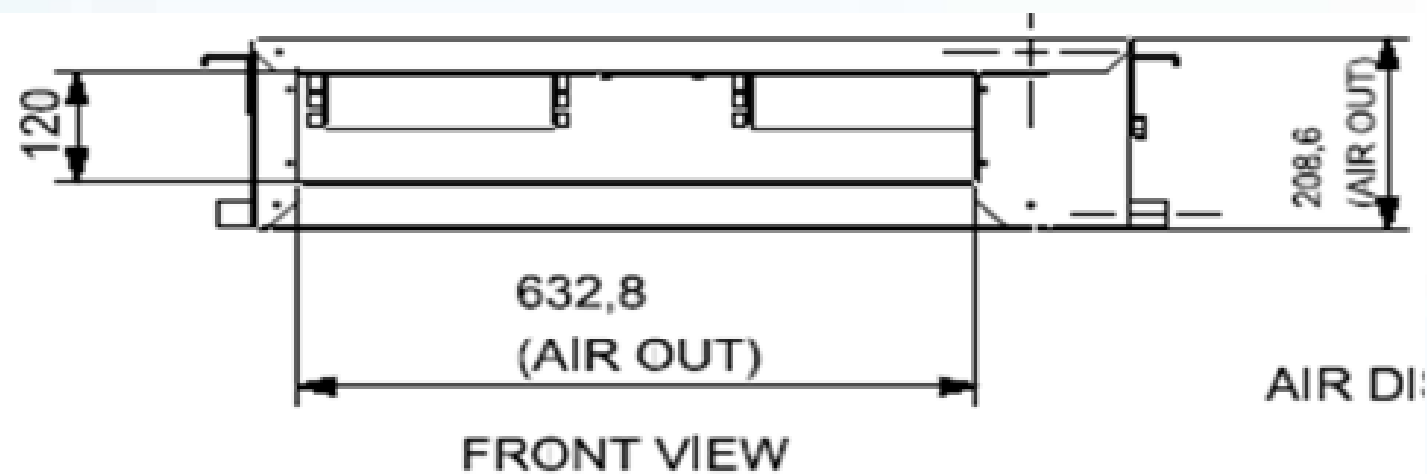
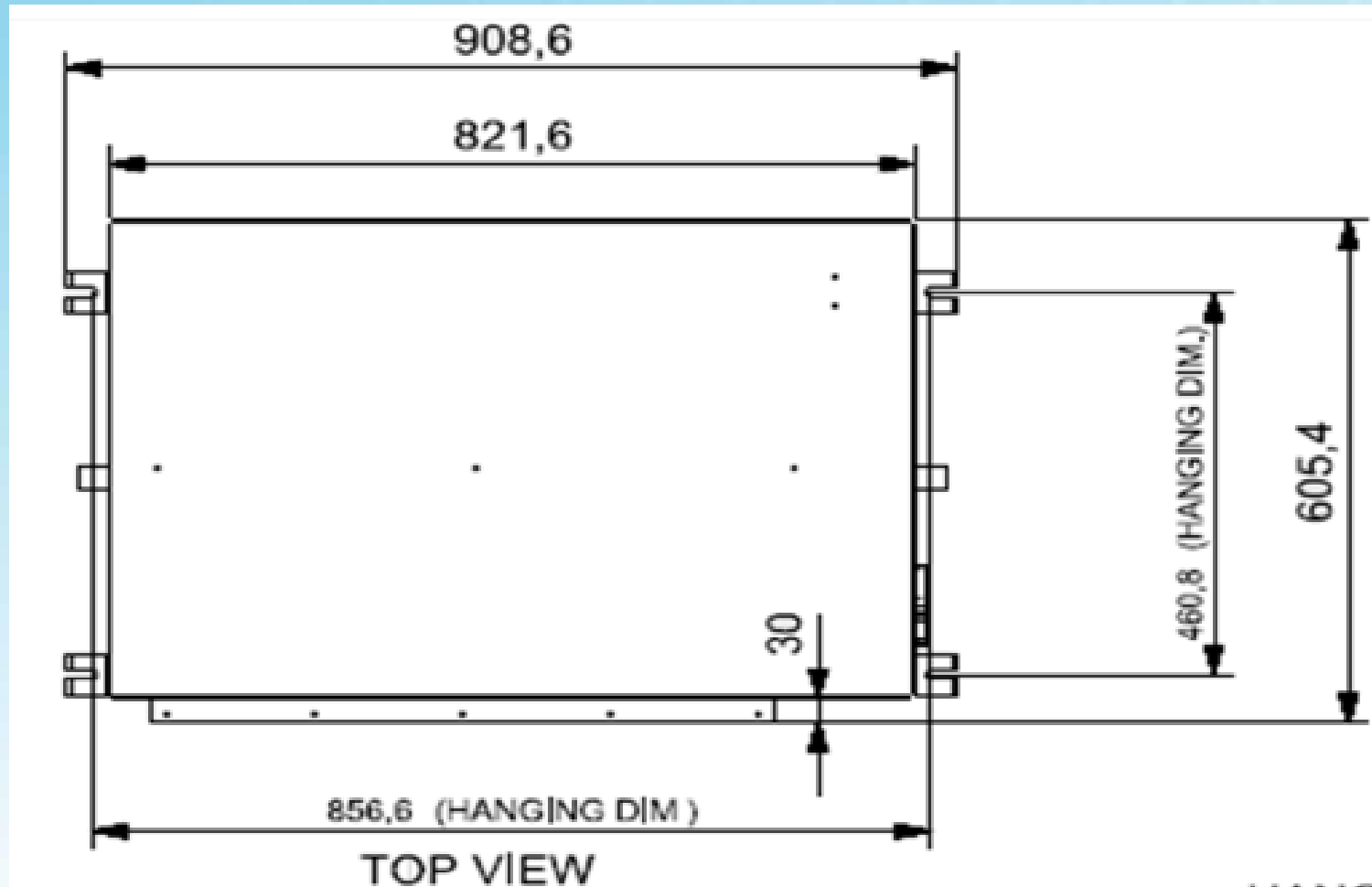
Medium Static Duct

Medium Static Duct Unit- R410A



Medium Static Ducted Unit- R410A						Updated:08112019
Description	Unit	18K MSD	24K MSD	36K MSD	50K MSD	
FG Model Model No		MCAD18WYC2	MCAD24WYC2	MCAD36WSC2	MCAD50WSC2	
FG Code		224050054820@CMI	224050061250@CMI	224050045500@CMI	224050061560@CMI	
IDU Code		224050056160@CMI	224050055740@CMI	224050052410@MI	224050055660@CMI	
ODU Code		224050058940@CMI	224050061240@CMI	224050058900@CMI	224050061550@CMI	
Cooling Capacity	TR/Kw/BTU	1.5 / 5.28 / 18000	2.0 / 7.0 / 24000	3.3 / 11.7 / 40000	4.2 / 14.0 / 50000	
Operating Power (IDU/ ODU)	V-ph-Hz	220~240-1-50		380~415-3-50		
Input Power/ Current	Watts/A	1600 / 7.0	2030 / 9	4000 / 8.0	5100 / 9.5	
Air Flow Volume (Max)	CMH/cfm	925 / 544	1715 / 1008	1715 / 1008	2612 / 1536	
Static Pressure	Pa/ mm of W	10 / 1.0	25 / 2.5	25 / 2.5	50 / 5.0	
Noise Level (Max-Min)	dB	40~33	49~38	49~38	53~42	
Compressor	Make & Type	GMCC- Rotary	GMCC- Rotary	Emerson/Danfoss-Scroll	Emerson/Danfoss-Scroll	
Pipe Size (Liquid / Gas)	Inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	
Metering Device	Capillary	Capillary at ODU	Capillary at ODU	Capillary at ODU	Capillary at ODU	
Nitrile Insulation Thickness (Liquid/ Gas)	mm	NA / 13	NA / 13	NA / 19	NA / 19	
Max. Pipe length	Meters	20	25	30	30	
Max. Height Difference	Meters	8	10	10	10	
U Trap (ODU above)	Nos / meters	at every 4 m	at every 4 m	at every 4 m	at every 4 m	
Input Power Location	IDU/ ODU	at IDU	at ODU	at ODU	at ODU	
Main Power wire Spec.	Type/ Sqmm / Core	Cu / 1.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 4 + E	Cu / 2.5 / 4 + E	
Inter Connecting wire Spec.	Type/ Sqmm / Core	Cu / 1.5 / 2 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	
Pre gas charge qty for 7.5 M length	Kg	R 410A - 0.8 Kg	R 410A - 1.5 Kg	R 410A - 2.0 Kg	R 410A - 2.05 Kg	
Additional Gas qty/ Mtrs	gm	20	55	55	55	
Net dimension IDU (WxDxH)	mm	822 x 605 x 210	1005 x 603 x 270	1005 x 603 x 270	1200 x 725 x 345	
Net dim. ODU (WxDxH)/ Chassis	mm	780x250x540/W110	780x250x540/W110	900x320x820/NXG B	900x320x820/NXG B	
Net weight (IDU/ ODU)	Kg	23 / 36	29/ 37	30/ 64	50 / 70	
Air outlet mouth size (W x H)	mm	632 x 120	817 x 175	817 x 175	874 x 142	
Trap Door dimension (W x D)	mm	1172 x 905	1305 x 903	1305 x 903	1550 x 1025	
Air Filter built-in	Yes / No	Yes	Yes	Yes	Yes	
Drain Pump/ Head	mm	Optional / 750	Optional / 750	Optional / 750	Optional / 750	
Ambient operating Range	°C	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50	
Remote (Codeless/ Coded)		Optional / Inbuilt	Optional / Inbuilt	Optional / Inbuilt	Optional / Inbuilt	
MCBO Rating (300mA)	Pole / Class- Amp	DP / C- 20	DP / C- 16	DP / C- 16	DP / C- 16	

Medium Duct Unit- 1.5 TR- R410A- GA Drawing

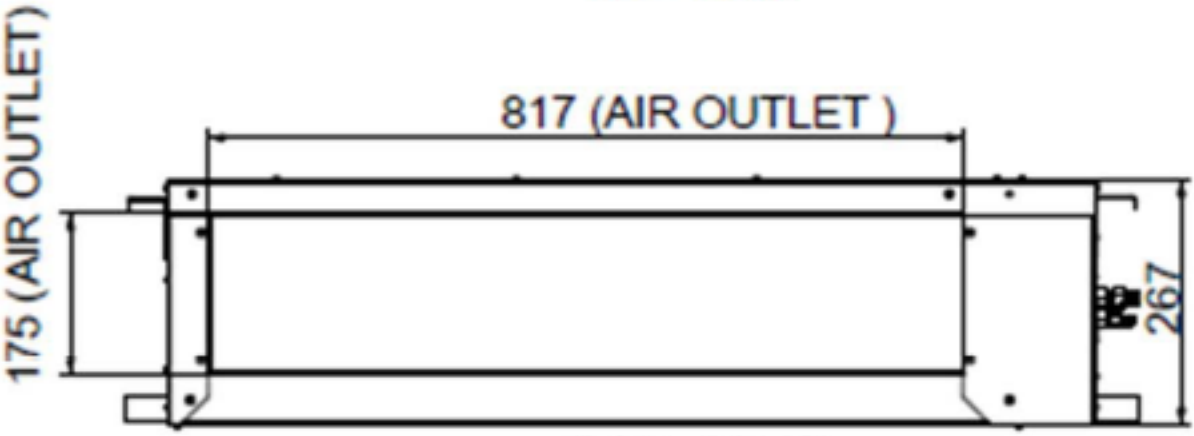
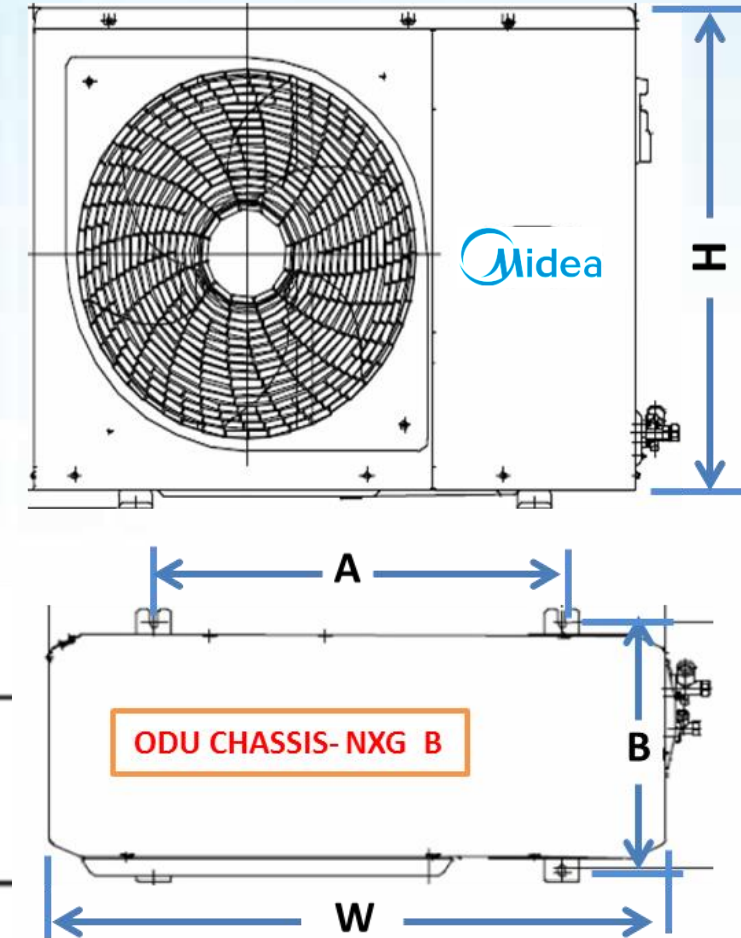
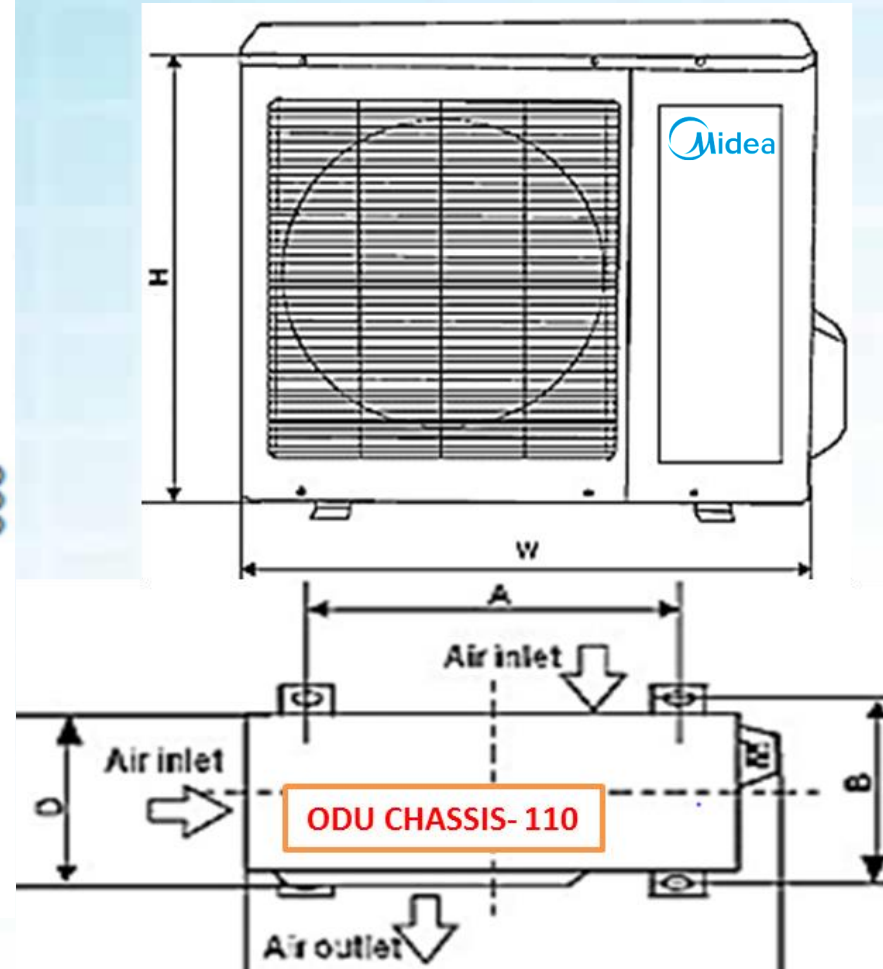
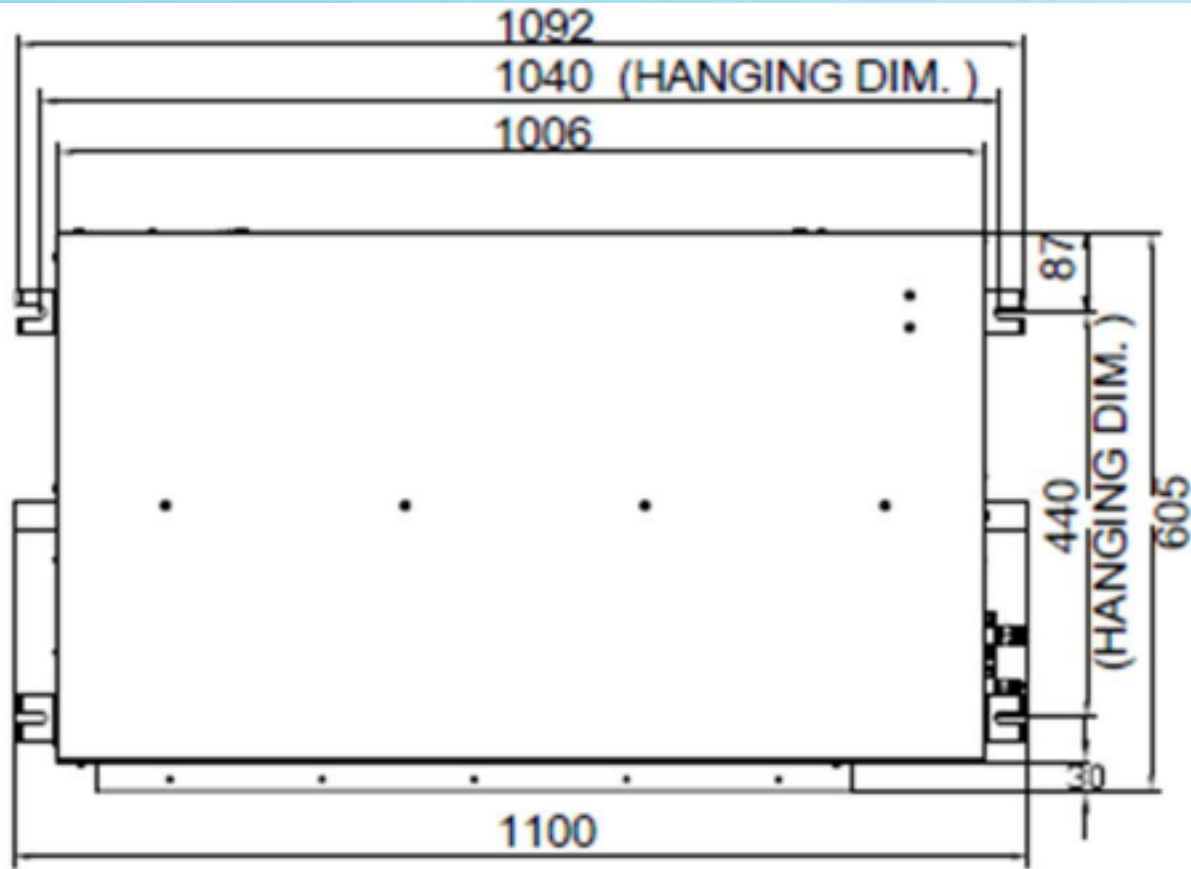


Units	ODU Chassis Dimension & Footprint in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mountin g Hole (B)
18K MSD	W 110	780	250	540	549	276

- 1- All dimensions are in mm
- 2- Mouth size- 633 x 120
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of units



Medium Duct Unit- 2 & 3 TR- R410A-GA Drawing



FRONT VIEW

Units	ODU Chassis Dimension & Footprint in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mountin g Hole (B)
24K MSD	W 110	780	250	540	549	276
36K MSD	NXG- B	900	320	820	600	360

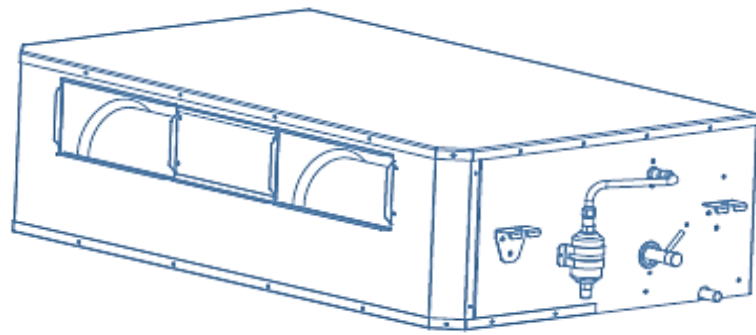
- 1- All dimensions are in mm
- 2- Mouth size- 817 x 175
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of unis



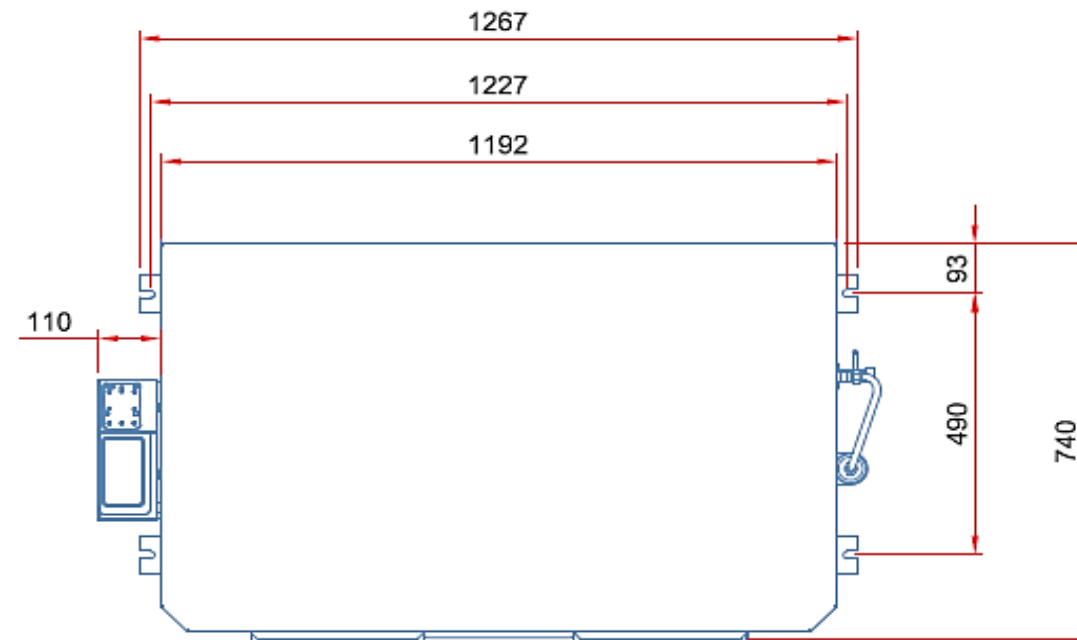
Medium Duct Unit- 4.2 TR- R410A-GA Drawing



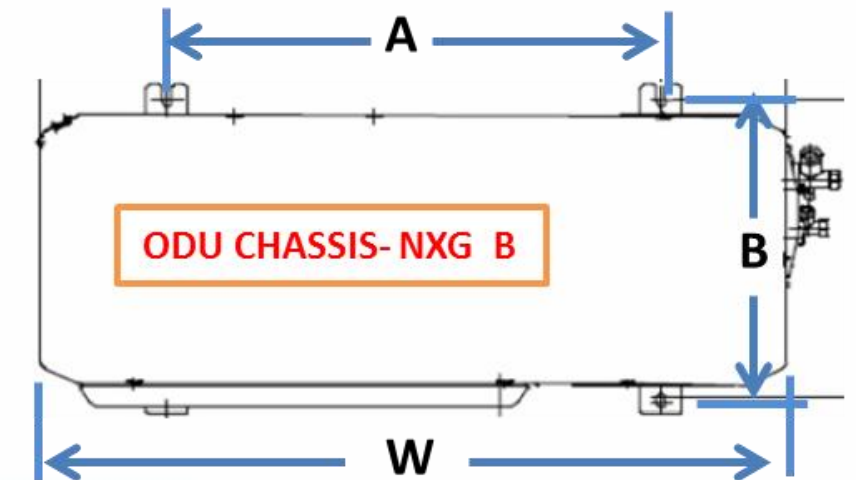
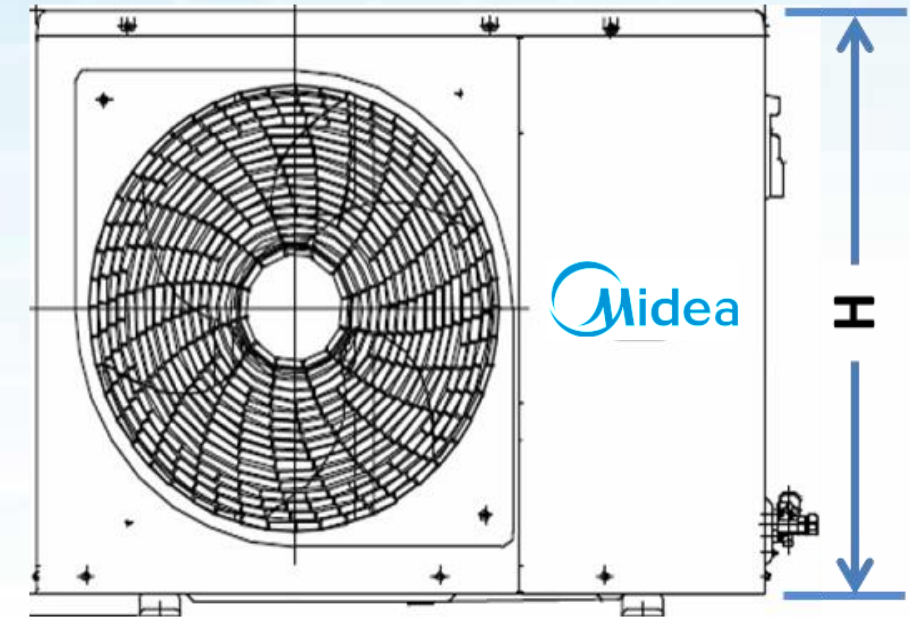
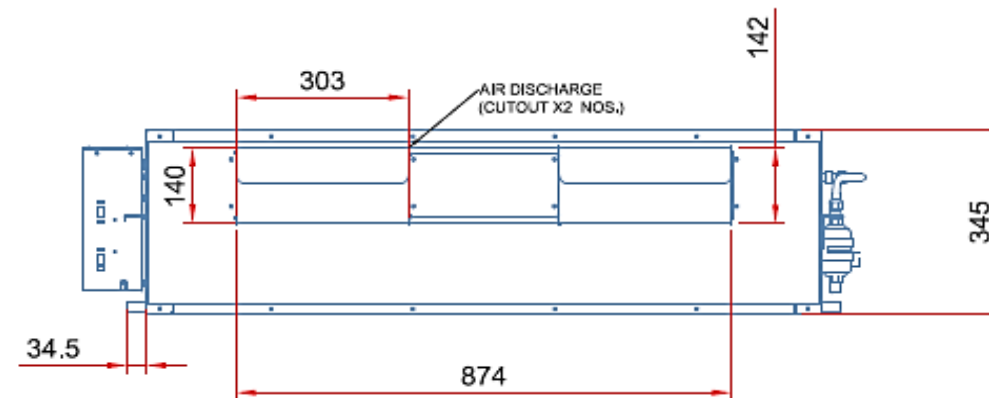
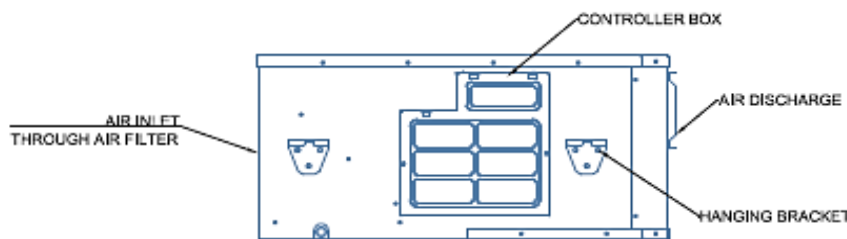
G.A DRAWING
5,5TR IDU



ISO VIEW



TOP VIEW



ODU Châssis Dimension & Foot- print in mm					
Chassis Types	Width (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
NXG- B	900	320	820	600	360

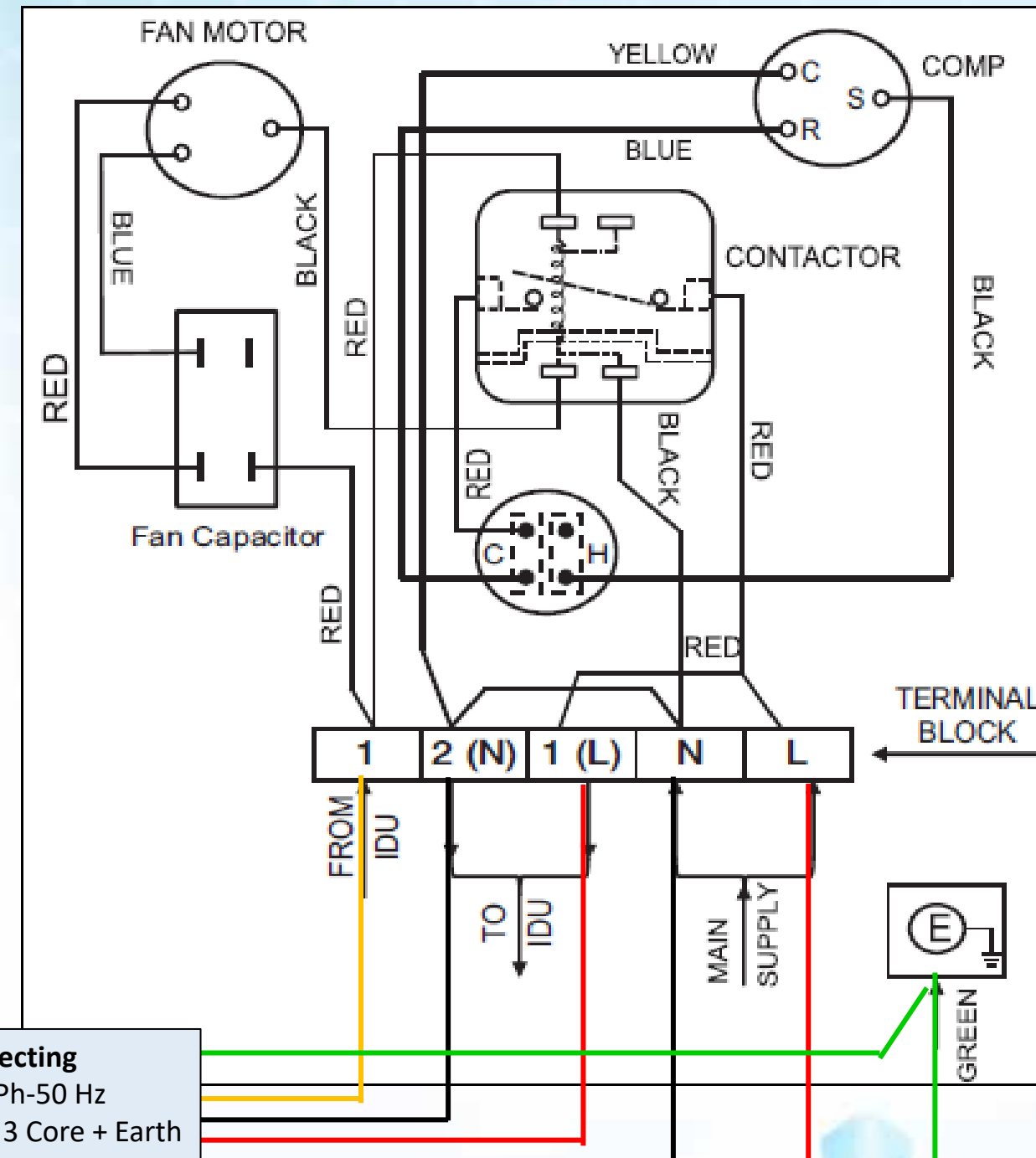
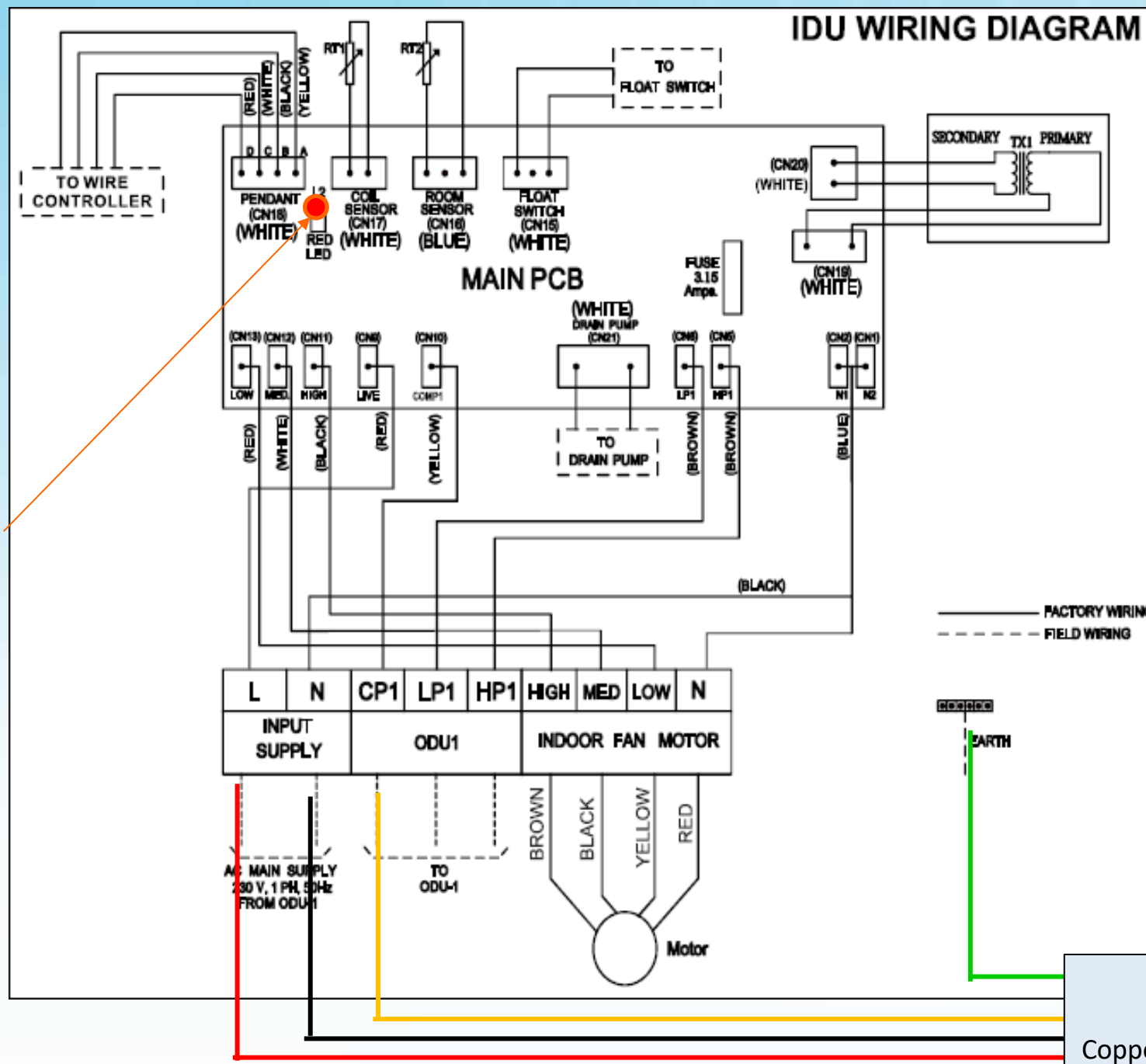
- 1- All dimensions are in mm
- 2- Mouth size- 874 x 140
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of units



Medium Duct Unit- 1.5 & 2.0 TR-R410A- Field Wiring



NOTE: "RED" LED ON THE PCB WILL BLINK IN CASE OF COMMUNICATION ERROR.



Inter Connecting
220~240V-1 Ph-50 Hz
Copper, 1.5 Sqmm, 3 Core + Earth

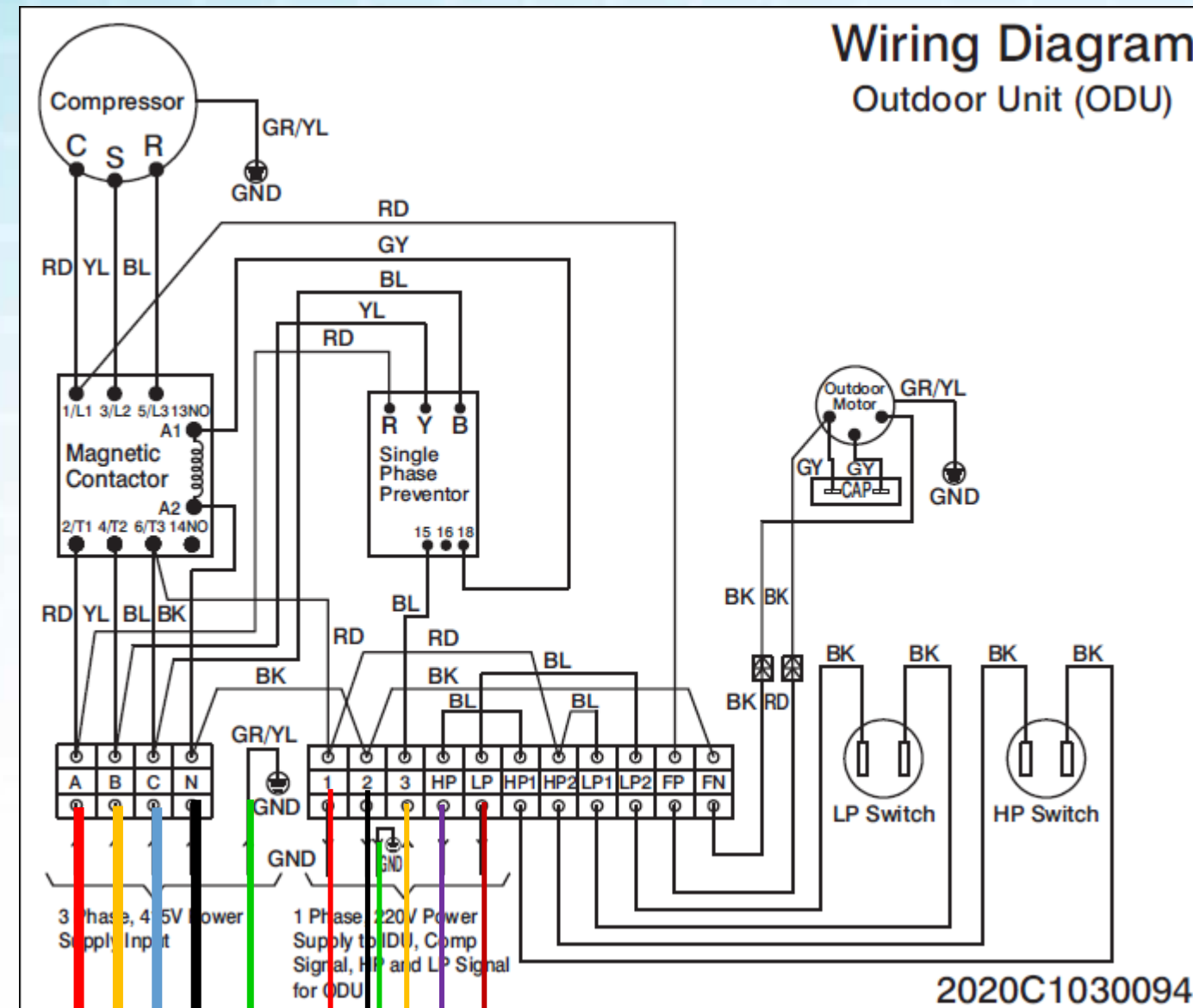
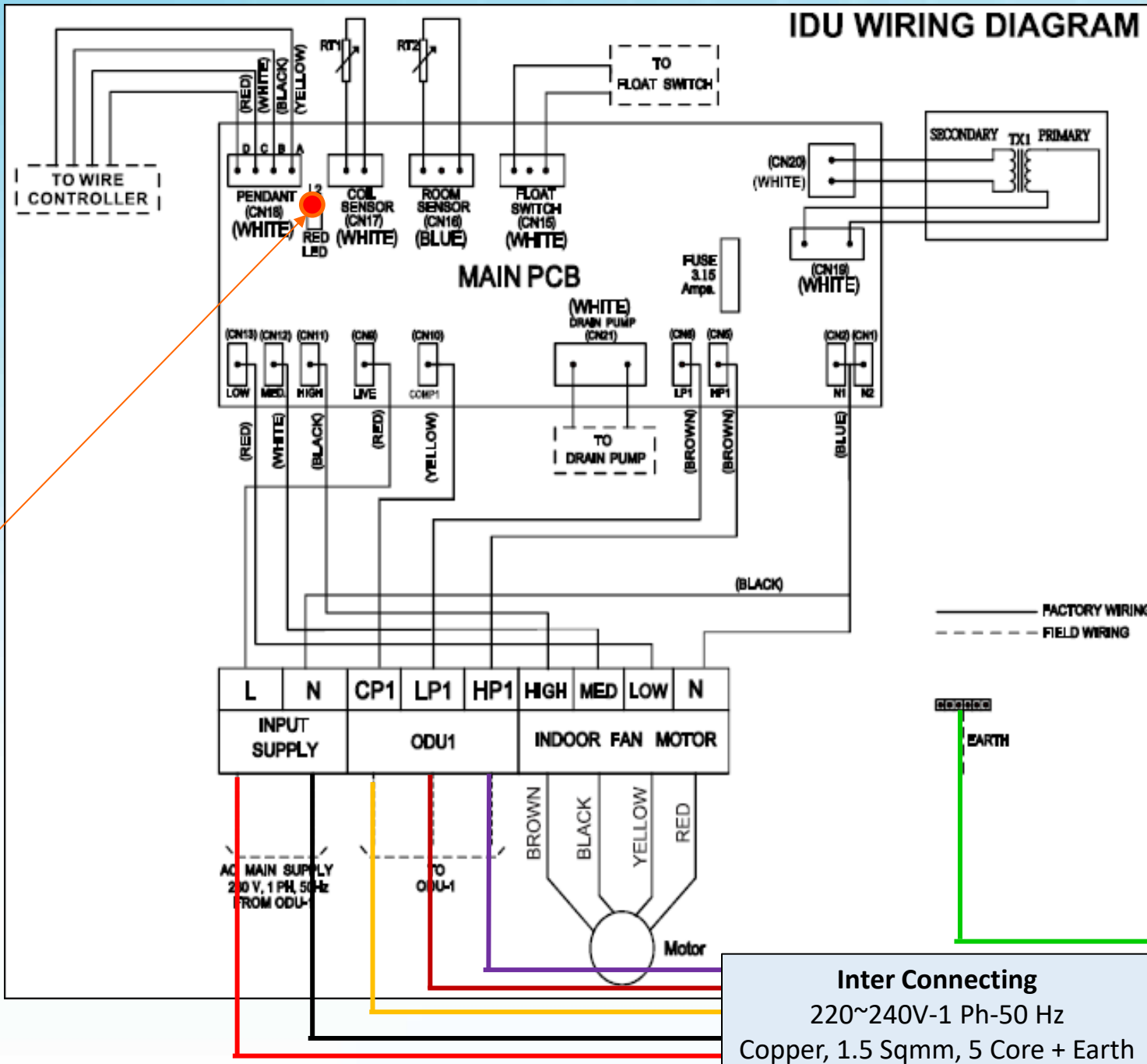
Main Power Supply
220~240V-1 Ph-50 Hz
1.5 TR: Copper, 1.5 Sqmm, 2 Core + Earth
2.0 TR: Copper, 2.5 Sqmm, 2 Core + Earth



Medium Duct Unit- 3.0 & 4.2 TR- R410A- Field Wiring



NOTE: "RED" LED ON THE PCB WILL BLINK IN CASE OF COMMUNICATION ERROR.



Inter Connecting
 220~240V-1 Ph-50 Hz
 Copper, 1.5 Sqmm, 5 Core + Earth

Main Power Supply
 380~415V-3 Ph-50 Hz
 3 TR & 4 TR Copper, 2.5 Sqmm, 4 Core + Earth

2020C1030094



Medium Static Duct: Error Code



Medium & High Static Duct

Error Code at Remote Pendant	Error code thru LED in Power Scanner at ODU	Error Description	Applicable for unit
E2		Room Sensor failure	1.5 ~ 17 TR
E3		Coil Sensor failure	1.5 ~ 17 TR
E7		Non-volatile memory failure	1.5 ~ 17 TR
E8		Water level switch failure	1.5 ~ 17 TR
E9		Defrost failure	1.5 ~ 17 TR
H1		High pressure trip: Comp-1	3 ~ 17 TR
H2		High pressure trip: Comp-2	11 ~ 17 TR
L1		Low pressure trip: Comp-1	3 ~ 17 TR
L2		Low pressure trip: Comp-2	11 ~ 17 TR
CE (Display at Remote Pedant & Red LED Blink at Control Box PCB)		Communication failure	1.5 ~ 17 TR
	Glow continuously	Power Healthy	3 ~ 17 TR
	Red LED Off	Any of Phase Loss	3 ~ 17 TR
	Fast Blink (2/Sec)	Voltage unbalance	3 ~ 17 TR
	Slow Blink (1/Sec)	Incorrect Phase Sequence	3 ~ 17 TR



Remote Pendant



Red LED in IDU PCB



Power Scanner in ODU





High Static Duct

High Static Ducted Unit- R410A

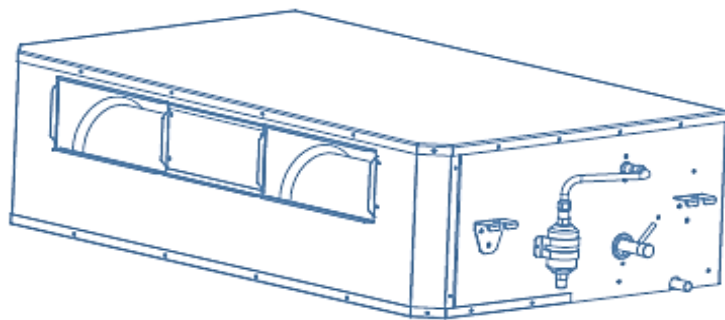


High Static Ducted Unit- R410A					Updated:08112019
Description	Unit	66K HSD	102K HSD	132K HSD	204K HSD
Model No/ Qty		MCAD066WSC2	MCAD102WSC2	MCAD132WSC2	MCAD204WSC2
FG Code		224050061210@CMI	224050038300@CMI	224050061220@CMI	224050041860@CMI
IDU Code		224050038250@CMI	224050038280@CMI	224050041810@CMI	224050041840@CMI
ODU Code		224050038260@CMI	224050038290@CMI	224050041820@CMI	224050041850@CMI
Qty of unit (IDU/ODU)	Nos	1 / 1	1 / 1	1 / 2	1 / 2
Cooling Capacity	TR / Kw / BTU	5.5 / 19.3 / 66000	8.5 / 29.9 / 102000	11 / 33.3 / 132000	17 / 51.4 / 204000
Operating Power (IDU/ ODU)	V-ph-Hz	380~415-3-50			
Total Input Power/ Current	Watts / A	6500 / 11.5	9200 / 16.2	13500 / 24	20200 / 34
Air Flow Volume (Max)	CMH / cfm	3740 / 2200	5780 / 3400	7476 / 4400	11560 / 6800
Static Pressure	mm of WG	15.0	15.0	20.0	27.0
Velocity Pressure	mm of WG	5.0	5.0	8.0	8.0
Total Pressure	mm of WG	20.0	20.0	28.0	35.0
Noise Level (Max-Min)	dB	65	72	75	77
Compressor	Make / Type/ Qty	Danfoss / Emerson/ Scroll/ 1		Danfoss / Emerson/ Scroll/ 2	
Pipe Size (Liquid / Gas)	Inch / Qty	1/2" / 7/8" x 1 Set	5/8" / 1-1/8" x 1 Set	1/2" / 7/8" x 2 Set	5/8" / 1-1/8" x 2 Set
Metering Device	TXV	Thermostatic Expansion Valve with pressure equalizer located at IDU			
Insulation Thickness (Liquid/ Gas)	mm	Nitrile Rubber tube of 19mm thick for 7/8" & 1-1/8" Gas pipe, not mandatory for Gas pipe			
Max. Pipe length	Meters	35			
Max. Height Difference	Meters	20			
U Trap (ODU above)	Nos / meters	1 No at every 4 meter vertical length in Gas pipe			
Main input Power Location	IDU/ ODU	at ODU			
Main Power wire Spec./ODU	Type/ Sqmm/ Core	(Cu / 4 / 4 + E) 1 set	(Cu / 6 / 4 + E) 1 set	(Cu / 4 / 4 + E) 2 set	(Cu / 6 / 4 + E) 2 set
Inter Connecting wire Spec./ODU	Type/ Sqmm/ Core	Cu / 1.5 / 3 + E		Cu / 1.5 / 5 + E	
Pre gas charge qty for 7.5 M length	Kg/ODU	R 410a - 2.3	R 410a - 3.25	R 410a - 2.3	R 410a - 3.35
Additional Gas qty/ Mtrs/ Circuit	gm	100	150	100	150
Net dimension IDU (W x D x H)	mm	1200 x 725 x 345	1620 x 675 x 460	1875 X 700 X 460	2150 X 850 X 560
Net dim. ODU (W x D x H)	mm	900 x 320 x 820	900 x 580 x 960	900 x 320 x 820	900 x 580 x 960
Net weight (IDU/ ODU)	Kg	50 / 75	77 / 117	111 / 75x2	170 / 117x2
Air outlet mouth size (W x H)	mm	876 x 143	968 x 273	1083 x 270	1600 x 270
Trap Door dimension (W x D)	mm	1600 x 1025	2020 x 975	2275 x 1000	2550 x 1150
Air Filter built-in	Yes / No	Yes			
Drain Pump/ Head	mm	Optional / 750			
Drain Pipe Dia	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Ambient operating Range	°C	18 ~ 50			
Remote (Coded / Cordless)		Inbuilt / Optional			
MCBO Rating (300mA)	Pole / Class- Amp	TPN / C- 20	TPN / C- 32	TPN / C- 64	TPN / C- 64

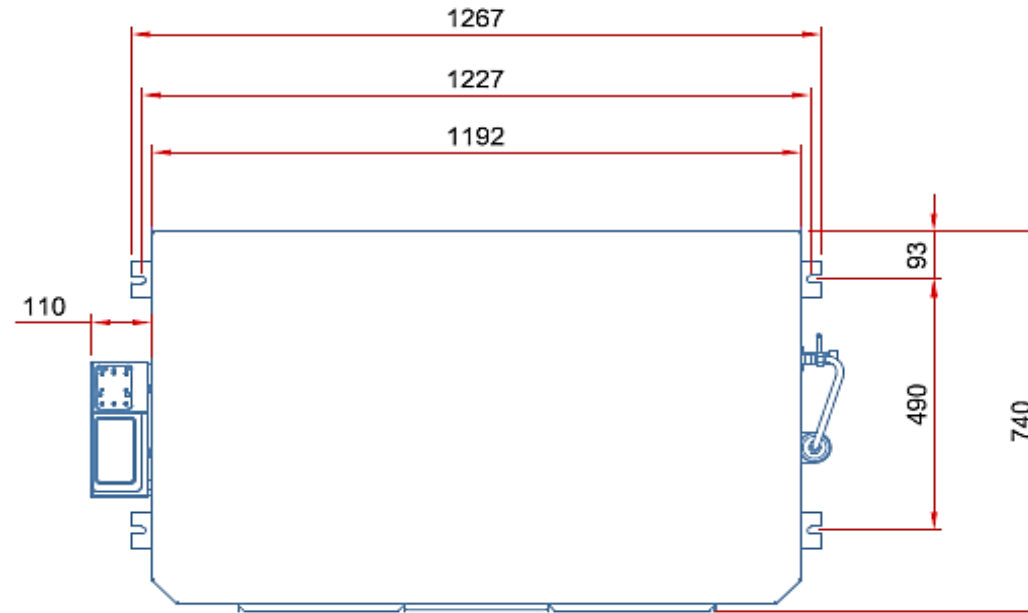
High Static Duct Unit- 5.5 TR- R410A- GA Drawing



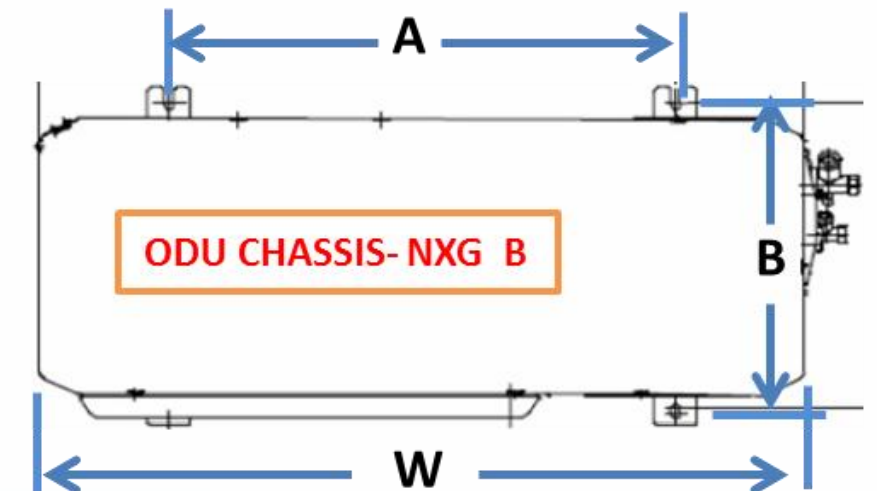
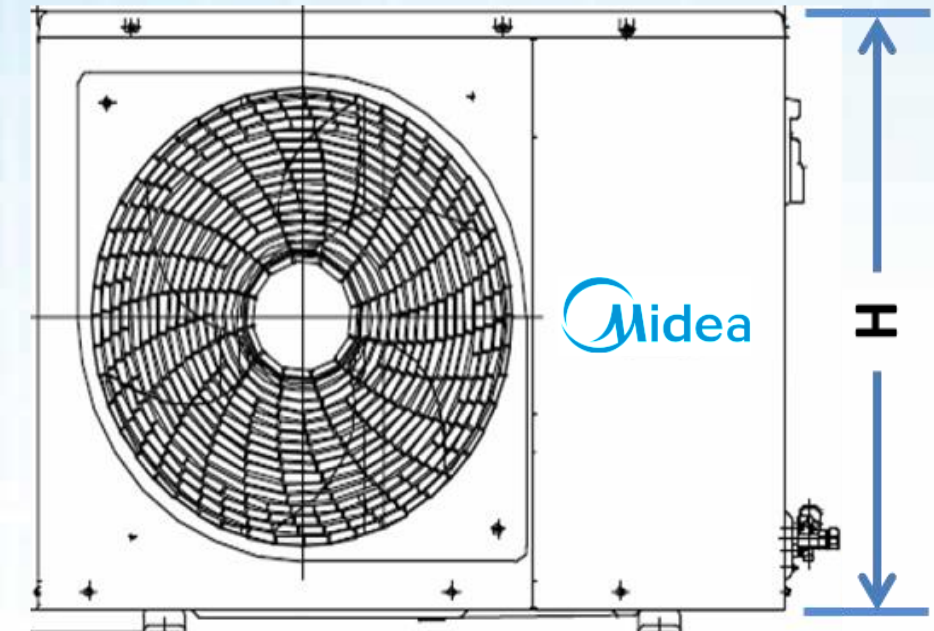
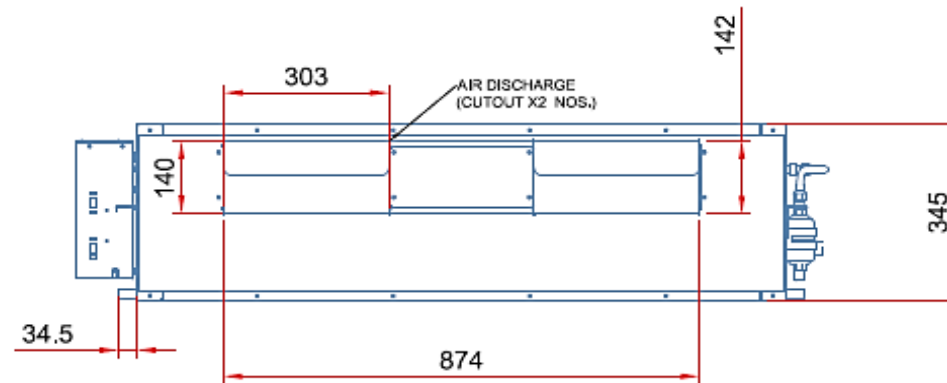
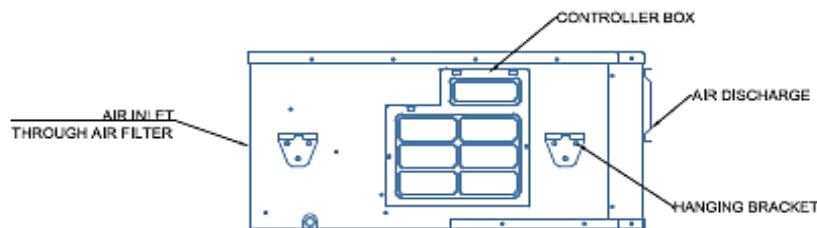
G.A DRAWING
5.5TR IDU



ISO VIEW



TOP VIEW

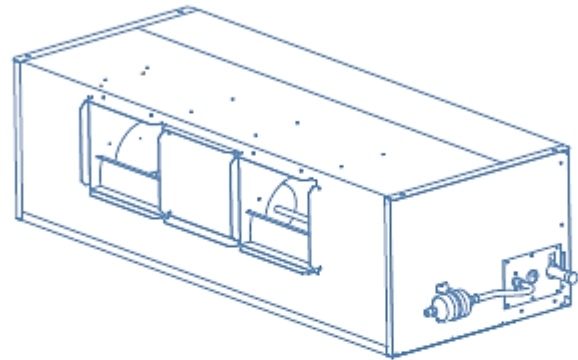


- 1- All dimensions are in mm
- 2- Mouth size- 874 x 140
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of units

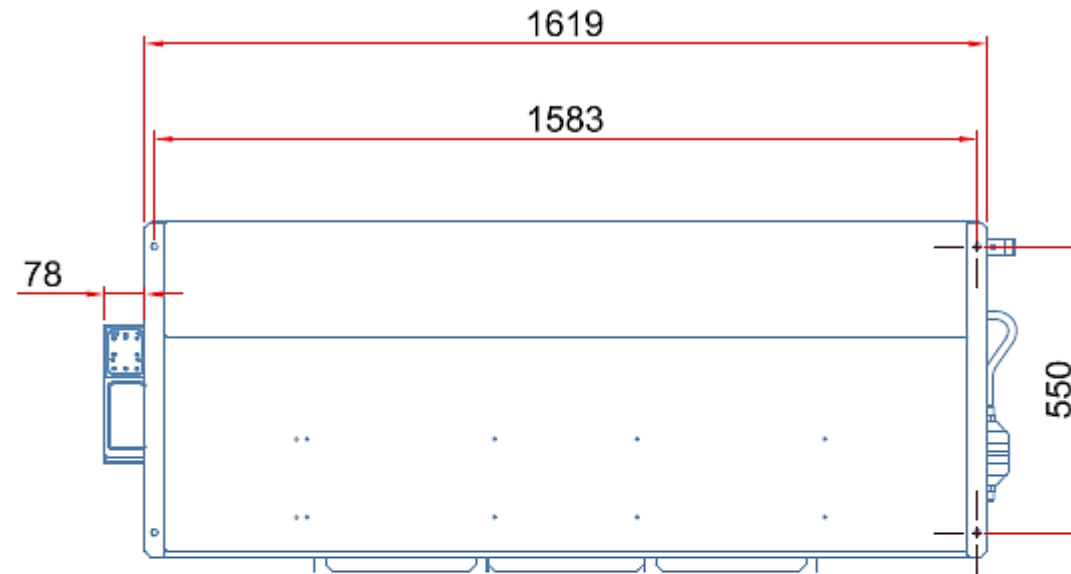
ODU Châssis Dimension & Foot-print in mm					
Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
NXG- B	900	320	820	600	360



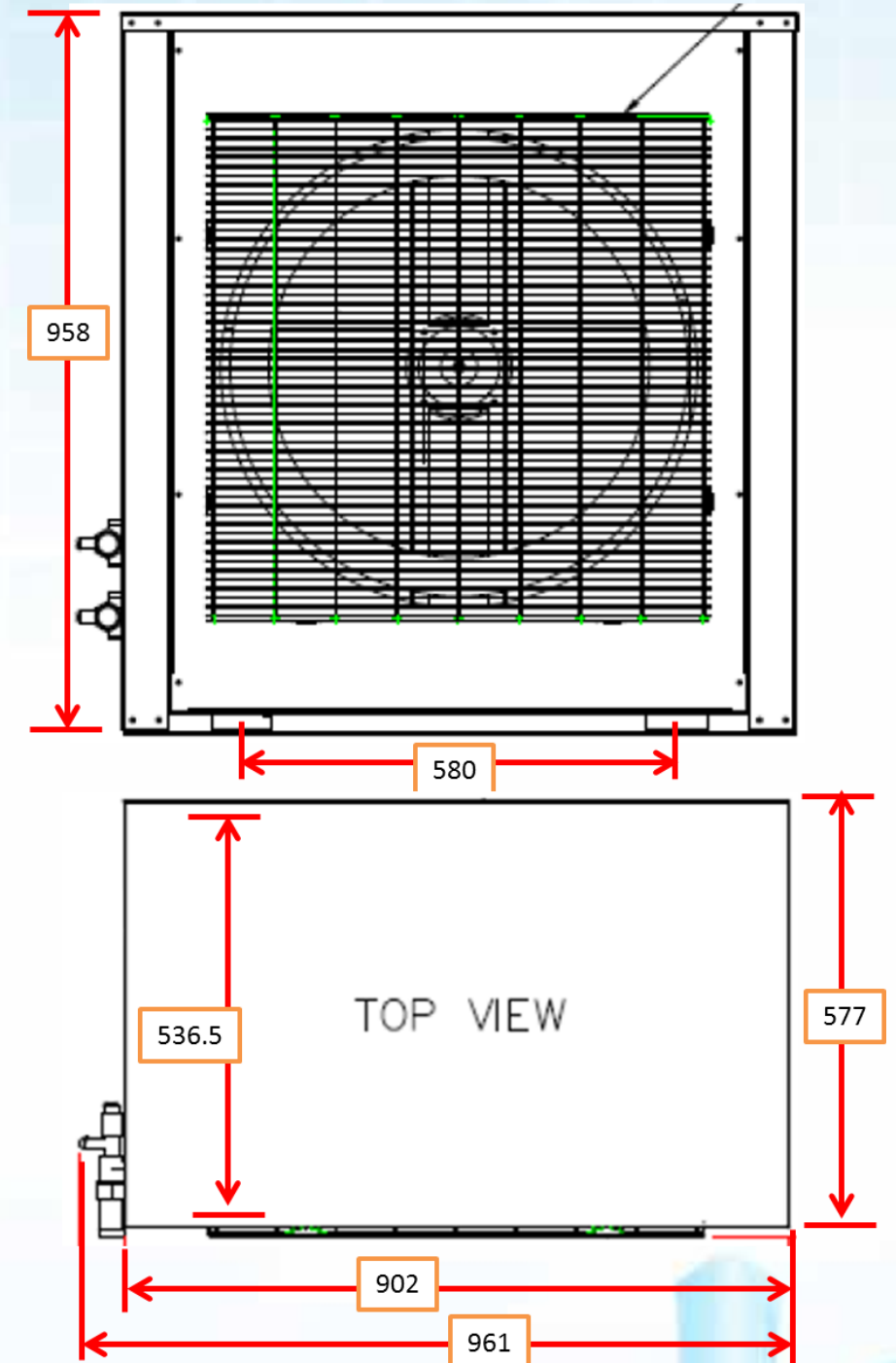
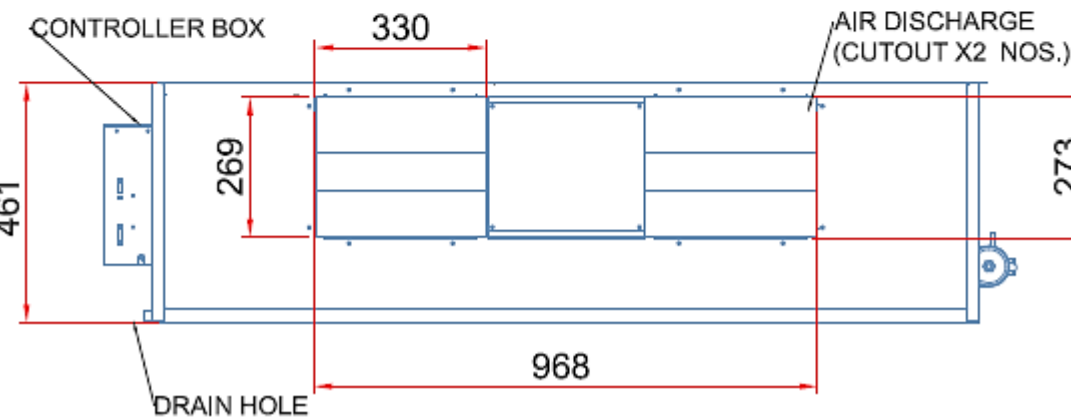
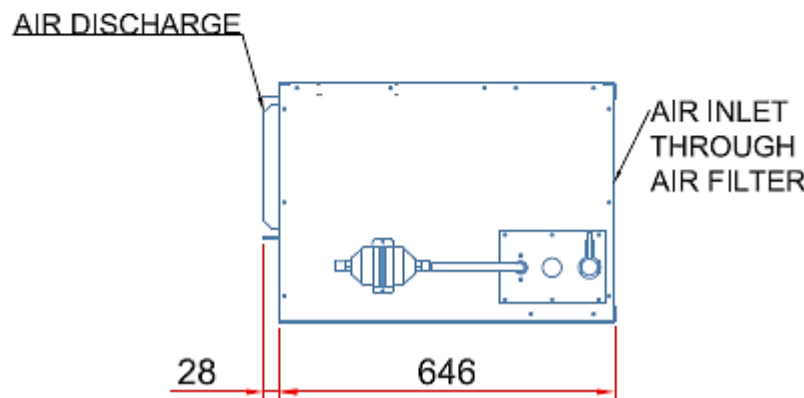
High Static Duct Unit-8.5 TR- R410A- GA Drawing



ISO VIEW



TOP VIEW

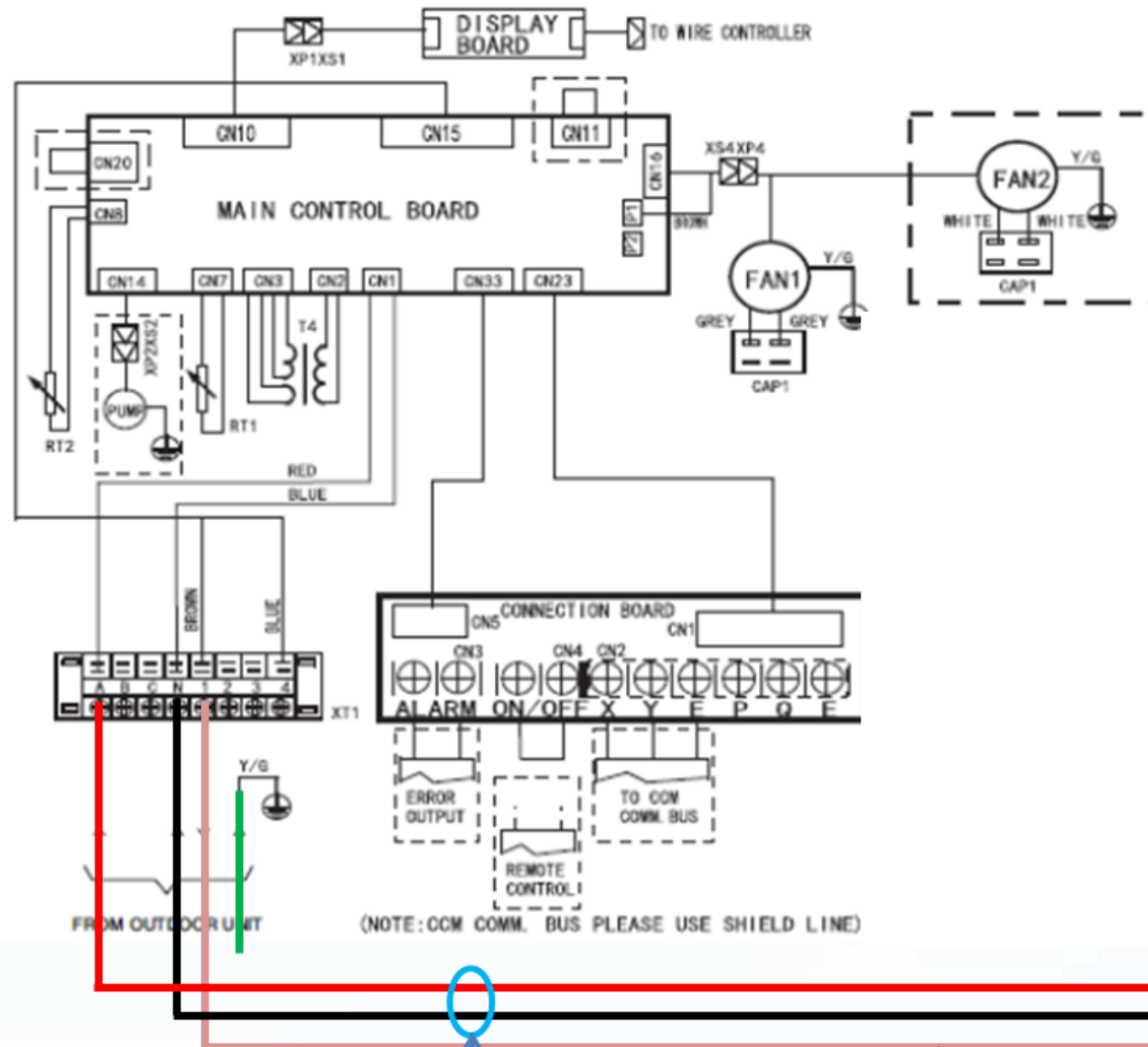


- 1- All dimensions are in mm
- 2- Mouth size- 968 x 269
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of units

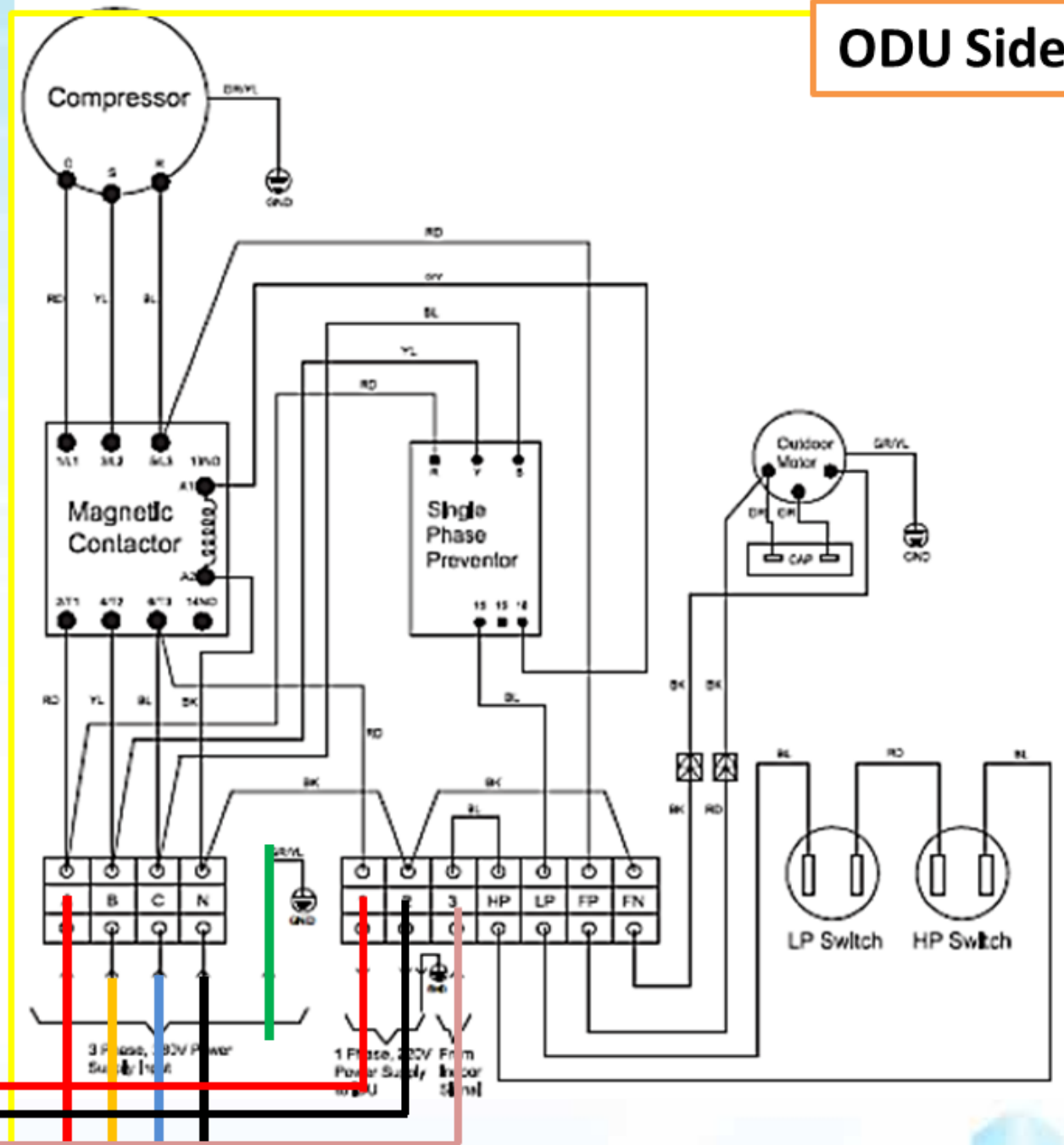
High Static Duct Unit- 5.5 & 8.5 TR-R410A- Field Wiring



IDU Side



ODU Side



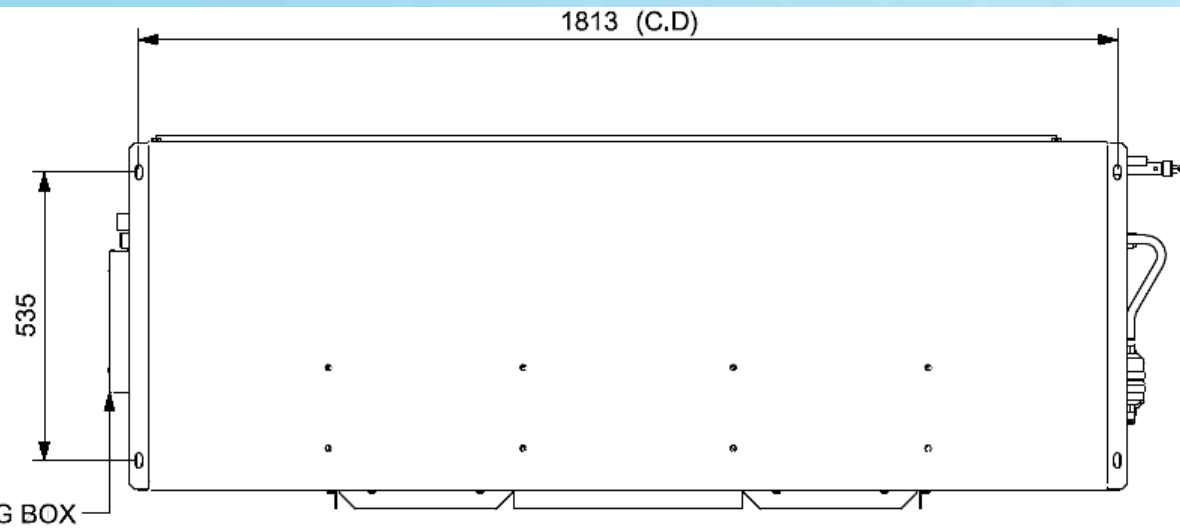
Power to IDU
(220V, 50 Hz, 1 Ph)

CP to ODU

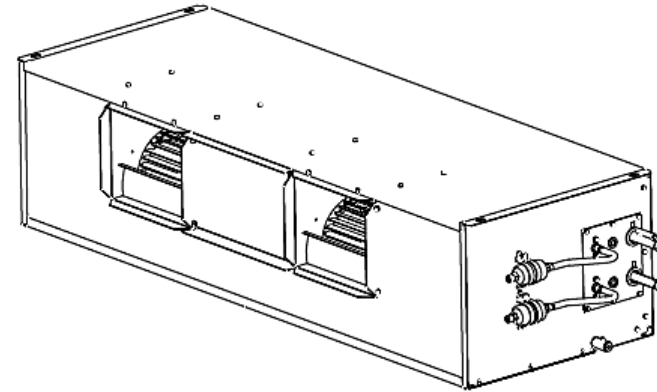
Main Power to ODU
(400V, 50 Hz, 1Ph)



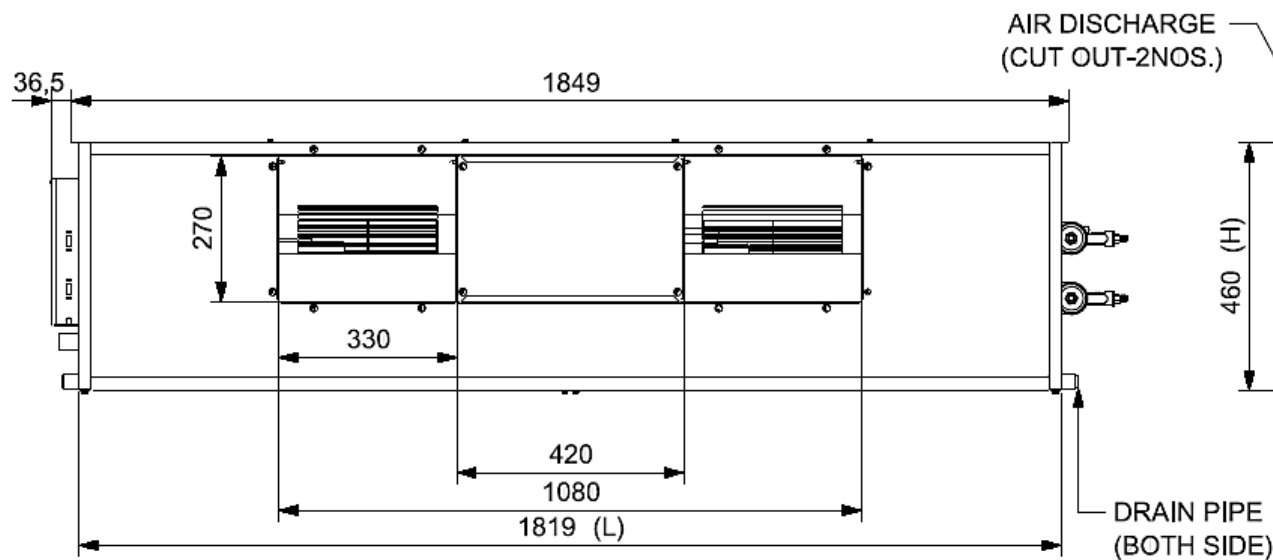
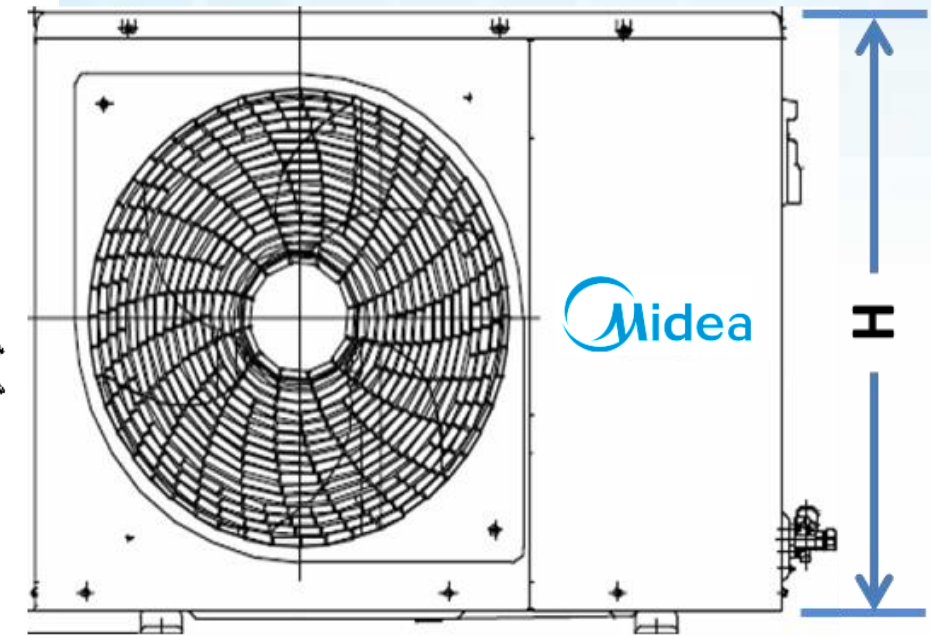
High Static Duct Unit- 11.0TR- R410A- GA Drawing



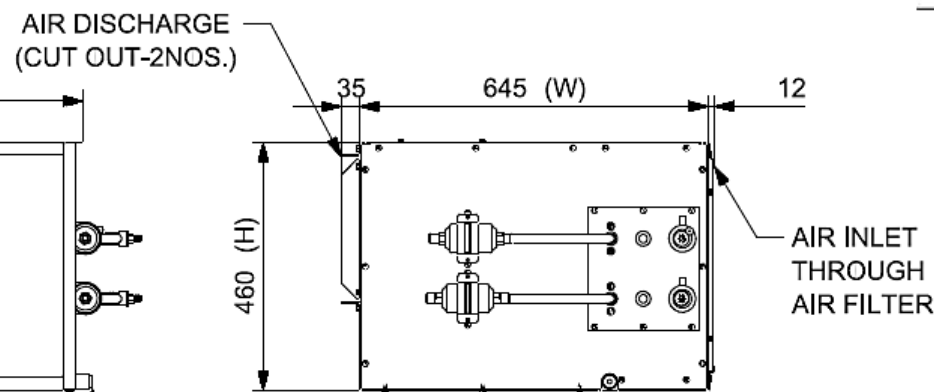
TOP VIEW



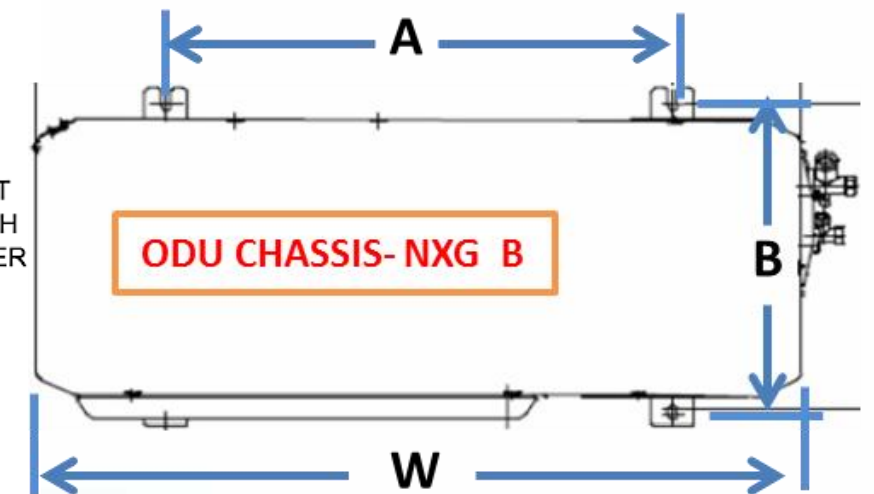
ISO VIEW



FRONT VIEW



SIDE VIEW



ODU Chassis Dimension & Foot-print in mm					
Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
NXG- B	900	320	820	600	360

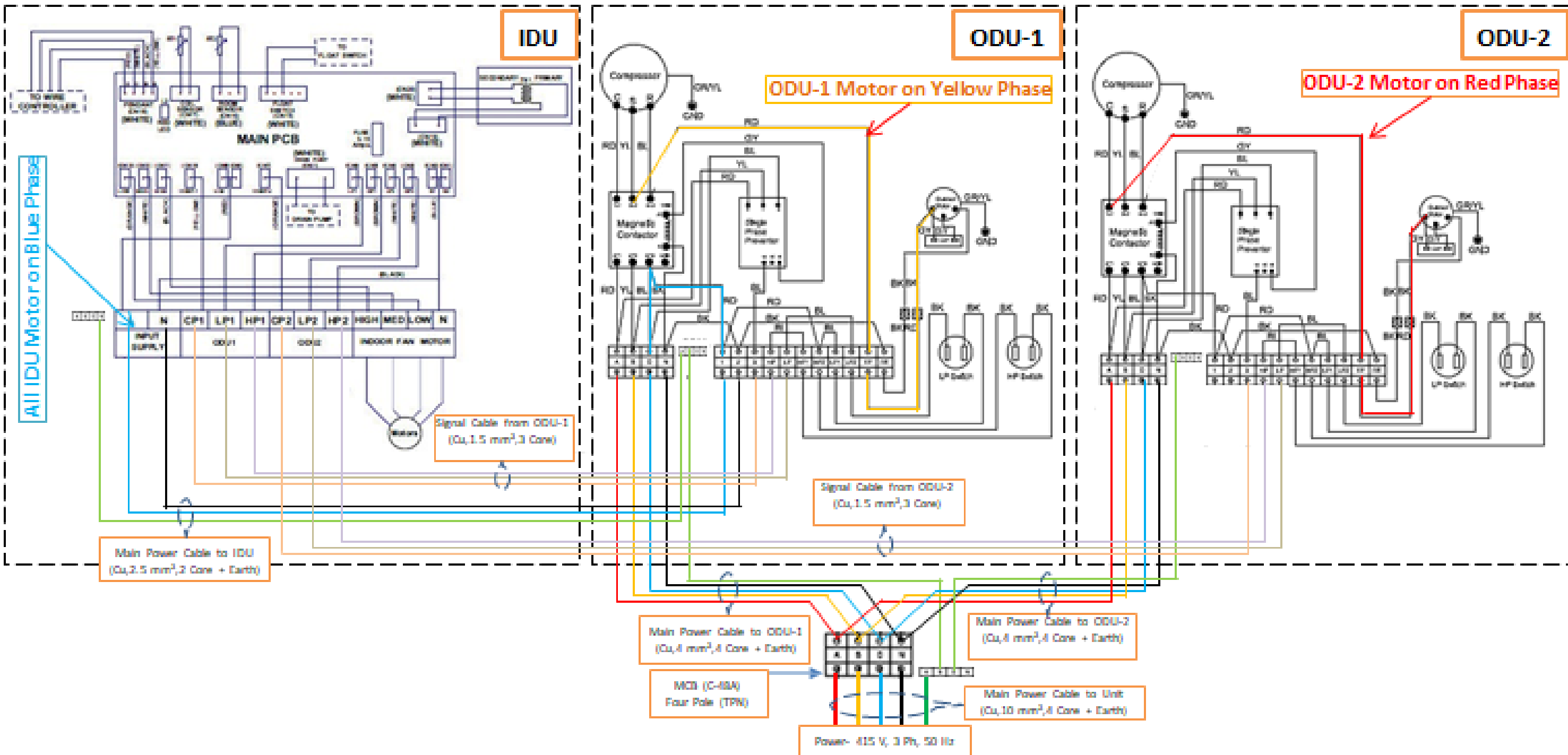
1- All dimensions are in mm

2- Mouth size- 1019 x 270

3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of unis

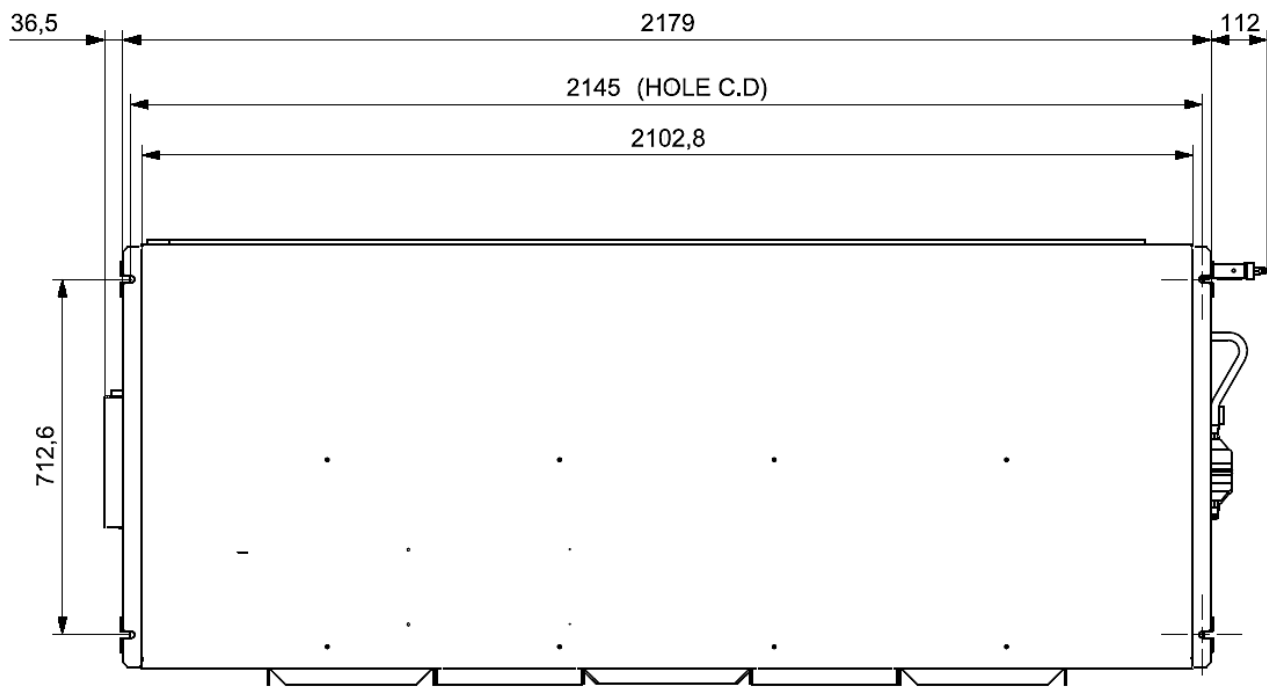


High Static Duct Unit- 11.0TR- R410A- Field Wiring

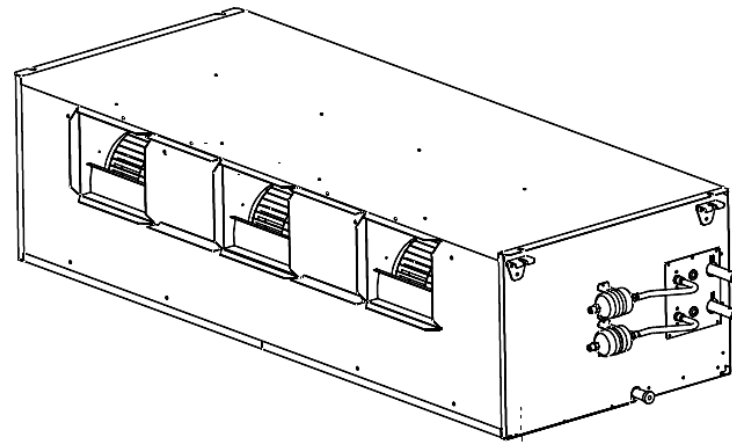


Unit	Compressor (3Ph)	IDU Motor (1Ph)	ODU Motor (1Ph)	Total amp at R Phase	Total amp at Y Phase	Total amp at B Phase	Amp difference
11 TR	2 No/ 11.5 Amp	2 Nos / 0.65kW/ 3.5Amp	2 Nos / 0.15kW/ 0.8Amp	$11.5+0.8=12.3$	$11.5+0.8=12.3$	$11.5+3.5 \times 2=18.5$	6.2

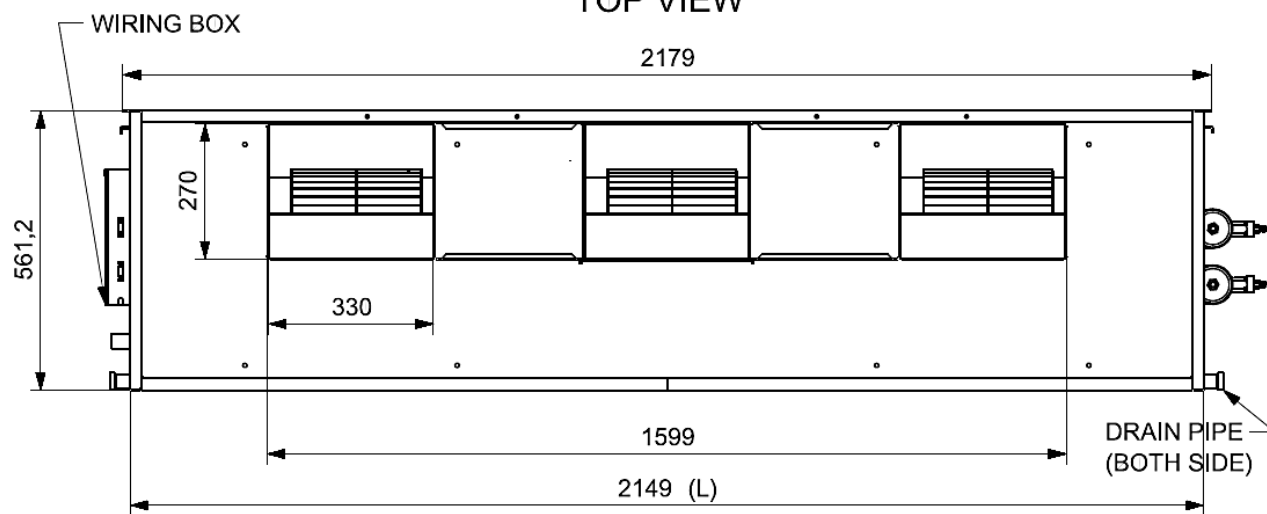
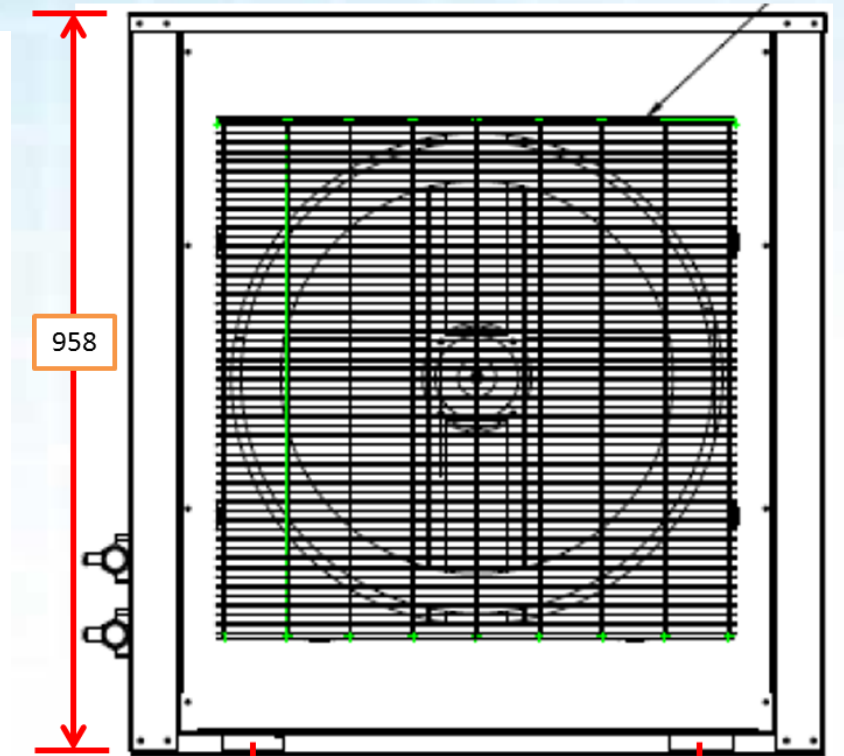
High Static Duct Unit- 17.0TR- R410A- GA Drawing



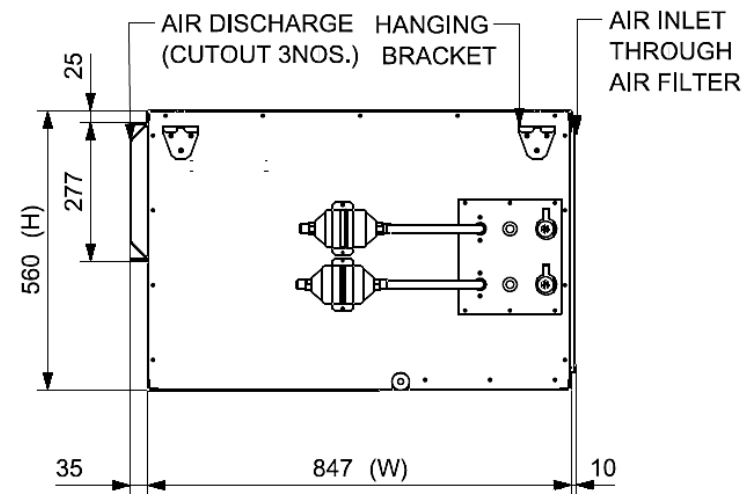
TOP VIEW



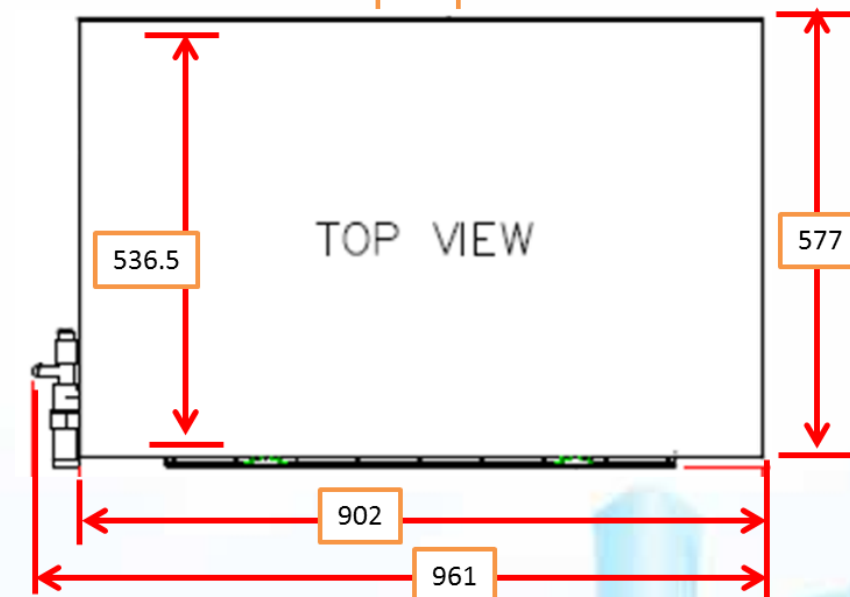
ISO VIEW



FRONT VIEW



SIDE VIEW

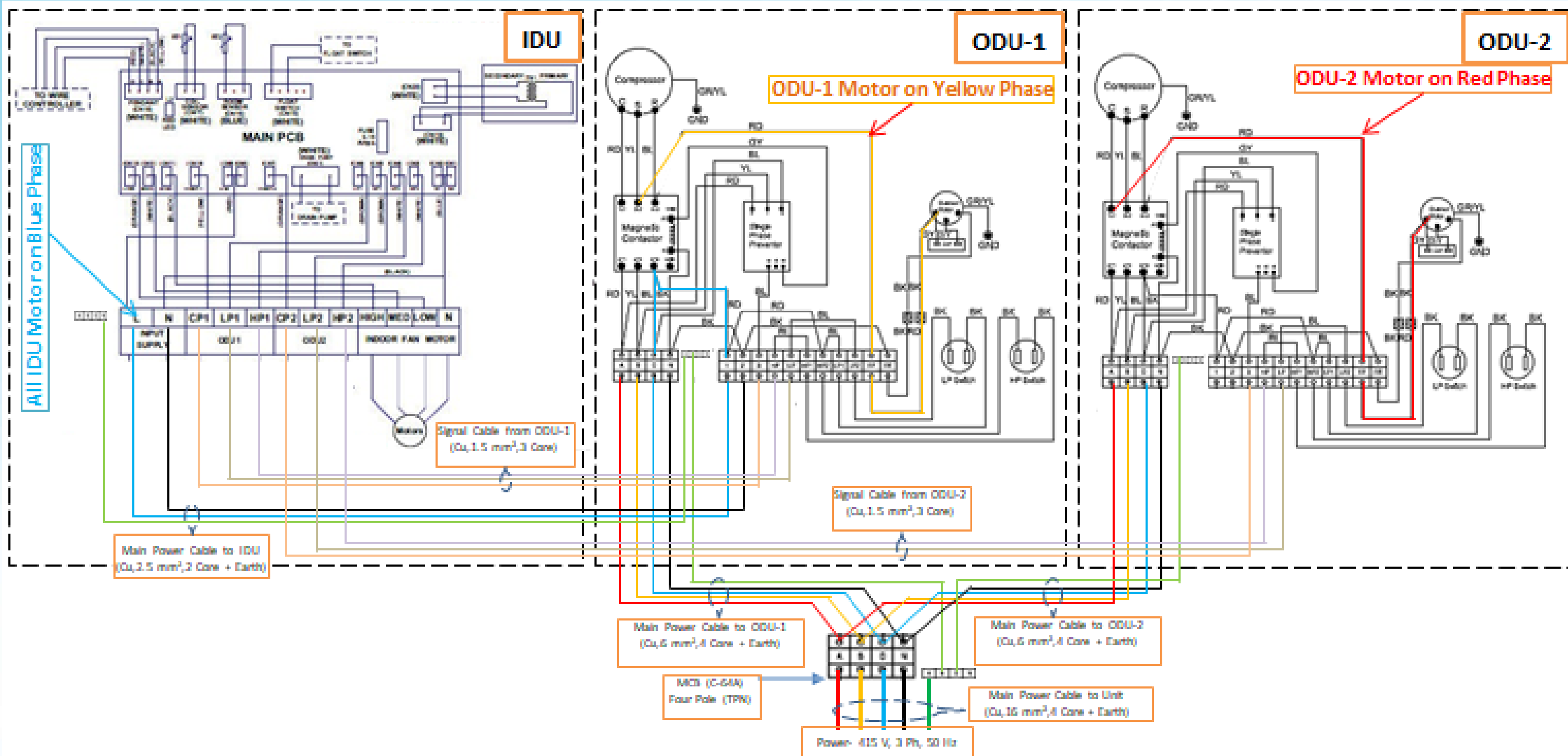


TOP VIEW

- 1- All dimensions are in mm
- 2- Mouth size- 1599 x 270
- 3- Refrigerant Filter Drier fitted in right side where control panel fitted in left side of units



High Static Duct Unit- 17.0TR-R410A- Field Wiring



Unit	Compressor (3Ph)	IDU Motor (1Ph)	ODU Motor (1Ph)	Total amp at R Phase	Total amp at Y Phase	Total amp at B Phase	Amp difference
17 TR	2 No/ 14.2 Amp	3 Nos / 0.65kW/ 3.5Amp	2 Nos / 0.38kW/ 2.0Amp	14.2+2=16.2	14.2+2=16.2	14.2+3.5x3=24.7	8.5

High Static Duct: Error Code



Medium & High Static Duct

Error Code at Remote Pendant	Error code thru LED in Power Scanner at ODU	Error Description	Applicable for unit
E2		Room Sensor failure	1.5 ~ 17 TR
E3		Coil Sensor failure	1.5 ~ 17 TR
E7		Non-volatile memory failure	1.5 ~ 17 TR
E8		Water level switch failure	1.5 ~ 17 TR
E9		Defrost failure	1.5 ~ 17 TR
H1		High pressure trip: Comp-1	3 ~ 17 TR
H2		High pressure trip: Comp-2	11 ~ 17 TR
L1		Low pressure trip: Comp-1	3 ~ 17 TR
L2		Low pressure trip: Comp-2	11 ~ 17 TR
CE (Display at Remote Pedant & Red LED Blink at Control Box PCB)		Communication failure	1.5 ~ 17 TR
	Glow continuously	Power Healthy	3 ~ 17 TR
	Red LED Off	Any of Phase Loss	3 ~ 17 TR
	Fast Blink (2/Sec)	Voltage unbalance	3 ~ 17 TR
	Slow Blink (1/Sec)	Incorrect Phase Sequence	3 ~ 17 TR



Remote Pendant



Red LED in IDU PCB



Power Scanner in ODU



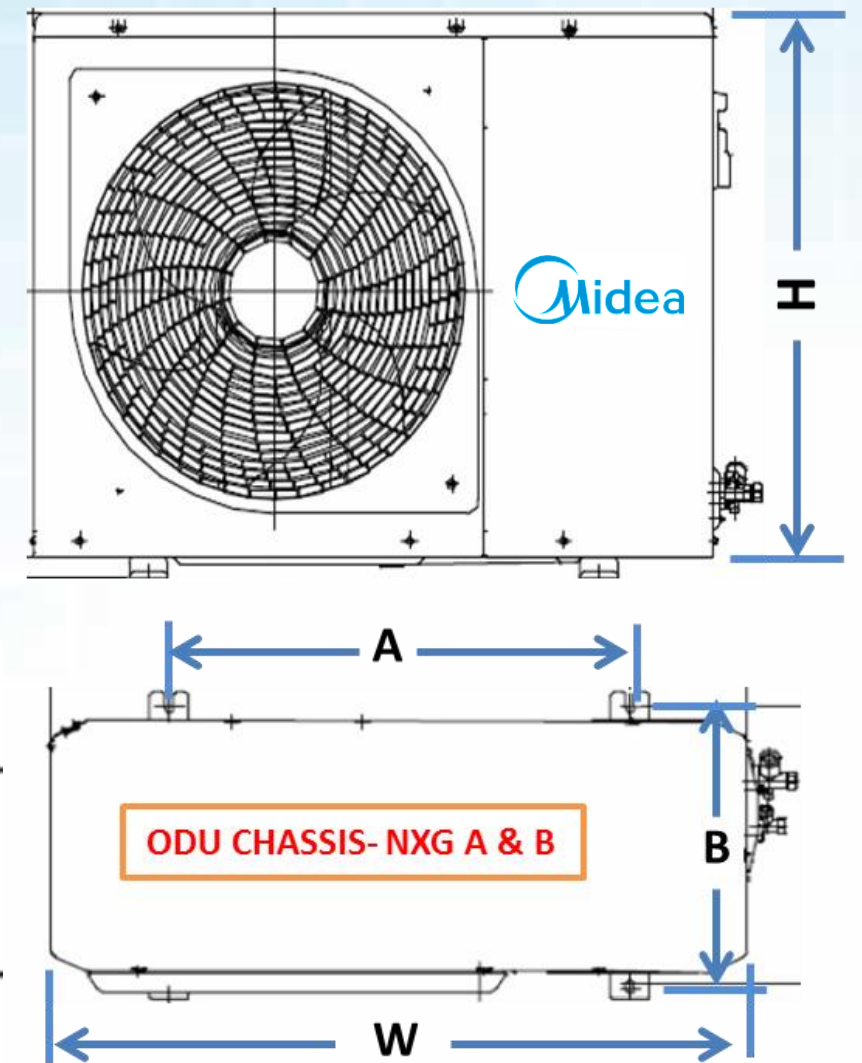
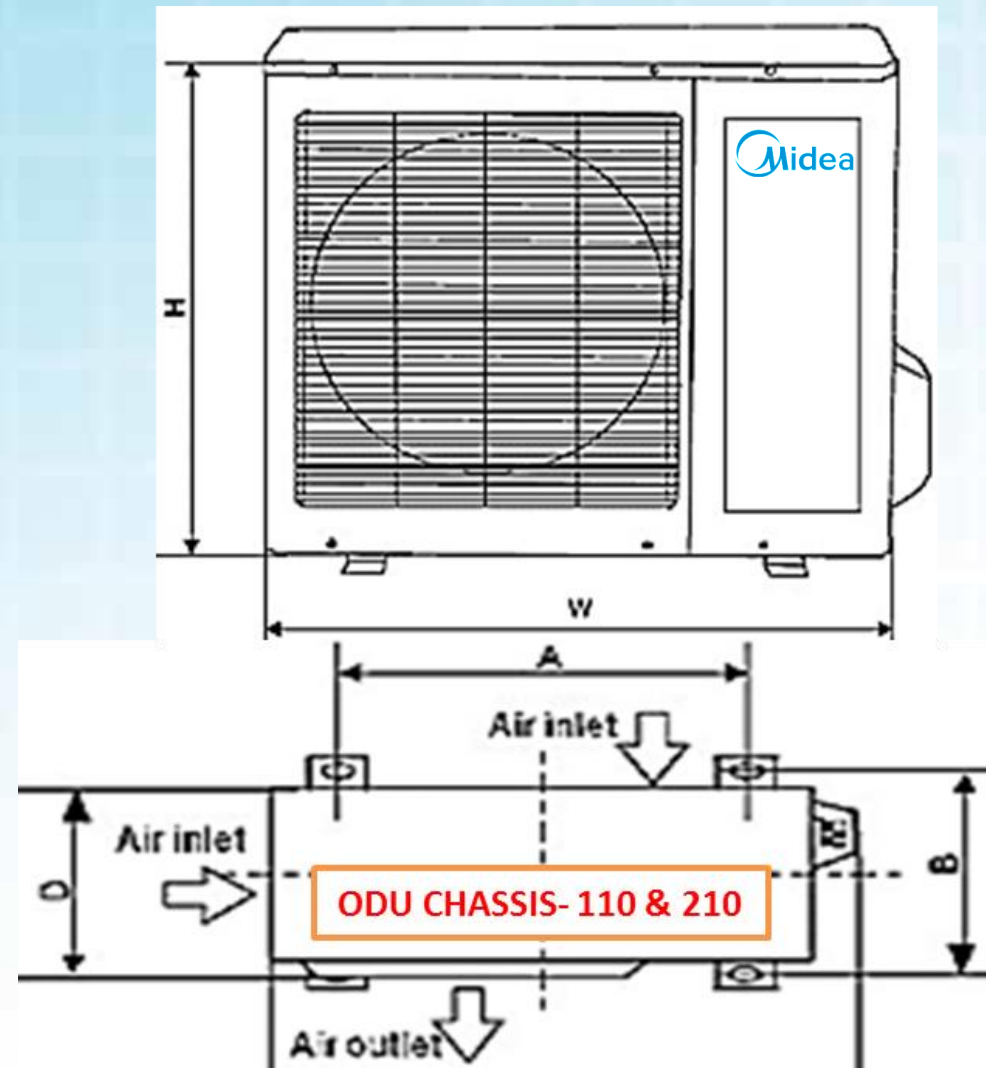
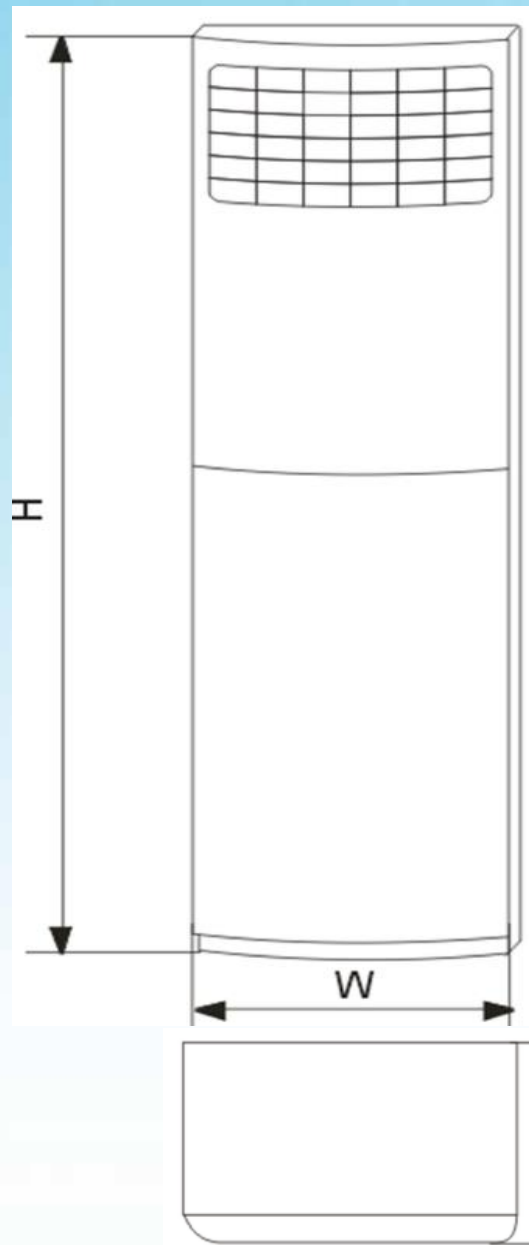
Floor
Standing

Floor Standing Unit- R410A



Floor Standing- R410A							Updated: 08112019
Description	Unit	18K Floor Standing (1 Star)	18K Floor Standing (2 Star)	24K Floor Standing (2 Star)	24K Floor Standing (2 Star)	36K Floor Standing	48K Floor Standing
FG Model No/ Code		MCAF18RY1C2	MCAF18RY2C2	MCAF24RY1C2	MCAF24RY2C2	MCAF36RSC2	MCAF48RSC2
FG Code		224050061150@CMI	224050061160@CMI	224050061170@CMI	224050061180@CMI	224050061190	224050061200
IDU Code		224050052660@CMI	224050052690@CMI	224050052750@CMI	224050052780@CMI	224050052900	224050052930
ODU Code		224050052670@CMI	224050052700@CMI	224050052760@CMI	224050052790@CMI	224050052910	224050052940
Cooling Capacity	TR/ Kw/ BTU	1.5 / 5.150 / 17572	1.5 / 5.275 / 17998	2.0 / 6.300 / 21495	2.0 / 6.400 / 22519	3.0 / 10.6 / 36000	4.0 / 14.0 / 48000
Operating Power (IDU/ ODU)	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	380~415-3-50	380~415-3-50
Input Power/ Current	Watts / A	1640 / 7.0	1570 / 6.7	2000 / 8.2	1930 / 8.1	3200 / 6.0	4000 / 7.0
Annual Power Consumption	Watts	1269.5	1215.4	1548.2	1494.0	NA	NA
ISEER	watt/watt	3.14	3.36	3.15	3.32	NA	NA
Air Flow Volume (Max)	CMH/ cfm	1060 / 624	1060 / 624	1060 / 624	1060 / 624	1802 / 1060	1802 / 1060
Noise Level (Max-Min)	dB	45.6 / 41.8	45.6 / 41.8	45.6 / 41.8	45.6 / 41.8	57 ~ 52	57 ~ 52
Compressor	Make & Type	GMCC- Rotary	GMCC- Rotary	GMCC- Rotary	GMCC- Rotary	Emerson- ZP36- Scroll	Emerson ZP49- Scroll
Pipe Size (Liquid / Gas)	Inch	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	1/2" / 3/4"	1/2" / 3/4"
Metering Device	Orific & Capillary	Capillary at ODU	Capillary at ODU	Capillary at ODU	Capillary at ODU	Capillary at ODU	Capillary at ODU
Insulation Thickness (Liquid/ Gas)	mm	13 / 13	13 / 13	13 / 13	13 / 13	13 / 19	13 / 19
Max. Pipe length	Meters	20	20	25	25	30	30
Max. Height Difference	Meters	8	8	10	10	10	10
U Trap in Gas Pipe (ODU above)	Nos / meters	at every 4 m	at every 4 m	at every 4 m	at every 4 m	at every 4 m	at every 4 m
Input Power Location	IDU/ ODU	at IDU	at IDU	at ODU	at ODU	at ODU	at ODU
Main Power wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 2.5 / 4 + E	Cu / 2.5 / 4 + E
Inter Connecting wire Spec.	Type/ Sqmm / Core	Cu / 2.5 / 2 + E	Cu / 2.5 / 2 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E	Cu / 1.5 / 3 + E
Pre gas charge qty for 7.5 M length	Kg	R410A - 1.2 Kg	R410A - 1.2 Kg	R410A - 1.15 Kg	R410A - 1.34 Kg	R410A - 1.9 Kg	R410A - 2.0 Kg
Additional Gas qty/ Mtrs	gm	20	20	50	50	100	100
Net dimension IDU (W x D x H)	mm	510 x 315 x 1750	510 x 315 x 1750	510 x 315 x 1750	510 x 315 x 1750	550 x 350 x 1800	550 x 350 x 1800
Net dim. ODU (W x D x H)/ Chassis	mm	780x250x540 / W110	910x320x670 / NXG-A	845x320x700 / W210	845x320x700 / W210	910x320x820 / NXG-B	910x320x820 / NXG-B
Net weight (IDU/ ODU)	Kg/ Kg	36 / 36	36 / 46	36 / 48	36 / 49	49 / 62	49 / 64
Air Filter built-in	Yes / No	Yes	Yes	Yes	Yes	Yes	Yes
Drain Pump/ head	mm	NA	NA	NA	NA	NA	NA
Drain Pipe Dia	mm	ODΦ16mm	ODΦ16mm	ODΦ16mm	ODΦ16mm	ODΦ16mm	ODΦ16mm
Ambient operating Range	°C	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50	18 ~ 50
Remote	Cordless & On Panel	Cordless & On Panel	Cordless & On Panel	Cordless & On Panel	Cordless & On Panel	Cordless & On Panel	Cordless & On Panel
MCBO Rating (300mA)	Pole / Class- Amp	DP / C- 16	DP / C- 16	DP / C- 20	DP / C- 20	TPN / C- 16	TPN / C- 16

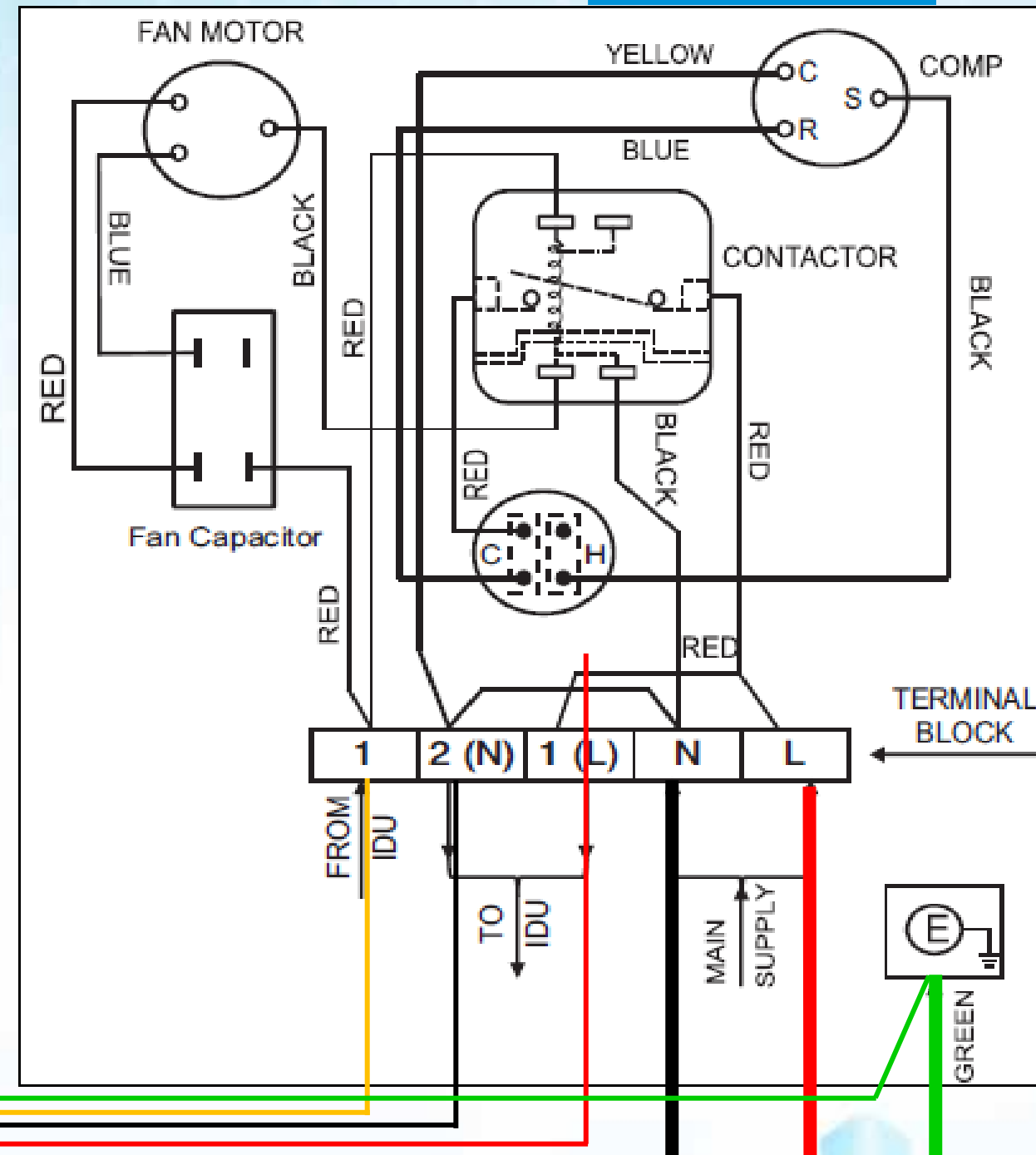
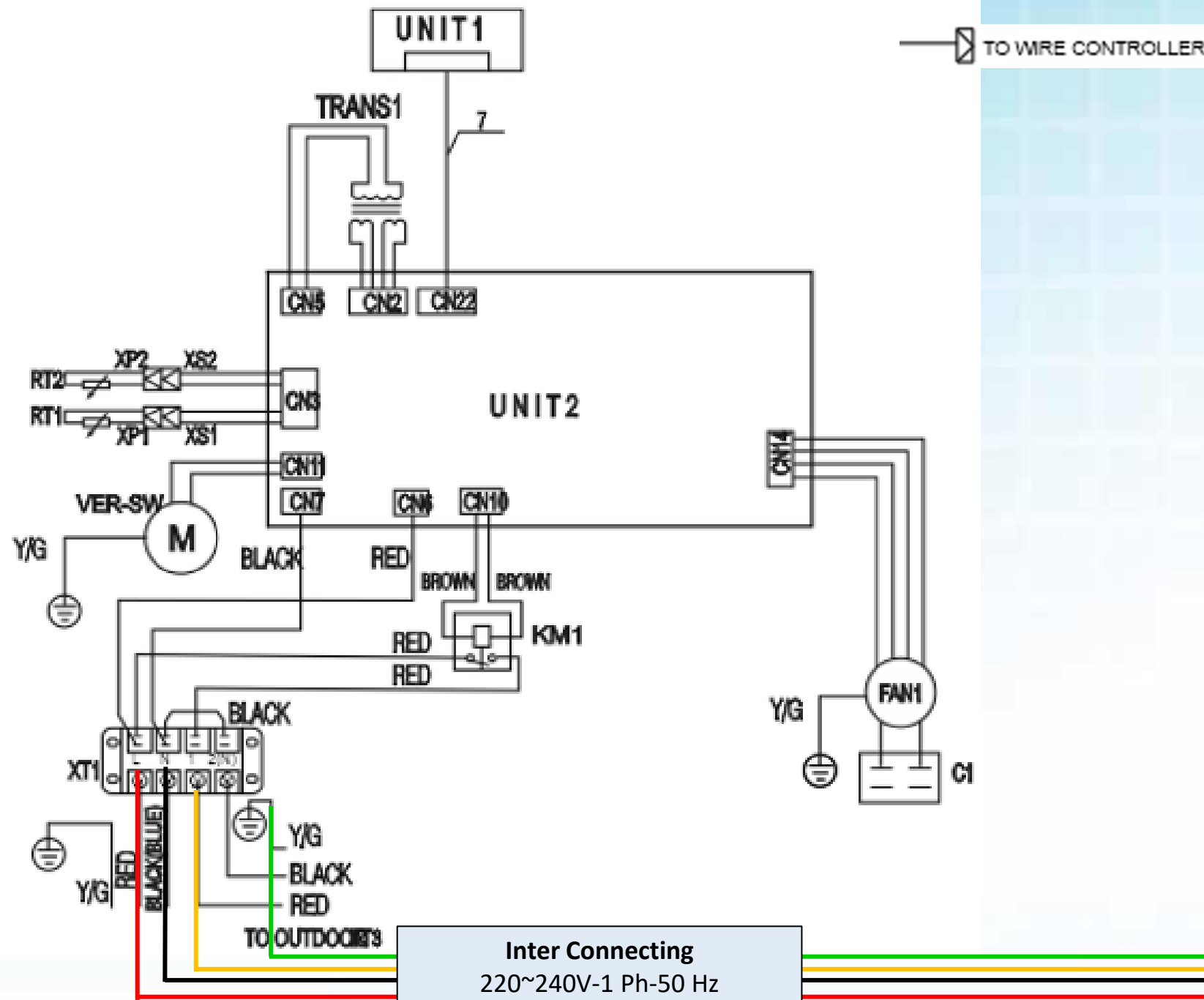
Floor Standing Unit- R410A- GA Drawing



Mode	Dimension	W(mm)	D(mm)	H(mm)
18K		510	240	1695
24K		510	240	1695
36K		550	350	1800
48K		550	350	1800

Units	ODU Châssis Dimension & Foot-print in mm					
	Chassis Types	Wedth (W)	Depth (D)	Height (H)	Mounting Hole (A)	Mounting Hole (B)
18K 1 Star Floor Standing	W 110	780	250	540	549	276
18K 2 Star Floor Standing	NXG- A	900	320	670	600	360
24K 1 & 2 Star & Floor Standing	W 210	845	320	700	560	335
36K & 48K Floor Standing	NXG- B	900	320	820	600	360

Floor Standing Unit- R410A- 1.5 & 2.0 TR- Field Wiring

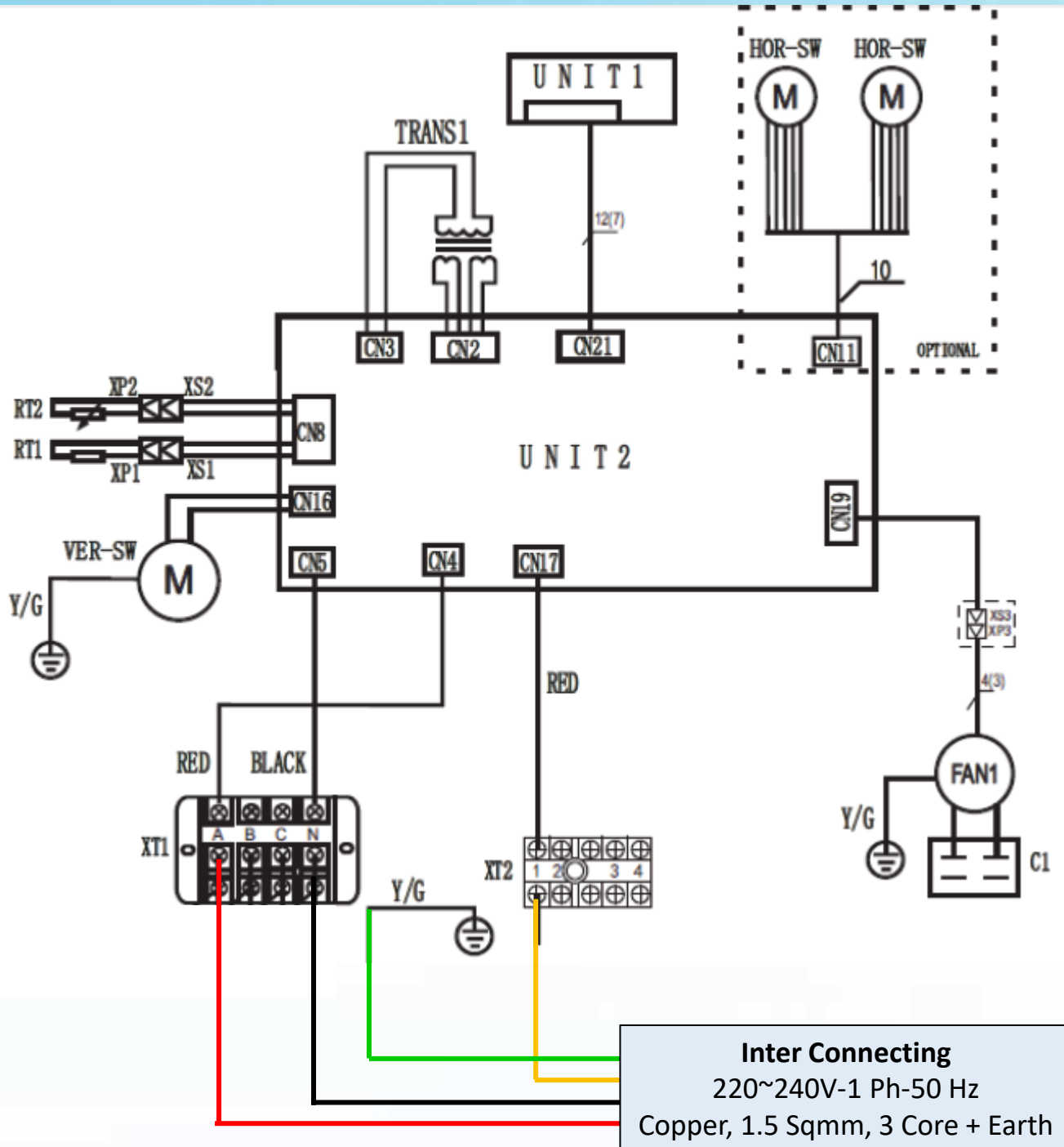


Inter Connecting
 220~240V-1 Ph-50 Hz
 Copper, 1.5 Sqmm, 3 Core + Earth

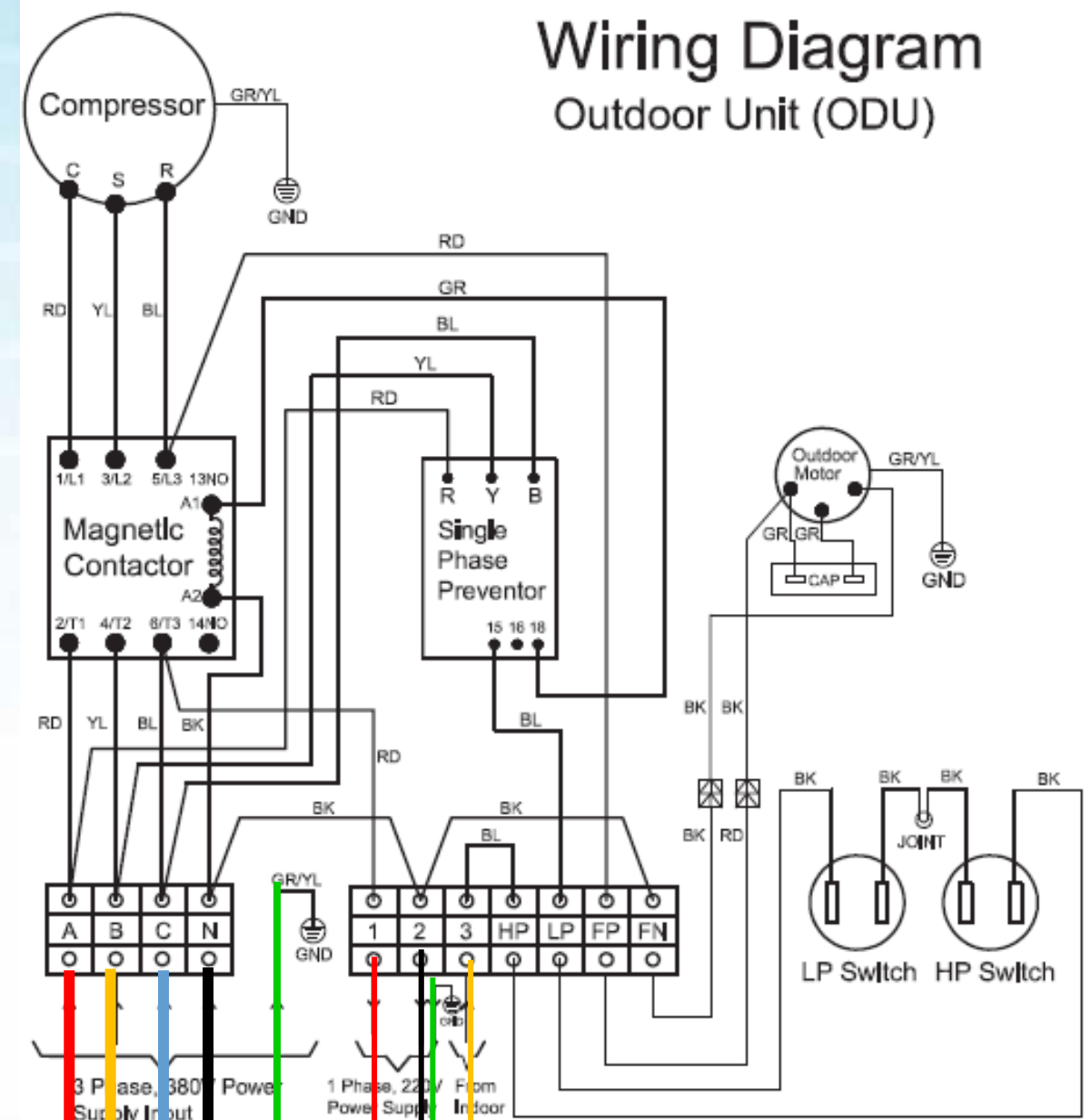
Main Power Supply
 220~240V-1 Ph-50 Hz
 1.5 TR: Copper, 1.5 Sqmm, 2 Core + Earth
 2.0 TR: Copper, 2.5 Sqmm, 2 Core + Earth



Floor Standing Unit- R410A- 3.0 & 4.0 TR- Field Wiring



Inter Connecting
 220~240V-1 Ph-50 Hz
 Copper, 1.5 Sqmm, 3 Core + Earth



Main Power Supply
 380~415V-3 Ph-50 Hz
 3 TR & 4 TR Copper, 2.5 Sqmm, 4 Core + Earth

2020C1030098



Floor Standing: Error Code



Floor Standing			
Error Code at Panel	Error code thru LED in Power Scanner at ODU	Error Description	Applicable for unit
P4		Indoor evaporator temperature protection	1.5 ~ 4.2 TR
P9		Anti-cold wind	1.5 ~ 4.2 TR
E1		T1 temperature sensor open or short circuit	1.5 ~ 4.2 TR
E2		T2 temperature sensor open or short circuit	1.5 ~ 4.2 TR
EC		Refrigerant leakage detection	1.5 ~ 4.2 TR
HS		Defrosting	1.5 ~ 4.2 TR
F0		Communication malfunction between indoor main PCB and display PCB (for J2, S4, E2 Models)	1.5 ~ 4.2 TR
	Red LED Glow continuously (Power Scanner)	Power Healthy	3 ~ 4.2 TR
	Red LED Off (Power Scanner)	Any of Phase Loss	3 ~ 4.2 TR
	Red LED Fast Blink (20/Sec) (Power Scanner)	Voltage unbalance	3 ~ 4.2 TR
	Red LED Slow Blink (1/Sec) (Power Scanner)	Incorrect Phase Sequence	3 ~ 4.2 TR



IDU Display



Power Scanner in ODU



Thank you!

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