Wind Industries, Inc.
Smart Air conditioners for smart people

Ducted Split Units(DX)

DB/VB Series

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www.windind.com

CEILING CONCEALED DUCTED - COOLING ONLY TYPE

Capacity (BTU)

Model	Capacity	Phase	Static	Electrical Range
DB - 04 & VB - 012 C1	12000	1PH	LO	220-240 v 50Hz
DB - 06 & VB - 018 C1	18000	1PH	LO	220-240 v 50Hz
DB - 08 & VB - 024 C1	24000	1PH	LO	220-240 v 50Hz
DB - 10 & VB - 030 C1	30000	1PH	LO	220-240 v 50Hz
DB - 12 & VB - 036 C1	36000	1PH	LO	220-240 v 50Hz
DB - 12 & VB -042 C4	42000	3PH	LO	380-420 v 50Hz
DB - 16 & VB - 048 C4	48000	3PH	LO	220-240 v 50Hz
DB - 20 & VB - 060 C4	60000	3PH	LO	220-240 v 50Hz

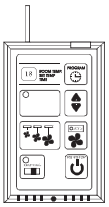
The next generation of air conditioning system... Concealed Comfort High static pressure ensures various designs of duct system.

FEATURES:

- SYSTEM: ON/OFF FUNCTION
- MODEL: COOL,FAN
- TIMER ON & TIMER OFF (24 HOURS)
- TEMP SETTING RANGE : 15-30 C
- FAN SPEED : LOW, MEDIUM,HIGH , AUTO
- SLEEP FUNCTION
- INDOOR DE-ICE & OUTDOOR DE-ICE
- 3 MINS DELAY PROTECTION OF COMPRESSOR
- HIGH PRESSURE PROTECTION
- AUTO RESTART
- OPTIONAL INFRA RED RECEIVER AS SHOWN FOR
- HAND SET TO KEY PAD OPERATION
- CONTROLS DX-COOLING WITH ELECTRIC HEAT (OPTION)

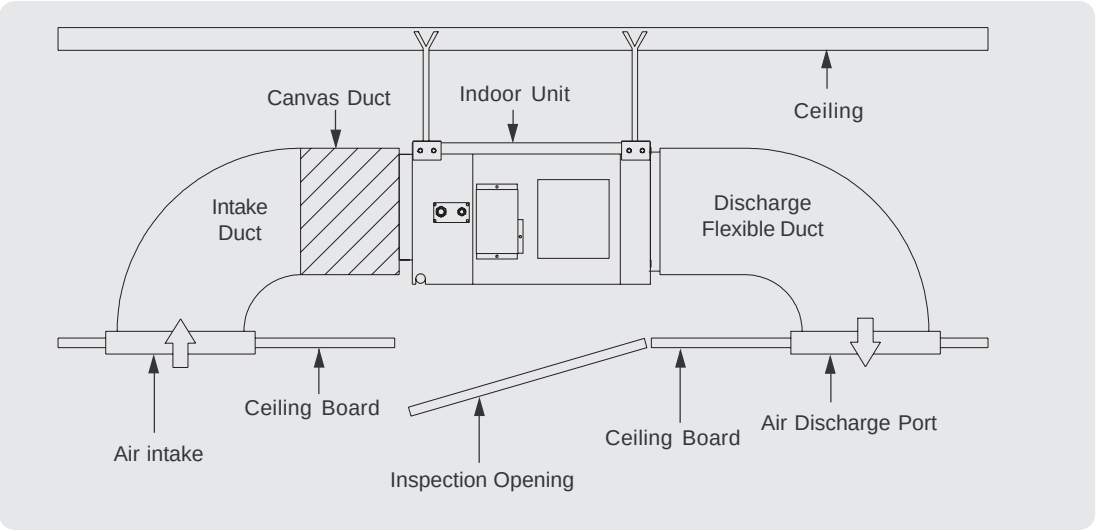
Indoor

Outdoor



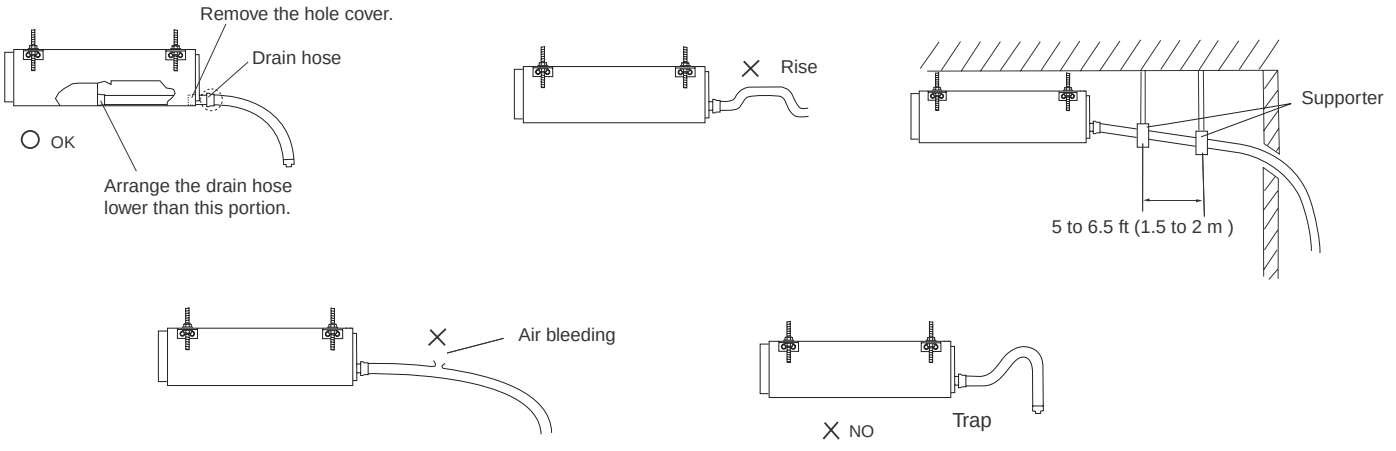
COMPACT AND LIGHT DESIGN

It can be installed even in a limited space. Units have in-built hanging provisions saving 2-3" required for support below the unit.



EASY INSTALLATION

Flexible Duct apparatus allows easy installation regardless the room size or the location of lighting fixtures.



INSTALLING DRAIN HOSE

1. Install the drain hose with downward gradient (1/50 to 1/100) and so there are no rises or traps in the hose.
2. Use general hoed polyvinyl chloride pipe (VP25) {outside diameter 1-1/4" (29mm)} and connect it with adhesive (polyvinyl chloride) so that there is no leakage.
3. When the hose is long, install supporters.
4. Do not perform air bleeding.
5. Always heat insulate the indoor side of the drain hose.
6. Regarding part A, connect the vinyl hose to the accessory drain hose (ID: 25 mm, OD: 29 mm). After sealing the connection with vinyl tape, wrap it with drain hose insulation.
7. Adjust the vinyl hose at the site.

CONTROLS SPECIFICATION

1. ABBREVIATION

Ts : Setting Temperature
Tr : Room Temperature
Ti : Indoor defrost sensor temperature

2. OPERATION OF MAINBOARD

2.1 COOL MODE

• If Tr > Ts, cool operation is activated. Compressor and outdoor fan are turned on. Indoor fan runs at the set speed.
• If Tr ≤ Ts-1 ^{o}C, cool operation is terminated. Compressor and outdoor fan are turned off. Indoor fan runs at the set speed.
• The range of Ts is 15~30 ^{o}C.
• Indoor fan speed can be adjusted for low, medium, high and auto.
• Compressor will delay for 3 minutes before it is turned on or off

2.1.1 Indoor de-ice

This process is checked by the indoor defrost sensor (Ti). After the compressor has worked for 45 minutes, if Ti ≤ 0^{o}C for 3 minutes continuously, compressor and outdoor fan are turned off. Indoor fan keeps running at the set speed. When Ti ≥ 8^{o} C or indoor de-ice operation is on for more than 8 minutes, system will return to normal operation.

2.2 FAN MODE

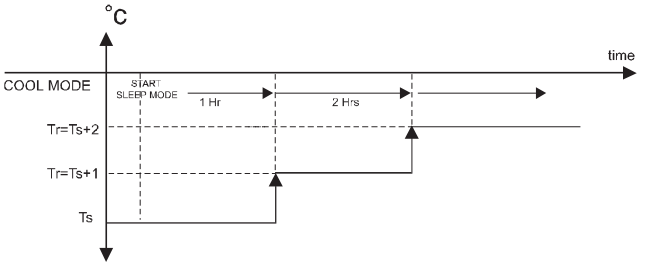
• Indoor fan runs at the set speed while compressor and outdoor fan are turned off.
• Indoor fan speed can be adjusted for low, medium and high. The initial speed is medium.

2.3 TIMER

• Timer off can only be set when the system is operating.
• Timer on can only be set when the system is off.
• The maximum set time is 24 hours.
• Changing of on/off state will cancel timer mode.

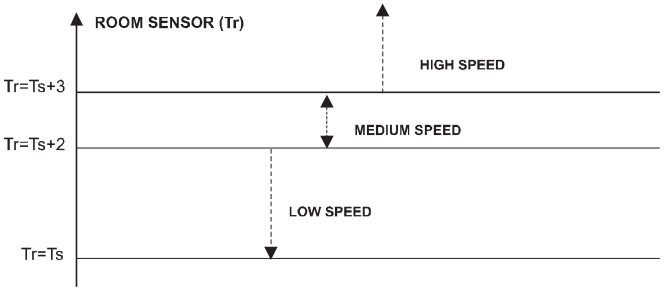
2.4 SLEEP MODE

• Sleep mode can only be set in cool and heat mode.
• In cool mode, after sleep mode is set, Ts will increase 1^{o}C each hour for 2 hours.
• Changing of operation mode will cancel sleep mode.



2.5 AUTO FAN SPEED

• In cool mode, if Tr-Ts<2^{o}C, indoor fan is run at low speed. if 2^{o}C<Tr-Ts<3^{o}C, indoor fan is run at medium speed. if Tr-Ts>3^{o}C, indoor fan is run at high speed.



• There is no auto fan speed in fan mode.

2.6 BUZZER

• If a command is received , the system will respond with a beep.

2.7 AUTO RESTART

The system uses non-volatile memory to save the present operation parameters when system is turned off or in case of system failure or cessation of power supply. Operating parameters are mode, set temperature, and fan speed. When power supply resumes or the system is switched on again, the same operation parameters as previously set will function.

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CONTROLS SPECIFICATION

3. OPERATION OF KEY PAD AND DISPLAY

3.1 ON/OFF BUTTON

• Every press of this button will turn on or off the air conditioning unit.

3.2 MODE BUTTON

• Every press of this button will change the operation mode and LED lights in sequence as follows :

• Each mode has a memory which records the previous operating fan speed and set temperature.

3.3 FAN BUTTON

• Every press of this button will change the fan speed and LED lights in sequence as follows :

• There is no auto fan speed in fan mode.

3.4 SLEEP BUTTON

• Press this button to turn on or off sleep function. When sleep function is on, LED light is on.

3.5 TEMP UP & TEMP DOWN BUTTON

• Press these buttons to increase or decrease the set temperature 1°C per press.
• The range of set temperature is 15-30°C
• Temperature set will be disabled in fan mode.

3.6 TIMER BUTTON

TIMER ON & TIMER OFF

• Timer on can only be set when system is off.
• Timer off can only be set when system is on.
• Press the button to turn on timer mode. One press will increase the time 1 hour. Display will blink for 4 seconds and return to temperature display if there is no further button pressing. The range of timer setting is 0 - 24 hours.
• The air-conditioning unit is turned on or off when the set hour number has elapsed.
• Setting timer less than 1 hour or changing of on/off state will cancel timer mode.

CONTROLS SPECIFICATION (OPTION)

SYSTEM OPERATION

A. ON / OFF SWITCH: The soft touch system ON/OFF switch is used to start and stop the operation of the air conditioner as required. It is suggested to let the thermostat do its job automatically by switching the heating or cooling functions of the system ON or OFF, according to the set system temperature settings. Therefore, please limit the use of the system ON/OFF switch to a minimum.

B. HEAT/COOL SYSTEM SWITCH: If the air conditioner provides the heating function in addition to cooling, this switch is used to alternate between these functions, depending on the environmental requirements. Heating will be available only when the system switch is in HEAT position and cooling will be available only when the system switch is in COOL position.

C. FAN SPEED SELECTION SWITCH: Depending on the system characteristics as set by the D.I.P switches, the system can provide control over a two speed or a three speed fan motor, and an automatic air swing motor. Please note however, if the automatic swing motor can be activated by this switch, the fan motor speed selection must be reduced to two speed only, since the medium speed fan relay & its L.E.D. is re-assigned for the swing motor function. It is always best to leave the setting at AUTO FAN and let the system automatically set the speed of the fan motor as required.

D. TEMPERATURE SET SWITCH: Pressing the switches indicated by the up arrow or down arrow increases or decreases the setting of the desired temperature for the environment at one degree increments. Also see paragraph F below for the display of the set and the room temperatures.

E. PROGRAM (TIMER) SWITCH: To set an OFF time for the system. Turn on the air conditioner and than press this button any number of timers, until the desired time, that needs to be elapsed before the system turns itself off, is displayed, To set an ON time for the system, turn off the air conditioner and than press itself on, is displayed, The time displayed will be in hours and can be increased or decreased in one hour increment, Also see paragraph F.

F. L.E.D. TEMPERATURE/TIME DISPLAY: The settings outlined in paragraphs D and E above can be followed on this display. When the system set temperature is being selected, the set temperature is displayed. Within 10 seconds following the temperature setting, the display switches itself to show the current room temperature. When setting the ON/OFF timer program, the display shows the time set in hours before the system turns on or off.

G. TEMPERATURE DEVIATION MONITOR: The red or green color of this L.E.D. indicates system is engaged in heating or cooling operation. Blinking stages are: Off = Satisfied, Slow=1 , Fast=2 , Solid=3 or more to go.

H. FAN SPEED L.E.D.: For systems with three speed motors and without an auto swing which can be turned ON or OFF , only one of these lights will be on at a time, indicating the current fan speed. For systems with two speed motors and an auto swing which can be turned ON or OFF, the L.E.D. for the medium speed displays the swing motor ON/OFF status and two of these lights may be on at a time. In this case, the other light is indicating the fan speed.

I. INFRARED SIGNAL RECEIVER: All functions listed above can be accessed through an optional infrared transmitter. The sensor for the transmitter's signal is located behind this hole.

DIMENSIONS

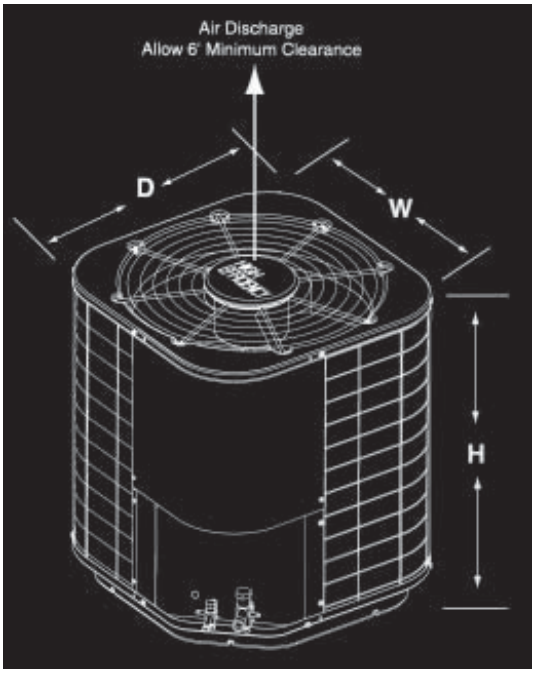
Indoor

DB	04	06	08	10	12	16	20
H	281	281	281	298	298	370	370
W	880	880	880	1080	1080	1230	1230
D	575	575	575	600	600	680	680

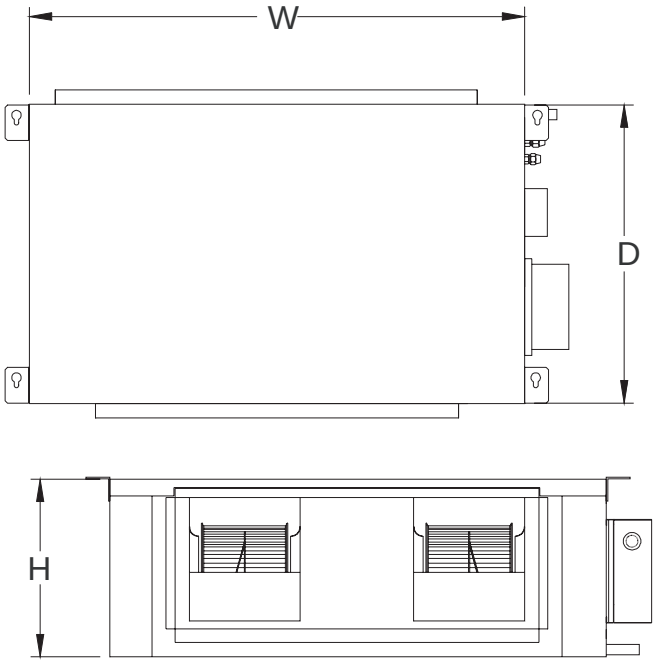
Outdoor

VB	012	018	024	030	036	048	060
H	572	572	572	572	673	673	673
W	572	572	572	572	572	762	762
D	572	572	572	572	572	762	762

Outdoor



Indoor



Models			DB - 04+VB 012 C1	DB - 06+VB 018 C1	DB - 08+VB 024 C1	DB - 10+VB 030 C1	DB - 12+VB 036 C1	DB - 16+VB 048 C4	DB - 20+VB 060 C4
Electrical Data	Voltage	(V/P/Hz)	220-240/1/50					380-420/3/50	
Condenser Coil	Type		High efficiency						
	Tube size (O.D)	(inch)	3/8"						
		(mm)	9.52						
	Face area	(sq.ft)	8.3	8.3	8.3	8.3	10	15.3	15.3
		(m^2)	0.77	0.77	0.77	0.77	0.92	1.42	1.42
Evaporator Coil	Type		High efficiency						
	Tube size (O.D)	(inch)	3/8"						
		(mm)	9.52						
	CFMB (H,M,L)		410/330/290	720/600/550	790/590/390	1100/910/780	1100/930/810	1590/1380/1290	1670/1420/1320
	Row/FPI		2/14	2/14	3/14	3/14	3/14	3/14	4/14
	Face area	(sq.ft)	1.66	2.08	2.08	2.91	2.91	3.67	3.67
		(m^2)	0.155	0.19	0.19	0.27	0.27	0.34	0.34
Condenser Fan	Type		Propeller						
	No. Used/Diameter (in)		1/18	1/18	1/18	1/18	1/20	1/20	1/20
	Drive Type		DIRECT DRIVE						
	CFM		2200	2200	2200	2200			
	Watts - HP		160-1/8	160-1/8	160-1/8	160-1/8	160-1/8	230-1/6	230-1/6
Evaporator Fan	Type		CENTRIFUGAL BLOWER FAN						
	No. Used		2	2	2	2	2	2	2
	Diameter/Width(in.)		6.5 x 7.9	6.5 x 7.9	6.5 x 7.9	8 x 10	8 x 10	9 x 7	9 x 9
	Dirive Type /Motor Step								
	No.motors								
	Watts - HP		37-1/20	50-1/15	75-1/10	373-1/2	373-1/2	560-3/4	746-1
Drain Connection Size			22.22(7/8)						

Notes Design and specitications are subject to charge without prior notice for product improvement

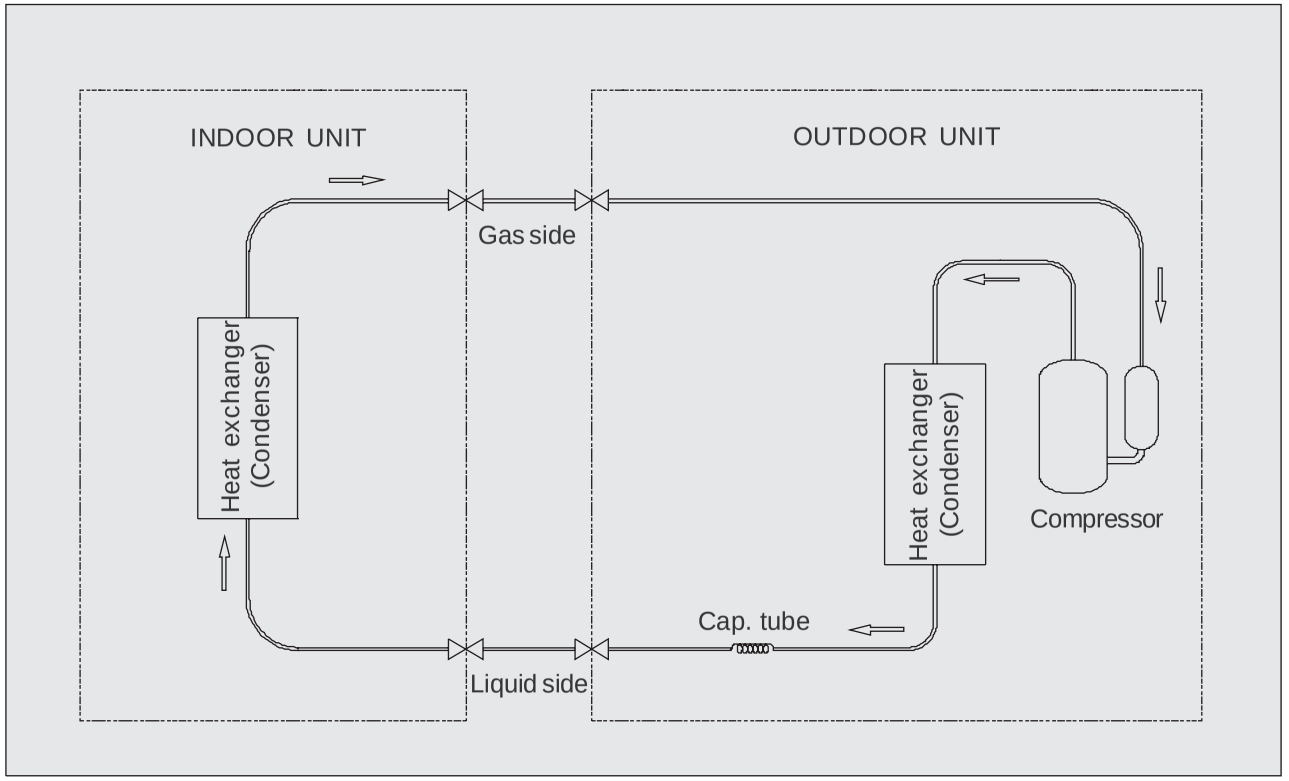
RATED AIR FLOW CFM	AIR ON COOLING COIL DB °F	AIR ON COOLING COIL WB °F	INDOOR UNIT POWER INPUT W	INDOOR UNIT RATER AMPS	TEMPERATURE OF AIR ON CONDENSER 95°F TOTAL. CAP. MBH	95°F SENS. CAP MBH	95°F POWER COMP INPUT - KW	105°F TOTAL. CAP. MBH	105°F SENS. CAP MBH	105°F POWER COMP INPUT - KW	115°F TOTAL. CAP. MBH	115°F SENS. CAP MBH	115°F POWER COMP INPUT - KW	125°F TOTAL. CAP. MBH	125°F SENS. CAP MBH	125°F POWER COMP INPUT - KW	OUTDOOR UNIT RATED AMPS	VOLTAGE INDOOR	VOLTAGE OUTDOOR
-04 + VB 012 C1																			
410	80	67	92	0.42	12.28	8.87	1.06	11.60	8.87	1.13	10.92	8.53	1.21	10.24	8.19	1.28			
	76	63			12.97	8.53	1.04	10.92	8.19	1.1	10.24	7.85	1.18	9.55	7.85	1.24			
	72	59			10.24	8.53	1.01	9.89	8.19	1.08	9.21	7.85	1.15	8.87	7.85	1.21		220-240	220-240
330	80	67	71.1	0.33	11.60	8.19	1.05	11.26	8.19	1.12	10.58	7.85	1.2	9.89	7.51	1.26		1	1
	76	63			10.92	7.85	1.02	10.24	7.51	1.09	9.55	7.17	1.17	9.21	7.17	1.23	6.7		
	72	59			9.89	7.85	1	9.55	7.51	1.07	8.87	7.17	1.14	8.53	7.17	1.19		50	50
290	80	67	59.4	0.28	11.26	7.85	1.04	10.92	7.51	1.11	10.24	7.51	1.19	9.55	7.17	1.25			
	76	63			10.58	7.51	1.02	10.24	7.17	1.08	9.55	6.82	1.16	8.87	6.82	1.22			
	72	59			9.55	7.17	1	9.21	7.17	1.06	8.87	6.82	1.13	8.19	6.82	1.18			
-06 + VB 018 C1																			
718	80	67	115.5	0.53	19.11	13.31	1.65	18.08	12.97	1.74	16.72	12.62	1.84	15.70	11.94	1.94			
	76	63			17.74	12.62	1.6	16.72	11.94	1.68	15.35	11.60	1.78	14.33	11.26	1.86			
	72	59			16.38	12.62	1.55	15.35	11.94	1.63	14.33	11.60	1.71	13.31	11.26	1.79		220-240	220-240
600	80	67	88.7	0.41	18.42	12.97	1.63	17.40	12.62	1.72	16.38	11.94	1.82	15.01	11.60	1.91		1	1
	76	63			17.06	11.94	1.58	16.04	11.60	1.66	15.01	11.26	1.75	13.99	10.92	1.83	9.5		
	72	59			15.70	11.94	1.53	15.01	11.60	1.61	13.99	11.26	1.68	12.97	10.92	1.76		50	50
551	80	67	70.7	0.33	18.08	12.62	1.62	17.06	12.28	1.7	16.04	11.60	1.8	15.01	11.26	1.9			
	76	63			16.72	11.60	1.56	15.70	11.26	1.65	14.67	10.92	1.74	13.65	10.58	1.82			
	72	59			15.35	11.60	1.52	14.67	11.26	1.6	13.65	10.92	1.67	12.62	10.58	1.75			
-08 + VB 024 C1																			
790	80	67	162.9	0.74	24.23	18.08	2.05	23.54	18.08	2.17	22.86	17.74	2.33	22.18	17.40	2.46			
	76	63			22.52	18.77	1.98	21.84	16.72	2.09	20.81	16.38	2.23	20.47	16.04	2.34			
	72	59			20.81	17.06	1.91	20.13	16.72	2	19.45	16.38	2.12	18.77	16.04	2.23		220-240	220-240
590	80	67	105.4	0.49	22.52	15.70	1.99	22.18	15.35	2.11	21.50	15.35	2.25	20.81	15.01	2.38		1	1
	76	63			20.81	14.67	1.92	20.47	14.67	2.02	19.79	14.33	2.15	19.11	13.99	2.26	12		
	72	59			19.45	14.67	1.85	18.77	14.33	1.94	18.08	13.99	2.05	17.40	13.99	2.15		50	50
390	80	67	61.6	0.29	20.47	12.97	1.9	19.79	12.62	2	19.45	12.62	2.12	18.77	12.28	2.13			
	76	63			18.77	12.28	1.83	18.42	11.94	1.92	17.74	11.60	2.03	17.40	11.60	2.13			
	72	59			17.40	12.28	1.76	16.72	11.94	1.85	16.38	11.60	1.94	15.70	11.26	2.02			

RATED AIR FLOW CFM	AIR ON COOLING COIL DB °F	AIR ON COOLING COIL WB °F	INDOOR UNIT POWER INPUT W	INDOOR UNIT RATER AMPS	TEMPERATURE OF AIR ON CONDENSER 95°F TOTAL. CAP. MBH	95°F SENS. CAP MBH	95°F POWER COMP INPUT - KW	105°F TOTAL. CAP. MBH	105°F SENS. CAP MBH	105°F POWER COMP INPUT - KW	115°F TOTAL. CAP. MBH	115°F SENS. CAP MBH	115°F POWER COMP INPUT - KW	125°F TOTAL. CAP. MBH	125°F SENS. CAP MBH	125°F POWER COMP INPUT - KW	OUTDOOR UNIT RATED AMPS	VOLTAGE INDOOR	VOLTAGE OUTDOOR
10 + VB 030 C1																			
1100	80	67	562	2.8	30.71	24.23	2.96	28.32	23.20	3.15	26.27	22.52	3.39	24.91	22.18	3.6			
	76	63			29.34	23.20	2.82	26.27	21.84	3	16.72	20.47	3.23	21.50	19.79	3.42			
	72	59			27.64	22.86	2.69	24.91	21.84	2.85	21.50	20.47	3.07	20.13	19.79	3.35		220/240	220/240
910	80	67	520	2.56	30.03	22.18	2.9	27.64	21.15	3.09	24.91	20.13	3.33	23.54	19.79	3.51		1	1
	76	63			28.66	21.15	2.76	25.93	19.79	2.94	22.86	18.77	3.17	20.47	17.74	3.37	1.58		
	72	59			26.61	21.15	2.64	24.23	19.79	2.8	20.81	18.42	3.01	18.42	17.40	3.21		50	50
780	80	67	472	2.4	29.68	20.81	2.84	26.95	19.79	3.03	24.23	18.77	3.28	22.52	18.08	3.49			
	76	63			27.64	19.79	2.71	25.25	18.77	2.89	22.18	17.40	3.12	19.79	16.38	3.32			
	72	59			25.93	19.79	2.59	23.54	18.42	2.75	20.47	17.40	2.96	18.08	16.04	3.16			
12 + VB 036 C1																			
1100	80	67	562	2.8	32.41	24.91	2.99	30.71	24.23	3.18	28.32	23.20	3.42	26.61	22.52	3.64			
	76	63			30.03	23.20	2.87	28.32	22.52	3.04	26.27	21.50	3.26	24.57	20.81	3.46			
	72	59			27.64	23.20	2.75	26.27	22.52	2.91	24.23	21.50	3.11	22.52	20.81	3.29		220/240	220/240
930	80	67	520	2.56	31.39	22.86	2.94	29.68	22.18	3.12	27.64	21.50	3.36	25.59	20.81	3.57		1	1
	76	63			29.00	21.50	2.81	27.64	20.81	2.98	25.59	19.79	3.2	23.88	19.11	3.4	15.5		
	72	59			26.95	21.50	2.7	25.25	20.81	2.85	23.54	19.79	3.05	21.84	19.11	3.23		50	50
810	80	67	472	2.47	29.34	20.13	2.84	27.98	19.45	3.02	26.27	18.77	3.25	24.57	18.08	3.46			
	76	63			27.30	18.77	2.73	25.93	18.08	2.89	24.23	17.40	3.1	22.52	16.72	3.29			
	72	59			25.25	18.77	2.62	24.23	18.08	2.76	22.52	17.40	2.95	20.81	16.72	3.13			
16 + VB 048 C4																			
1590	80	67	1116	5.36	45.04	34.80	4.32	42.65	33.78	4.55	39.92	32.76	4.85	37.87	32.07	5.11			
	76	63			41.97	32.41	4.16	39.58	31.73	4.37	36.85	30.37	4.65	34.80	29.68	4.89			
	72	59			37.87	32.07	4.01	36.51	31.39	4.18	34.46	30.37	4.42	32.07	29.68	4.65		220/240	380/420
1380	80	67	973	4.67	44.01	32.41	4.26	41.63	31.73	4.49	151.49	30.71	4.78	36.85	29.68	5.04		1	1
	76	63			40.60	30.37	4.09	38.90	29.68	4.3	36.17	28.32	4.57	33.78	27.64	4.81	8.8		
	72	59			36.17	29.68	3.97	35.14	29.34	4.13	33.44	28.32	4.36	31.39	27.64	4.58		50	50
1290	80	67	860	4.14	43.33	31.39	4.23	41.29	30.71	4.45	38.56	29.68	4.74	36.17	28.66	5			
	76	63			39.58	29.34	4.07	38.21	28.66	4.27	35.48	27.64	4.54	33.44	26.61	4.78			
	72	59			35.14	28.32	3.94	34.46	28.32	4.1	33.10	27.64	4.32	31.05	26.61	4.54			

PERFORMANCE DATA

RATED AIR FLOW CFM	AIR ON COOLING COIL DB °F	AIR ON COOLING COIL WB °F	INDOOR UNIT POWER INPUT W	INDOOR UNIT RATER AMPS	TEMPERATURE OF AIR ON CONDENSER 95°F TOTAL. CAP. MBH	95°F SENS. CAP MBH	95°F POWER COMP INPUT - KW	105°F TOTAL. CAP. MBH	105°F SENS. CAP MBH	105°F POWER COMP INPUT - KW	115°F TOTAL. CAP. MBH	115°F SENS. CAP MBH	115°F POWER COMP INPUT - KW	125°F TOTAL. CAP. MBH	125°F SENS. CAP MBH	125°F POWER COMP INPUT - KW	OUTDOOR UNIT RATED AMPS	VOLTAGE INDOOR	VOLTAGE OUTDOOR
20 + VB 060 C4																			
1670	80	67	1089	5.12	54.93	42.31	5.2	52.54	41.63	5.73	49.82	40.60	6.36	47.43	39.58	6.88	10.1	220/240	380/420
	76	63			51.18	39.92	5.1	49.13	38.90	5.63	60.05	37.87	6.26	44.36	36.85	6.77			
	72	59			47.77	39.58	4.97	45.72	38.90	5.52	43.33	37.87	6.16	41.29	36.85	6.69			
1420	80	67	5923	4.34	53.23	39.24	5.16	51.18	38.56	5.69	48.45	37.19	6.32	46.40	36.51	6.84		1	3
	76	63			49.82	36.85	5.03	47.77	36.17	5.57	45.38	35.14	6.21	42.99	34.12	6.74			
	72	59			44.70	36.85	4.94	44.36	36.17	5.49	41.97	34.80	6.14	40.26	34.12	6.66		50	50
1320	80	67	838	4	52.20	37.87	5.13	50.16	36.85	5.65	47.77	35.83	6.29	45.72	36.17	6.81			
	76	63			48.79	35.48	5.02	47.09	34.80	5.56	44.36	33.78	6.2	42.31	32.76	6.72			
	72	59			45.72	35.48	4.91	44.01	34.80	5.45	41.63	33.78	6.11	39.58	32.76	6.65			

REFRIGERANT CYCLE DIAGRAMS



SYSTEM AIR FLOW DATA STANDARD MODELS (50 & 60 Hz)

UNIT MODEL	SPEED MOTOR	MOTOR H.P.QTY	CFM. EXTERNAL. STATIC PRESSURE												
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60
DB - 04	HI		490	460	430	410	390	320	300	250	200				
	MED		410	390	350	330	300	270	220	180					
	LOW		360	340	310	290	250	190							
DB - 06	HI		890	820	790	720	690	600	530	430	340				
	MED		750	690	650	600	540	480	400	290					
	LOW		650	590	550	550	420	360	250						
DB - 08	HI		900	870	810	790	710	660	610	520	430				
	MED		700	650	610	590	520	480	410	310					
	LOW		500	450	410	390	310	250							
DB - 10	HI		1190	1150	1120	1100	1060	1030	1010	980	960	930	900		
	MED		990	980	950	910	890	870	840	810	780				
	LOW		840	800	790	780	720	700	680	630	600				
DB - 12	HI		1200	1190	1150	1100	1060	1000	970	880	820	780	710		
	MED		1010	990	970	930	900	860	810	760	700				
	LOW		900	880	770	810	680	620	580	540					
DB - 16	HI		1810	17.2	1670	1590	1490	1380	130	1190	1090	980	890		
	MED		1580	1490	1430	1380	1300	1200	1110	1010	920	820			
	LOW		1440	1380	1320	1290	1200	1110	1070	970	880				
DB - 20	HI		1910	1820	1750	1670	1580	1440	1350	1220	1160	1040	920		
	MED		1650	1580	1510	1420	1380	1270	1190	1090	900	870			
	LOW		1510	1440	1400	1320	1280	1180	1100	1000	900				

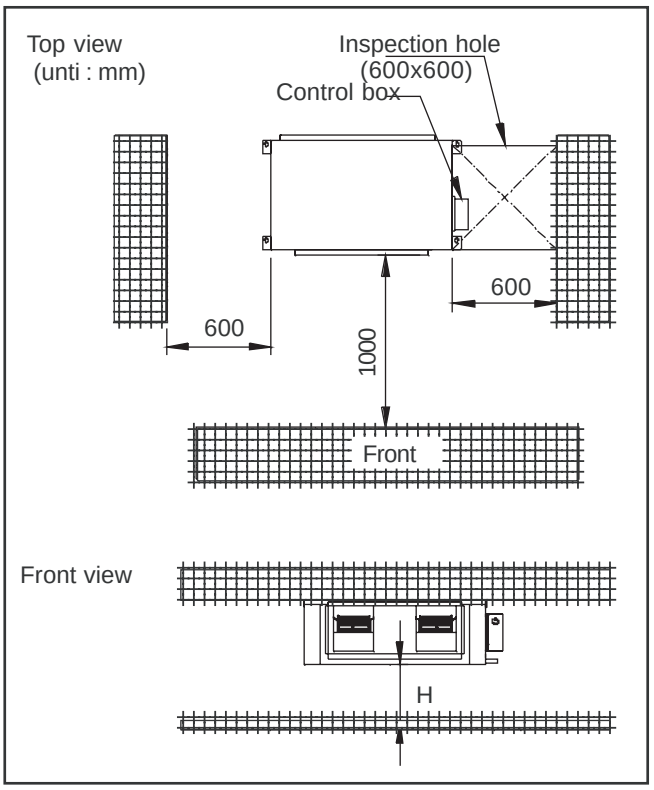
INSTALLATION OF INDOOR, OUTDOOR UNIT

1. Selection of the best location

1) Indoor unit

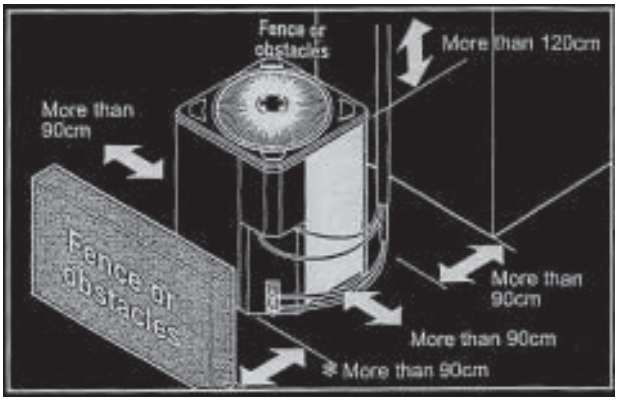
Select location
Install the air conditioner in the location that satisfies the following conditions.

- The place shall easily bear a load exceeding four times the indoor unit's weight.
- The place shall be able to inspect the unit as the figure.
- The place where the unit shall be leveled.
- The place shall allow easy water drainage. (Suitable dimension "H" is necessary to get a slope to drain as figure.)
- The place shall easily connect with the outdoor unit.
- The place where the unit is not affected by an electrical noise.
- The place where air circulation in the room will be good.
- There should not be any heat source or steam near the unit.



2) Outdoor unit

- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation form the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the space indicated by arrows from the wall, ceiling , fence or other obstacles.



Following descriptions are for the Top Discharge Type outdoor unit.
- 120Cm clearance required on top of unit.
- 60Cm clearance required between units for proper airflow.

* One side must be 90Cm for service.
Two of the remaining three sides may be 30Cm.

FUNCTION OF REMOTE CONTROLLER AND DISPLAY

Perform the electrical wiring work according to the electrical wiring connection.
- All wiring must comply with local requirements.
- Select a power source that is capable of supplying the current required by the air conditioner.
- Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.
- Capacity of circuit breaker

WIRING CONNECTION

INDOOR UNIT

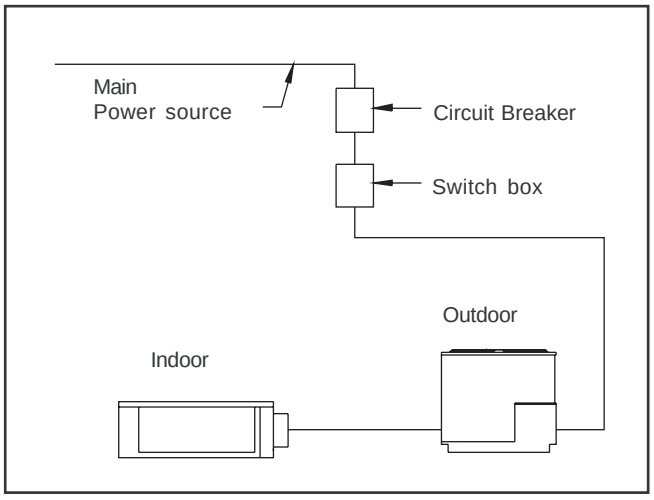
- Remove the control box cover for electrical connection between the indoor and outdoor unit. (Remove four screws.)
- Use the cord clamper to fix the cord.

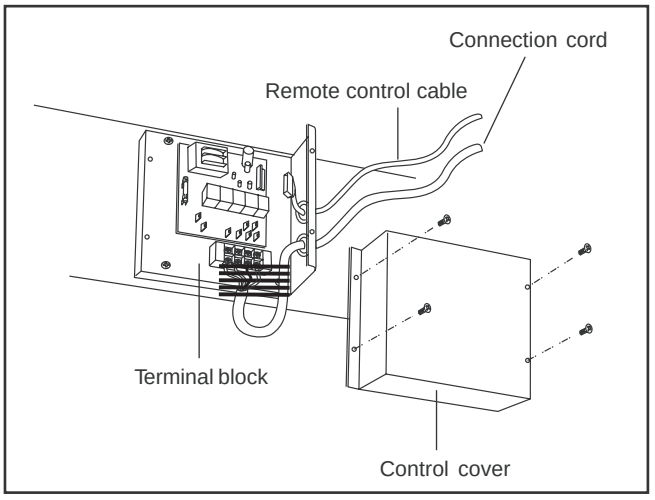
OUTDOOR UNIT

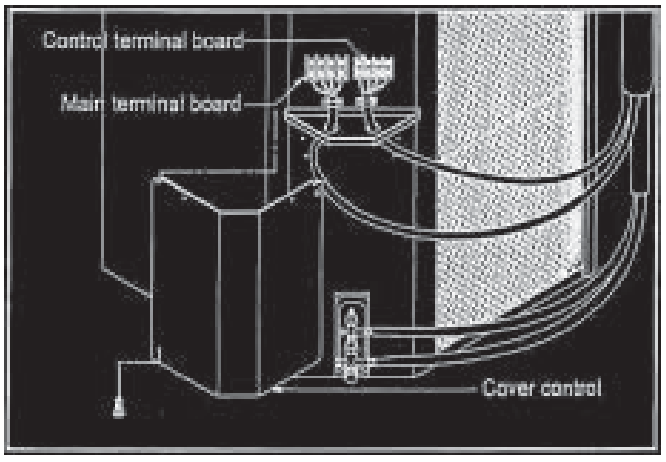
- Remove the control cover for wiring connection.
- Use the cord clamper to fix the cord.
- Earthing work

  Connect the cable of diameter 1.6 mm2 or more to the earthing terminal provided in the control box and do earthing.

* Please check !!







Wind Industries, Inc.
Smart Air conditioners for smart people

ELECTRICAL WIRING

ELECTRICAL WIRING

WIRE

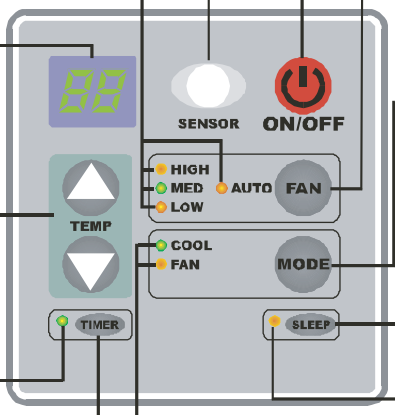
FAN DISPLAY
Low-Med-High-Auto

LED DISPLAY
Set Temperature And Timer On/ Off

TIMER BUTTONS
Press Up or Down to increass or decrease the set temperature 1oC a step. (15-30oC) Setting of temperature will be disabled in fan moda.

TIMER DISPLAY

TIMER BUTTON
Press button to turn on or off the air-conditioning unit after a number of set hour has elapsed.
Each press will increase the time 1 hour. (24 hours)



ON/OFF BUTTON
Pressing button will turn the air-conditioning unit on or off.

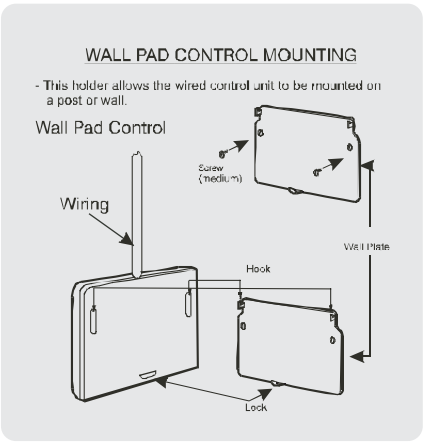
FAN BUTTON
Each button pressing will change the fan speed as follows :
Low,Medium,High,Auto
there is no auto fan speed in fan mode.

MODE BUTTON
Each button pressing will change the operation mode as follows : Cool, Fan

SLEEP BUTTON
Press botton to turn on or off sleep mode.
Sleep mode will automati-cally adjust the temperature and save energy when you are sleeping.

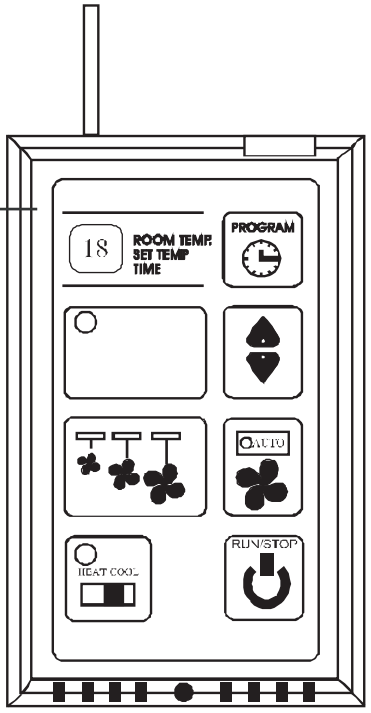
SLEEP DISPLAY

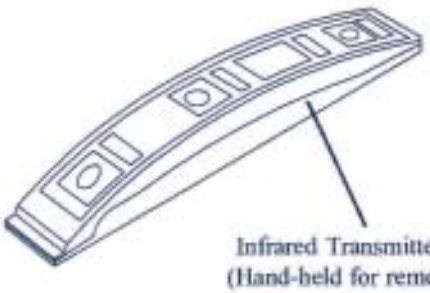
MODE DISPLAY
COOL, FAN



FUNCTION OF REMOTE CONTROLLER AND DISPLAY (OPTION)

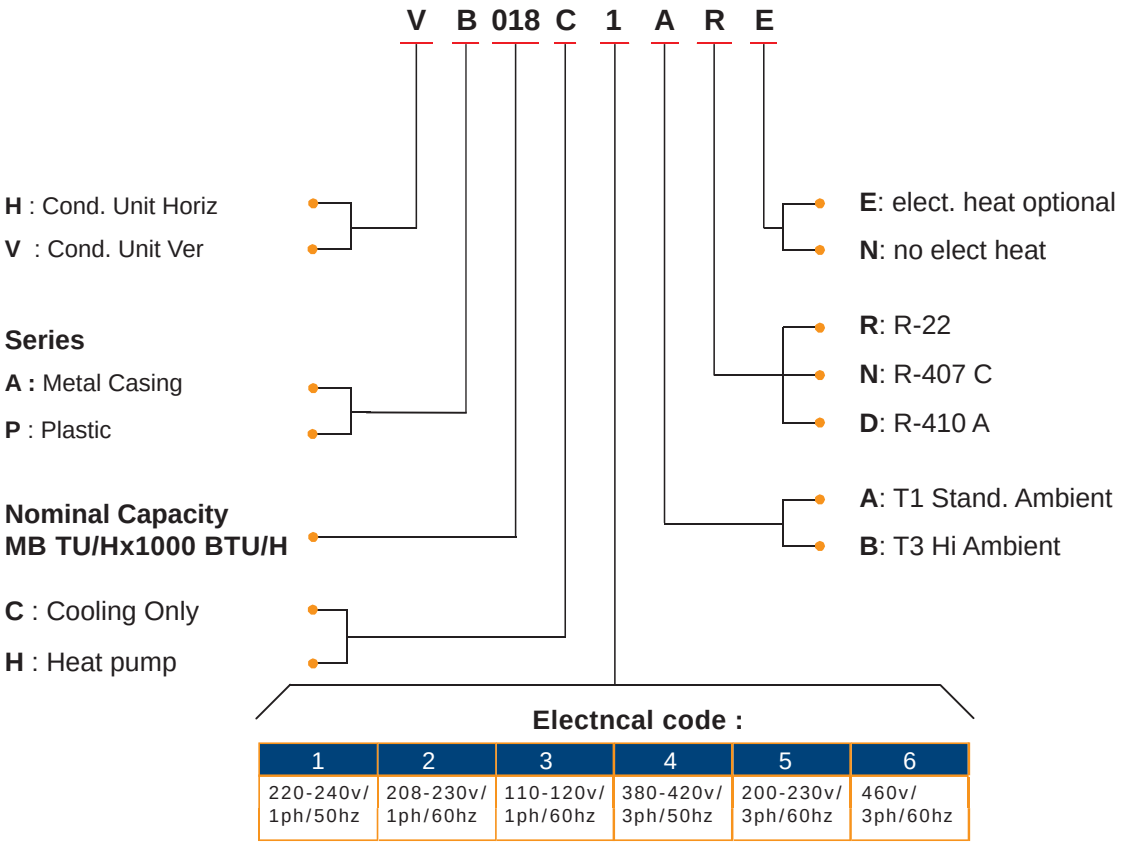
Digital Wall Thermostat
(Installed on the wall)





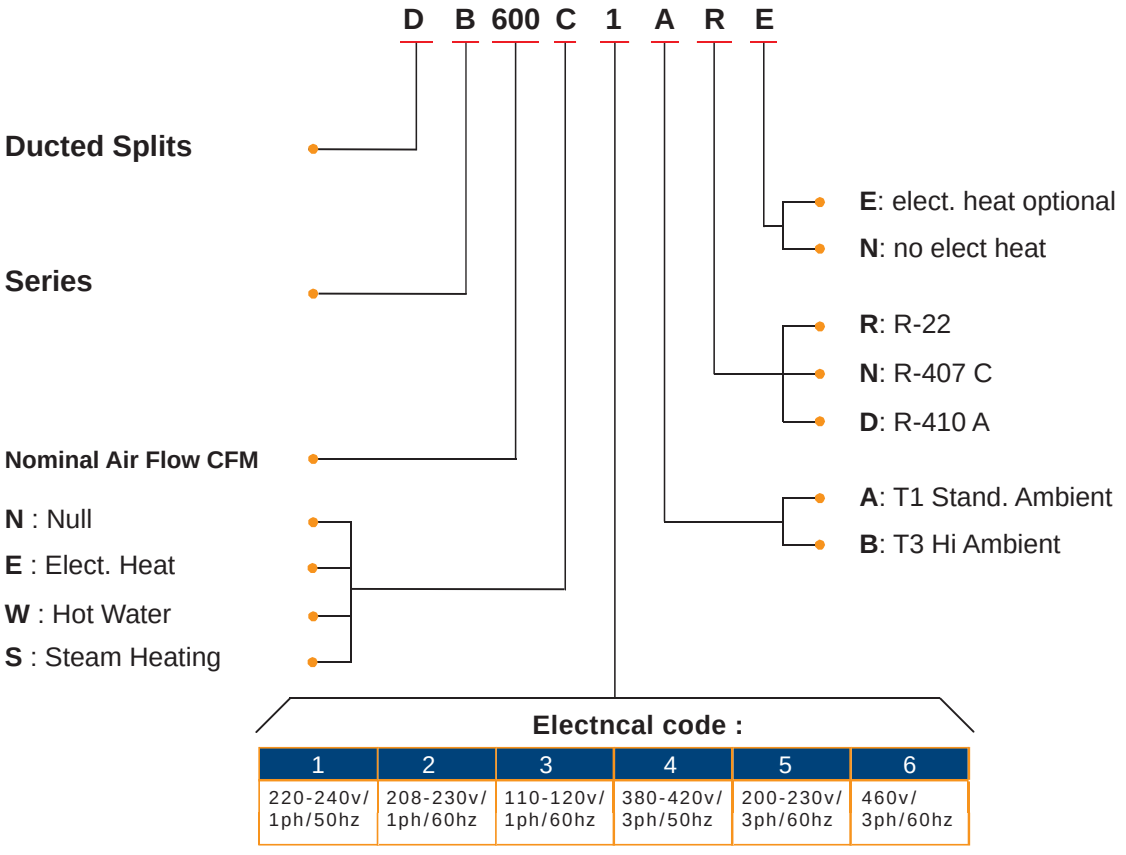
Infrared Transmitter - Optional
(Hand-held for remote operation)

Outdoor Unit Nomenclature



1	2	3	4	5	6
220-240v/ 1ph/50hz	208-230v/ 1ph/60hz	110-120v/ 1ph/60hz	380-420v/ 3ph/50hz	200-230v/ 3ph/60hz	460v/ 3ph/60hz

Indoor Unit Nomenclature



1	2	3	4	5	6
220-240v/ 1ph/50hz	208-230v/ 1ph/60hz	110-120v/ 1ph/60hz	380-420v/ 3ph/50hz	200-230v/ 3ph/60hz	460v/ 3ph/60hz

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