YORK®

INSTALL CONFIDENCE.

YORK® GRANDE CONCEALED DUCTED SPLIT SYSTEM - TOP DISCHARGE

Efficient solutions for comfortable environments

Johnson Controls

YORK® Grande Ceiling Concealed Ducted units are one of the most widely used air conditioners. The units are concealed, with no floor space requirements and do not interfere with room decor' and layout.

YORK® Grande are high efficiency machines operating on environment friendly refrigerant R410A. The units are available in capacity ranges from 36kBtu/h (10.5kW) to 60 Btu/h (17.6kW) and are light, compact, easy to manoeuvre and offer some unique features like linear ESP control, long refrigerant piping, two thermistor control etc.

YORK® Grande units are suitable for a large variety of applications that require floor level or individual level air conditioning for buildings with several rooms or large halls such as restaurants, concert halls and hotels. The units offer ease of installation and facilitate interior renovation with the installation of ventilation diffusers.

Content

Model Details

Nominal Capacity		Model		Power Supply
kW	Btu/h	Refrigerant	Model Name	Ø, V, Hz
10.5	36k	R410A	YNEFZC036BAN-BAX	1Ø, 220 V-240 V, 50 Hz
12.0	42k		YNEFZC042BAN-BAX	3Ø, 380 V, 50 Hz
14.0	48k		YNEFZC048BAN-BAX	
16.0	55k		YNEFZC055BAN-BAX	

Nomenclature

	York	Product Specific	Type of Product	Outdoor Category	Component	Mode	Digit Capacity	Digit Capacity	Digit Capacity	Units	Type of Refrigerant	Power Input	Segment (Product specific)	Type of Compressor	Options	Revision
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Y	M	E	F	Z	C	0	1	8	B	A	M	-	A	A	X

1: York

2: M=Side Discharge Condensing Unit
N=Top Discharge Condensing Unit

3: E=Medium Static Pressure (MSP) Duct

4: F=Single Split / On/Off

5: X=ID
Y=OD
Z=Set

6: C=Cooling Only
B=Heating Only
H=Heat Pump
T= Three Pipe VRF
E= Cooling +Electric heat

7,8,9: Capacity three digits

10: K=KW
B=KBTU / (Tonx10)
T=TR
W=KW x 10
C=m3/h x10

11: A=R410a
B=R22
C=R407c

12: E=50/1/220
F=50/1/110
K=50/1/240
M=50/1/230
N=50/3/380
P=50/3/415
R=50-60/1/230
S=50-60/3/380

13: -=None

14: -=None
A=Rotary
B=Scroll
C=Digital Scroll
D=DC Inverter
E=Reciprocating

15: -=None
A=High Ambient
B=Low Ambient Kit
C=Bio Filter
D=TiO2
E=Plastic Casing on OD
F=Wireless Control
G=Wired Control
H=Gold Fin on OD
J=Blue Fin on OD
V=Vertical Design of WSHP
P=Pump built-in
N=Anticorrosion
W= Heat pump without Eelctric Heat

16: Version No.

Description

The Johnson Controls York Grande Ducted Split Air Conditioners consist of ceiling suspended, indoor concealed ducted fan coil units, outdoor condensing units, and wired remote controller.

These units are available in top discharge for YNEFZC 36 to 55 as cooling only. All units are manufactured under strict quality control with full conformance to ISO 9001:2000 and ISO 14001 standards. Both indoor & outdoor units are manufactured in the same factory and are checked under a strict quality control system to ensure compatibility of indoor with outdoor unit, reliability of operation and performance stated in this document. The units are easily connected together with the refrigerant pipes. They are designed to operate at the outdoor temperature as high as 52 °C DB. Cooling capacities shall be rated in accordance with latest edition of ISO 13253:2011 and AHRI Standard 210.

With low indoor unit height, phase control motor (variable ESP), low noise levels, and other unique features, these ducted split units are suitable for a variety of applications such as high rise apartment buildings, condominiums, offices, schools, shops, mosques, indoor play areas and other similar applications.

All units are designed with the convenience of the customer and the end user in mind and are factory assembled, tested, supplied internally wired and with R-410a refrigerant charge.

FEATURES - CONDENSING UNITS

Condensing units are designed for operation with R410A and available in top discharge for YNEFZC 36 to 55.

All compressors are hermetically sealed and mounted on vibration isolators. Sizes 36 to 55 are supplied with scroll compressors.

Compressors are located in a separate section from condenser fans & coil.

Unit casing is constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces are thoroughly cleaned, phosphatized, and finished with weather resistant, baked enamel. Load bearing panels are adequately strengthened for maximum reliability with removable panels for access to controls, weep holes for water drainage, and mounting holes in base. Brass service valves, fittings, and gage ports on exterior of casing. Casing panel finish & coating shall pass 500 hours salt spray testing as per ASTM B117-85.

Condenser coils made of copper tubes mechanically bonded to aluminum fins. Each coil shall be leak tested at 430 psi (3.0 Mpa). Each circuit shall have correctly sized capillary tube based expansion device. Condenser coil shall be protected with reinforced plastic galvanized mesh guard.

Condenser fans are of axial type with statically and dynamically balanced blades ensuring quiet operation. Fans are of Aluminum – propeller type, directly connected to motor. Complete fan assembly is supplied with a suitable fan guard.

The fan motors are of permanently lubricated ball bearing type with internal thermal protection as standard. All shafts are protected against rusting. Motor shall have class ‘B’ insulation. Motors are mounted on Isoprene rubber for vibration isolating. Motors are equipped with built in current/thermal overload protection and factory wired using PVC insulated wires which can be used up to 105 °C.

All condensing units have factory installed terminal blocks for easy wiring during installation. All controls are factory wired and located in a separate leak proof against rain enclosure. All outdoor units are supplied with internal overload protection for the compressor and fan motor, current sensitive overload device, start capacitor, 3 minutes time delay relay, and automatic reset timer to prevent rapid cycling of compressor. Sizes 36 to 55 are supplied with low and high pressure switch.

FEATURES - FAN COIL UNITS

Fan coil units are ceiling suspended suitable for indoor concealed ducted installation.

Size 36 is blow through type, sizes 42 to 55 are draw through type. All indoor units are factory assembled including coil, condensate drain pan, fan motor(s), filters and controls in an insulated casing.

Unit casing is constructed of 0.8mm zinc coated, heavy gauge galvanized steel. The exterior surfaces are thoroughly cleaned, and phosphatized. Indoor units are insulated using an Elastomeric material with thickness ranging from 13mm to 25mm (Depending on the panel).

Knockouts are provided for electrical power and refrigerant piping connections. Panels are fastened with screws for ease of service and cleaning.

Evaporator coils are constructed of copper tube mechanically bonded to aluminum fins and factory pressure and leak tested at 430 psig. Coils are rated in accordance with ISO13253:2011 and AHRI 210/240.

The condensate drain pan is constructed of HIPS + Foam PE, complied with AASHRAE 62.1-2004. Drain pans are internally lined with 25mm closed cell foam insulation. Evaporator fans are of double inlet, double width, forward curved, centrifugal type with direct drive motor as standard. They are statically and dynamically balanced for quiet operation. Fan scroll is made of ABS for model 36, and Galvanized steel for models 42 to 55.

Fan motors are of permanently lubricated type with internal thermal protection as standard. The shaft is protected against rusting. All fan motors are resilient mounted to minimize vibration and noise. Units are supplied with a phase control DC motor offering a wide range of static pressure (up to 140 Pa).

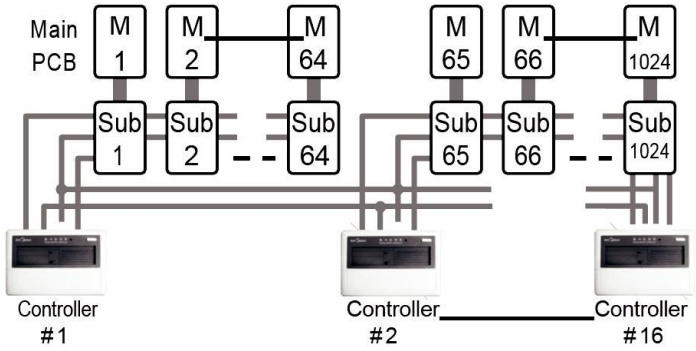
Each unit is supplied with an LCD Wired microprocessor based controller as standard.

All units are provided with washable anti-Fungus, anti-Bacteria nylon filters that are easily accessible from the rear of the unit. Filter frame is made of aluminum of a 20mm thickness.

Features and Benefits

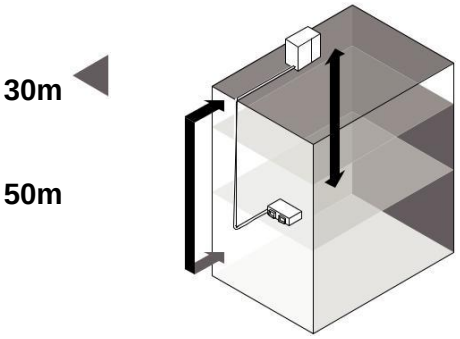
CENTRAL CONTROL (OPTIONAL):

It enables to control 64 x 1024 = 16 units with the help of 16 controllers. All units can be put on and off from one Central Room. For Setting Temperature, Fan speed and other sub functions, access the LCD wired remote controller of each unit.



LONG REFRIGERANT PIPING:

YORK® ducted split air conditioners can cover 30m length and 20m height. It provides flexibility of installation and keep the building in a good outlook.



RELIABLE SCROLL COMPRESSOR:

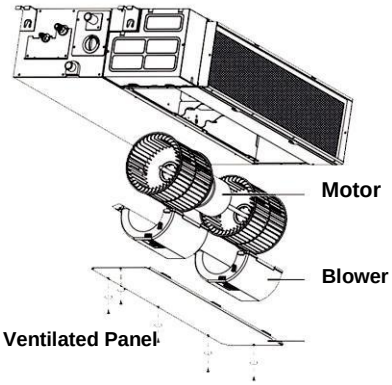
The air conditions are equipped with famous brand scroll compressor, which brings high capacity, high efficiency and high reliability.

SELF - DIAGNOSIS FUNCTION:

This function provides diagnosis of the unit. An error code will be displayed on the LCD wired remote controller and diagnosis can be done as per the code indication. The same is also printed on key cover of the LCD wired remote controller.

EASE OF MAINTENANCE:

Thanks to the optimized structure design, it is very easy to maintain the fan motor and fan wheels.



TIME DELAY SAFETY FUNCTION

It delays restarting of the compressor by three minutes thereby preventing damage to the compressor.

WATER DRAIN PUMP (OPTIONAL):

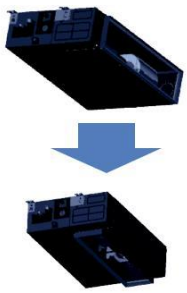
- In some of locations natural drainage is not possible. For such places drain pump is very useful that it removes condensed water smoothly from the unit.

AUTO RESTART OPERATION:

When there is electricity failure to the unit. After resumption of the power, unit will start in the same mode as prior to the power failure. Memorized condition are on/off condition, operating mode (cooling / fan), set temperature and fan speed. The unit will memorize the above conditions and start with same memorized condition.

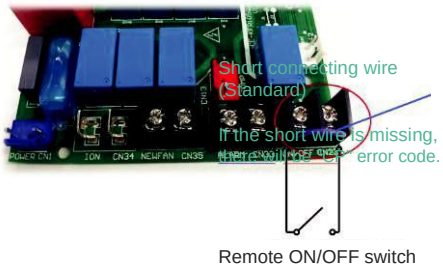
EASY INSTALLATION:

The size of air inlet frame from rear and bottom is same, it's very easy to move the cover from bottom to rear side, or from rear to the bottom, in order to match the installation condition.

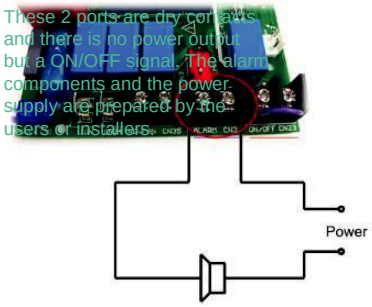


RESERVED REMOTE ON-OFF AND ALARM PORTS:

A remote switch or a central controller can be easily connected with the reserved ON-OFF ports to realize remote control or group control.



The built in PCB can output alarm signal, which achieve setting up an external alarm light or vibration gauge possible.



Functions List

Function	Ceiling Concealed Duct			
	YNEFZC036BAN- BAX	YNEFZC042BAN- BAX	YNEFZC048BAN- BAX	YNEFZC055BAN- BAX
Air Discharge Flange	S	S	S	S
Air Return Flange	Optional	S	S	S
Airflow Direction control (left & right)	-	-	-	-
Airflow Direction control (up & down)	-	-	-	-
Air Return from Back	S	S	S	S
Air Return from Bottom	Accessory	-	-	-
Airflow Steps (Fan / Cool / Heat)	3 / 3 / -	3 / 3 / -	3 / 3 / -	3 / 3 / -
Auto Operation	S	S	S	S
Auto Restart Operation	S	S	S	S
Auto Swing	-	-	-	-
Central Control	Accessory	Accessory	Accessory	Accessory
Child Lock Function	S	S	S	S
Cooling & Fan Operation	S	S	S	S
Cooling, Heating & Fan Operation	-	-	-	-
Defrost / Deicing	-	-	-	-
Deodorizing Filter	-	-	-	-
Drain Pump	Optional	Accessory	Accessory	Accessory
ESP Control	S	S	S	S
Electric Heater	-	-	-	-
Energy Saving Gold Fin	Optional	Optional	Optional	Optional
Environment Friendly Refrigerant	S	S	S	S
Remote Alarm Output	S	S	S	S
Forced Operation	S	S	S	S
Remote ON/OFF Control	S	S	S	S
High Ceiling Operation	-	S	S	S
Hot Start	S	S	S	S
Rapid Cool	-	-	-	-
Low Ambient Control	Accessory	Accessory	Accessory	Accessory
Prefilter (Washable / Anti-fungus)	S	S	S	S
Self Diagnosis	S	S	S	S
ECO Mode	S	S	S	S
Soft Dry Operation	-	-	-	-
Swirl Swing	-	-	-	-
Tele Control	-	-	-	-
Temperature Control	S	S	S	S
Test Function	-	-	-	-
Time Delay Safety Function	S	S	S	S
Timer (weekly)	Accessory	Accessory	Accessory	Accessory
Timer (24 hr On / Off)	S	S	S	S
Follow Me	S	S	S	S
Space Control	-	-	-	-
Wired LCD Remote Control	S	S	S	S
Wireless Remote Control	Accessory	Accessory	Accessory	Accessory
1W Standby Power	-	-	-	-
Zone Control	-	-	-	-

Notes:

- **S: Basic**
- **Optional: Factory-Installed**
- **Accessory: Field-Installed**
- **-: Not available on this system**

Specifications

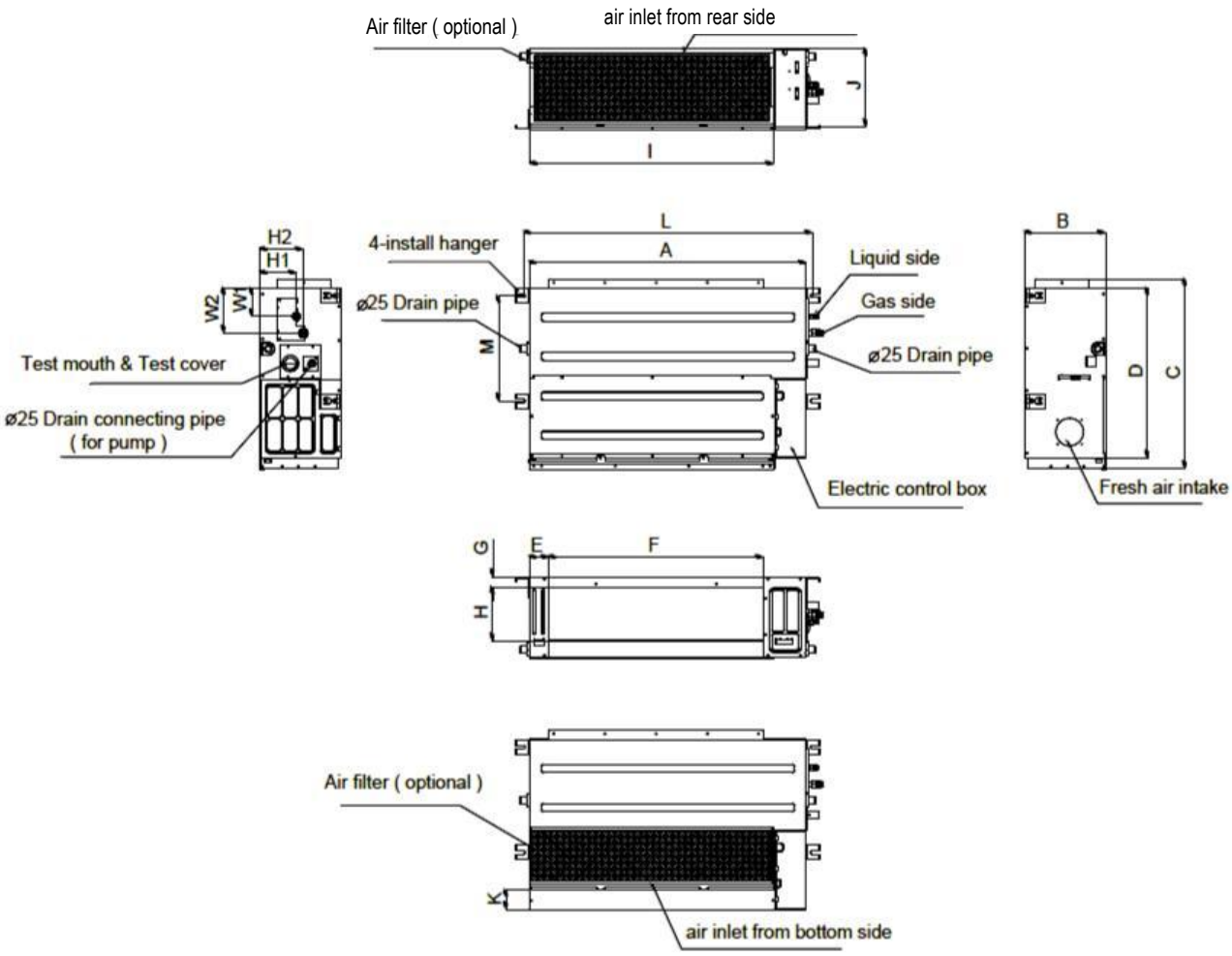
	York Indoor model			YNEFXC036BAN--AX	YNEFXC042BAN--AX	YNEFXC048BAN--AX	YNEFXC055BAN--AX
	Indoor code			22023011001168	22023011001172	22023011001173	22023011001574
	York Outdoor model			YNEFYC036BAN-BAX	YNEFYC042BAN-BAX	YNEFYC048BAN-BAX	YNEFYC055BAN-BAX
	Outdoor code			22023016000505	22023016000506	22023016000507	22023016000751
General	Power supply		V-ph-Hz	220-240-1-50	380-415~3-50	380-415~3-50	380-415~3-50
General	Cooling(T1)	Capacity	Btu/h	36000	42000	48000	60000
General		Input	W	3000	3425	4000	4700
General		EER	W/W	3.52	3.60	3.52	3.43
General		EER	Btu/W	12.0	12.3	12.0	11.7
General	Cooling(T3)	Capacity	Btu/h	32786	34785	43386	50183
General		Input	W	3998	4088	5080	6135
General		EER	W/W	2.40	2.49	2.50	2.40
General		EER	Btu/W	8.20	8.51	8.54	8.18
Indoor Unit	Indoor fan motor	Model		ZKFN-240-8-1	ZKFN-560-8-1	ZKFN-560-8-1	ZKFN-560-8-1
Indoor Unit		Qty		1	1	1	1
Indoor Unit		Input	W	240(Output)	560(Output)	560(Output)	560(Output)
Indoor Unit		Capacitor	uF	/	/	/	/
Indoor Unit		Speed(Hi/Med/Lo)	r/min	1010/850/720	1070/750/650	1070/750/650	1020/800/600
Indoor Unit	Indoor coil	Number of rows		4	4	4	4
Indoor Unit		Tube pitch(a)*row pitch(b)	mm	21x13.37	25.4x22	25.4x22	25.4x22
Indoor Unit		Fin spacing	mm	1.5	1.5	1.5	1.5
Indoor Unit		Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
Indoor Unit		Tube outside dia.and type	mm	Φ7, inner groove tube	Φ9.52, inner groove tube	Φ9.52, inner groove tube	Φ9.52, inner groove tube
Indoor Unit		Coil length * height * width	mm	1030x378x53.48	1055x356x66	1055x356x66	1055x356x66
Indoor Unit		Number of circuits		8	7	7	7
Indoor Unit	Indoor airflow (Hi/Med/Lo)		m3/h	2101/1871/1647	2331/1933/1660	2943/2516/2152	2943/2516/2152
Indoor Unit	ESP	Rated	Pa	37	50	50	50
Indoor Unit		Range	Pa	0~80	0~100	0~100	0~100
Indoor Unit	Indoor noiselevel (Hi/Med/Lo)		dB(A)	44/42/40	44/41.5/39.5	52/50/48	52/50/48
Indoor Unit	Indoor unit	Dimension (WxDxH)	mm	1200x865x300	1200x625x380	1200x625x380	1200x625x380
Indoor Unit		Packing(WxDxH)	mm	1405x920x373	1485×675×450	1485×675×450	1485×675×450
Indoor Unit		Net/Gross weight	kg	44.5/53	51.2/64.2	53/64	53/64
Indoor Unit	Drainage water pipe diameter		mm	ODΦ25	0DΦ25	ODΦ25	0DΦ25
Indoor Unit	Controller			Wired control	Wired control	Wired control	Wired control
Outdoor Unit	Max. input consumption		W	4650	5200	5800	6200
Outdoor Unit	Max. input current		A	23.5	11.0	12.5	18
Outdoor Unit	Compressor	Model		ZP39KSE-PFZ-522	ZP42KSE-TFM-522	ZP51KUE-TFP-54E	ZP61KCE-TFD-52E
Outdoor Unit		Type		Scroll	Scroll	Scroll	Scroll
Outdoor Unit		Brand		Copeland	Copeland	Copeland	Copeland
Outdoor Unit		Capacity	Btu/h	31390.4/39067.4	34290.6/43161.8	42700	50000
Outdoor Unit		Input	W	3140/2080	3310/2190	3954	4750
Outdoor Unit		Rated current(RLA)	A	14.5/9.6	5.6/4	8.6	8.3
Outdoor Unit		Locked rotor Amp(LRA)	A	--	--	--	--
Outdoor Unit		Thermal protector position		Internal	Internal	Internal	Internal
Outdoor Unit		Capacitor	μF	--	--	--	--
Outdoor Unit		Refrigerant oil	ml	1240	1240	iunen	1680
Outdoor Unit	Outdoor fan motor	Model		YKS-230-6-6	YKSJ-140-6-1L	YKSJ-140-6-1L	YKSJ-140-6-1L
Outdoor Unit		Qty		1	1	1	1
Outdoor Unit		Input	W	190	190	190	190
Outdoor Unit		Capacitor	μF	12uF/450V	---	---	---
Outdoor Unit		Speed	r/min	900	900	900	900
Outdoor Unit	Outdoor coil	Number of rows		2	2	2	2
Outdoor Unit		Tube pitch(a)* row pitch(b)	mm	21×13.37	21×13.37	21×13.37	21×13.37
Outdoor Unit		Fin spacing	mm	1.3	1.3	1.3	1.3
Outdoor Unit		Fin type		Unhydrophilic aluminum	Unhydrophilic aluminum	Unhydrophilic aluminum	Unhydrophilic aluminum
Outdoor Unit		Tube outside dia.and type	mm	Φ7, inner grooved tube	Φ7, inner grooved tube	Φ7, inner grooved tube	Φ7, inner grooved tube
Outdoor Unit		Coil length * height * width	mm	2028x798x26.74	2028x798x26.74	2028x798x26.74	2028x798x26.74
Outdoor Unit		Number of circuits		10	10	10	10
Outdoor Unit	Outdoornoise level		dB(A)	61	64	61	61
Outdoor Unit	Throttle type			Capillary	Capillary	Capillary	Capillary
Outdoor Unit	Outdoor unit	Dimension (WxDxH)	mm	710x710x843	710x710x843	710x710x843	740x740x843
Outdoor Unit		Packing (WxDxH)	mm	738x738x872	738x738x872	738x738x872	768x768x872
Outdoor Unit		Net/Gross weight	kg	84.5/89.5	80/84.5	80/84.5	85/90
Outdoor Unit	Refrigerant	Type		R410A	R410A	R410A	R410A
Outdoor Unit		Charged volume	kg	4.4	3.9	3.9	5.15
Outdoor Unit	Designpressure		MPa	4.8/1.5	4.8/1.5	4.8/1.5	4.8/1.5
Outdoor Unit	Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8»/3/4»)	Φ9.52/Φ15.9(3/8»/7/8»)	Φ9.52/Φ22(3/8»/7/8»)	Φ9.52/Φ22(3/8»/7/8»)
Outdoor Unit		Max. pipe length	m	50(Outdoor unit down)	50(Outdoor unit down)	50(Outdoor unit down)	50(Outdoor unit down)
Outdoor Unit				50(Outdoor unit up)	50(Outdoor unit up)	50(Outdoor unit up)	50(Outdoor unit up)
Outdoor Unit		Max. difference in level	m	25(Outdoor unit down)	25(Outdoor unit down)	25(Outdoor unit down)	25(Outdoor unit down)
Outdoor Unit				30(Outdoor unit up)	30(Outdoor unit up)	30(Outdoor unit up)	30(Outdoor unit up)
Outdoor Unit	Ambient temperature	Cooling	c	18-52	18-52	18-52	18-52
Outdoor Unit		Heating	c	/	/	/	/
	Loading Qty'per 20' /40' /40›HQ		Indoor	60/126/147	59/124/125	59/124/125	59/124/125
			Outdoor	42/96/142	42/96/142	42/96/142	42/90/134

Notes:

1. Capacities are based on the following conditions:
   (1) Cooling capacity @ (T1) is based on the following conditions:
   - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB)
   - Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

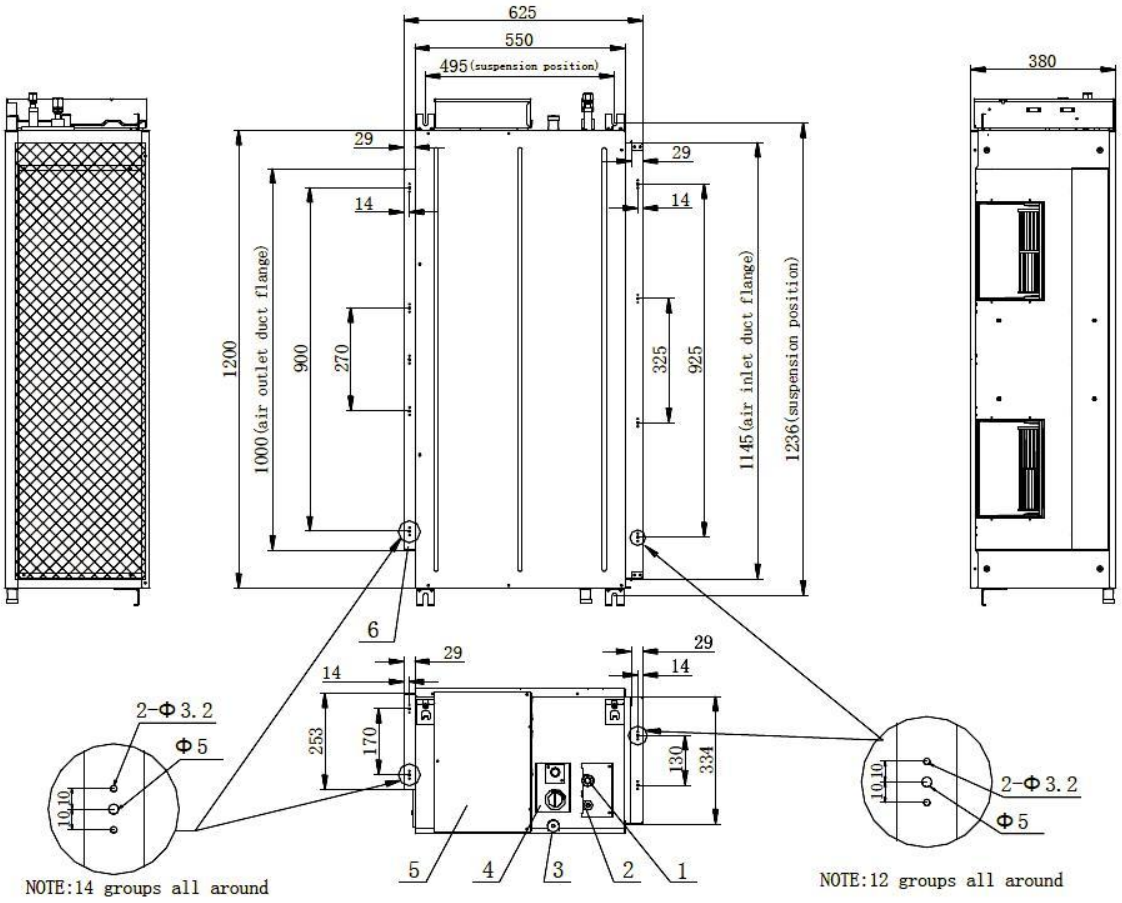
   (2) Cooling capacity @ (T3) is based on the following conditions:
   - Indoor 84.2°F DB / 66.2°F WB (29°C DB / 19°C WB)
   - Outdoor 114.8°F DB / 75.2°F WB (46°C DB / 24°C WB)
2. Capacities are Net Capacities.
3. Due to our policy of innovation some specifications may be changed without notification.

Dimensional Drawings (Indoor Units)



Note: standard product with																	
Model	Outline dimension				Air outlet opening size				Air return opening size			Size of install hanger		Size of refrigerant pipe			
	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
YNEFXC036BAN--AX	1200	300	865	800	80	968	40	204	1094	288	45	1240	500	175	198	155	210

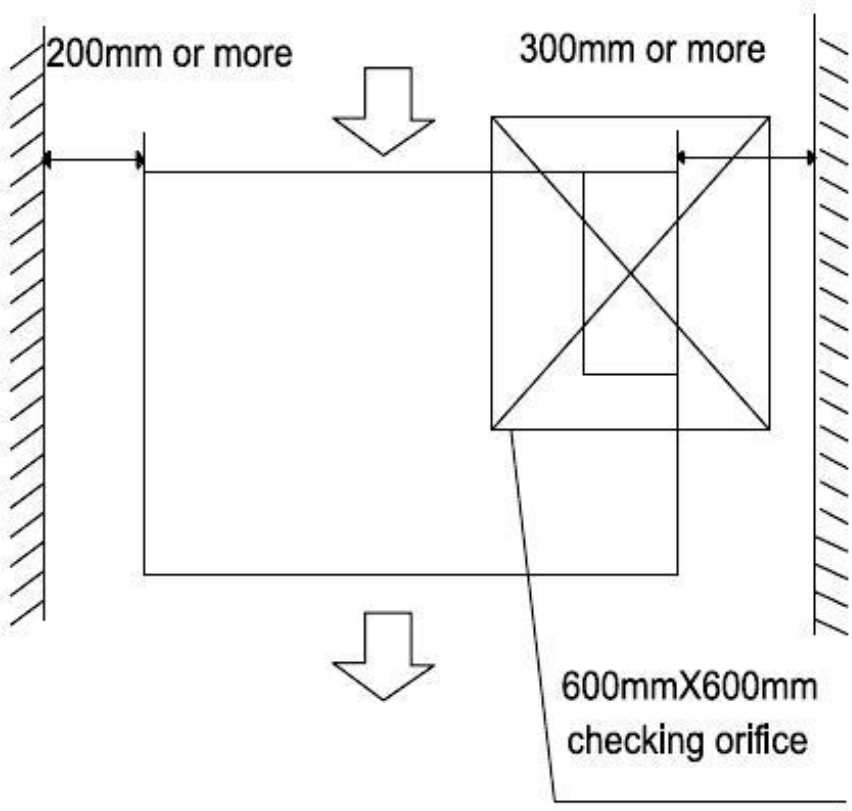
Dimensional Drawings (Indoor Units)



YNEFXC042BAN--AX
YNEFXC048BAN--AX
YNEFXC055BAN--AX

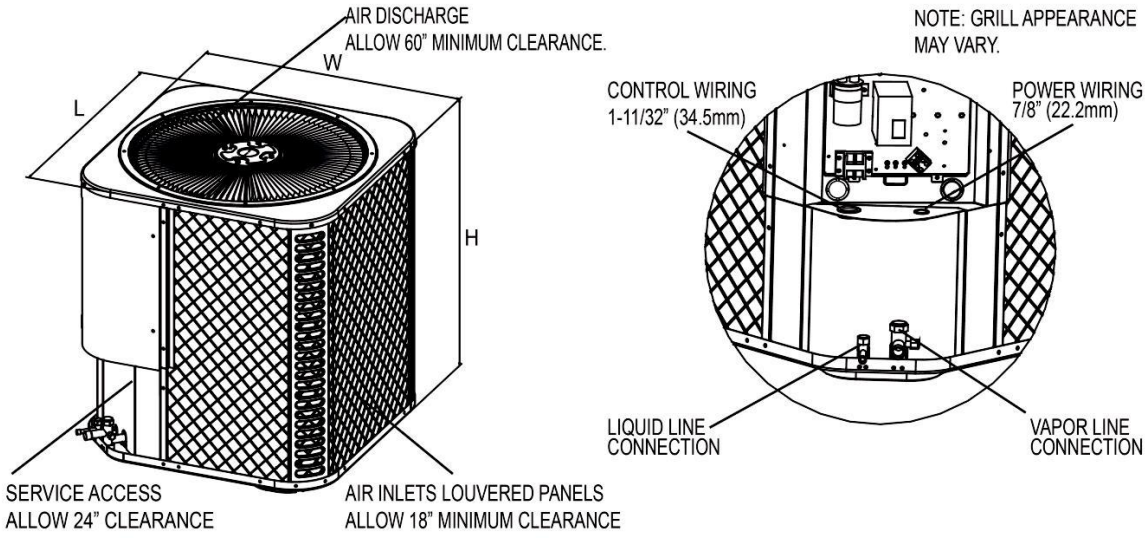
Indoor Installation Clearances

TOP VIEW



Dimensional Drawings (Outooor Units)

MODEL NO.: YNEFYC036BAN-BAX, YNEFYC042BAN-BAX, YNEFYC048BAN-BAX, YNEFYC055BAN-BAX

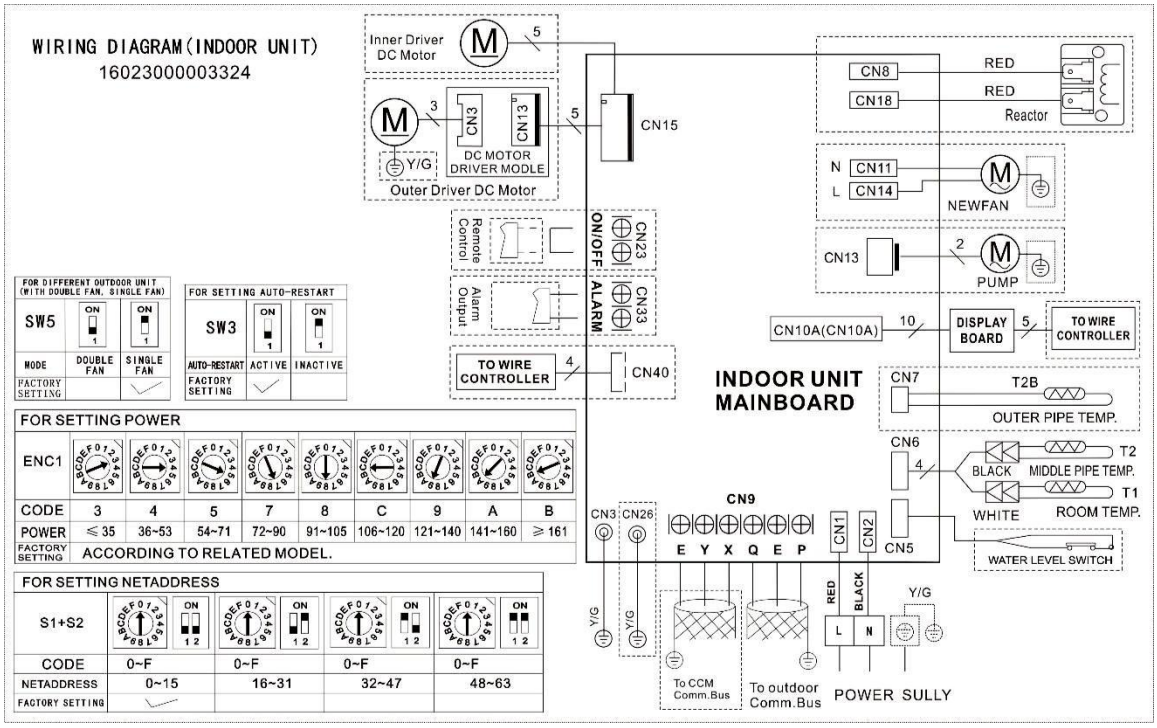


Dimensions (Inches)			Refrigerant Connection Service Valve Size	
"H" in [mm]	"W" in [mm]	"L" in [mm]	Liquid in	Vapor in
33-3/16[843]	28[710]	28[710]	3/8	3/4

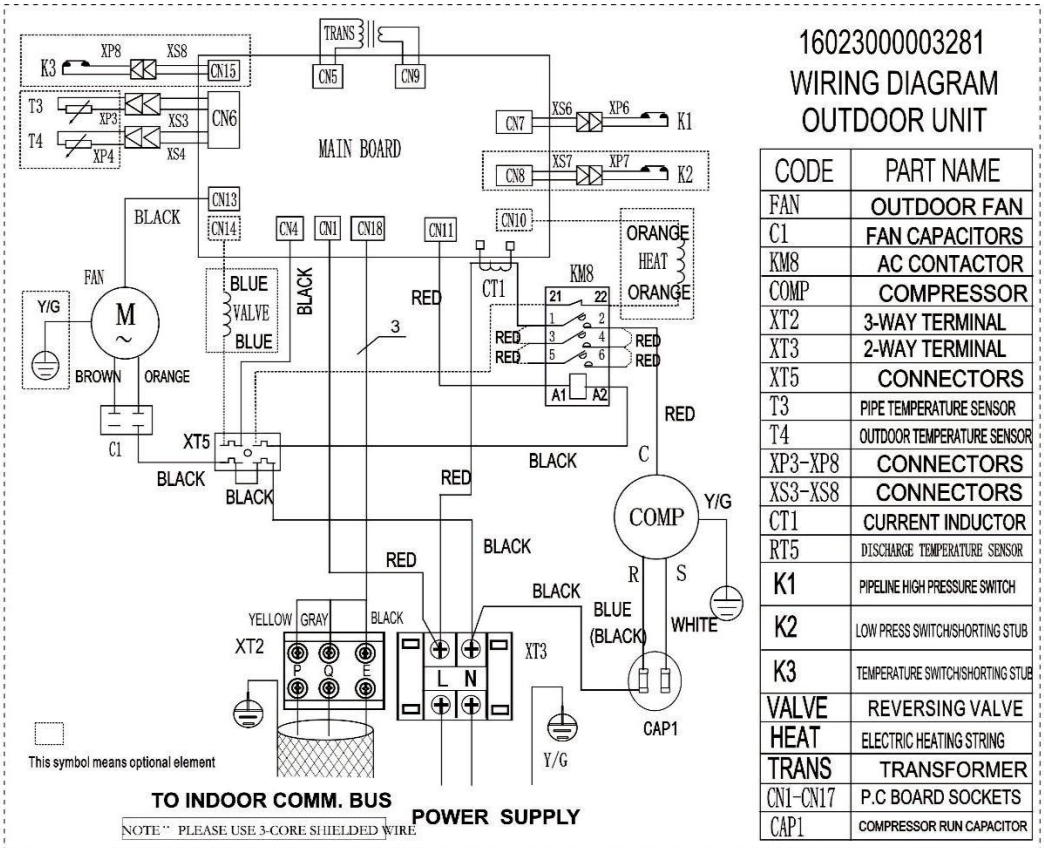
Wiring Diagram

(MODEL NUMBER: YNEFXC036BAN--AX + YNEFYC036BAN-BAX)

INDOOR UNIT



OUTDOOR UNIT

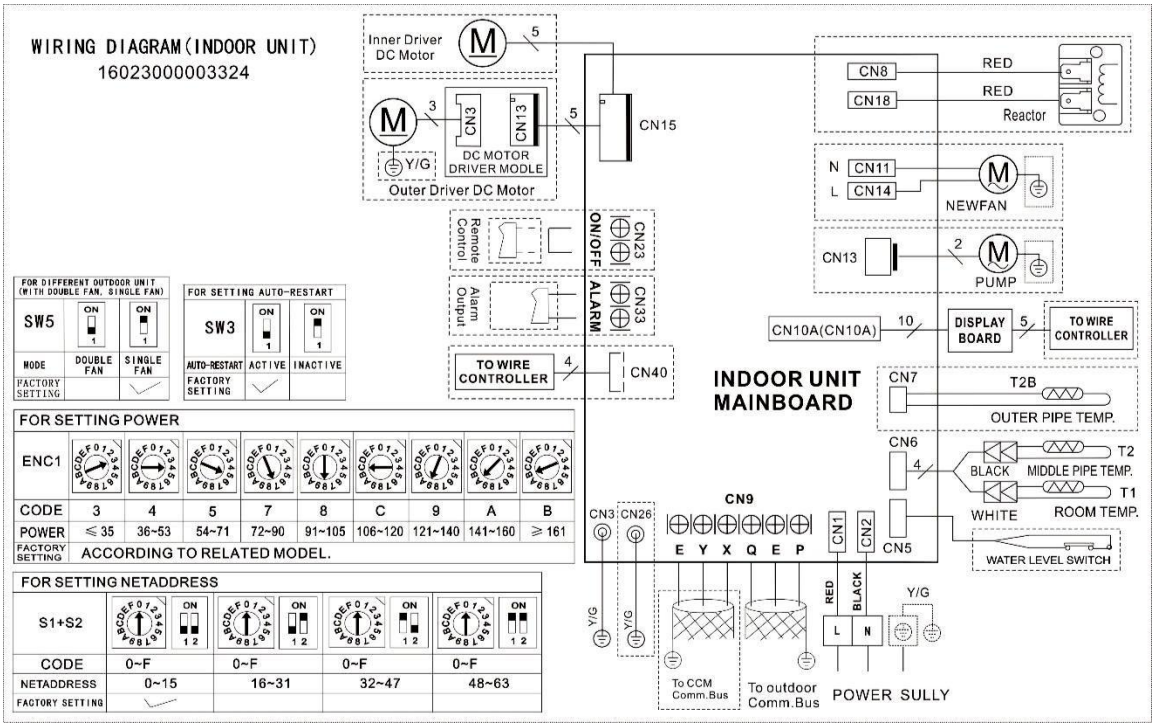


CODE	PART NAME
FAN	OUTDOOR FAN
C1	FAN CAPACITORS
KM8	AC CONTACTOR
COMP	COMPRESSOR
XT2	3-WAY TERMINAL
XT3	2-WAY TERMINAL
XT5	CONNECTORS
T3	PIPE TEMPERATURE SENSOR
T4	OUTDOOR TEMPERATURE SENSOR
XP3-XP8	CONNECTORS
XS3-XS8	CONNECTORS
CT1	CURRENT INDUCTOR
RT5	DISCHARGE TEMPERATURE SENSOR
K1	PIPELINE HIGH PRESSURE SWITCH
K2	LOW PRESS SWITCH/SHORTING STUB
K3	TEMPERATURE SWITCH/SHORTING STUB
VALVE	REVERSING VALVE
HEAT	ELECTRIC HEATING STRING
TRANS	TRANSFORMER
CN1-CN17	P.C BOARD SOCKETS
CAP1	COMPRESSOR RUN CAPACITOR

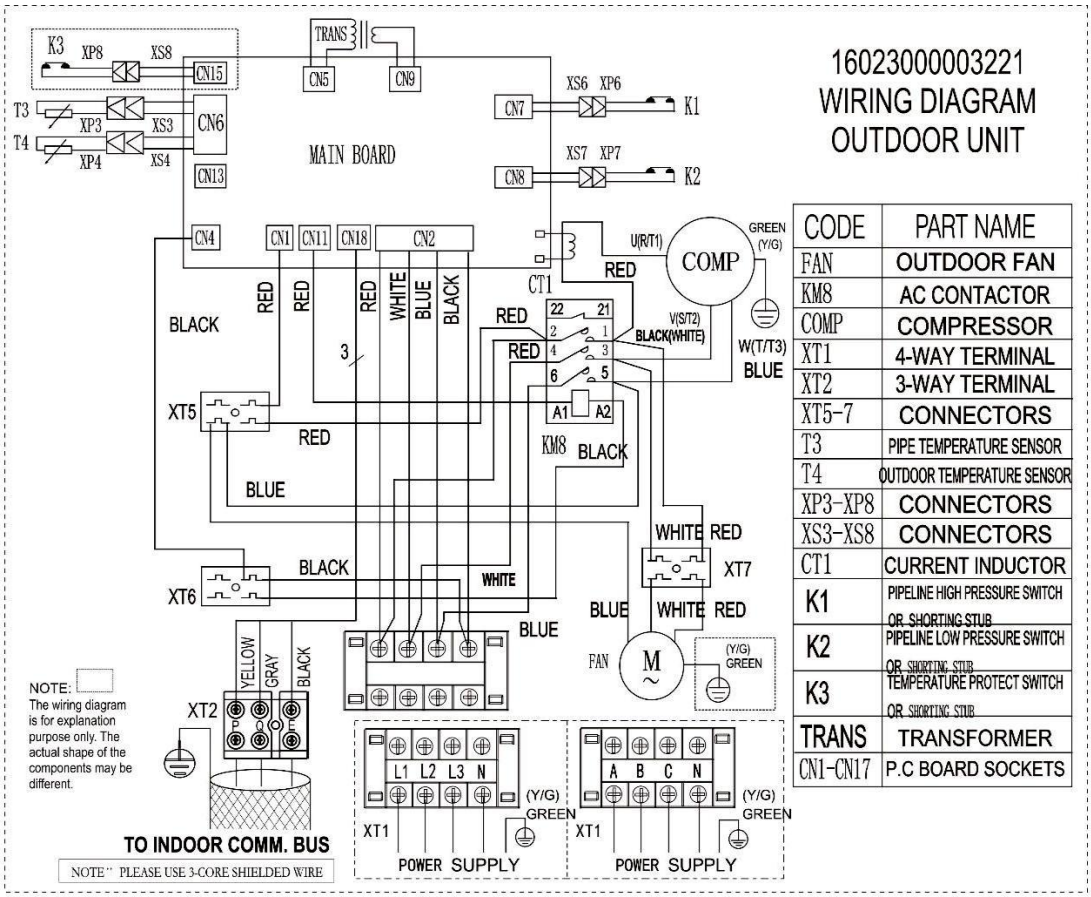
Wiring Diagrams

MODEL NO.: YNEFXC042BAN--AX + YNEFYC042BAN-BAX

INDOOR UNIT



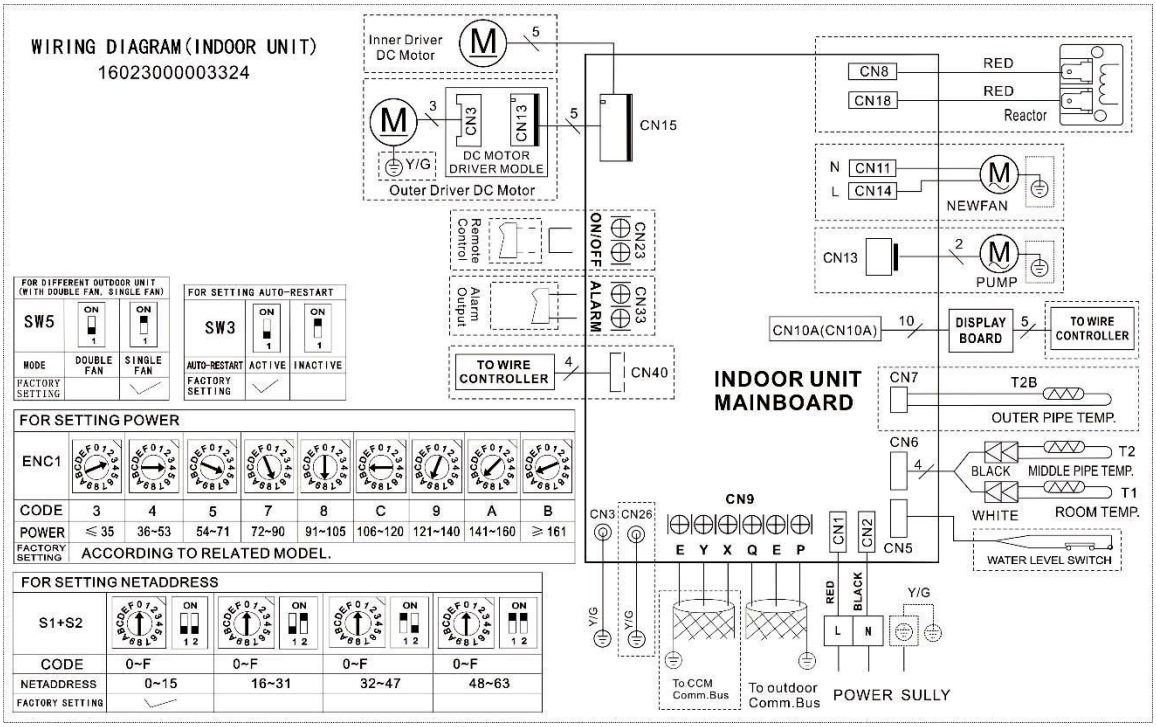
OUTDOOR UNIT



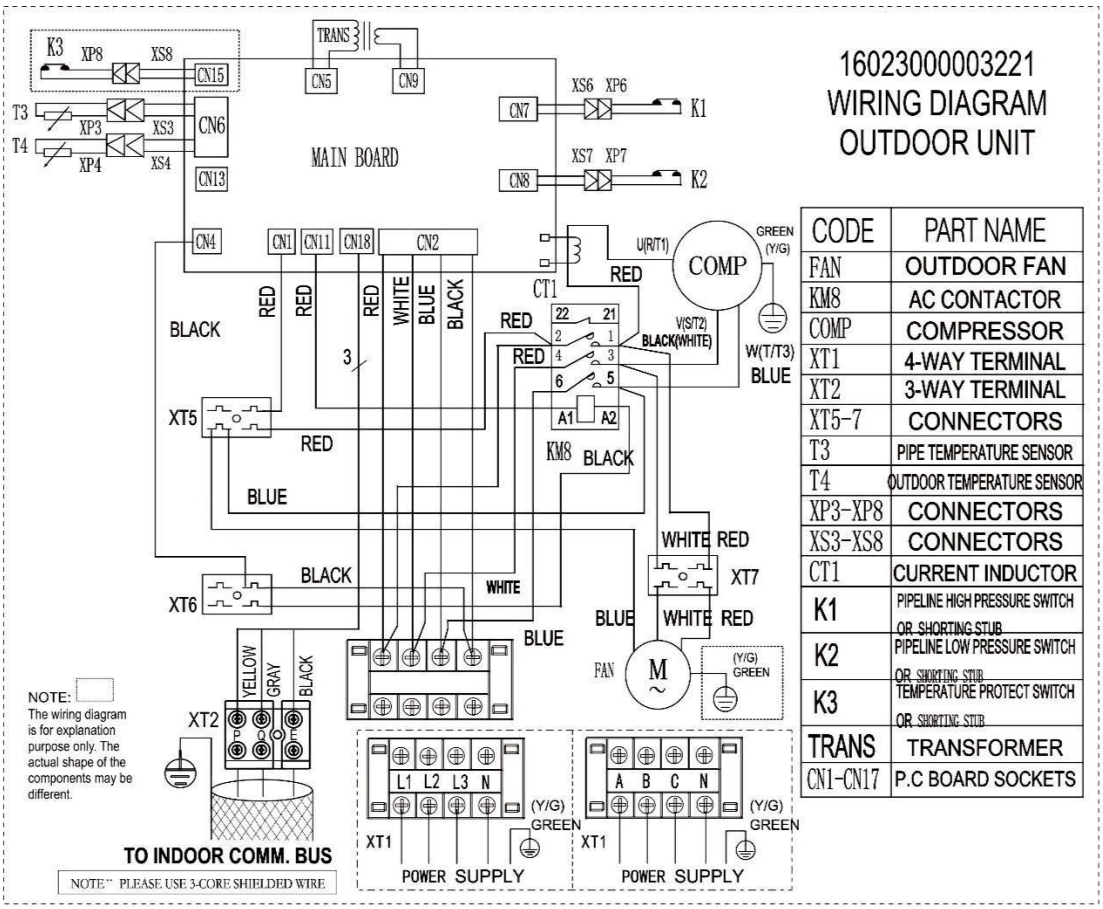
Wiring Diagram

(MODEL NUMBER: YNEFXC048BAN--AX + YNEFYC048BAN-

BAX INDOOR UNIT



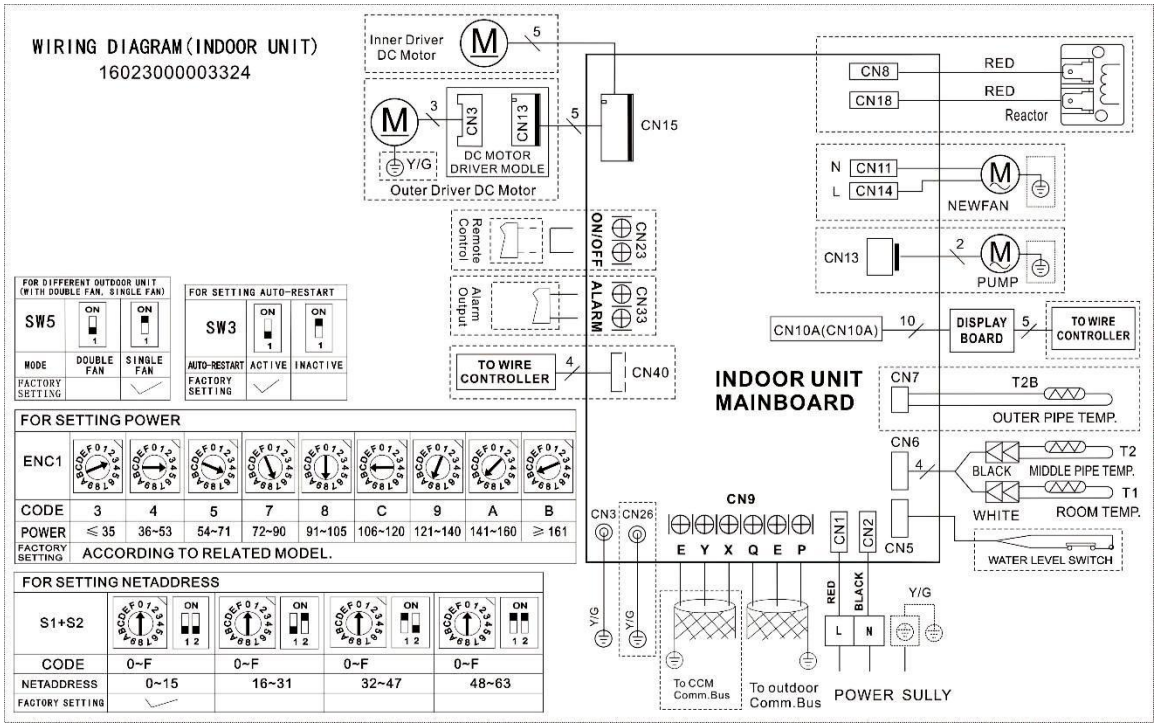
OUTDOOR UNIT



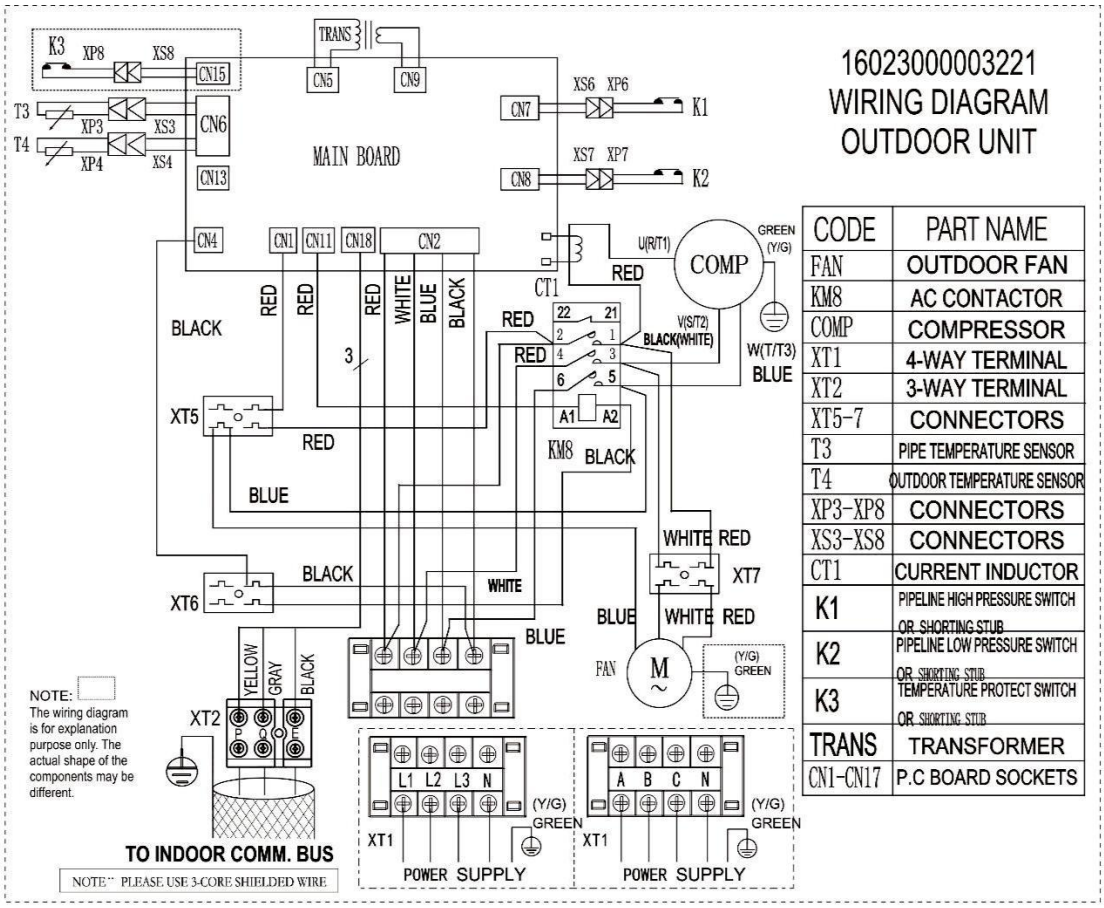
Wiring Diagram

MODEL NO.: YNEFXC055BAN--AX + YNEFYC055BAN-BAX

INDOOR UNIT

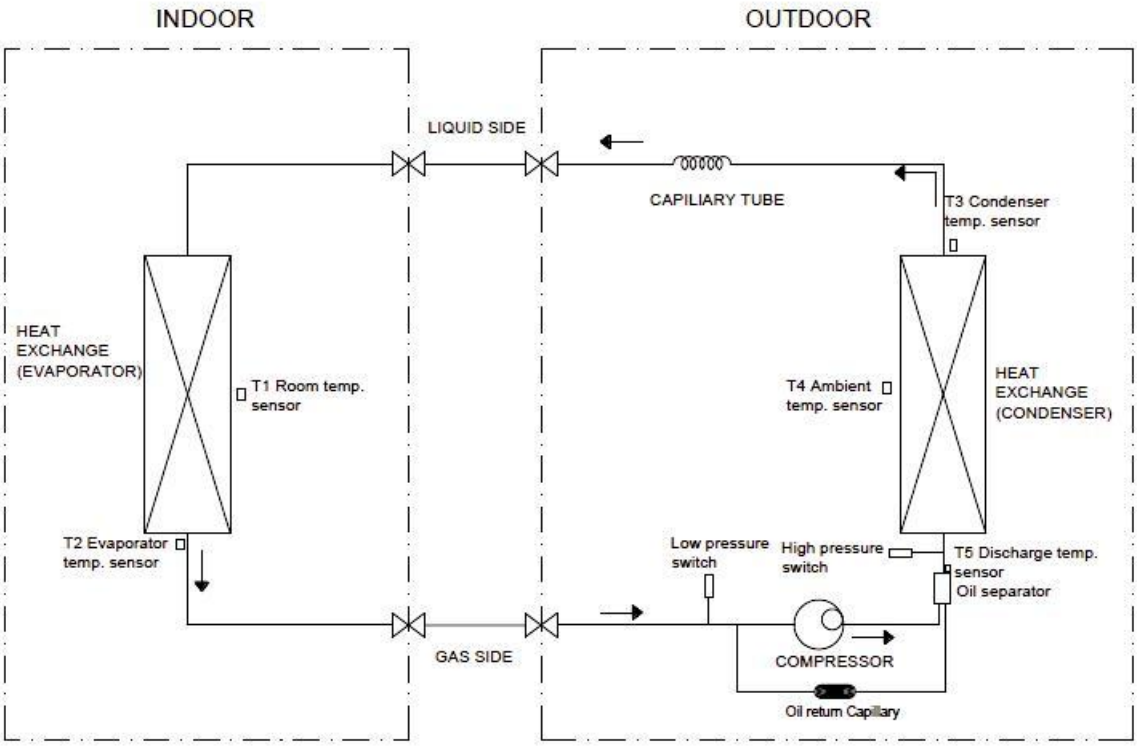


OUTDOOR UNIT



CODE	PART NAME
FAN	OUTDOOR FAN
KM8	AC CONTACTOR
COMP	COMPRESSOR
XT1	4-WAY TERMINAL
XT2	3-WAY TERMINAL
XT5-7	CONNECTORS
T3	PIPE TEMPERATURE SENSOR
T4	OUTDOOR TEMPERATURE SENSOR
XP3-XP8	CONNECTORS
XS3-XS8	CONNECTORS
CT1	CURRENT INDUCTOR
K1	PIPELINE HIGH PRESSURE SWITCH OR SHORTING STUB
K2	PIPELINE LOW PRESSURE SWITCH OR SHORTING STUB
K3	TEMPERATURE PROTECT SWITCH OR SHORTING STUB
TRANS	TRANSFORMER
CN1-CN17	P.C BOARD SOCKETS

Refrigerant Cycle Diagrams



Model No.	Pipe Size(Diameter:ø) inch		Piping length(m)		Elevation(m)		Additional Refrigerant (g/m)
	Gas	Liquid	Rated	Max.	Rated	Max.	
YNEFZC036BAN-BAX	3/4	3/8	5	50	0	30*	40
YNEFZC042BAN-BAX	7/8	3/8	5	50	0	30*	40
YNEFZC048BAN-BAX	7/8	3/8	5	50	0	30*	40
YNEFZC055BAN-BAX	7/8	1/2	5	50	0	30*	40

Note: * means the outdoor unit is higher. The max. elevation will be **20 m** if the indoor unit is higher.

Engineering Data

YNEFZC036BAN-BAX

INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	36.3	36.3	37.0	37.7	37.4	37.4	37.4	38.1	39.7	39.7	39.7	39.7	42.6	42.6	42.6	42.6
969 (Low)	0~80	21	SHC	27.6	29.8	35.9	37.7	25.4	27.3	33.3	38.1	20.6	22.6	28.6	36.1	14.9	16.6	22.6	30.2
			PI	2.26	2.26	2.26	2.26	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.24	2.24	2.24	2.24
		27	TC	34.3	34.3	35.0	35.7	35.4	35.4	35.4	36.1	37.6	37.6	37.6	37.6	40.5	40.5	40.5	40.5
			SHC	26.8	28.8	34.7	35.7	24.4	26.6	32.2	36.1	19.9	21.8	27.4	35.3	13.8	15.8	21.5	29.2
			PI	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.54	2.54	2.54	2.54
		32	TC	32.7	32.7	33.4	34.1	33.7	33.7	33.7	34.4	35.8	35.8	35.8	36.5	38.6	38.6	38.6	38.6
			SHC	25.8	27.8	33.4	34.1	23.6	25.6	31.3	34.4	19.0	21.1	26.9	34.7	13.1	15.1	20.8	28.6
			PI	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.78	2.78	2.78	2.78	2.79	2.79	2.79	2.79
		35	TC	31.7	31.7	32.3	32.9	32.7	32.7	32.7	33.4	34.8	34.8	35.3	36.0	37.5	37.5	37.5	37.5
			SHC	25.4	27.3	32.3	32.9	23.2	25.2	30.7	33.4	18.4	20.5	26.5	34.6	12.8	14.6	20.3	28.1
			PI	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.94	2.94	2.94	2.94	2.95	2.95	2.95	2.95
		43	TC	28.8	28.8	29.4	30.0	29.7	29.7	30.3	30.9	31.7	31.7	31.7	32.3	34.3	34.3	34.3	34.3
			SHC	23.9	25.9	29.4	30.0	21.7	23.8	29.7	30.9	17.1	19.0	25.0	32.3	11.3	13.4	19.2	26.8
			PI	3.38	3.38	3.38	3.38	3.39	3.39	3.39	3.39	3.41	3.41	3.41	3.41	3.43	3.43	3.43	3.43
		46	TC	27.6	27.6	28.2	28.8	28.5	28.5	29.1	29.7	30.4	30.4	30.4	31.0	32.9	32.9	32.9	32.9
			SHC	23.5	25.4	28.2	28.8	21.1	23.1	29.1	29.7	16.7	18.5	24.3	31.0	10.9	12.8	18.8	26.3
			PI	3.58	3.58	3.58	3.58	3.59	3.59	3.59	3.59	3.61	3.61	3.61	3.61	3.64	3.64	3.64	3.64
		52	TC	25.0	25.5	26.0	26.5	25.9	25.9	26.4	26.9	27.7	27.7	27.7	28.3	30.0	30.0	30.0	30.0
			SHC	22.3	24.5	26.0	26.5	19.9	22.0	26.4	26.9	15.5	17.5	23.3	28.3	9.9	11.7	17.4	25.2
			PI	4.04	4.04	4.04	4.04	4.05	4.05	4.05	4.05	4.07	4.07	4.07	4.07	4.10	4.10	4.10	4.10
INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	37.1	37.1	37.8	38.6	38.2	38.2	38.2	39.0	40.5	40.5	40.5	41.3	43.5	43.5	43.5	43.5
1101 (Medium)	0~80	21	SHC	29.3	31.5	37.8	38.6	26.7	29.0	35.5	39.0	21.5	23.9	30.4	39.2	14.8	17.0	23.5	32.2
			PI	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28
		27	TC	35.0	35.0	35.7	36.4	36.1	36.1	36.8	37.5	38.3	38.3	38.3	39.1	41.3	41.3	41.3	41.3
			SHC	28.4	30.5	35.7	36.4	26.0	28.2	35.0	37.5	20.7	22.6	29.5	38.3	14.0	16.1	22.7	31.4
			PI	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.59	2.59	2.59	2.59
		32	TC	33.3	33.3	34.0	34.7	34.4	34.4	35.1	35.8	36.5	36.5	36.5	37.2	39.4	39.4	39.4	39.4
			SHC	27.6	29.6	34.0	34.7	25.1	27.2	34.0	35.8	19.7	21.9	28.5	37.2	13.0	15.4	22.1	30.7
			PI	2.82	2.82	2.82	2.82	2.83	2.83	2.83	2.83	2.84	2.84	2.84	2.84	2.85	2.85	2.85	2.85
		35	TC	32.3	32.3	32.9	33.6	33.3	33.3	34.0	34.7	35.4	35.4	36.0	36.7	38.2	38.2	38.2	38.2
			SHC	27.1	29.4	32.9	33.6	24.6	26.6	33.7	34.7	19.5	21.6	28.4	36.7	12.6	14.9	21.4	30.2
			PI	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
		43	TC	29.4	30.0	30.6	31.2	30.3	30.3	30.9	31.5	32.3	32.3	32.3	33.9	35.0	35.0	35.0	35.0
			SHC	25.6	28.2	30.6	31.2	23.0	25.5	30.9	31.5	18.1	20.0	26.8	33.9	11.6	13.7	20.3	29.1
			PI	3.45	3.45	3.45	3.45	3.46	3.46	3.46	3.46	3.48	3.48	3.48	3.48	3.50	3.50	3.50	3.50
		46	TC	28.2	28.8	29.4	30.0	29.1	29.1	29.7	30.3	31.0	31.0	31.9	33.4	33.9	33.9	33.9	33.9
			SHC	25.1	27.6	29.4	30.0	22.7	24.7	29.7	30.3	17.4	19.5	26.0	31.6	11.1	13.1	19.8	28.6
			PI	3.54	3.54	3.54	3.54	3.66	3.66	3.66	3.66	3.80	3.80	3.80	3.80	4.00	4.00	4.00	4.00
		52	TC	25.5	26.0	26.5	27.0	26.4	26.4	26.9	27.4	28.2	28.2	28.2	28.8	30.6	30.6	30.6	30.6
			SHC	24.0	26.0	26.5	27.0	21.4	23.5	26.9	27.4	16.4	18.3	25.1	28.8	9.8	11.9	18.7	27.2
			PI	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.15	4.15	4.15	4.15	4.18	4.18	4.18	4.18
INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	37.8	37.8	38.6	39.4	38.9	38.9	39.7	40.5	41.3	41.3	41.3	42.1	44.3	44.3	44.3	44.3
1237 (High)	0~80	21	SHC	31.0	33.6	38.6	39.4	28.4	30.7	38.5	40.5	22.3	24.8	32.2	42.1	14.6	17.3	24.8	34.6
			PI	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34	2.34	2.33	2.33	2.33	2.33
		27	TC	35.7	35.7	36.4	37.1	36.8	36.8	37.5	38.3	39.1	39.1	39.1	39.9	42.1	42.1	42.1	42.1
			SHC	30.0	32.5	36.4	37.1	27.2	29.8	37.5	38.3	21.5	23.9	31.3	39.9	13.9	16.4	23.6	33.7
			PI	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64
		32	TC	34.0	34.0	34.7	35.4	35.1	35.1	35.8	36.5	37.3	37.3	37.3	38.0	40.2	40.2	40.2	40.2
			SHC	29.2	32.0	34.7	35.4	26.3	28.8	35.8	36.5	20.5	23.1	30.6	38.0	13.3	15.7	22.9	33.0
			PI	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.89	2.89	2.89	2.89	2.91	2.91	2.91	2.91
		35	TC	32.9	33.6	34.3	35.0	34.0	34.0	34.7	35.4	36.1	36.1	36.7	37.4	39.0	39.0	39.0	39.0
			SHC	29.0	31.6	34.3	35.0	25.8	28.6	34.7	35.4	20.2	22.7	30.1	37.4	12.9	15.2	22.6	32.4
			PI	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.06	3.06	3.06	3.06	3.08	3.08	3.08	3.08
		43	TC	29.9	30.5	31.1	31.7	30.9	30.9	31.5	32.1	34.3	34.3	34.3	35.7	35.6	35.6	35.6	35.6
			SHC	27.5	30.2	31.1	31.7	24.4	26.9	31.5	32.1	18.8	21.1	28.7	33.7	11.4	13.9	21.4	31.0
			PI	3.52	3.52	3.52	3.52	3.53	3.53	3.53	3.53	3.55	3.55	3.55	3.55	3.57	3.57	3.57	3.57
		46	TC	28.7	29.3	29.9	30.5	29.7	29.7	30.3	30.9	33.6	33.6	33.6	34.2	34.7	34.7	34.7	34.7
			SHC	27.0	29.3	29.9	30.5	24.1	26.4	30.3	30.9	18.3	20.5	28.1	34.2	11.0	13.4	20.9	30.5
			PI	3.73	3.73	3.73	3.73	3.74	3.74	3.74	3.74	3.96	3.96	3.96	3.96	4.15	4.15	4.15	4.15
		52	TC	26.0	26.5	27.0	27.5	26.9	26.9	27.4	27.9	28.7	28.7	28.7	29.3	31.2	31.2	31.2	31.2
			SHC	25.7	26.5	27.0	27.5	22.9	25.3	27.4	27.9	16.9	19.5	27.0	29.3	9.7	12.2	19.7	29.3
			PI	4.21	4.21	4.21	4.21	4.22	4.22	4.22	4.22	4.24	4.24	4.24	4.24	4.27	4.27	4.27	4.27

TC : Total Cooling Capacity (KBtu/hr)
SHC : Sensible Heat Capacity (KBtu/hr)
PI : Power Input (kW)

Engineering Data

YNEFZC042BAN-BAX																			
INDOOR AIRFLOW	ESP	OUTDOOR	ID WB (°C)	16.0				17.0				19.0				22.0			
(CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	42.4	42.4	42.4	43.2	43.7	43.7	43.7	44.6	46.3	46.3	46.3	46.3	49.8	49.8	49.8	49.8
		21	SHC	31.0	33.1	38.6	43.2	28.8	30.6	36.3	44.6	24.1	25.9	31.5	39.4	17.9	19.9	25.4	33.4
			PI	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.57	2.57	2.57	2.57	2.56	2.56	2.56	2.56
			TC	40.1	40.1	40.1	40.9	41.3	41.3	41.3	42.1	43.9	43.9	43.9	43.9	47.2	47.2	47.2	47.2
		27	SHC	29.7	31.7	37.7	40.9	27.3	29.3	35.1	42.1	22.8	24.6	30.3	38.2	16.5	18.9	24.5	32.1
			PI	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.90	2.90	2.90	2.90
			TC	38.1	38.1	38.9	39.7	39.3	39.3	39.3	40.1	41.8	41.8	41.8	41.8	45.1	45.1	45.1	45.1
		32	SHC	28.6	30.9	37.0	39.7	26.3	28.3	34.2	40.1	21.7	23.8	29.7	37.2	15.8	17.6	23.5	31.1
			PI	3.16	3.16	3.16	3.16	3.17	3.17	3.17	3.17	3.18	3.18	3.18	3.18	3.19	3.19	3.19	3.19
			TC	37.0	37.0	37.7	38.5	38.1	38.1	38.1	38.9	40.6	40.6	41.2	40.6	43.8	43.8	43.8	43.8
977		35	SHC	28.1	30.0	36.2	38.5	25.9	27.8	33.5	38.9	21.1	23.1	29.3	36.5	15.3	17.1	23.2	30.7
(Low)	0-100		PI	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.36	3.36	3.36	3.36	3.38	3.38	3.38	3.38
			TC	33.6	33.6	34.3	35.0	34.7	34.7	34.7	35.4	37.0	37.0	37.0	37.7	40.0	40.0	40.0	40.0
		43	SHC	26.5	28.6	34.3	35.0	24.3	26.0	31.9	35.4	19.6	21.5	27.4	35.4	13.6	15.6	21.6	29.2
			PI	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.89	3.89	3.89	3.89	3.92	3.92	3.92	3.92
			TC	32.2	32.2	32.8	33.5	33.3	33.3	33.3	34.0	34.4	34.4	34.4	34.6	38.5	38.5	38.5	38.5
		46	SHC	25.8	27.7	32.8	33.5	23.6	25.3	31.3	34.0	18.8	20.9	26.6	34.8	13.1	15.0	20.8	28.5
			PI	3.87	3.87	3.87	3.87	3.88	3.88	3.88	3.88	3.90	3.90	3.90	3.90	3.94	3.94	3.94	3.94
			TC	29.2	29.2	29.8	30.4	30.2	30.2	30.8	31.4	32.3	32.3	32.3	32.9	35.0	35.0	35.0	35.0
		52	SHC	24.2	26.3	29.8	30.4	22.0	23.9	30.2	31.4	17.4	19.4	25.2	32.9	11.6	13.7	19.6	27.3
			PI	4.62	4.62	4.62	4.62	4.63	4.63	4.63	4.63	4.65	4.65	4.65	4.65	4.69	4.69	4.69	4.69
INDOOR AIRFLOW	ESP	OUTDOOR	ID WB (°C)	16.0				17.0				19.0				22.0			
(CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	43.2	43.2	44.1	45.0	44.5	44.5	44.5	45.4	47.2	47.2	47.2	47.2	50.7	50.7	50.7	50.7
		21	SHC	32.8	35.0	42.3	45.0	30.3	32.5	39.2	45.4	24.5	26.9	33.5	43.0	17.7	19.8	26.9	35.5
			PI	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.62	2.62	2.62	2.62	2.61	2.61	2.61	2.61
			TC	40.8	40.8	41.6	42.4	42.1	42.1	42.1	42.9	44.7	44.7	44.7	44.7	48.1	48.1	48.1	48.1
		27	SHC	31.8	33.9	41.2	42.4	29.0	31.2	37.9	42.9	23.7	25.9	32.6	41.6	16.8	18.8	25.5	34.6
			PI	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.96	2.96	2.96	2.96
			TC	38.9	38.9	39.7	40.5	40.1	40.1	40.1	40.9	42.6	42.6	42.6	43.5	46.0	46.0	46.0	46.0
		32	SHC	30.7	33.1	39.7	40.5	28.1	30.5	36.9	40.9	22.6	24.7	31.5	40.9	15.6	17.9	24.8	34.0
			PI	3.22	3.22	3.22	3.22	3.23	3.23	3.23	3.23	3.24	3.24	3.24	3.24	3.25	3.25	3.25	3.25
			TC	37.7	37.7	38.5	39.3	38.9	38.9	38.9	39.7	41.4	41.4	42.0	42.8	44.6	44.6	44.6	44.6
1138		35	SHC	30.2	32.4	38.5	39.3	27.6	29.6	36.6	39.7	21.9	24.4	31.5	40.7	15.2	17.4	24.1	33.5
(Medium)	0-100		PI	3.40	3.40	3.40	3.40	3.41	3.41	3.41	3.41	3.42	3.42	3.43	3.42	3.42	3.42	3.42	3.42
			TC	34.3	34.3	35.0	35.7	35.4	35.4	36.1	36.8	37.7	37.7	37.7	38.5	40.8	40.8	40.8	40.8
		43	SHC	28.5	30.9	35.0	35.7	25.8	28.0	35.0	36.8	20.4	22.6	29.4	38.5	13.9	15.9	22.8	31.8
			PI	3.74	3.74	3.74	3.74	3.75	3.75	3.75	3.75	3.77	3.77	3.77	3.77	3.94	3.94	3.94	3.94
			TC	32.9	32.9	33.2	33.7	33.5	33.5	33.5	34.3	34.2	34.2	34.2	35.3	39.2	39.2	39.2	39.2
		46	SHC	27.6	29.9	33.6	34.3	25.2	27.5	34.4	35.4	19.9	22.1	29.0	35.3	12.9	15.3	22.0	31.0
			PI	3.92	3.92	3.92	3.92	3.97	3.97	3.97	3.97	4.02	4.02	4.02	4.02	4.24	4.24	4.24	4.24
			TC	29.7	30.3	30.9	31.5	30.8	30.8	31.4	32.0	32.9	32.9	32.9	33.6	35.7	35.7	35.7	35.7
		52	SHC	26.1	28.8	30.9	31.5	23.7	25.9	31.4	32.0	18.4	20.7	27.3	33.6	11.8	13.9	20.7	29.6
			PI	4.71	4.71	4.71	4.71	4.72	4.72	4.72	4.72	4.74	4.74	4.74	4.74	4.78	4.78	4.78	4.78
INDOOR AIRFLOW	ESP	OUTDOOR	ID WB (°C)	16.0				17.0				19.0				22.0			
(CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
			TC	44.1	44.1	45.0	45.9	45.4	45.4	46.3	47.2	48.1	48.1	48.1	49.1	51.7	51.7	51.7	51.7
		21	SHC	35.7	38.4	45.0	45.9	32.2	35.0	43.5	47.2	26.0	28.4	36.6	48.1	17.6	20.2	28.4	39.3
			PI	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.67	2.67	2.67	2.67	2.66	2.66	2.66	2.66
			TC	41.6	41.6	42.4	43.2	42.9	42.9	43.8	44.7	45.6	45.6	45.6	46.5	49.1	49.1	49.1	49.1
		27	SHC	34.5	37.0	42.4	43.2	31.3	33.9	42.5	44.7	24.6	27.4	35.6	46.5	16.2	19.1	27.5	38.3
			PI	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
			TC	39.6	39.6	40.4	41.2	40.9	40.9	41.7	42.5	43.4	43.4	43.4	44.3	46.8	46.8	46.8	46.8
		32	SHC	33.3	36.0	40.4	41.2	30.3	33.1	41.7	42.5	23.9	26.5	34.7	44.3	15.4	18.3	26.2	37.4
			PI	3.28	3.28	3.28	3.28	3.29	3.29	3.29	3.29	3.30	3.30	3.30	3.30	3.32	3.32	3.32	3.32
			TC	38.4	38.4	39.2	40.0	39.6	39.6	40.4	41.2	42.1	42.1	42.8	43.7	45.5	45.5	45.5	45.5
1372		35	SHC	33.0	35.7	39.2	40.0	29.7	32.5	40.4	41.2	23.2	26.1	34.2	43.7	15.0	17.7	25.9	36.9
(High)	0-100		PI	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.49	3.49	3.49	3.49	3.51	3.51	3.51	3.51
			TC	34.9	35.6	36.3	37.0	36.1	36.1	36.8	37.5	38.4	38.4	38.4	39.2	41.6	41.6	41.6	41.6
		43	SHC	31.1	34.2	36.3	37.0	28.2	30.7	36.8	37.5	21.5	24.2	32.6	39.2	13.3	16.2	24.5	35.4
			PI	4.01	4.01	4.01	4.01	4.02	4.02	4.02	4.02	4.04	4.04	4.04	4.04	4.08	4.08	4.08	4.08
			TC	33.5	34.2	34.9	35.6	34.6	34.6	35.3	36.0	36.9	36.9	36.9	37.6	39.9	39.9	39.9	39.9
		46	SHC	30.5	33.5	34.9	35.6	27.3	30.1	35.3	36.0	21.0	23.6	31.7	37.6	12.8	15.6	23.9	34.7
			PI	4.25	4.25	4.25	4.25	4.26	4.26	4.26	4.26	4.28	4.28	4.28	4.28	4.32	4.32	4.32	4.32
			TC	30.3	30.9	31.5	32.1	31.4	31.4	32.0	32.6	33.5	33.5	33.5	34.2	36.4	36.4	36.4	36.4
		52	SHC	29.1	30.9	31.5	32.1	26.1	28.6	32.0	32.6	19.4	22.4	30.5	34.2	11.6	14.2	22.6	33.5
			PI	4.80	4.80	4.80	4.80	4.81	4.81	4.81	4.81	4.83	4.83	4.83	4.83	4.87	4.87	4.87	4.87

TC : Total Cooling Capacity (KBtu/hr)
SHC : Sensible Heat Capacity (KBtu/hr)
PI : Power Input (kW)

Engineering Data

YNEFZC048BAN-BAX																			
INDOOR	ESP	OUTDOOR	ID WB (°C)	16.0				17.0				19.0				22.0			
AIRFLOW (CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1267 (Low)	0-100	21	TC	48.4	48.4	49.4	50.4	49.8	49.8	49.8	50.8	52.8	52.8	52.8	52.8	56.8	56.8	56.8	56.8
			SHC	36.8	39.2	47.4	50.4	33.9	36.4	43.8	50.8	27.5	30.1	37.5	47.5	19.9	22.2	30.1	39.8
			PI	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.00	3.00	3.00	3.00	2.99	2.99	2.99	2.99
		27	TC	45.7	45.7	46.6	47.5	47.1	47.1	47.1	48.0	50.0	50.0	50.0	50.0	53.9	53.9	53.9	53.9
			SHC	35.2	37.9	45.7	47.5	32.5	34.9	42.4	48.0	26.5	29.0	36.5	46.5	18.9	21.0	28.6	38.8
			PI	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38
		32	TC	43.5	43.5	44.4	45.3	44.9	44.9	44.9	45.8	47.7	47.7	47.7	48.7	51.4	51.4	51.4	51.4
			SHC	34.4	37.0	44.4	45.3	31.4	33.7	41.3	45.8	25.3	27.7	35.3	45.8	17.5	20.0	27.8	37.5
			PI	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.71	3.71	3.71	3.71	3.72	3.72	3.72	3.72
		35	TC	42.2	42.2	43.0	43.9	43.5	43.5	43.5	44.4	46.3	46.3	47.0	47.9	49.9	49.9	49.9	49.9
			SHC	33.8	36.3	43.0	43.9	30.5	33.1	40.9	44.4	24.5	27.3	35.3	45.5	17.0	19.5	26.9	36.9
			PI	3.89	3.89	3.89	3.89	3.90	3.90	3.90	3.90	3.91	3.91	3.92	3.91	3.94	3.94	3.94	3.94
		43	TC	38.3	38.3	39.1	39.9	39.6	39.6	40.4	41.2	42.2	42.2	42.2	43.0	45.6	45.6	45.6	45.6
			SHC	31.8	34.1	39.1	39.9	28.9	31.3	39.2	41.2	22.8	25.3	32.9	43.0	15.5	17.8	25.5	35.6
			PI	4.51	4.51	4.51	4.51	4.52	4.52	4.52	4.52	4.54	4.54	4.54	4.54	4.58	4.58	4.58	4.58
		46	TC	36.8	36.8	37.5	38.3	38.0	38.0	38.8	39.6	40.5	40.5	40.5	41.3	43.9	43.9	43.9	43.9
			SHC	30.9	33.5	37.5	38.3	28.1	30.4	38.4	39.6	22.3	24.7	32.0	41.3	14.5	17.1	24.6	34.7
			PI	4.78	4.78	4.78	4.78	4.79	4.79	4.79	4.79	4.81	4.81	4.81	4.81	4.85	4.85	4.85	4.85
		52	TC	33.3	34.0	34.7	35.4	34.4	34.4	35.1	35.8	36.8	36.8	36.8	37.5	40.0	40.0	40.0	40.0
			SHC	29.3	32.3	34.7	35.4	26.5	28.9	35.1	35.8	20.6	23.2	30.5	37.5	13.2	15.6	23.2	33.2
			PI	5.39	5.39	5.39	5.39	5.40	5.40	5.40	5.40	5.43	5.43	5.43	5.43	5.47	5.47	5.47	5.47
INDOOR	ESP	OUTDOOR	ID WB (°C)	16. 0				17.0				19.0				22.0			
AIRFLOW (CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1481 (Medium)	0-100	21	TC	49.4	49.4	50.4	51.4	50.9	50.9	50.9	51.9	54.0	54.0	54.0	55.1	58.0	58.0	58.0	58.0
			SHC	39.5	42.5	50.4	51.4	35.6	38.7	47.8	51.9	28.6	31.9	40.5	52.9	19.7	22.6	31.3	43.5
			PI	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.06	3.06	3.06	3.06	3.05	3.05	3.05	3.05
		27	TC	46.7	46.7	47.6	48.6	48.1	48.1	49.1	50.1	51.1	51.1	51.1	52.1	55.0	55.0	55.0	55.0
			SHC	37.8	41.1	47.6	48.6	34.6	37.5	46.6	50.1	27.6	30.7	39.3	51.6	18.7	21.5	30.3	41.8
			PI	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.45	3.45	3.45	3.45
		32	TC	44.4	44.4	45.3	46.2	45.8	45.8	46.7	47.6	48.7	48.7	48.7	49.7	52.5	52.5	52.5	52.5
			SHC	36.9	40.0	45.3	46.2	33.4	36.2	45.8	47.6	26.3	29.2	38.0	49.7	17.3	20.5	29.4	41.0
			PI	3.76	3.76	3.76	3.76	3.77	3.77	3.77	3.77	3.78	3.78	3.78	3.78	3.80	3.80	3.80	3.80
		35	TC	43.1	43.1	44.0	44.9	44.4	44.4	45.3	46.2	47.3	47.3	48.0	49.0	51.0	51.0	51.0	51.0
			SHC	36.2	39.2	44.0	44.9	32.9	35.5	44.8	46.2	26.0	28.9	37.9	49.0	16.8	19.9	28.6	40.3
			PI	3.97	3.97	3.97	3.97	3.98	3.98	3.98	3.98	3.99	3.99	4.00	3.99	3.99	3.99	3.99	3.99
		43	TC	39.2	41.0	41.8	42.6	41.6	41.6	42.9	42.9	43.9	43.9	43.9	45.0	46.6	46.6	46.6	46.6
			SHC	34.5	37.6	40.8	41.6	31.2	34.0	41.3	42.1	24.1	27.2	35.8	45.0	15.4	18.2	27.0	38.7
			PI	4.60	4.60	4.60	4.60	4.61	4.61	4.61	4.61	4.63	4.63	4.63	4.63	4.67	4.67	4.67	4.67
		46	TC	37.5	38.3	39.1	39.9	39.2	39.2	40.6	42.2	43.2	43.2	43.2	44.2	44.8	44.8	44.8	44.8
			SHC	33.8	36.8	39.1	39.9	30.3	33.0	39.6	40.4	23.2	26.1	35.2	44.2	14.3	17.5	26.4	38.1
			PI	4.85	4.85	4.85	4.85	4.86	4.86	4.86	4.86	4.88	4.88	4.88	4.88	4.95	4.95	4.95	4.95
		52	TC	34.0	34.7	35.4	36.1	35.2	35.2	35.9	36.6	37.6	37.6	37.6	38.4	40.8	40.8	40.8	40.8
			SHC	32.0	34.7	35.4	36.1	28.5	31.7	35.9	36.6	21.8	24.8	33.5	38.4	13.1	15.9	24.9	36.7
			PI	5.50	5.50	5.50	5.50	5.51	5.51	5.51	5.51	5.54	5.54	5.54	5.54	5.58	5.58	5.58	5.58
INDOOR	ESP	OUTDOOR	ID WB (°C)	16. 0				17.0				19.0				22.0			
AIRFLOW (CFM)	(Pa)	DB (°C)	ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1732 (High)	0-100	21	TC	50.4	50.4	51.4	52.4	52.0	52.0	53.0	54.1	55.1	55.1	55.1	56.2	59.2	59.2	59.2	59.2
			SHC	42.3	45.9	51.4	52.4	38.5	41.6	52.5	54.1	30.3	33.6	44.1	56.2	19.5	23.1	33.2	47.4
			PI	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.12	3.12	3.12	3.12	3.11	3.11	3.11	3.11
		27	TC	47.7	47.7	48.7	49.7	49.1	49.1	50.1	51.1	52.2	52.2	52.2	53.2	56.2	56.2	56.2	56.2
			SHC	41.0	44.4	48.7	49.7	36.8	40.3	50.1	51.1	28.7	32.4	42.8	53.2	18.5	21.9	32.0	46.1
			PI	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.52	3.52	3.52	3.52
		32	TC	45.4	46.3	47.2	48.1	46.8	46.8	47.7	48.7	49.7	49.7	49.7	50.7	53.6	53.6	53.6	53.6
			SHC	40.0	44.0	47.2	48.1	36.0	39.3	47.7	48.7	27.8	31.3	41.7	50.7	17.7	20.9	31.1	45.0
			PI	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.86	3.86	3.86	3.86	3.88	3.88	3.88	3.88
		35	TC	44.0	44.9	45.8	46.7	45.4	45.4	46.3	47.2	48.3	48.3	49.0	50.0	52.1	52.1	52.1	52.1
			SHC	39.6	43.1	45.8	46.7	35.4	38.6	46.3	47.2	27.0	30.4	41.2	50.0	16.7	20.3	30.7	44.3
			PI	4.05	4.05	4.05	4.05	4.06	4.06	4.06	4.06	4.07	4.07	4.08	4.07	4.10	4.10	4.10	4.10
		43	TC	40.0	41.8	42.6	43.4	42.3	42.3	43.1	43.9	45.0	45.0	45.0	45.9	47.6	47.6	47.6	47.6
			SHC	37.6	40.8	41.6	42.4	33.5	36.8	42.1	42.9	25.5	29.0	39.2	45.9	15.2	18.6	29.0	42.8
			PI	4.69	4.69	4.69	4.69	4.70	4.70	4.70	4.70	4.73	4.73	4.73	4.73	4.77	4.77	4.77	4.77
		46	TC	38.3	39.1	39.9	40.7	39.6	39.6	41.4	42.7	43.7	43.7	43.7	44.7	45.7	45.7	45.7	45.7
			SHC	36.8	39.1	39.9	40.7	32.9	36.0	40.4	41.2	24.5	28.3	38.4	44.7	14.6	17.8	28.3	42.0
			PI	4.97	4.97	4.97	4.97	4.98	4.98	4.98	4.98	5.01	5.01	5.01	5.01	5.05	5.05	5.05	5.05
		52	TC	34.7	35.4	36.1	36.8	35.9	36.6	37.3	38.0	38.4	38.4	39.2	40.0	41.7	41.7	41.7	42.5
			SHC	34.7	35.4	36.1	36.8	31.2	34.8	37.3	38.0	23.0	26.5	37.2	40.0	12.9	16.3	26.7	41.2
			PI	5.61	5.61	5.61	5.61	5.62	5.62	5.62	5.62	5.65	5.65	5.65	5.65	5.69	5.69	5.69	5.69

TC : Total Cooling Capacity (KBtu/hr)
SHC : Sensible Heat Capacity (KBtu/hr)
PI : Power Input (kW)

Engineering Data

YNEFZC055BAN-BAX

INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1267 (Low)	0-120	21	TC	57.4	57.4	57.4	57.4	59.1	59.1	59.1	59.1	62.8	62.8	62.8	62.8	67.6	67.6	67.6	67.6
			SHC	40.5	42.7	50.5	56.6	37.2	40.0	47.5	58.3	31.5	33.9	41.2	51.5	23.4	26.0	33.2	43.6
			PI	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95
		27	TC	55.8	55.8	55.8	55.8	57.6	57.6	57.6	57.6	61.2	61.2	61.2	61.2	65.9	65.9	65.9	65.9
			SHC	38.8	41.4	48.7	53.4	35.6	38.3	45.9	55.1	29.8	32.1	39.6	49.9	22.2	24.7	32.1	42.0
			PI	4.14	4.14	4.14	4.14	4.15	4.15	4.15	4.15	4.16	4.16	4.16	4.16	4.17	4.17	4.17	4.17
		32	TC	54.3	54.3	54.3	54.3	56.0	56.0	56.0	56.0	59.6	59.6	59.6	59.6	64.2	64.2	64.2	64.2
			SHC	37.4	39.9	47.8	51.9	34.5	37.1	44.8	52.5	28.4	31.2	38.3	48.7	20.7	23.0	30.7	40.7
			PI	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.38	4.38	4.38	4.38	4.40	4.40	4.40	4.40
		35	TC	52.8	52.8	52.8	52.8	54.4	54.4	54.4	54.4	57.9	57.9	58.8	57.9	62.5	62.5	62.5	62.5
			SHC	36.8	39.2	47.4	50.4	33.9	36.4	43.9	50.9	27.6	30.3	38.3	47.8	20.1	22.3	29.8	40.1
			PI	4.58	4.58	4.58	4.58	4.59	4.59	4.59	4.59	4.60	4.60	4.61	4.60	4.63	4.63	4.63	4.63
		43	TC	51.1	51.1	51.1	51.1	52.8	52.8	52.8	52.8	56.2	56.2	56.2	56.2	60.7	60.7	60.7	60.7
			SHC	34.3	37.0	44.9	45.8	31.8	34.1	41.8	46.3	25.7	28.1	35.8	45.5	17.8	20.4	28.2	38.2
			PI	4.81	4.81	4.81	4.81	4.82	4.82	4.82	4.82	4.84	4.84	4.84	4.84	4.88	4.88	4.88	4.88
		46	TC	45.9	45.9	45.9	45.9	47.5	47.5	47.5	47.5	49.6	49.6	49.6	49.6	54.8	54.8	54.8	54.8
			SHC	33.8	36.3	43.0	43.9	30.5	33.1	40.5	44.5	24.6	27.4	34.9	45.5	17.1	19.6	27.2	37.2
			PI	5.63	5.63	5.63	5.63	5.64	5.64	5.64	5.64	5.67	5.67	5.67	5.67	5.72	5.72	5.72	5.72
		52	TC	41.9	41.9	41.9	41.9	43.4	43.4	43.4	43.4	46.3	46.3	46.3	46.3	50.3	50.3	50.3	50.3
			SHC	28.5	29.3	31.8	35.2	27.8	28.6	31.2	34.3	25.9	26.9	29.2	32.4	23.1	24.1	26.7	30.2
			PI	6.30	6.30	6.30	6.30	6.31	6.31	6.31	6.31	6.34	6.34	6.34	6.34	6.39	6.39	6.39	6.39
INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1481 (Medium)	0-120	21	TC	58.5	58.5	58.5	58.5	60.4	60.4	60.4	60.4	64.1	64.1	64.1	64.1	69.0	69.0	69.0	69.0
			SHC	43.0	45.8	55.4	58.5	39.6	42.6	51.3	59.5	32.1	35.2	43.9	55.6	23.2	25.9	35.2	46.5
			PI	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.03	4.03	4.03	4.03
		27	TC	57.0	57.0	57.0	57.0	58.8	58.8	58.8	58.8	62.4	62.4	62.4	62.4	67.3	67.3	67.3	67.3
			SHC	41.2	44.4	53.5	55.7	38.1	40.8	49.7	56.3	31.0	33.9	42.7	54.4	22.1	24.6	33.4	45.4
			PI	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.24	4.24	4.24	4.25	4.25	4.25	4.25
		32	TC	55.4	55.4	55.4	55.4	57.2	57.2	57.2	57.2	60.8	60.8	60.8	60.8	65.5	65.5	65.5	65.5
			SHC	40.2	43.3	51.9	52.9	36.8	39.4	48.3	53.6	29.6	32.4	41.3	53.5	20.5	23.5	32.5	43.9
			PI	4.44	4.44	4.44	4.44	4.45	4.45	4.45	4.45	4.46	4.46	4.46	4.46	4.48	4.48	4.48	4.48
		35	TC	53.8	53.8	53.8	53.8	55.6	55.6	55.6	55.6	59.1	59.1	60.0	59.1	63.7	63.7	63.7	63.7
			SHC	39.4	42.4	50.3	51.3	35.6	38.7	47.8	51.9	28.7	32.0	40.7	53.3	19.9	22.8	31.5	43.2
			PI	4.67	4.67	4.67	4.67	4.68	4.68	4.68	4.68	4.69	4.69	4.70	4.69	4.69	4.69	4.69	4.69
		43	TC	52.2	52.2	52.2	52.2	53.9	53.9	53.9	53.9	57.3	57.3	57.3	57.3	61.9	61.9	61.9	61.9
			SHC	37.3	40.0	45.8	46.7	33.8	36.6	45.8	48.1	26.7	29.6	38.5	50.4	18.2	20.8	29.9	41.7
			PI	4.91	4.91	4.91	4.91	4.92	4.92	4.92	4.92	4.94	4.94	4.94	4.94	4.97	4.97	4.97	4.97
		46	TC	46.9	46.9	46.9	46.9	48.4	48.4	48.4	48.4	50.2	50.2	50.2	50.2	55.9	55.9	55.9	55.9
			SHC	36.1	39.1	43.9	44.8	32.9	35.6	44.9	46.3	26.1	28.9	37.4	48.3	16.9	20.0	28.7	40.5
			PI	6.07	6.07	6.07	6.07	6.08	6.08	6.08	6.08	6.10	6.10	6.10	6.18	6.23	6.23	6.23	6.23
		52	TC	42.8	42.8	42.8	42.8	44.2	44.2	44.2	44.2	47.3	47.3	47.3	47.3	51.3	51.3	51.3	51.3
			SHC	28.7	30.0	33.0	37.2	27.4	28.7	31.8	36.2	25.1	26.0	29.3	33.6	22.1	23.1	26.2	30.3
			PI	6.42	6.42	6.42	6.42	6.43	6.43	6.43	6.43	6.46	6.46	6.46	6.46	6.51	6.51	6.51	6.51
INDOOR AIRFLOW (CFM)	ESP (Pa)	OUTDOOR DB (°C)	ID WB (°C)	16.0				17.0				19.0				22.0			
			ID DB (°C)	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0	23.0	24.0	27.0	31.0
1732 (High)	0-120	21	TC	59.7	59.7	59.7	59.7	61.6	61.6	61.6	61.6	65.4	65.4	65.4	65.4	70.3	70.3	70.3	70.3
			SHC	46.2	49.6	58.9	59.7	41.7	45.2	55.9	60.7	33.4	37.2	47.3	61.8	23.1	26.4	36.6	50.9
			PI	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.11	4.11	4.11	4.11
		27	TC	58.1	58.1	58.1	58.1	59.9	59.9	59.9	59.9	63.7	63.7	63.7	63.7	68.6	68.6	68.6	68.6
			SHC	44.2	48.0	55.7	56.8	40.5	43.9	54.5	58.5	32.2	35.8	46.0	60.3	21.9	25.1	35.4	48.9
			PI	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.32	4.32	4.32	4.32	4.34	4.34	4.34	4.34
		32	TC	56.5	56.5	56.5	56.5	58.3	58.3	58.3	58.3	62.0	62.0	62.0	62.0	66.8	66.8	66.8	66.8
			SHC	43.1	46.7	52.9	54.0	39.1	42.3	53.6	55.8	30.7	34.1	44.4	58.0	20.3	23.9	34.4	47.9
			PI	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.55	4.55	4.55	4.55	4.57	4.57	4.57	4.57
		35	TC	54.9	54.9	54.9	54.9	56.7	56.7	56.7	56.7	60.3	60.3	61.2	60.3	65.0	65.0	65.0	65.0
			SHC	42.3	45.8	51.3	52.3	38.4	41.5	52.4	54.0	30.4	33.7	44.3	57.2	19.7	23.2	33.4	47.1
			PI	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.78	4.78	4.79	4.78	4.81	4.81	4.81	4.81
		43	TC	53.2	53.2	53.2	53.2	55.0	55.0	55.0	55.0	58.5	58.5	58.5	58.5	63.2	63.2	63.2	63.2
			SHC	40.3	43.9	47.6	48.6	36.4	39.7	48.2	49.2	28.2	31.8	41.8	51.4	18.0	21.3	31.6	45.2
			PI	5.00	5.00	5.00	5.00	5.01	5.01	5.01	5.01	5.03	5.03	5.03	5.03	5.07	5.07	5.07	5.07
		46	TC	47.8	47.8	47.8	47.8	49.4	49.4	49.4	49.4	52.7	52.7	52.7	52.7	57.0	57.0	57.0	57.0
			SHC	39.5	43.0	45.7	46.6	35.4	38.6	46.3	47.2	27.1	30.5	41.1	49.4	16.8	20.4	30.9	44.5
			PI	6.15	6.15	6.15	6.15	6.19	6.19	6.19	6.19	6.23	6.23	6.23	6.31	6.36	6.36	6.36	6.36
		52	TC	43.6	43.6	43.6	43.6	45.1	45.1	45.1	45.1	48.2	48.2	48.2	48.2	52.3	52.3	52.3	52.3
			SHC	29.2	30.5	34.0	38.8	28.0	29.3	32.5	37.4	25.5	26.5	29.9	34.7	22.0	23.0	26.2	30.9
			PI	6.54	6.54	6.54	6.54	6.55	6.55	6.55	6.55	6.58	6.58	6.58	6.58	6.64	6.64	6.64	6.64

TC : Total Cooling Capacity (KBtu/hr)
SHC : Sensible Heat Capacity (KBtu/hr)
PI : Power Input (kW)

Coefficient of Capacity Change

Model 36K(3Ton)			Pipe Length (m)					
Cooling			7.5	10	20	30	40	50
Height difference H (m)	 Indoor higher than outdoor	30				0.851	0.805	0.759
		20			0.911	0.864	0.817	0.77
		10		0.973	0.925	0.878	0.83	0.782
		5	0.995	0.983	0.935	0.886	0.838	0.79
	0		**1.000**	**0.988**	**0.939**	**0.891**	**0.842**	0.794
	 Outdoor higher than Indoor	-5	1.000	0.988	0.939	0.891	0.842	0.794
		-10		0.988	0.939	0.891	0.842	0.794
		-20			0.939	0.891	0.842	0.794
		-30				0.891	0.842	0.794

Model 42K(3.5Ton)			Pipe Length (m)					
Cooling			7.5	10	20	30	40	50
Height difference H (m)	 Indoor higher than outdoor	30				0.838	0.786	0.734
		20			0.904	0.851	0.798	0.745
		10		0.972	0.918	0.864	0.81	0.757
		5	0.995	0.981	0.927	0.873	0.818	0.764
	0		**1.000**	**0.986**	**0.932**	**0.877**	**0.823**	**0.768**
	 Outdoor higher than Indoor	-5	1.000	0.986	0.932	0.877	0.823	0.768
		-10		0.986	0.932	0.877	0.823	0.768
		-20			0.932	0.877	0.823	0.768
		-30				0.877	0.823	0.768

Model 48K(4Ton)			Pipe Length (m)					
Cooling			7.5	10	20	30	40	50
Height difference H (m)	 Indoor higher than outdoor	**30**				0.831	0.776	0.721
		20			0.9	0.844	0.788	0.732
		10		0.971	0.914	0.857	0.8	0.743
		5	0.995	0.981	0.923	0.865	0.808	0.75
	0		**1.000**	**0.986**	**0.928**	**0.87**	**0.812**	**0.754**
	 Outdoor higher than Indoor	**-5**	1.000	0.986	0.928	0.87	0.812	0.754
		-10		0.986	0.928	0.87	0.812	0.754
		-20			0.928	0.87	0.812	0.754
		-30				0.87	0.812	0.754

Coefficient of Capacity Change

Model 55K(5Ton)			Pipe Length (m)					
Cooling			7.5	10	20	30	40	50
Height difference H (m)	 Indoor higher than outdoor	30				0.805	0.738	0.671
		20			0.885	0.817	0.749	0.681
		10		0.968	0.899	0.83	0.761	0.692
		5	0.995	0.978	0.908	0.838	0.768	0.698
	0		**1.000**	**0.982**	**0.912**	**0.842**	**0.772**	**0.702**
	 Outdoor higher than Indoor	-5	1.000	0.982	0.912	0.842	0.772	0.702
		-10		0.982	0.912	0.842	0.772	0.702
		-20			0.912	0.842	0.772	0.702
		-30				0.842	0.772	0.702

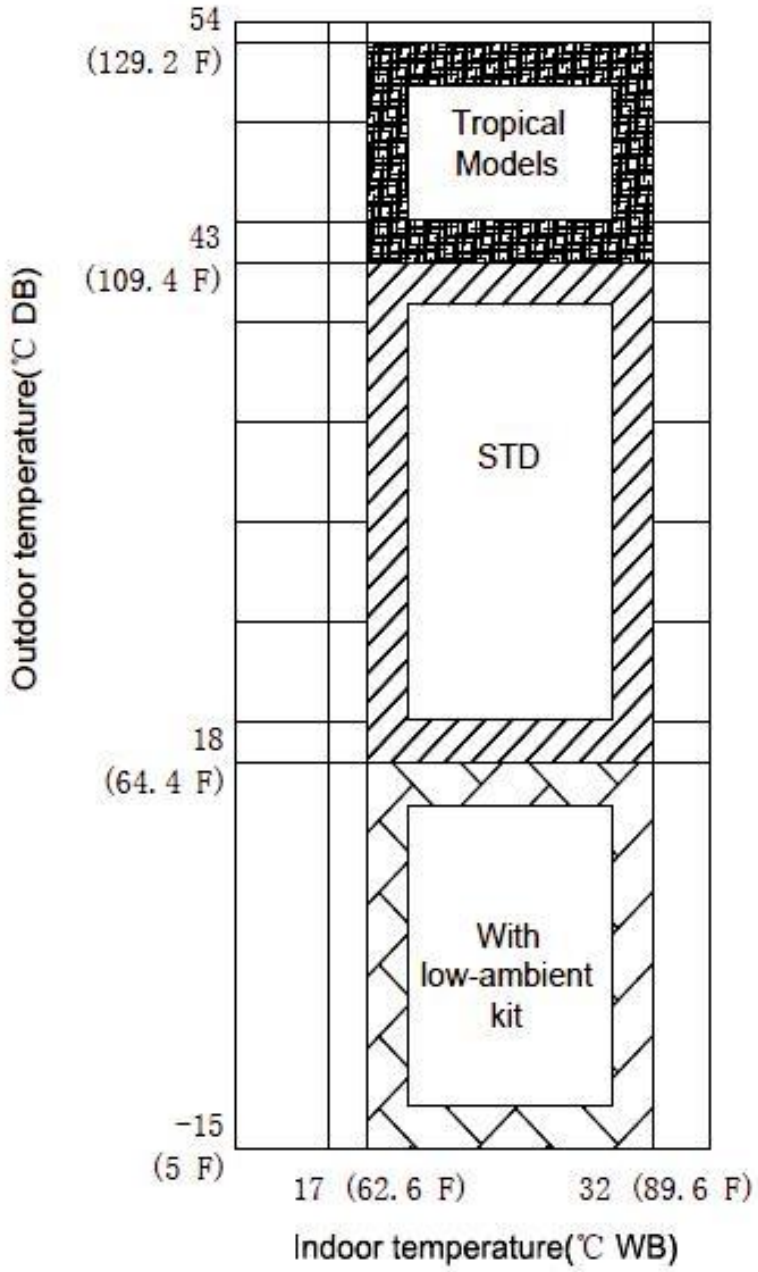
Notes:

* Equivalent pipe length = Actual pipe length + number of bend x 0.3
* Refer to the specification for the maximum pipe length of each model.
* For piping length, please add the following to the following as well:

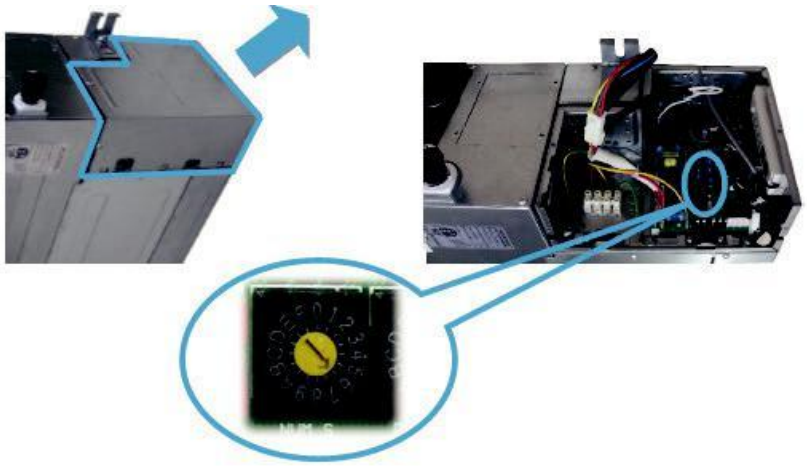
o Table showing the recommended suction and liquid pipe sizes at each pipe length o Table showing the required additional refrigerant to be added at each pipe length o Table showing the amount of oil to be added at each refrigerant length o Correction Ratio of capacity according to the length of piping

Model No.	Pipe Size (Diameter:ø) inch		Piping length (m)		Elevation (m)		Additional Refrigerant (g/m)
	Gas	Liquid	Rated	Max.	Rated	Max.	
YNEFZC036BAN-BAX	3/4	3/8	5	50	0	30*	40
YNEFZC042BAN-BAX	7/8	3/8	5	50	0	30*	40
YNEFZC048BAN-BAX	7/8	3/8	5	50	0	30*	40
YNEFZC055BAN-BAX	7/8	1/2	5	50	0	30*	40

Operating Range (Cooling)



ESP (External Static Pressure) Setting for Phase Control Motor



Select one of positions to set suitable static pressure according to the instruction sticker on the back of the cover of electrical box.

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FOR SETTING STATIC PRESSURE

ENC2								
CODE	0	1	2	3	4	5	6	7
STATIC PRESSURE(PA)	0	1~10	11~20	21~30	31~40	41~50	51~60	61~70
ENC2								
CODE	8	9	A	B	C	D	E	F
STATIC PRESSURE(PA)	71~80	81~90	91~100	101~110	111~120	121~130	131~140	>140

PLEASE REFER TO THE ABOVE STATIC PRESSURE TO INSTALL.
CHANGE THE FAN MOTOR STATIC PRESSURE CORRESPONDING TO EXTERNAL DUCT STATIC PRESSURE.

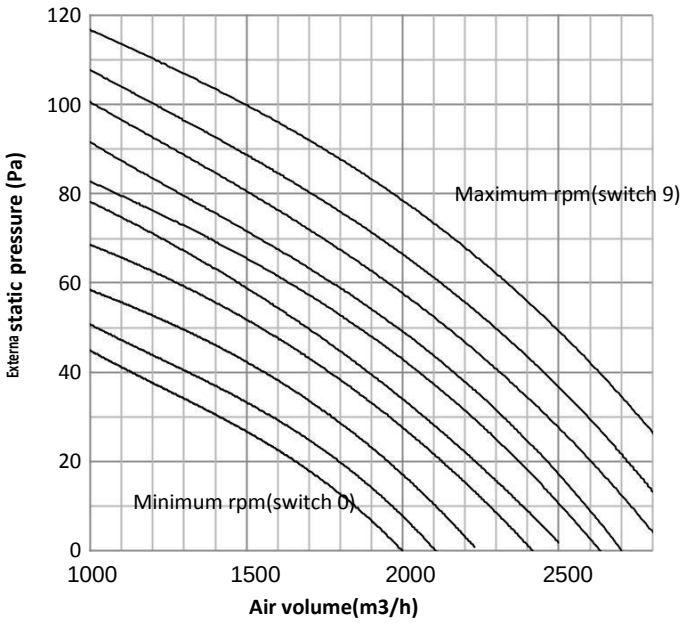
AVAILABLE SETTINGS FOR DIFFERENT MODELS

Models	Available positions	Static Pressure Range
YNEFXC036BAN--AX	0 – 9	0 – 90Pa
YNEFXC042BAN--AX	0 – 9	0 – 90Pa
YNEFXC048BAN--AX	0 - D	0 – 130Pa
YNEFXC055BAN--AX	0 - E	0 – 140Pa

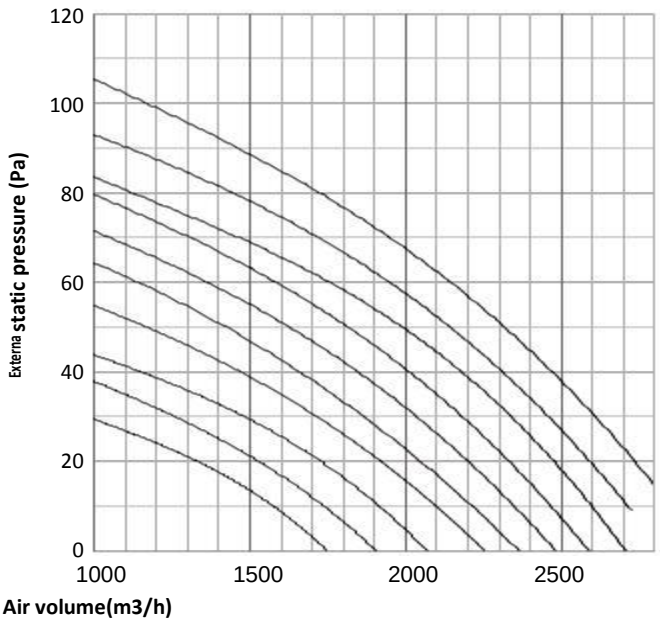
ESP (External Static Pressure) Setting for Phase Control Motor

MODEL NUMBER: YNEFXC036BAN--AX

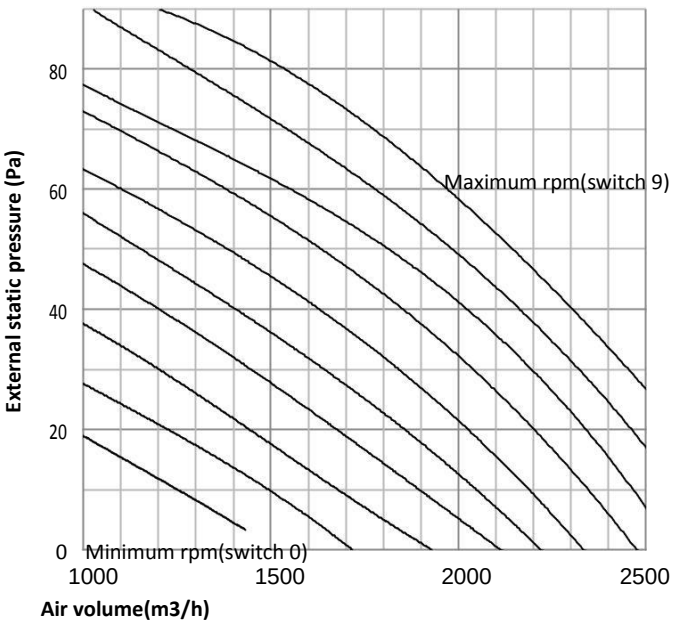
HIGH SPEED



MID SPEED



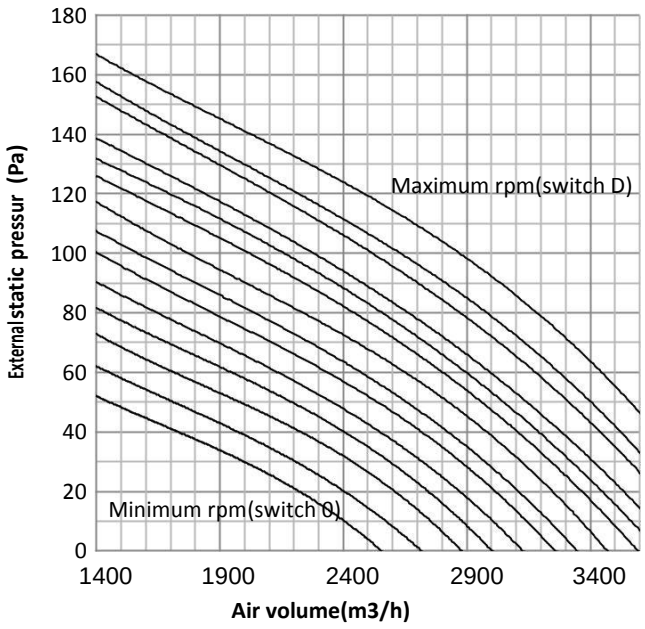
LOW SPEED



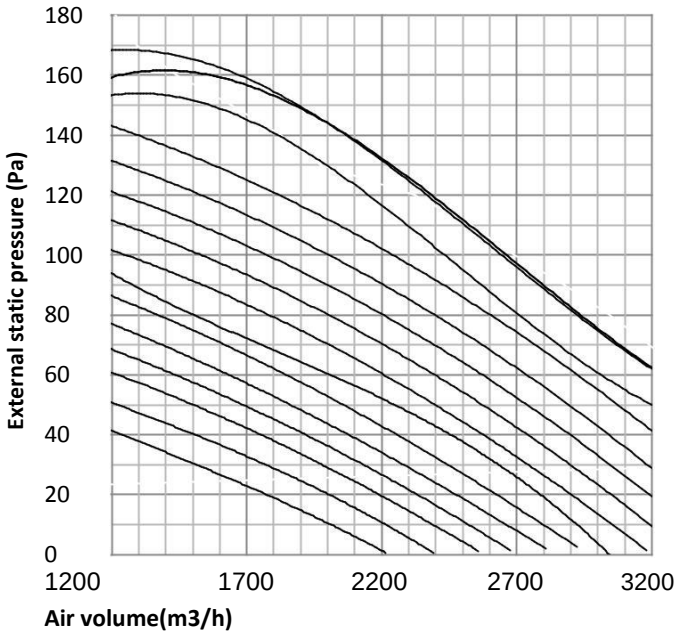
ESP (External Static Pressure) Setting for Phase Control Motor

MODEL NUMBER: YNEFXC042BAN--AX

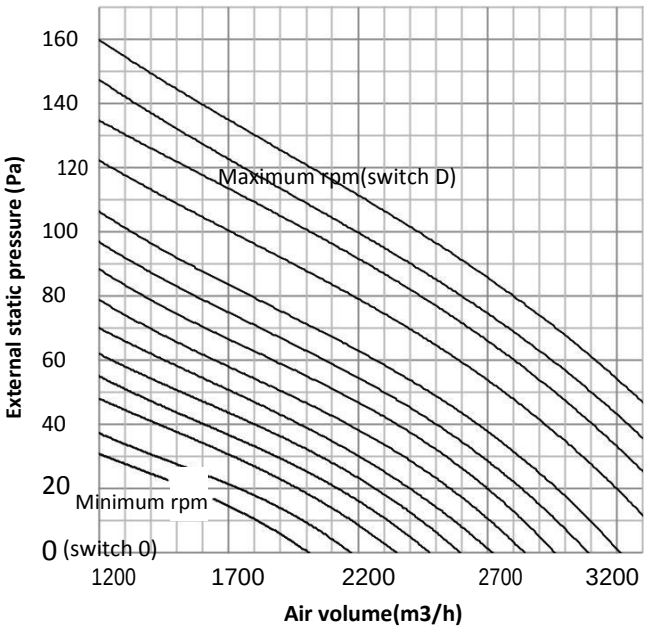
HIGH SPEED



MID SPEED



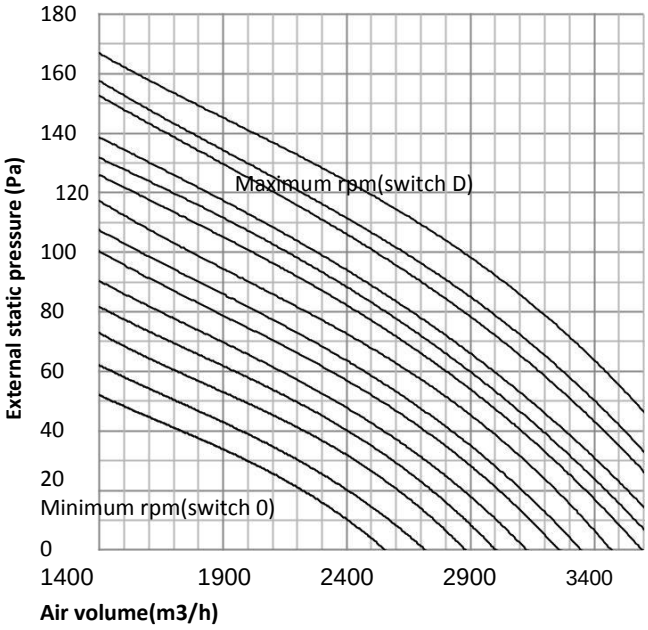
LOW SPEED



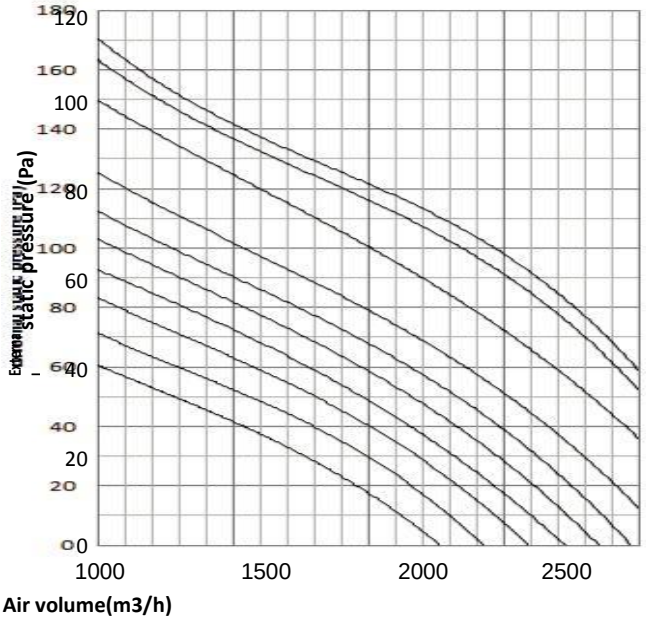
ESP (External Static Pressure) Setting for Phase Control Motor

MODEL NUMBER: YNEFXC048BAN--AX

HIGH SPEED



MID SPEED



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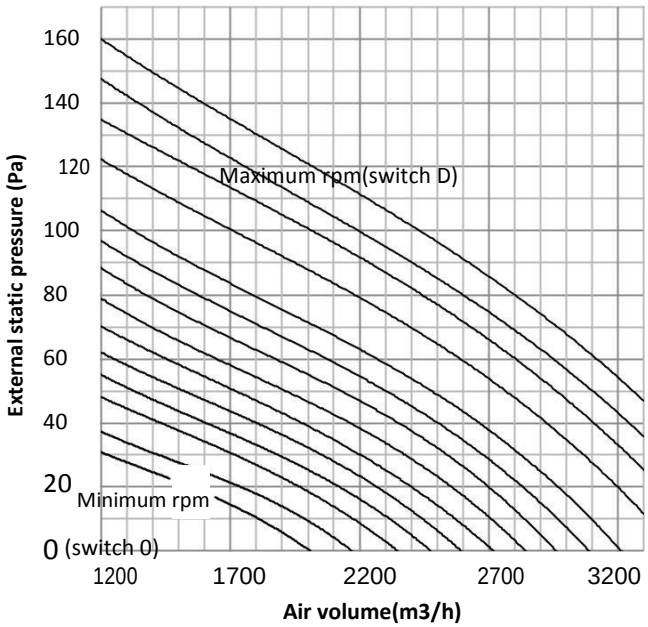
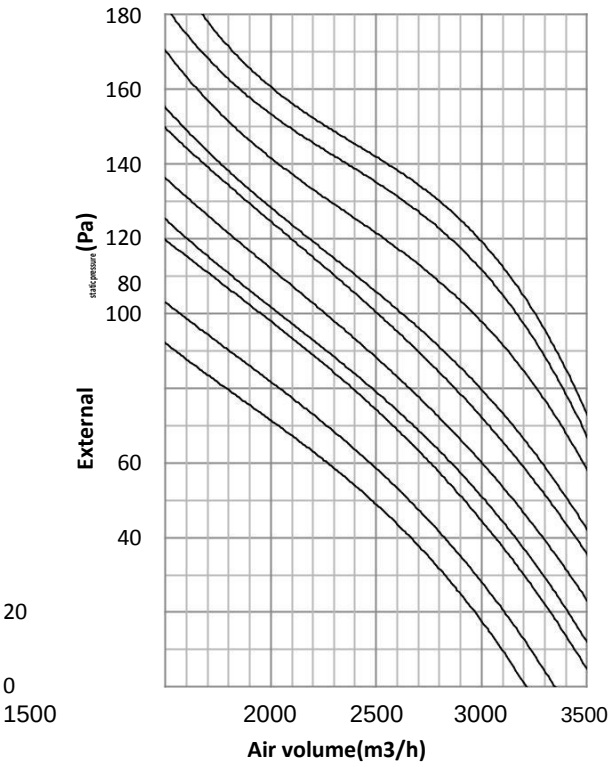
LOW SPEED



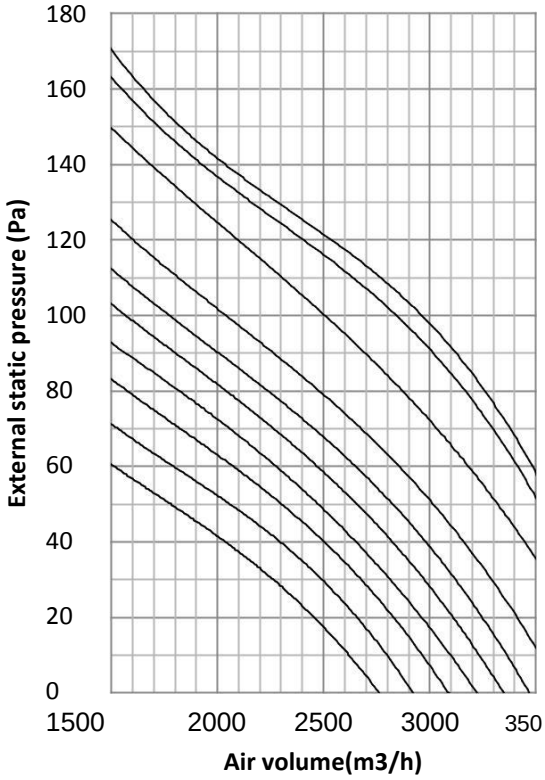
ESP (External Static Pressure) Setting for Phase Control Motor

MODEL NUMBER: YNEFXC055BAN--AX

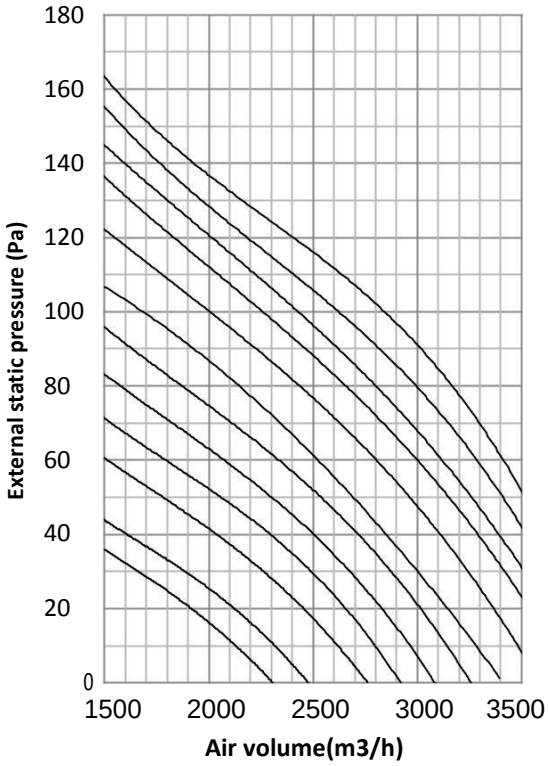
HIGH SPEED



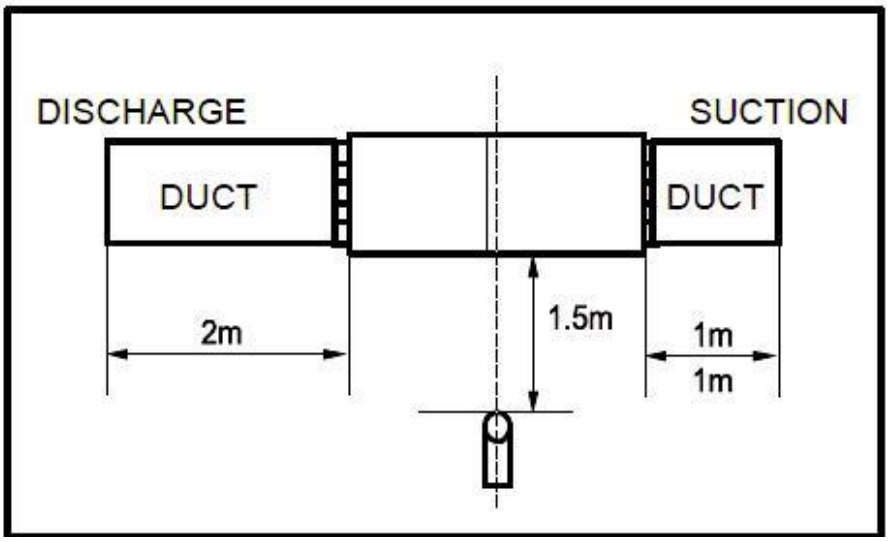
MID SPEED



LOW SPEED



Sound Level



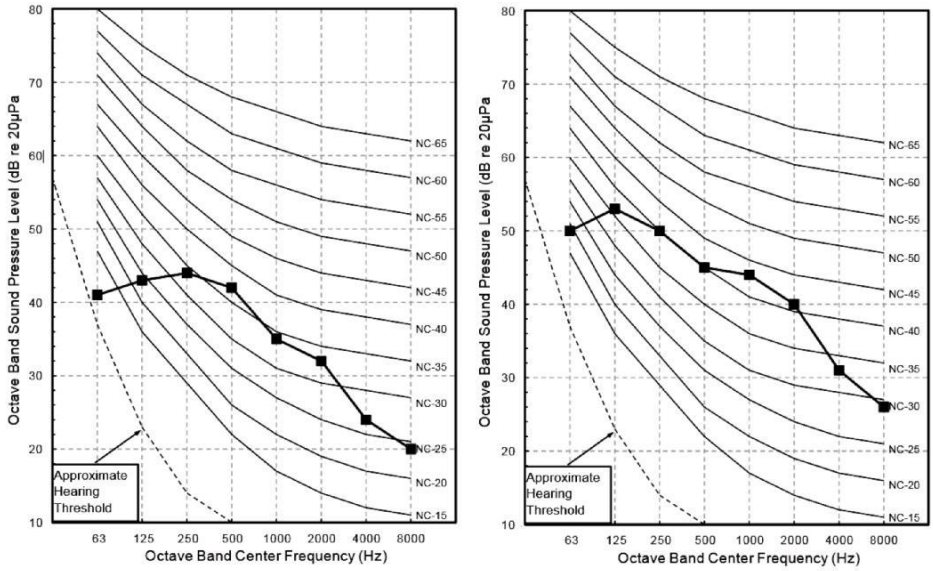
Model	Sound Levels[dB(A)±2]		
	H	M	L
YNEFXC036BAN--AX	44	42	40
YNEFXC042BAN--AX	44	41.5	39.5
YNEFXC048BAN--AX	52	50	48
YNEFXC055BAN--AX	52	50	48

Notes:

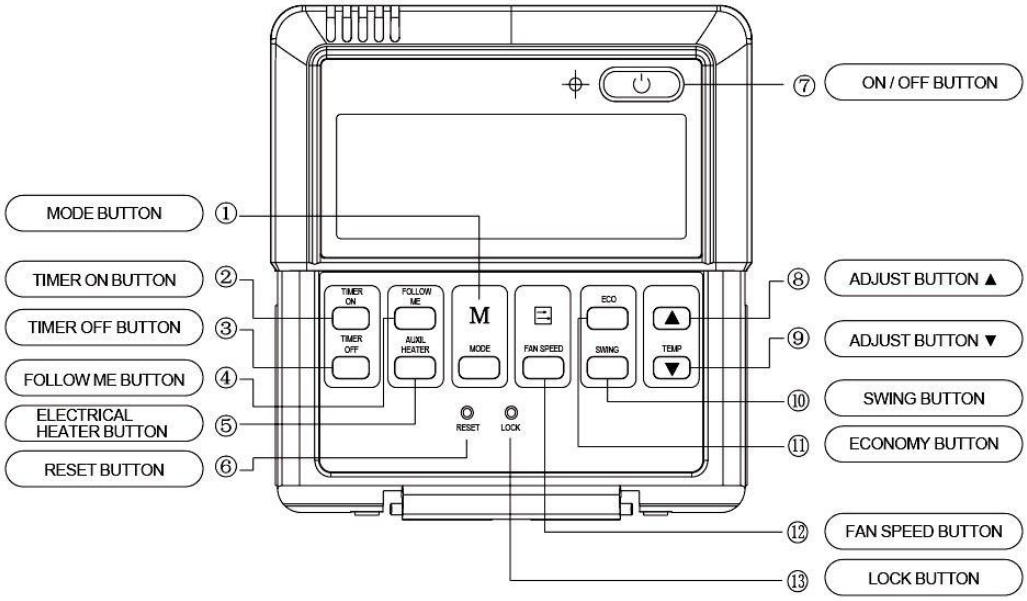
- Sound measured at 1.5m away from the centre of the unit.
- Data is valid at free field condition
- Data is valid at nominal operation condition
- Reference acoustic pressure OdB = 20μPa
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

Sound Pressure Level

YNEFXC036BAN--AX YNEFXC048BAN--AX
YNEFXC042BAN--AX YNEFXC055BAN--AX



Functions of Remote Controller



1. OPERATION MODE SELECTION BUTTON

- Used to select the operation mode.
- Auto Operation Mode.
- Cooling Operation Mode.
- Dry Operation Mode.
- Heating Operation Mode.(except cooling model)
- Fan Only Operation Mode.

2. TIMER ON BUTTON

Used to automatically turn on the air conditioner at a specified time.

3. TIMER OFF BUTTON

Used to automatically turn off the air conditioner at a specified time.

4. FOLLOW ME BUTTON

Allows the remote control to act as a remote thermostat and relay temperature information from its current location.

5. ELECTRIC HEATER BUTTON (OPTIONAL)

Used to switch on/off the auxiliary electric heater.

6. RESET BUTTON

Used to restore the system to its default settings.

7. ON/OFF BUTTON

Operation starts when this button is pressed, and stops when the button is pressed again.

8. SET TEMPERATURE UP BUTTON

Used to set the temperature when the desired temperature is obtained.

9. SET TEMPERATURE DOWN BUTTON

Used to set the temperature when the desired temperature is obtained.

10. SWING BUTTON

Used to start and stop the louvre movement and set the desired airflow direction.

11. ECONOMY BUTTON

Used to activate/deactivate ECONOMY mode, in which the unit maintains a comfortable temperature during sleeping hours.

12. FAN SPEED BUTTON

Used to select the fan speed.

13. LOCK BUTTON

Used to lock/unlock the current setting.

Unit Conversions

Cooling Capacity			
RT	Btu/h	kcal/h	W
1	12,000	3024.2	3516.7

Power		
HP	W	kW
1	746	0.746

Volume		
CMM	CFM	L/s
1.0	35.3	16.7

Temperature		
HP	W	kW
C = 5/9 (F-32); C is	temperature in °C, F	is temperature in °F

Length			
m	cm	mm	inch
1	100	1000	39.37

For more information about YORK® Ducted Split-Systems please contact your local Johnson Controls representative.

About Johnson Controls

Johnson Controls is a global technology and industrial leader serving customers in more than 150 countries. Since our invention of the first electric room thermostat in 1885, we've been committed to delivering innovative products that help the world run smoothly, smartly, simply and safely.

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YCDS-02-062016(R410A)

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