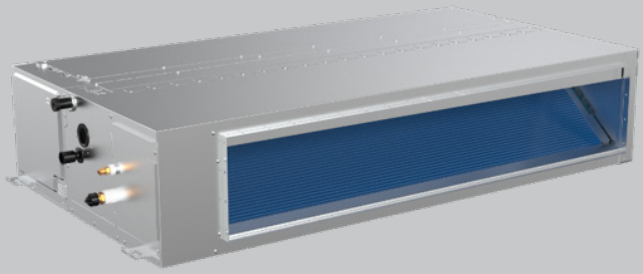
High static pressure duct

Direct expansion indoor unit for VRF

CN-3-XY D56-D560

TECHNICAL BULLETTIN



SIZE	56	71	80	90	112	125	140	160	200	224	252	280	335	400	450	560
COOLING CAPACITY kW	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	20.0	22.4	25.2	28.0	33.5	40.0	45.0	56.0
HEATING CAPACITY kW	6.3	8.0	9.0	10.0	12.5	14.0	16.0	18.0	22.5	25.0	26.0	31.5	38.0	45.0	56.0	63.0

MODEL			CN-3-XY D56	CN-3-XY D71	CN-3-XY D80	CN-3-XY D90
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	5.6	7.1	8.0	9.0
		kBtu/h	19.1	24.2	27.3	30.7
	Power input	W	159	159	159	196
Heating[2]	Capacity	kW	6.3	8.0	9.0	10.0
		kBtu/h	21.5	27.3	30.7	34.1
	Power input	W	159	159	159	196
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		3	3	3	3
	Tube pitch × row pitch	mm	18×10.72			
	Fin spacing	mm	1.35	1.35	1.35	1.5
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Ø5 Inner-groove			
	Dimensions (L×H×W)	mm	850×360×32.16	850×360×32.16	850×360×32.16	850×360×32.16
	Number of circuits		10	10	10	10
Air flow rate[3]		m^3/h	1360/1281/1201/1122/1043/963/884	1360/1281/1201/1122/1043/963/884	1360/1281/1201/1122/1043/963/884	1500/1413/1325/1238/1150/1063/975
External static pressure[4]		Pa	80 (0-250)			
Sound pressure level[5]		dB(A)	39/38/36/35/33/32/30	39/38/36/35/33/32/30	39/38/36/35/33/32/30	40/39/37/36/34/33/31
Sound power level		dB(A)	59/56/54/53/51/49/47	59/56/54/53/51/49/47	59/56/54/53/51/49/47	63/60/58/56/54/52/50
Unit	Net dimensions[6] (W×H×D)	mm	1050×299×750			
	Packed dimensions (W×H×D)	mm	1215×359×890			
	Net/Gross weight	kg	35/38.5	35/38.5	35/38.5	35/38.5
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Φ25			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

All specifications are measured at standard external static pressure

General technical data

MODEL			CN-3-XY D112	CN-3-XY D125	CN-3-XY D140	CN-3-XY D160
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	11.2	12.5	14.0	16.0
		kBtu/h	38.2	42.7	47.8	54.6
	Power input	W	248	252	284	339
Heating[2]	Capacity	kW	12.5	14.0	16.0	18.0
		kBtu/h	42.7	47.8	54.6	61.4
	Power input	W	248	252	284	339
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		2	3	3	3
	Tube pitch × row pitch	mm	18×10.72			
	Fin spacing	mm	1.35	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Ø5 Inner-groove			
	Dimensions (L×H×W)	mm	1200×360×21.44	1200×360×32.16	1200×360×32.16	1200×360×32.16
	Number of circuits		10	10	10	10
Air flow rate[3]		m^3/h	2140/2015/1890/1766/1641/1516/1391	2150/2025/1899/1774/1649/1523/1398	2400/2260/2120/1980/1840/1700/1560	2600/2448/2297/2145/1993/1842/1690
External static pressure[4]		Pa	80 (0-250)	100 (0-250)		
Sound pressure level[5]		dB(A)	41/40/38/37/35/34/32	41/40/39/37/36/35/33	43/42/40/39/37/36/34	44/43/41/40/38/37/35
Sound power level		dB(A)	63/61/59/57/56/54/52	66/64/62/60/58/56/54	67/64/62/60/58/57/55	68/66/64/62/60/59/57
Unit	Net dimensions[6] (W×H×D)	mm	1400×299×750			
	Packed dimensions (W×H×D)	mm	1565×359×890			
	Net/Gross weight	kg	44.5/48.5	46.5/50.5	46.5/50.5	46.5/50.5
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Ø9.52/Ø15.9			
	Drain pipe	mm	OD Ø25			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

All specifications are measured at standard external static pressure

General technical data

MODEL			CN-3-XY D200	CN-3-XY D224	CN-3-XY D252	CN-3-XY D280
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	20.0	22.4	25.2	28.0
		kBtu/h	68.3	76.5	86.0	95.6
	Power input	W	780	780	780	780
Heating[2]	Capacity	kW	22.5	25.0	26.0	31.5
		kBtu/h	76.8	85.3	88.7	107.5
	Power input	W	780	780	780	780
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		3	3	3	3
	Tube pitch × row pitch	mm	21×13.37			
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Ø7 Inner-groove			
	Dimensions (L×H×W)	mm	1050×588×40.1	1050×588×40.1	1050×588×40.1	1050×588×40.1
	Number of circuits		14	14	14	14
Air flow rate[3]		m^3/h	4700/4387/4073/3760 /3447/3133/2820	4700/4387/4073/3760 /3447/3133/2820	4700/4387/4073/3760 /3447/3133/2820	4700/4387/4073/3760 /3447/3133/2820
External static pressure[4]		Pa	200 (0-400)			
Sound pressure level[5]		dB(A)	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42
Sound power level		dB(A)	74/72/70/68/66/64/62	74/72/70/68/66/64/62	74/72/70/68/66/64/62	74/72/70/68/66/64/62
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900			
	Packed dimensions (W×H×D)	mm	1530×730×1060			
	Net/Gross weight	kg	125/150	125/150	125/150	125/150
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Ø9.52/Ø19.1		Ø12.7/Ø22.2	
	Drain pipe	mm	OD Ø32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

All specifications are measured at standard external static pressure

General technical data

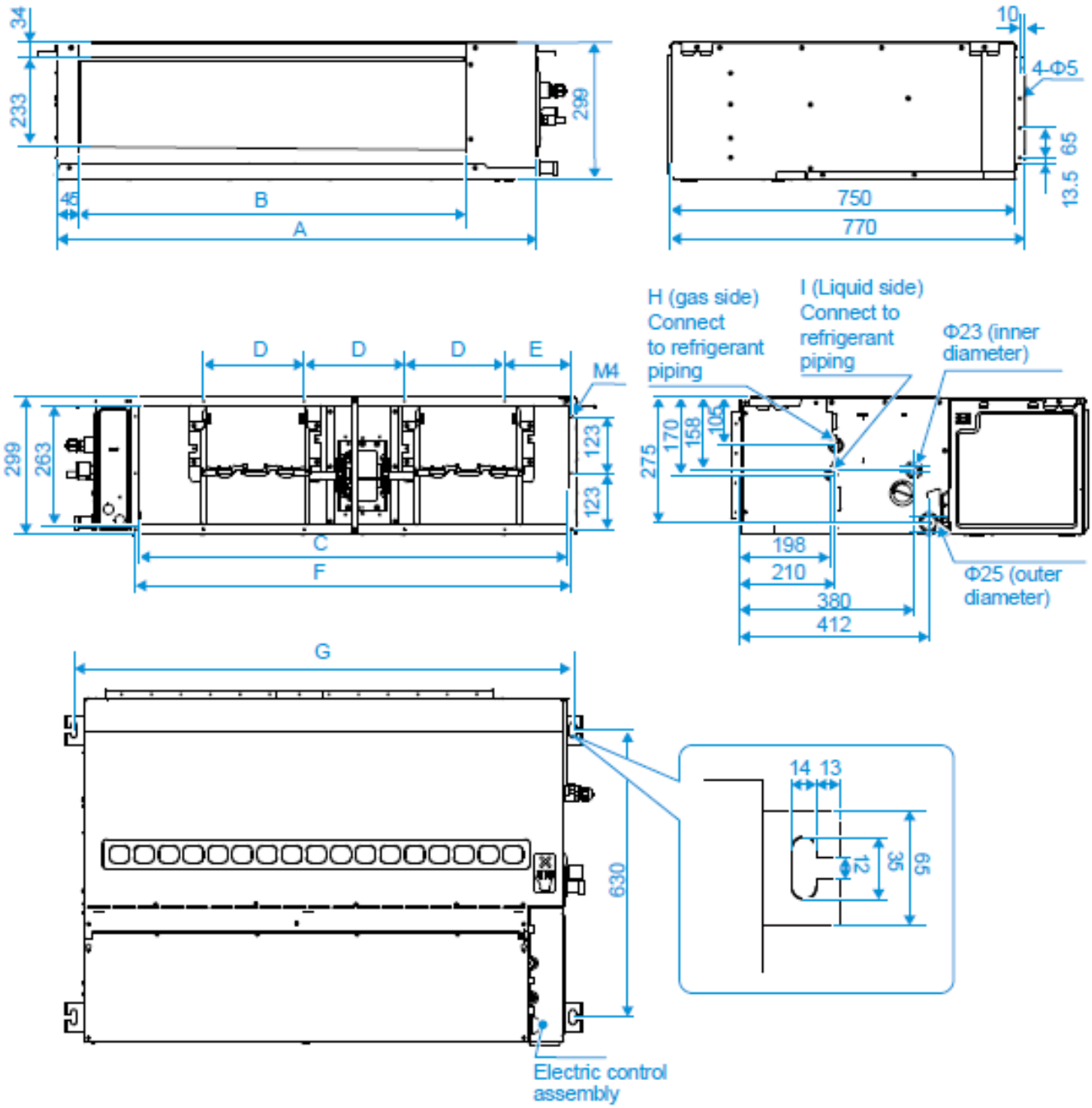
MODEL			CN-3-XY D335	CN-3-XY D400	CN-3-XY D450	CN-3-XY D560
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	33.5	40.0	45.0	56.0
		kBtu/h	114.3	136.5	153.6	191.1
	Power input	W	810	1850	1850	2030
Heating[2]	Capacity	kW	38.0	45.0	56.0	63.0
		kBtu/h	129.7	153.6	191.1	215.0
	Power input	W	810	1850	1850	2030
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		4	3	3	4
	Tube pitch × row pitch	mm	21×13.37			
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Ø7 Inner-groove			
	Dimensions (L×H×W)	mm	1050×588×42.7	1600×588×40.1	1600×588×40.1	1600×588×42.7
	Number of circuits		14	14	14	14
Air flow rate[3]		m^3/h	4700/4387/4073/3760 /3447/3133/2820	7500/7000/6500/6000 /5500/5000/4500	7500/7000/6500/6000 /5500/5000/4500	8400/7840/7280/6720 /6160/5600/5040
External static pressure[4]		Pa	200 (0-400)		300 (0-400)	
Sound pressure level[5]		dB(A)	52/51/49/48/46/44/43	58/56/54/52/50/49/48	58/56/54/52/50/49/48	59/58/56/54/53/51/49
Sound power level		dB(A)	74/72/70/68/66/63/61	79/78/76/74/72/70/67	79/78/76/74/72/70/67	81/80/77/75/73/71/69
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900		1850×580×900	
	Packed dimensions (W×H×D)	mm	1530×730×1060		2080×730×1060	
	Net/Gross weight	kg	128/153	166/204	166/204	170/208
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Ø12.7/Ø25.4		Ø15.9/Ø28.6	
	Drain pipe	mm	OD Ø32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

All specifications are measured at standard external static pressure

Model D56 ÷ D160 (unit: mm)

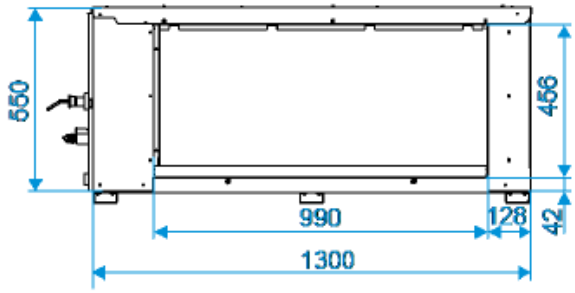


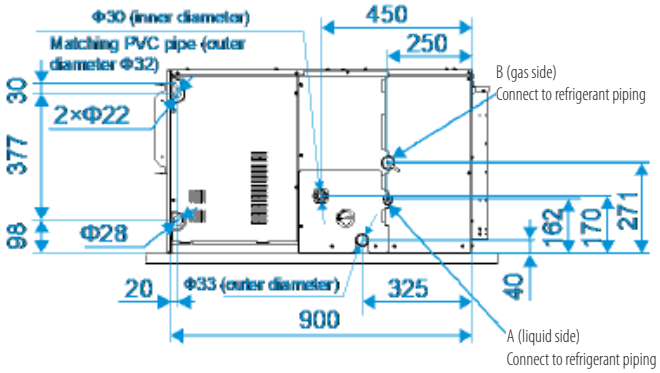
MODEL	A	B	C	D	E	F	G	H	I
D56	1050	850	940	220	146	956	1095	Φ12.7	Φ6.35
D71 ÷ D90	1050	850	940	220	146	956	1095	Φ15.9	Φ9.52
D112 ÷ D160	1400	1200	1290	220	213	1306	1445	Φ15.9	Φ9.52

Dimensions

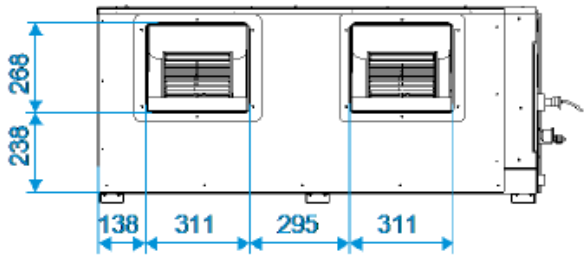
Model D200 ÷ D335 (unit: mm)

Appearance and dimensions of the air inlets, piping, drain pipes, power cable hole and communication wire hole:

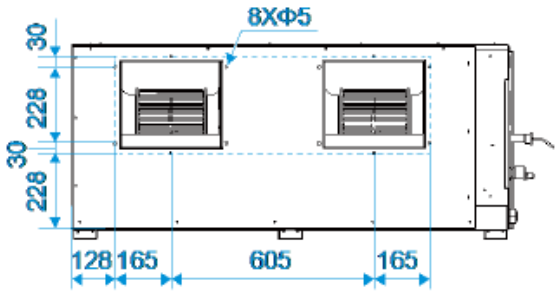




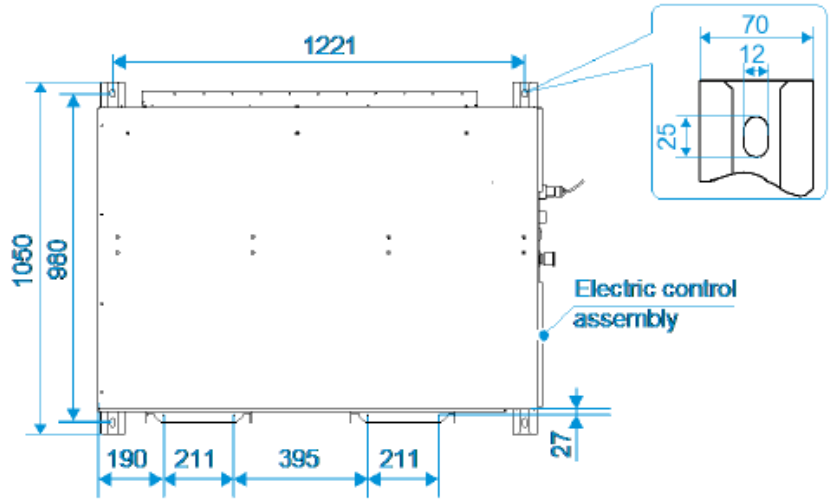
Dimensions of the air outlets:

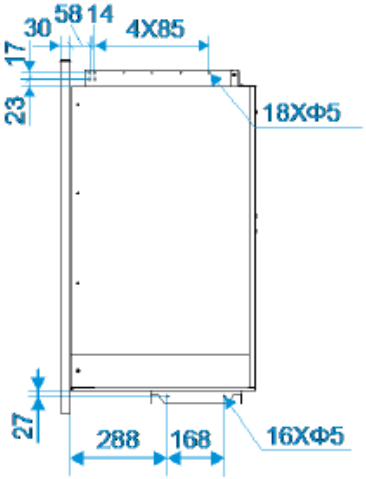


Dimensions of the air duct installation ho_ after the air outlet flange is removed:



Dimensions of lugs and the screw hole of air outet/inlet flange:

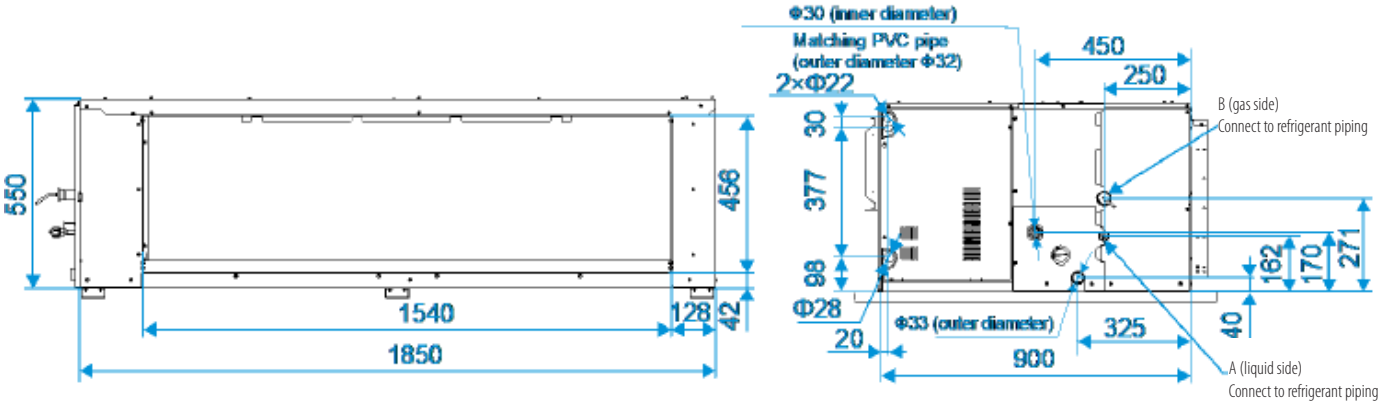




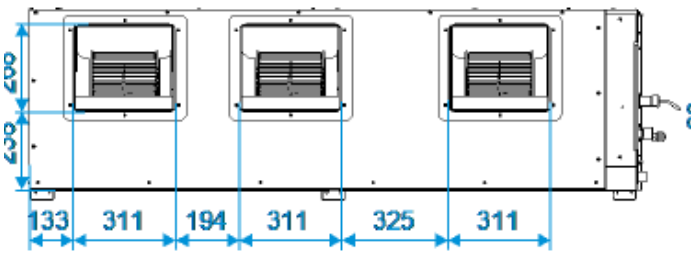
MODEL	A	B
D200 ÷ D224	Φ9.52	Φ19.1
D252 ÷ D280	Φ12.7	Φ22.2
D335	Φ12.7	Φ25.4

Model D400 ÷ D560 (unit: mm)

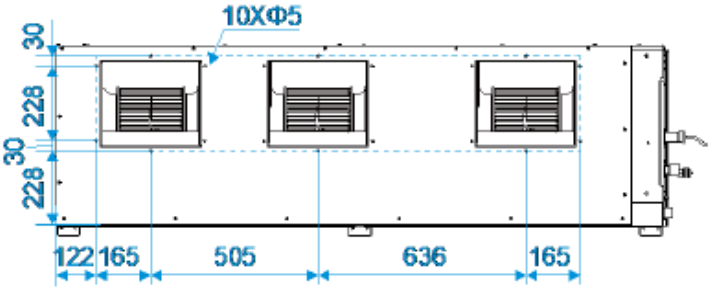
Appearance and dimensions of the air inlets, piping, drain pipes, power cable hole and communication wire hole:



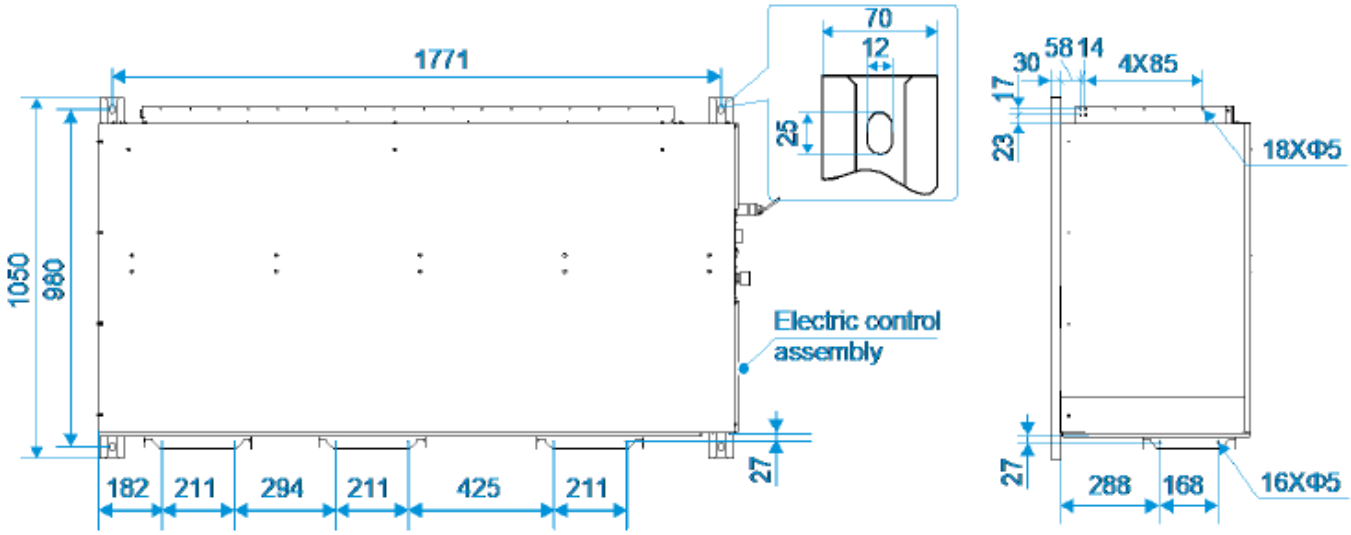
Dimensions of the air outlets:



Dimensions of the air duct installation hole after the air outlet flange is removed:



Dimensions of lugs and the screw hole of air outlet/inlet flange:



MODEL	A	B
400	Φ12.7	Φ25.4
D450 ÷ D560	Φ15.9	Φ28.6

Unit Placement

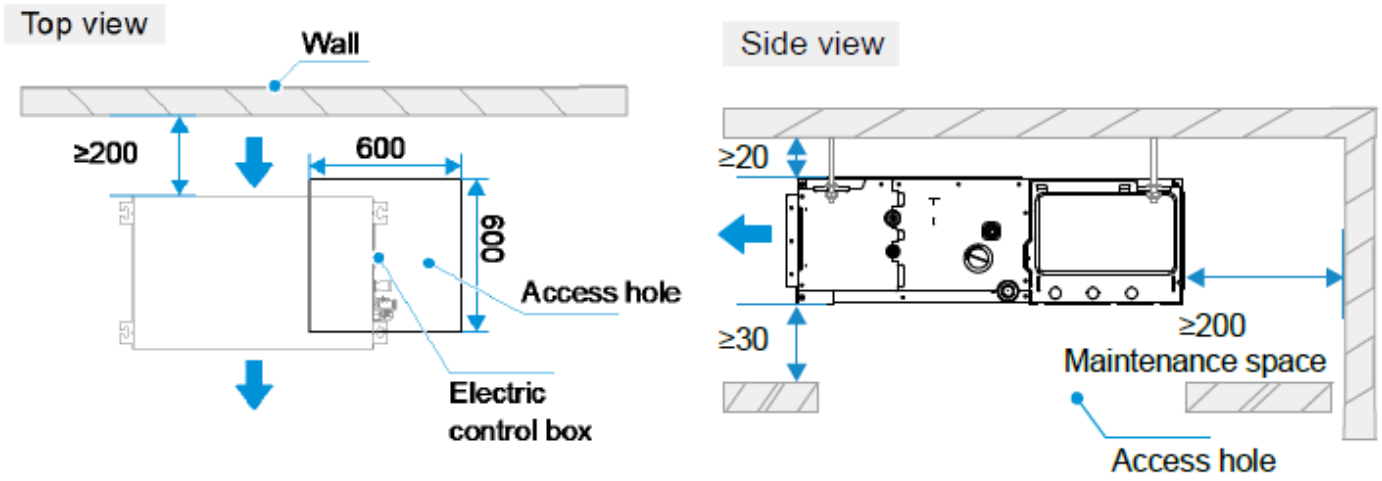
Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
  - Where exposure to direct radiation from a high-temperature heat source or to interference from a source of electromagnetic radiation may occur.
  - Where dust or dirt may affect heat exchangers.
  - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
  - Where exposure to salinity may occur, such as seaside locations.
  - Where highly flammable materials are present.
  - Where exposure to oily air may occur, such as a kitchen.
  - Where exposure to very high humidity may occur, such as a laundry
- Units should be installed in positions where:
  - The ceiling is horizontal and is able to bear the unit's weight.
  - There are no obstructions that could impede the airflow into and out of the unit.
  - The airflow out of the unit can reach throughout the room.
  - There is sufficient space for access during installation, servicing and maintenance.
  - The refrigerant piping and drain piping can be easily connected to the refrigerant piping and drain piping systems.
  - Short-circuit ventilation (where outlet air returns quickly to a unit's air inlet) will not occur.

Space Requirements

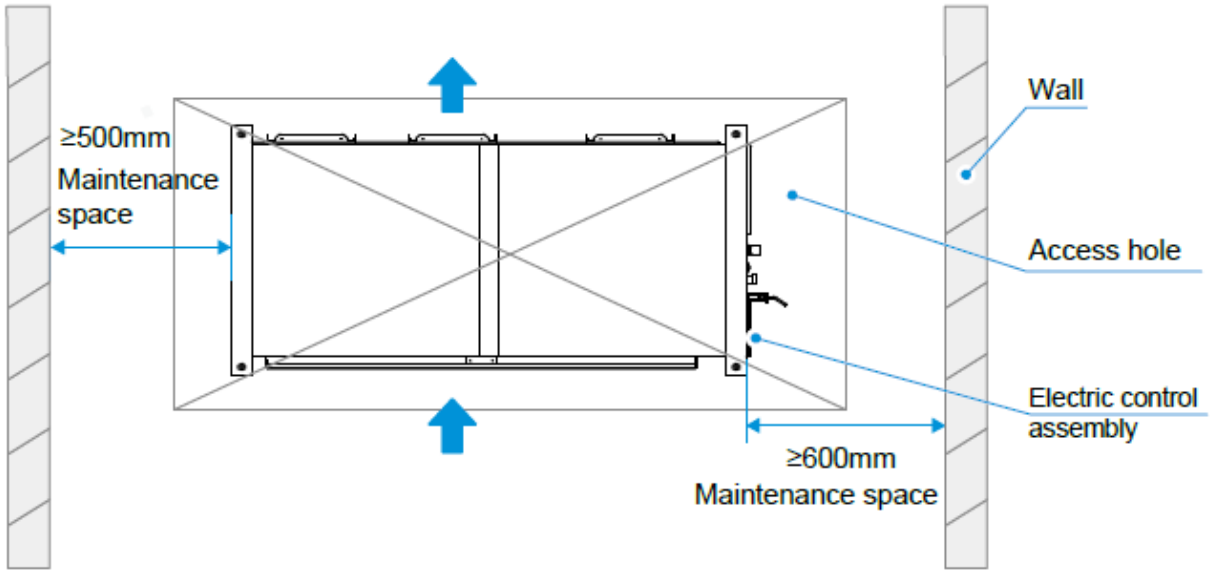
Model: D56 ÷ D160



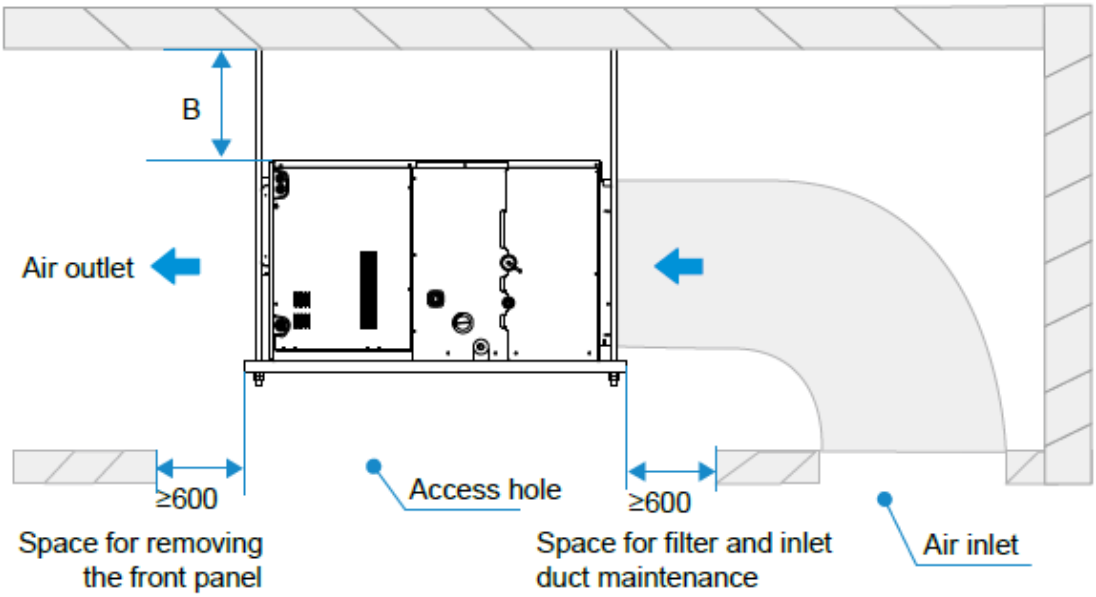
(unit: mm)

Model: D200 ÷ D560

Bottom view



Side view

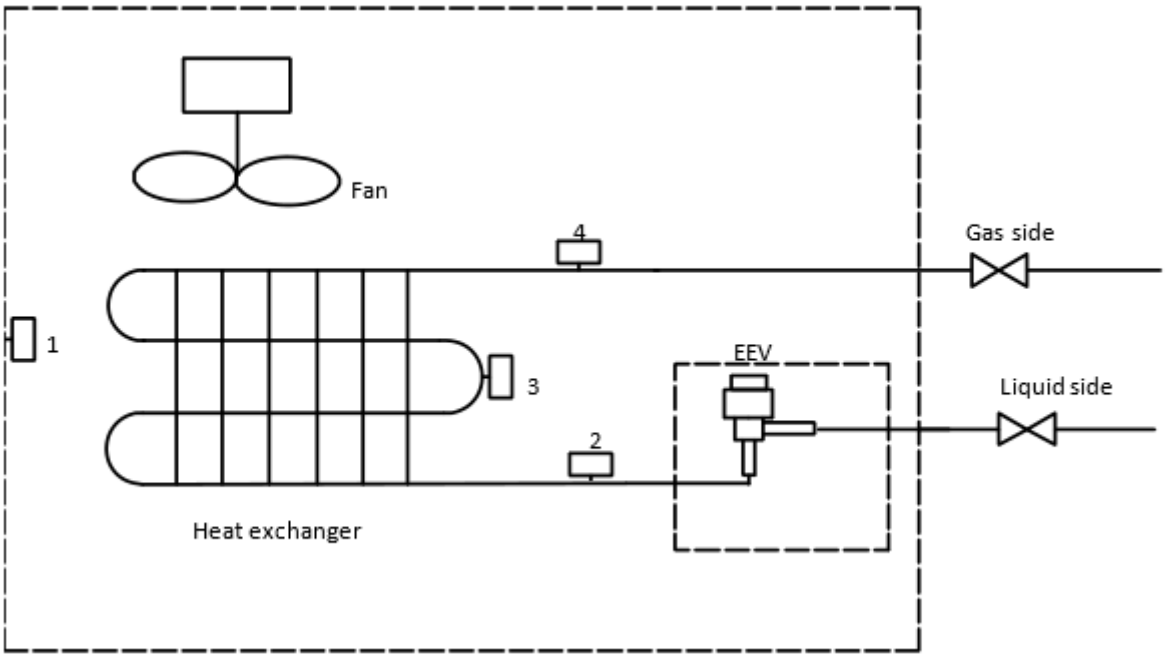


(unit: mm)

Notes for installers and service engineers

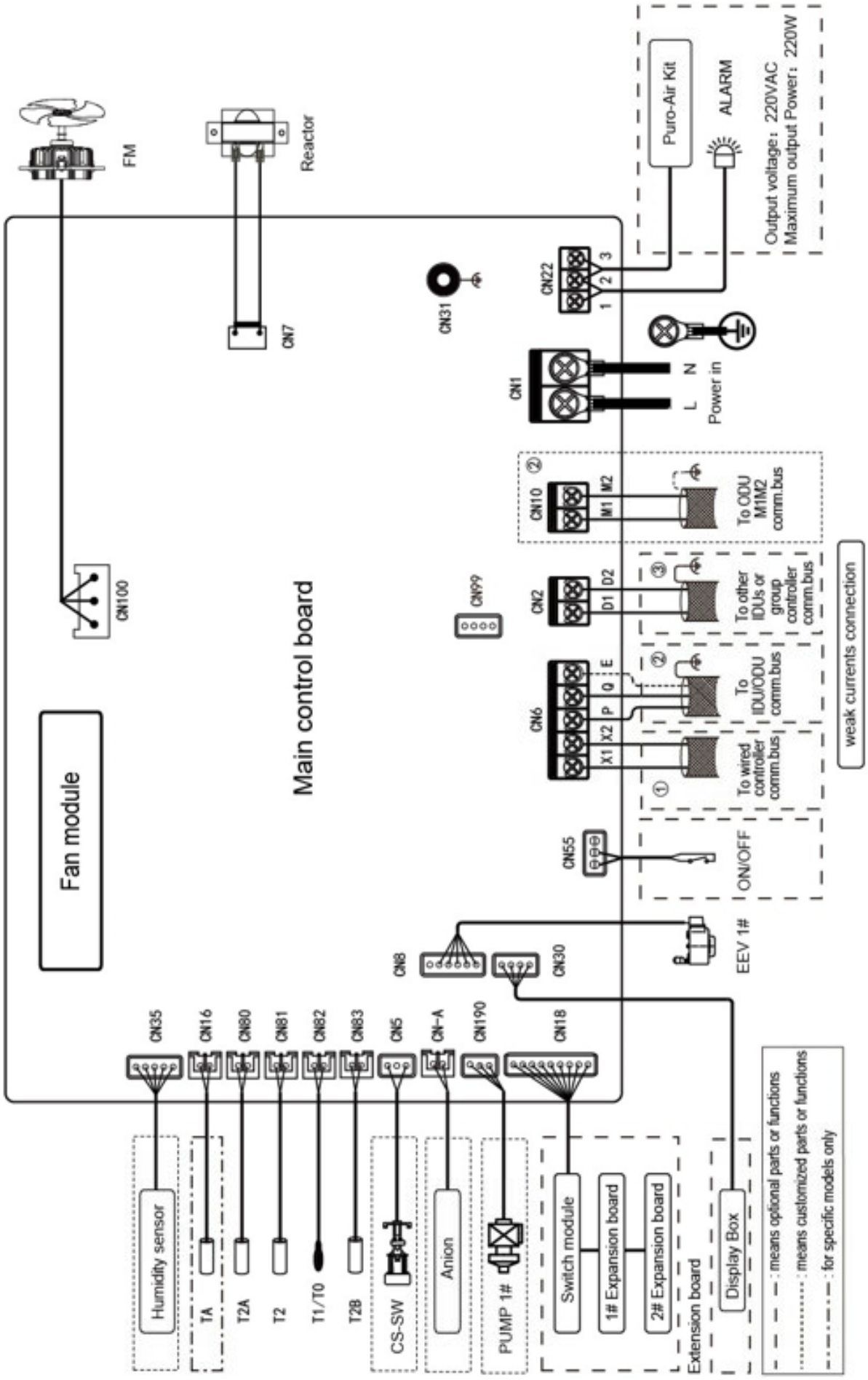
1. The distance between the indoor unit and the roof (B) shall be greater than 50mm to install the air duct.
2. The motor and fan can be maintained from the indoor unit top or the air outlet. If maintenance is performed from the indoor unit top, the distance between the indoor unit and the roof must be larger than 600mm. If maintenance is performed from the air outlet, the distance between the indoor unit and the roof must be larger than 50mm, with a minimum distance of 600mm allowed for removing the front panel.

Piping Diagram



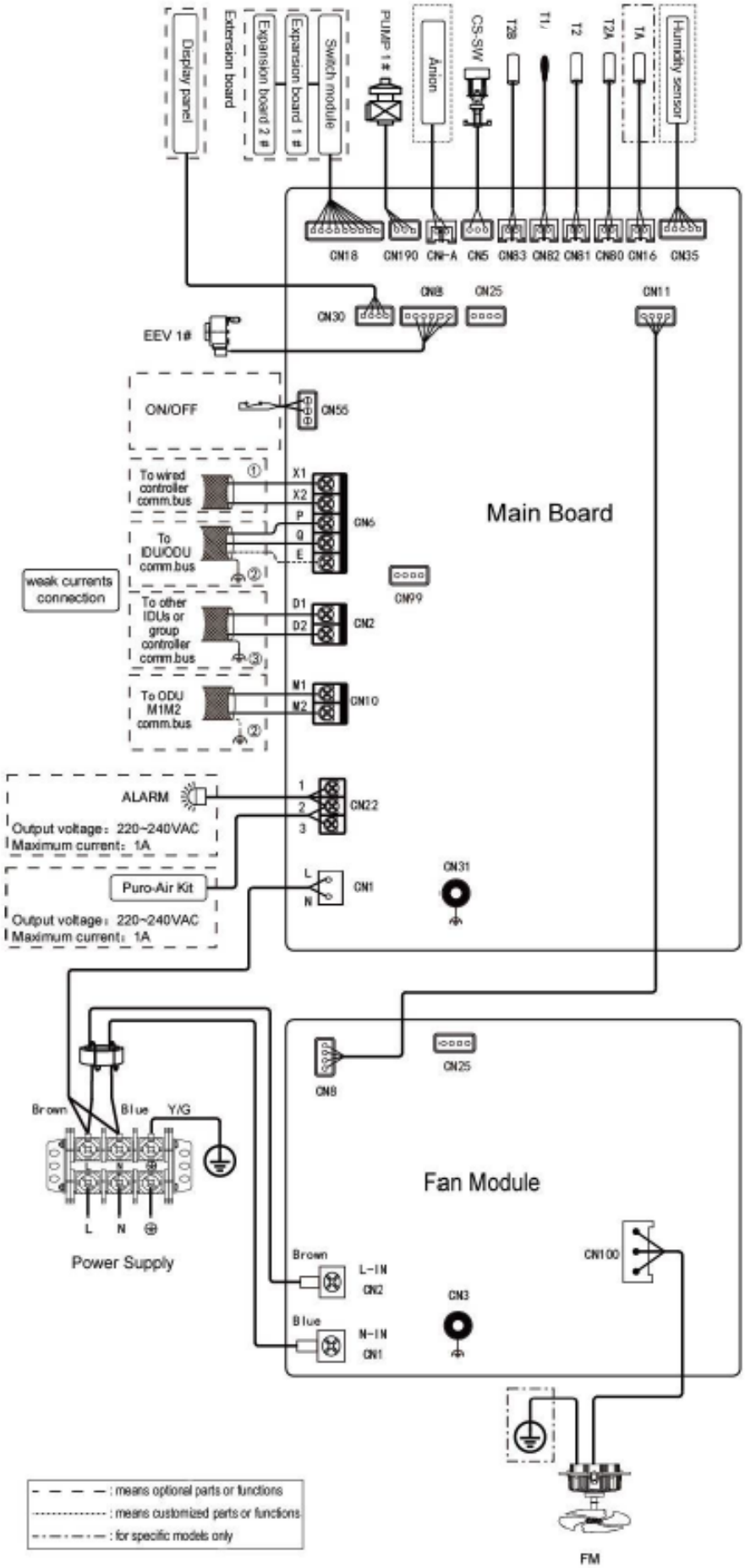
Legend		
1	T1	Inlet Air Temp. Sensor
2	T2A	Liquid Pipe Temp. Sensor
3	T2	Middle Pipe Temp. Sensor
4	T2B	Gas Pipe Temp. Sensor
5	EEV	Electronic Expansion Valve
6	FAN	DC Fan Motor

Model D56 ÷ D160



Wiring Diagram

Model D200 ÷ D560



Legend	
Code	Name
XS XP	connectors
TA	Steam pipe temperature sensor*
CS-SW	Water level switch
EEV	Electronic expansion valve
Anion	Sterilization module

T2A	Liquid Pipe Temp. Sensor
T2	Middle Pipe Temp. Sensor
T1	Inlet Air Temp. Sensor
T2B	Gas Pipe Temp. Sensor
ALARM	Alarm output
FM	DC Fan motor
ON/OFF	Remote on/off

Notes for installers and service engineer

Caution

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals – loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the
- electric control box cover risks fire or electric shock.
- The dotted lines indicate the field wiring or optional function.
- X1X2 communication ports can be connected to the wired controller.
- D1D2 communication ports are used for group control communication. When connecting the group controller, the D1D2 port of the indoor units that are to be group controlled must be connected in daisy chain, and the group controller must be connected to the X1X2 port of one of the indoor units in the group control, and set to group control mode. In addition, D1D2 communication ports can also be connected to the central controller.

Capacity Tables

Cooling Capacity Table

MODEL	Indoor air temperature (°C WB/DB)													
	14/20		16/23		18/26		19/27		20/28		22/30		24/32	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
D56	5.0	4.8	5.3	4.8	5.6	4.9	5.6	4.7	5.7	4.6	5.8	4.3	6.0	4.1
D71	6.3	6.0	6.7	6.1	7.0	6.1	7.1	6.0	7.2	5.8	7.4	5.5	7.6	5.2
D80	7.1	6.8	7.6	6.9	7.9	6.9	8.0	6.7	8.1	6.5	8.3	6.1	8.5	5.8
D90	8.0	7.5	8.5	7.6	8.9	7.7	9.0	7.5	9.1	7.2	9.4	6.9	9.6	6.6
D112	9.9	9.3	10.6	9.5	11.1	9.6	11.2	9.3	11.3	9.0	11.6	8.5	11.9	8.1
D125	11.0	10.1	11.8	10.4	12.4	10.5	12.5	10.2	12.6	9.9	12.9	9.4	13.3	9.0
D140	12.4	11.3	13.2	11.6	13.8	11.7	14.0	11.4	14.2	11.1	14.5	10.5	14.9	10.1
D160	14.2	13.1	15.1	13.3	15.8	13.5	16.0	13.1	16.2	12.7	16.6	12.1	17.0	11.7
D200	17.7	16.1	18.9	16.5	19.8	16.8	20.0	16.3	20.2	15.8	20.8	15.1	21.2	14.4
D224	19.8	18.0	21.1	18.5	22.1	18.7	22.4	18.3	22.6	17.7	23.2	16.8	23.7	16.1
D252	22.3	20.3	23.8	20.8	24.9	21.1	25.2	20.5	25.5	19.9	26.1	18.9	26.7	18.1
D280	24.8	22.6	26.4	23.1	27.6	23.4	28.0	22.8	28.3	22.1	29.0	21.0	29.7	20.1
D335	29.6	26.9	31.6	27.6	33.1	28.0	33.5	27.3	33.8	26.4	34.7	25.1	35.5	24.1
D400	35.4	32.1	37.7	32.9	39.5	33.4	40.0	32.5	40.4	31.5	41.5	30.0	42.4	28.7
D450	39.8	36.1	42.4	37.0	44.4	37.5	45.0	36.6	45.4	35.4	46.6	33.7	47.6	32.2
D560	49.5	45.5	52.8	46.5	55.2	47.0	56.0	45.8	56.5	44.3	58.0	42.1	59.3	40.8

Abbreviations:
TC: Total capacity (kW)
SC: Sensible capacity(kW)

Notes:
1.Shaded cells indicate rating condition.

Hesting Capacity Table

MODEL	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	SHC	SHC	SHC	SHC	SHC	SHC
D56	6.7	6.6	6.3	6.1	5.9	5.5
D71	8.5	8.4	8.0	7.8	7.5	7.0
D80	9.5	9.5	9.0	8.7	8.5	7.8
D90	10.6	10.5	10.0	9.7	9.4	8.8
D112	13.3	13.1	12.5	12.1	11.8	10.9
D125	14.8	14.7	14.0	13.6	13.2	12.2
D140	17.0	16.8	16.0	15.5	15.0	13.9
D160	19.1	18.9	18.0	17.5	16.9	15.7
D200	23.9	23.6	22.5	21.8	21.2	19.6
D224	26.5	26.3	25.0	24.3	23.5	21.8
D252	27.6	27.3	26.0	25.2	24.4	22.6
D280	33.4	33.1	31.5	30.6	29.6	27.4
D335	40.3	39.9	38.0	36.9	35.7	33.1
D400	47.7	47.3	45.0	43.7	42.3	39.2
D450	59.4	58.8	56.0	54.3	52.6	48.7
D560	66.8	66.2	63.0	61.1	59.2	54.8

Abbreviations:
SHC: Sensible heating capacity(kW)
Notes:
1.Shaded cells indicate rating condition

Electrical characteristics

MODEL	Power supply						Indoor fan motors	
	Hz	Volts (V)	Min. volts	Max. volts	MCA (A)	MFA (A)	Rated motor output (W)	FLA (A)
D56	50	220-240	198	264	2.33	15	240	1.86
D71	50	220-240	198	264	2.33		240	1.86
D80	50	220-240	198	264	2.33		240	1.86
D90	50	220-240	198	264	2.46		240	1.97
D112	50	220-240	198	264	3.34		560	2.67
D125	50	220-240	198	264	3.38		560	2.70
D140	50	220-240	198	264	3.75		560	3.00
D160	50	220-240	198	264	4.13		560	3.30
D200	50	220-240	198	264	8.19	30	920	6.55
D224	50	220-240	198	264	8.19		920	6.55
D252	50	220-240	198	264	8.19		920	6.55
D280	50	220-240	198	264	8.19		920	6.55
D335	50	220-240	198	264	8.31		920	6.65
D400	50	220-240	198	264	12.98		2300	10.38
D450	50	220-240	198	264	12.98		2300	10.38
D560	50	220-240	198	264	15.49		2300	12.39

Abbreviations:
MCA: Min. Circuit Amps. (A), which is used to select the minimum circuit size to ensure safe operation over a long period of time.
MFA: Max. Fuse Amps. (A), which is used to select the circuit breaker.
FLA: Full Load Amps. (A), which is the full load current of the indoor fan motor (reliable operation at the fastest speed setting).

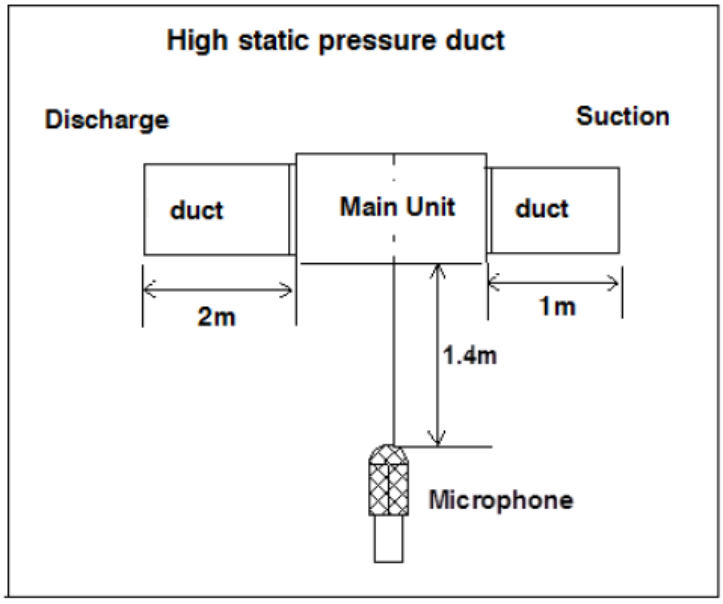
Notes:
Voltage range: Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
Maximum allowable voltage variation between phases is 2%.
Selection wire size based on the value of MCA.
MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

Overall

Model	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
D56	39	38	36	35	33	32	30
D71	39	38	36	35	33	32	30
D80	39	38	36	35	33	32	30
D90	40	39	37	36	34	33	31
D112	41	40	38	37	35	34	32
D125	41	40	39	37	36	35	33
D140	43	42	40	39	37	36	34
D160	44	43	41	40	38	37	35
D200	51	50	48	46	44	43	42
D224	51	50	48	46	44	43	42
D252	51	50	48	46	44	43	42
D280	51	50	48	46	44	43	42
D335	52	51	49	48	46	44	43
D400	58	56	54	52	50	49	48
D450	58	56	54	52	50	49	48
D560	59	58	56	54	53	51	49

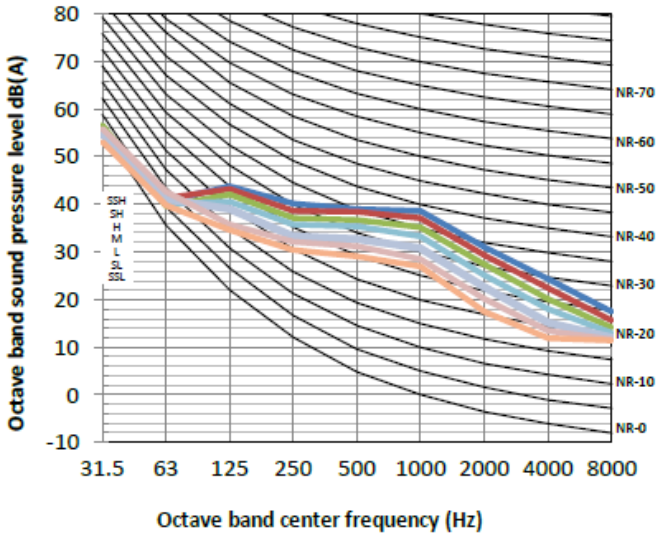
Notes:
Sound pressure levels are measured 1.4m below the unit in an anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise

Sound pressure level measurement

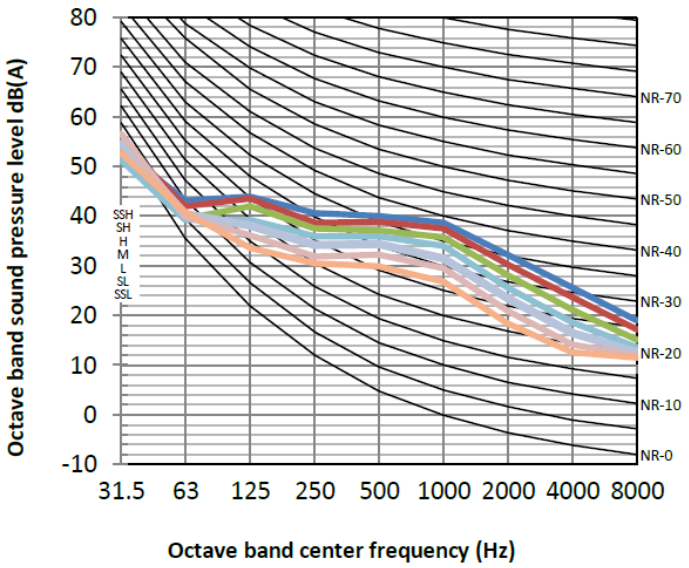


Octave band levels

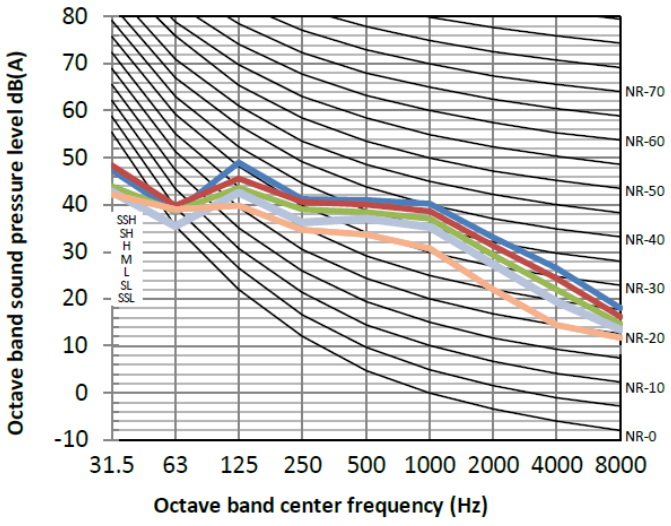
CN-3-XY D56 / D71 / D80



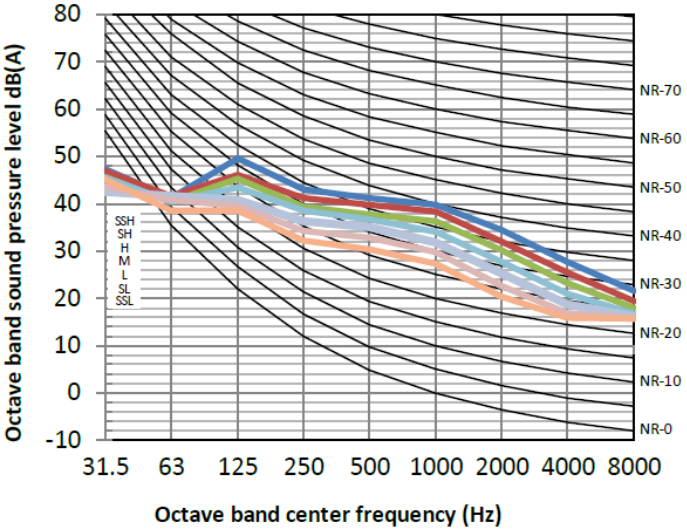
CN-3-XY D90



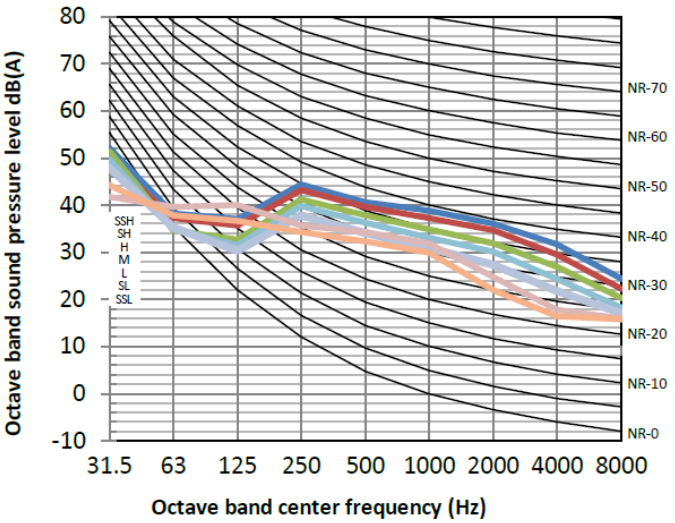
CN-3-XY D112



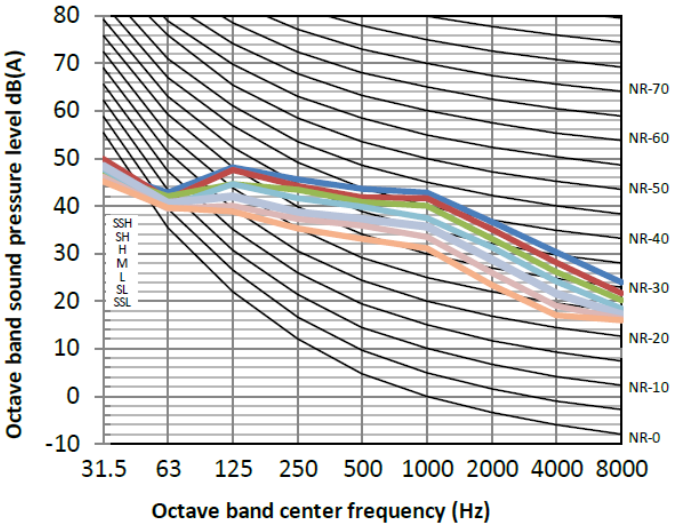
CN-3-XY D125



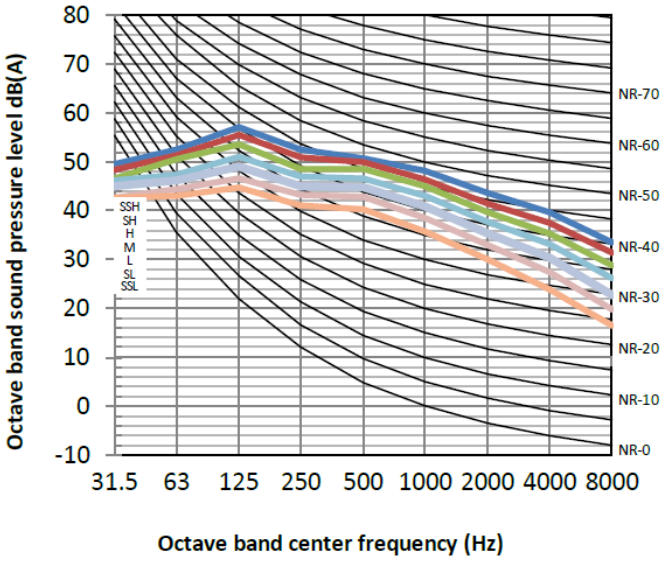
CN-3-XY D140



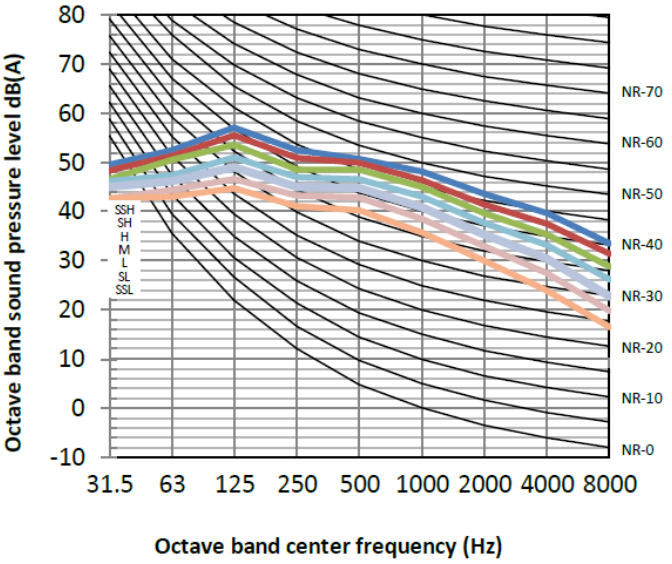
CN-3-XY D160



CN-3-XY D200

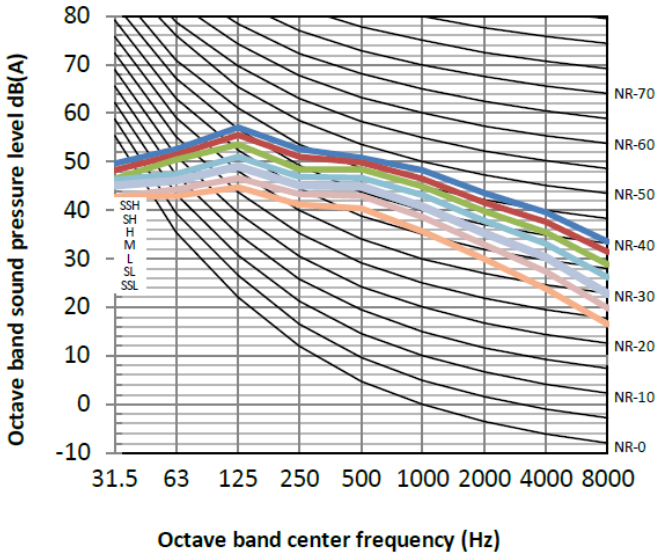


CN-3-XY D224

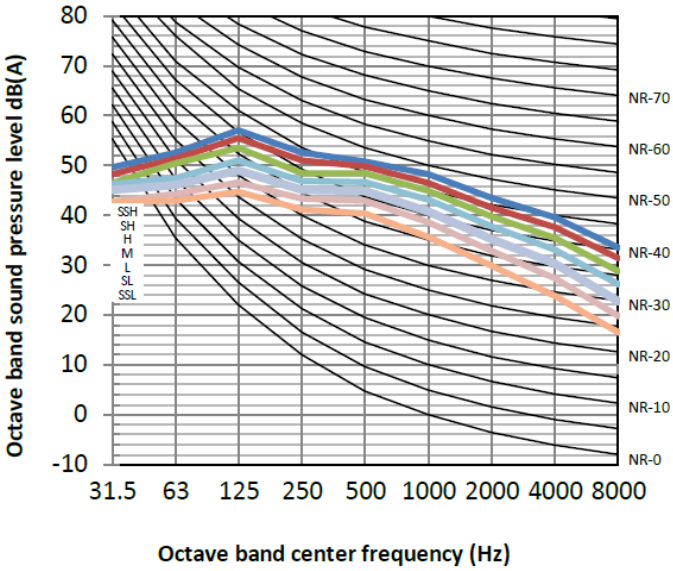


Octave band levels

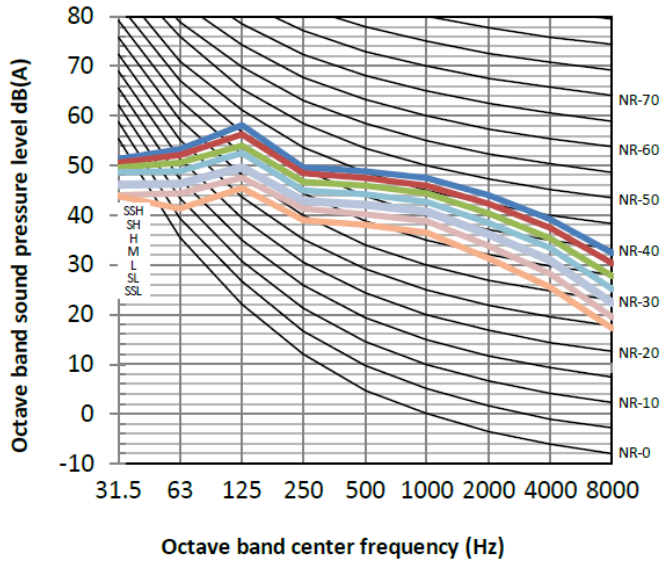
CN-3-XY D252



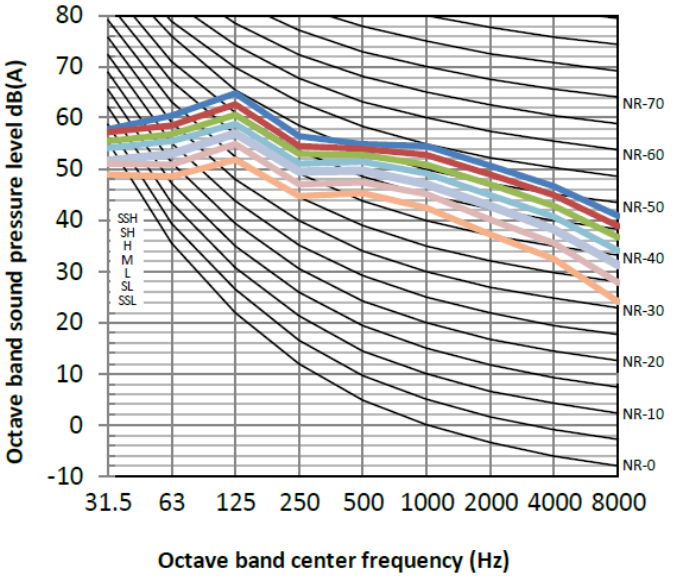
CN-3-XY D280



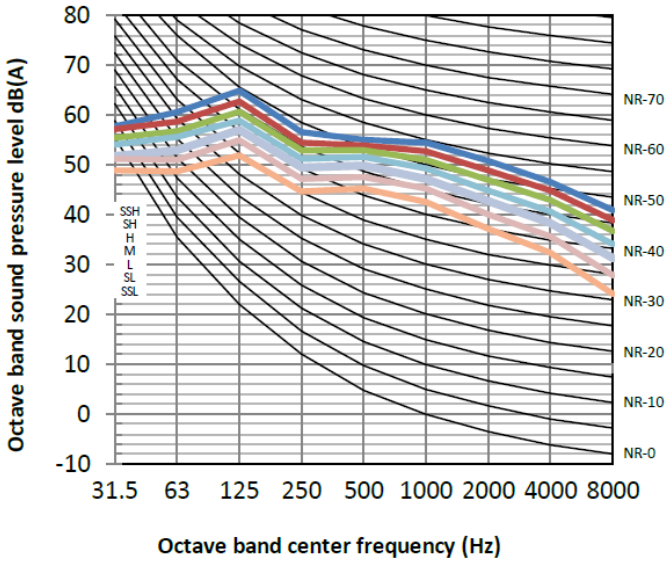
CN-3-XY D335



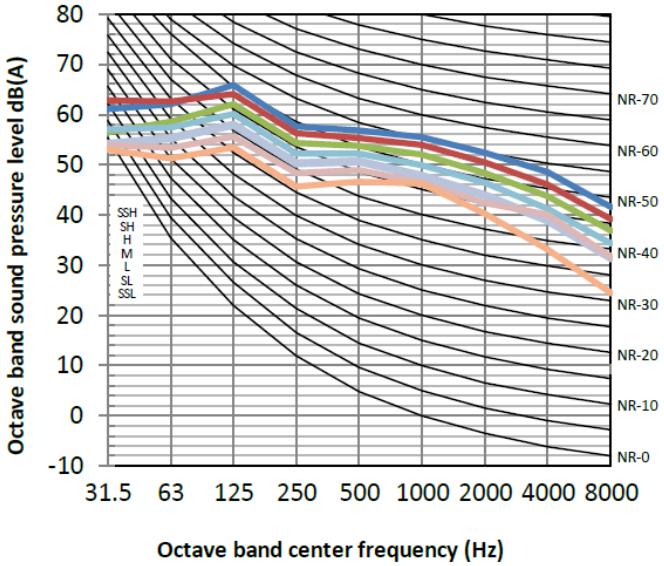
CN-3-XY D400



CN-3-XY D450



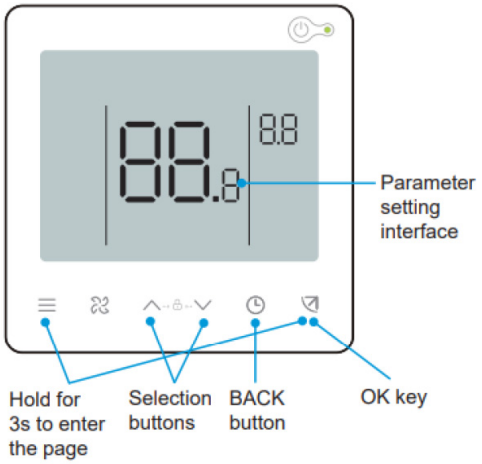
CN-3-XY D560



Fan perfomance

How to switch between Constant Airflow mode and Constant Speed mode

1. In the main interface, press " ≡ " +" ⌂ " for 3 seconds at the same time, and the main interface will display "CC". Press the "▲" and "▼" to select the indoor unit ("n00-n63" is displayed, and the last two digits are the indoor unit addresses). Press the " ⌂ " to enter the parameter setting interface, and "n00" will be displayed.
2. When "n00" is displayed, press the " " to enter the static pressure setting. Use the "▲" and "▼" keys to adjust to the demand parameter values, and press the " ⌂ " to confirm.
3. Press the " ◷ " button to return to the previous menu and exit the parameter setting. Parameter setting will also exit after 60 s of no operation



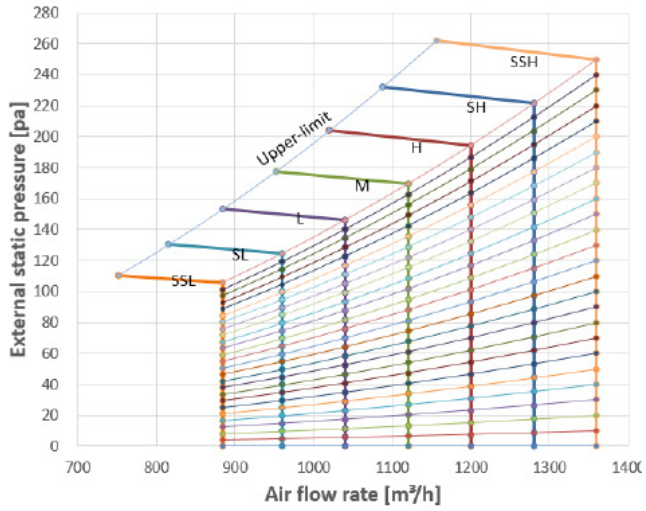
Mode setting

First level menu	Second level menu	Description	Default
N30	00	Constant Speed	-
	01	Constant Airflow	✓

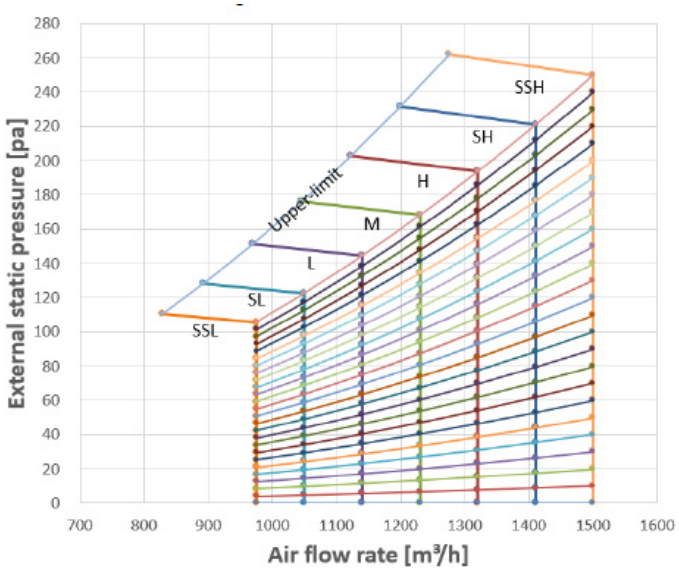
Notes:
1. The above is only an example. If you choose other controllers, please refer to their instructions for setting.

Fan performance diagram

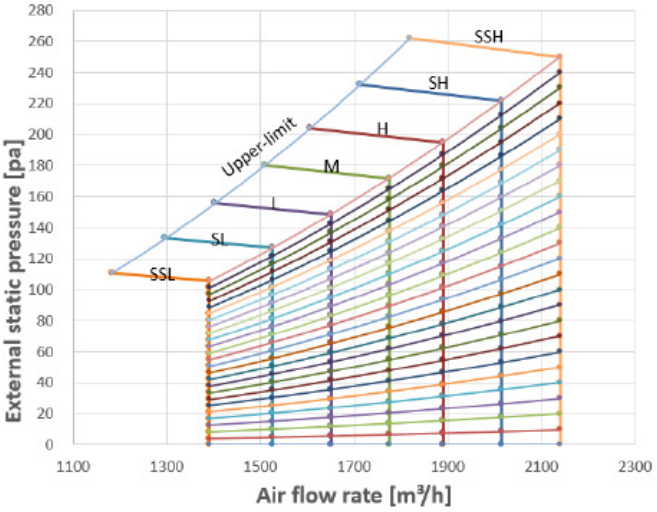
CN-3-XY D56 / D71 / D80



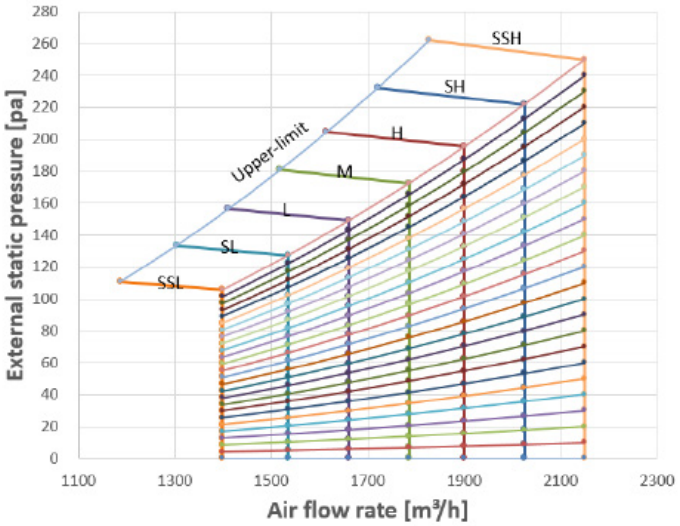
CN-3-3XY D90



CN-3-XY D112

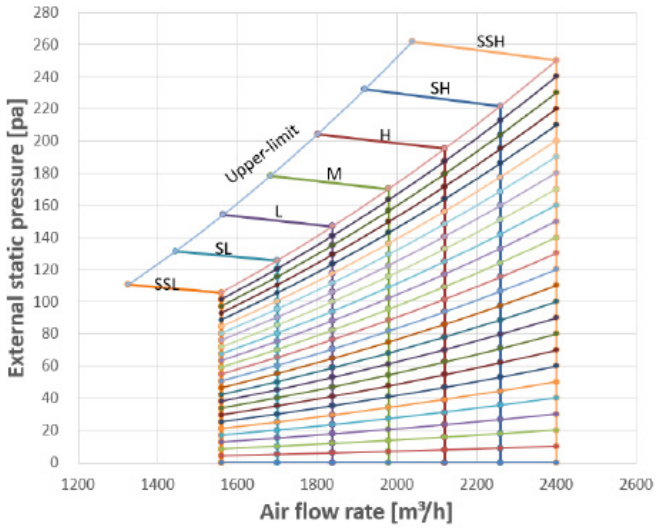


CN-3-XY D125

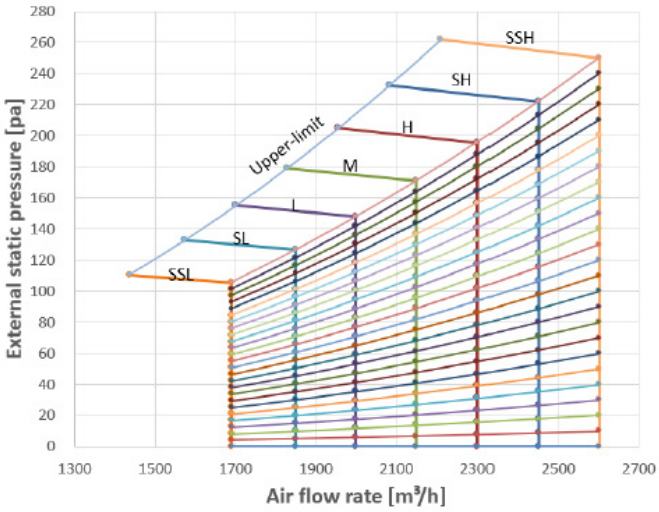


Costant airfloow mode

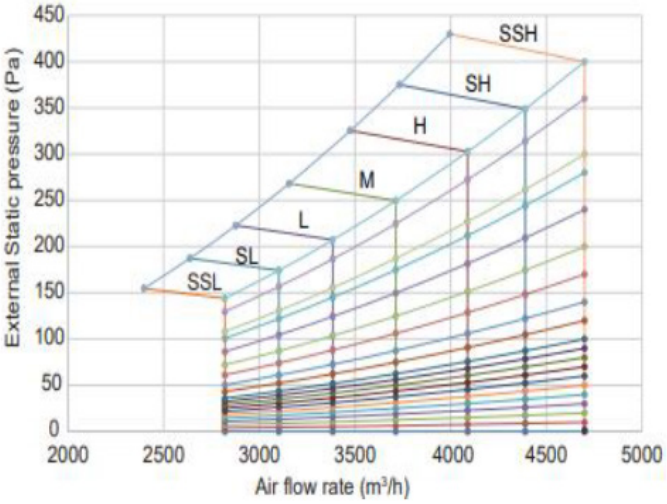
CN-3-XY D140



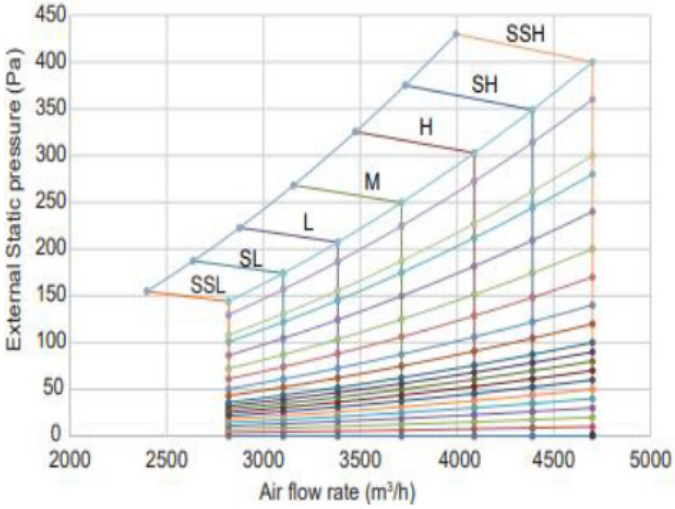
CN-3-XY D160



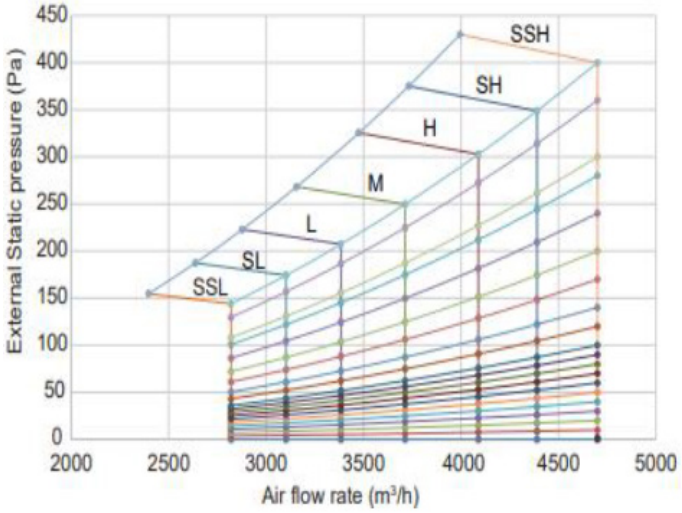
CN-3-XY D200



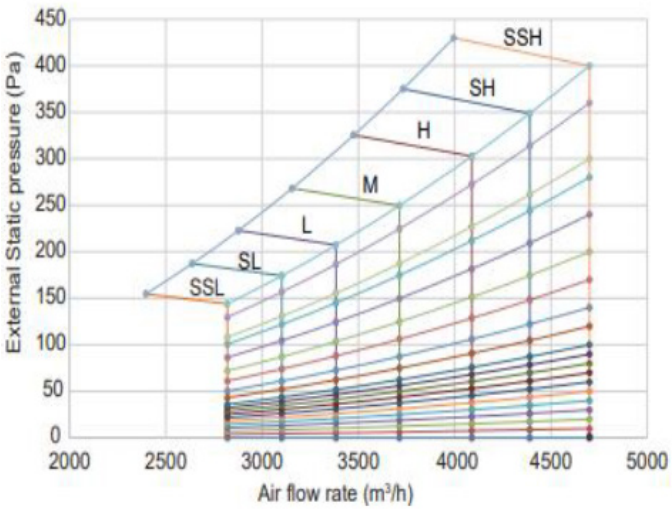
CN-3-XY D224



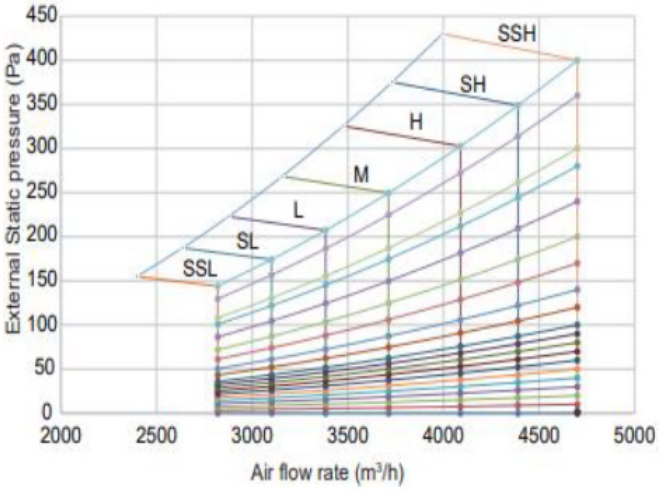
CN-3-XY D252



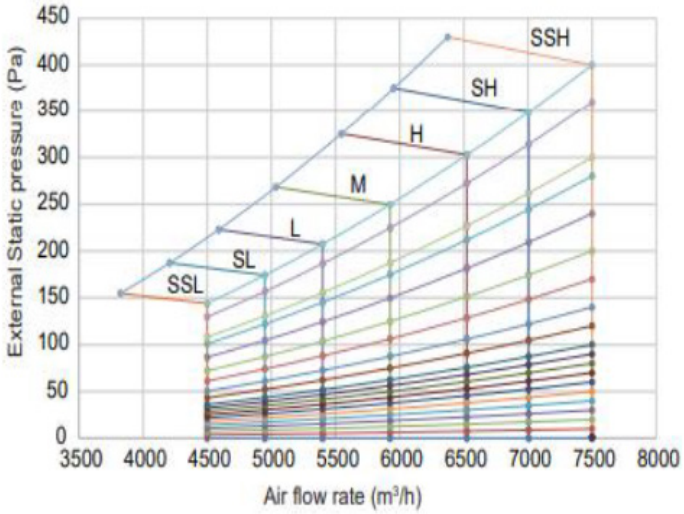
CN-3-XY D280



CN-3-XY D335

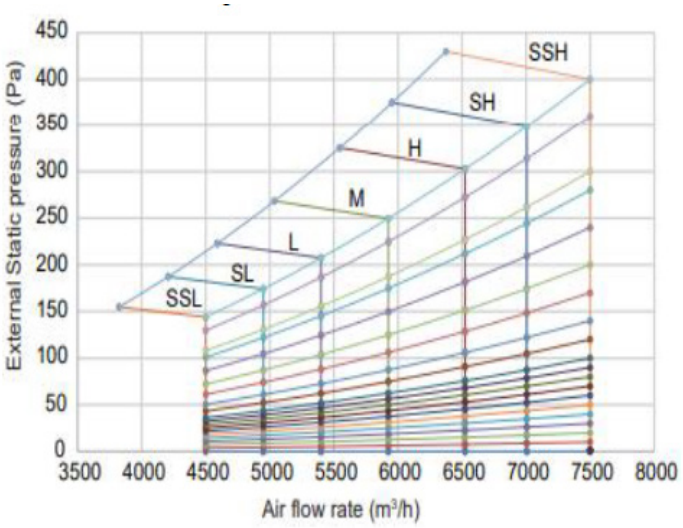


CN-3-XY D400

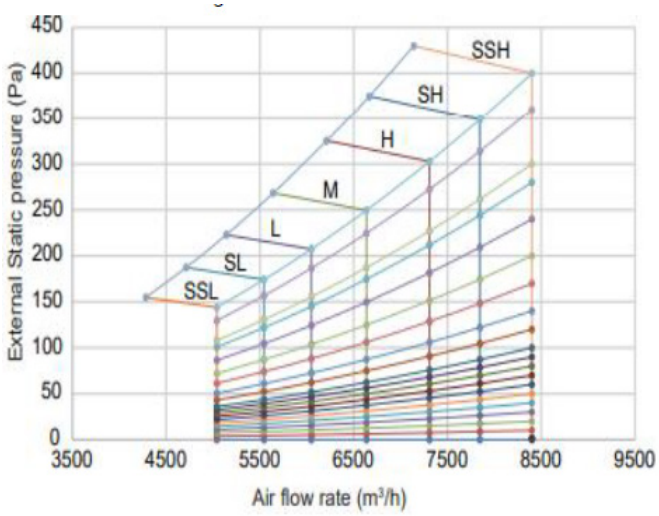


Costant airfloow mode

CN-3-XY D450



CN-3-XY D560

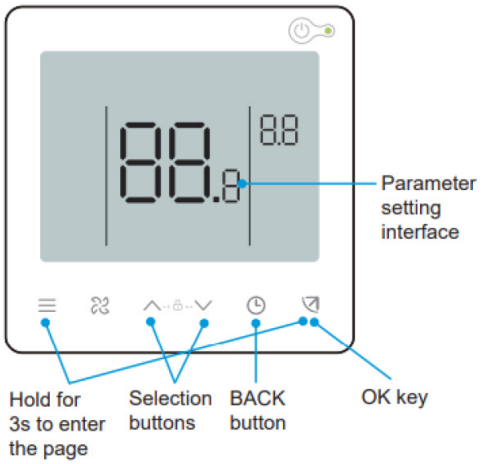


How to Read the Diagram (Constant Airflow mode)

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m³/h).
The characteristic curve for the “SSH”,“SH”, “H”, “M”, “L”,”SL” and “SSL” fan speed control.
For CN-3-XY D140, in “H” windshield, when the external static pressure is less than 195 Pa, the air flow keeps 2120 m³/h, but when the externa static pressure is greater than 195 Pa, the air flow begins to decline, and the allowable maximum external static pressure is 204 Pa.

Set external static pressure parameters

1. In the main interface, press " ☰ " +" ⏎ " for 3 seconds at the same time, and the main interface will display "CC". Press the "▲" and "▼" to select the indoor unit ("n00-n63" is displayed, and the last two digits are the indoor unit addresses). Press the " ⏎ " to enter the parameter setting interface, and "n00" will be displayed.
2. When "n00" is displayed, press the " " to enter the static pressure setting. Use the "▲" and "▼" keys to adjust to the demand parameter values, and press the " ⏎ " to confirm.
3. Press the " 🕒 " button to return to the previous menu and exit the parameter setting. Parameter setting will also exit after 60 s of no operation



External static pressure setting D56 / D160

First level menu	Second level menu	Description	Default
N00	00/01/02/03/04/05/~/19	Static pressure level	08(D56-D112) 10(D125-D160)

Level	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
Static pressure (Pa)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	160	180	200	220	250

External static pressure setting D200 / D560

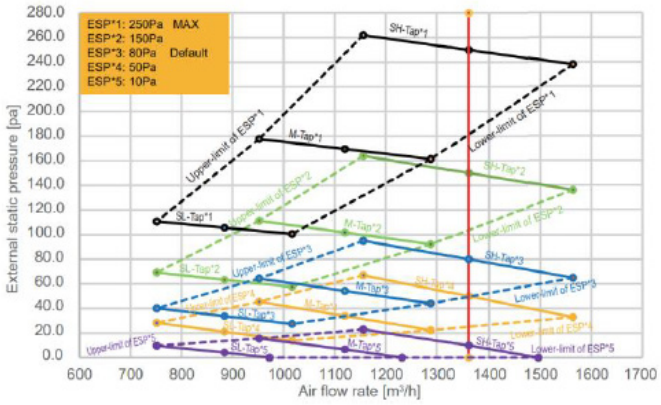
First level menu	Second level menu	Description	Default
N00	00/01/02/03/04/05/~/19	Static pressure level	14(D200-D335) 17(D400-D560)

Level	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
Static pressure (Pa)	0	10	20	30	40	50	60	70	80	90	100	120	140	170	200	240	280	300	360	400

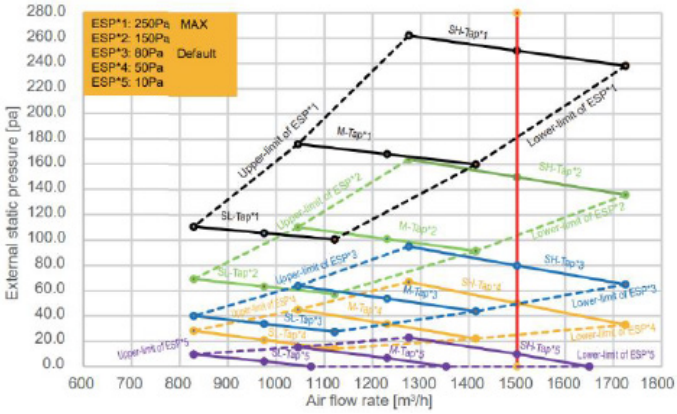
Notes:
1. The above is only an example of 86S wired controller. If you choose other controllers, please refer to their manuals for setting.

Fan perfomance

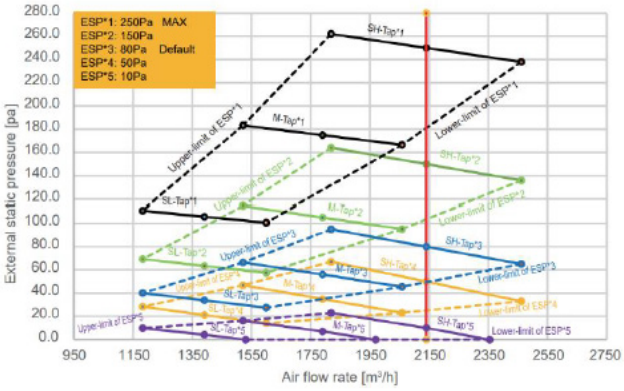
CN-3 XY D56 / D71 / D80



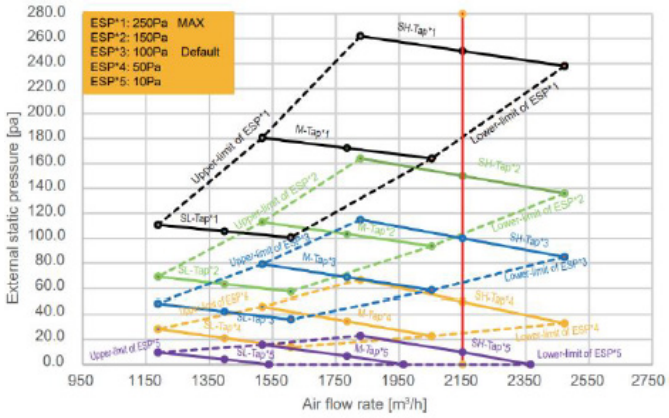
CN-3 XY D90



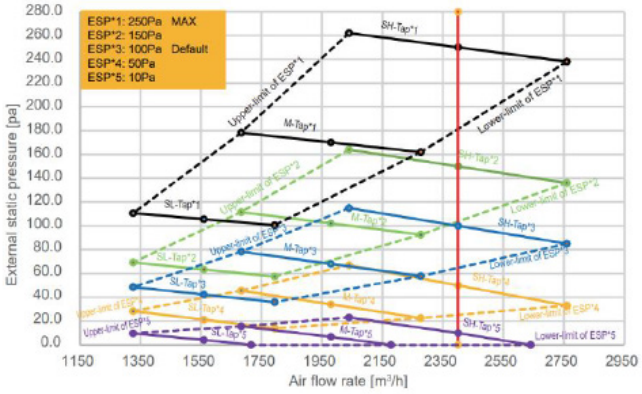
CN-3 XY D112



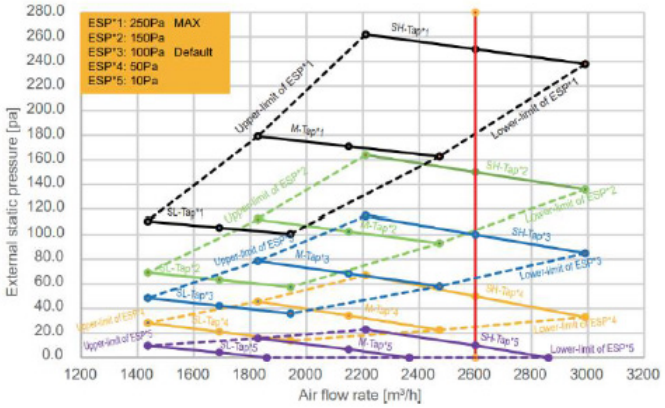
CN-3 XY D125



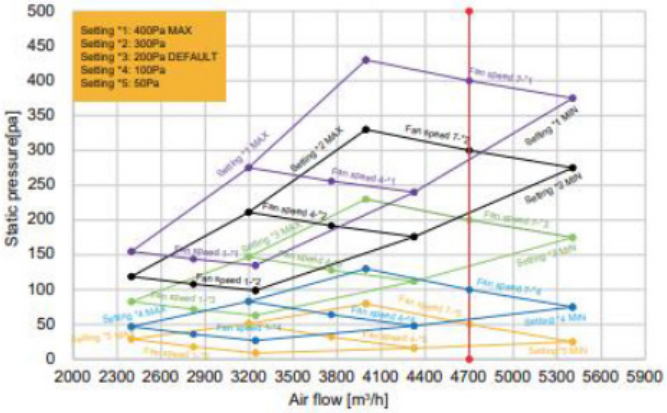
CN-3 XY D140



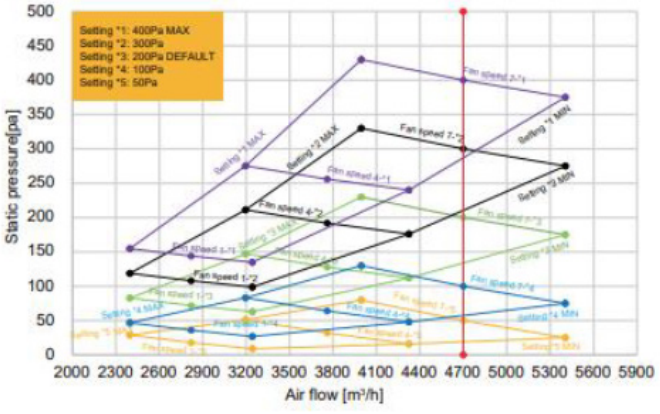
CN-3 XY D160



CN-3 XY D200

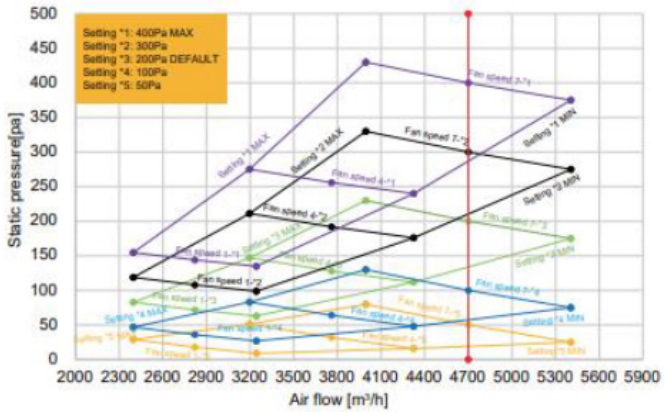


CN-3 XY D224

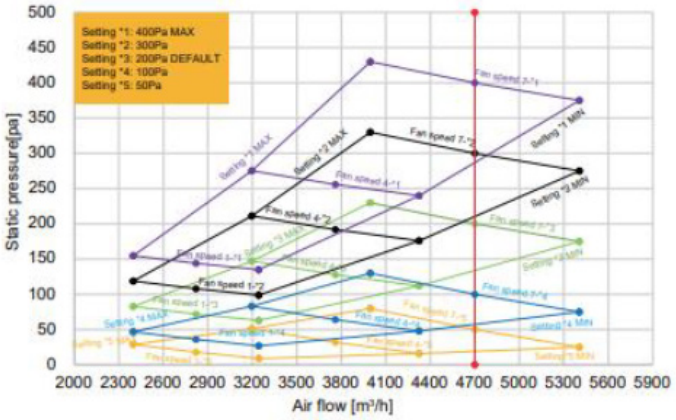


Fan perfomance

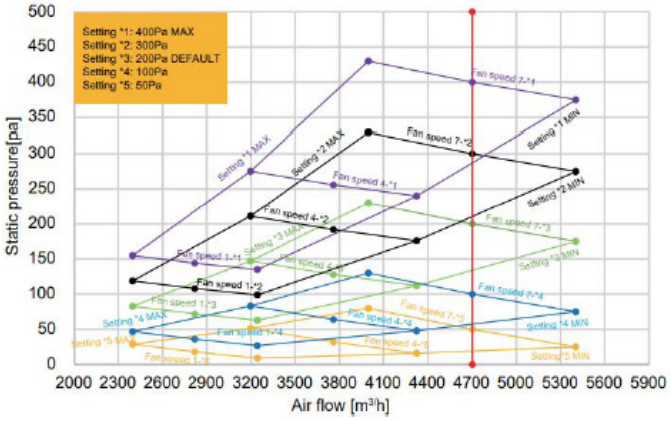
CN-3 XY D252



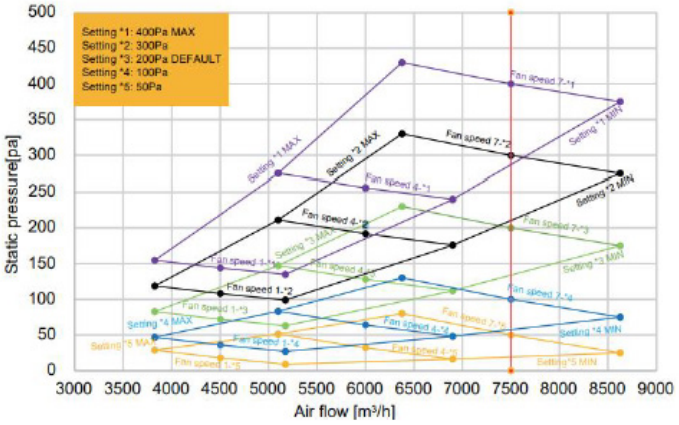
CN-3 XY D280



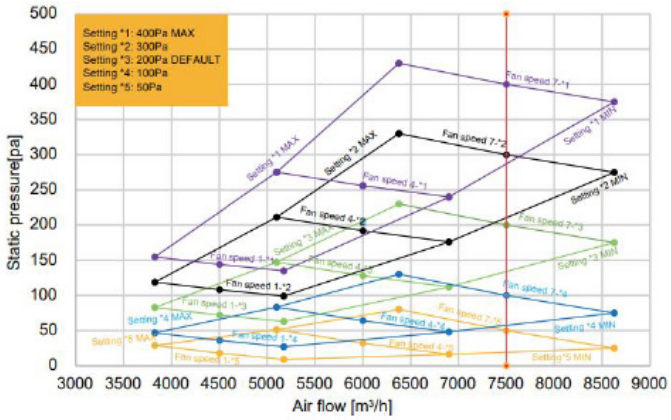
CN-3 XY D335



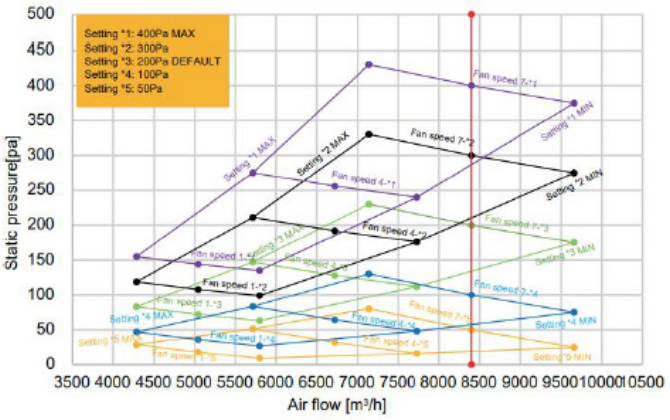
CN-3 XY D400



CN-3-XY D450



CN-3XY D560



How to Read the Diagram (Constant Speed mode)

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m^3/h).
The characteristic curve for the “SH”, “M” and “SL” fan speed control.
The Air Flow decreases with the increase of the external static pressure.
For CN-3-XY D140, in “SH” windshield and “100Pa” setting static pressure, when the externa static pressure is 100Pa, the air flow is 2400 m^3/h, and the allowable externa static pressure range is 85Pa to 115Pa

Pagina intenzionalmente bianca

FOR 30 YEARS WE HAVE BEEN OFFERING SOLUTIONS FOR SUSTAINABLE COMFORT AND THE WELL-BEING OF PEOPLE AND THE ENVIRONMENT

sales and service

www.clivet.com

MideaGroup
humanizing technology

High static pressure duct - CN-3-XY D56-D560 - BT23N013GB--00

CLIVET

.CLIVET S.p.A
Via Camp Lonc 25, Z.I. Villapaiera 32032 - Feltre (BL) - Italy
Tel. +39 0439 3131 - info@clivet.it

CLIVET GMBH
Hummelsbütteler Steindamm 84,
22851 Norderstedt, Germany
Tel. +49 40 325957-0 - info.de@clivet.com

Clivet Group UK LTD
Units F5 & F6 Railway Triangle,
Portsmouth, Hampshire PO6 1TG
Tel. +44 02392 381235 -
Enquiries@Clivetgroup.co.uk

CLIVET LLC
Office 508-511, Elektozavodskaya st. 24,
Moscow, Russian Federation, 107023
Tel. +7495 6462009 - info.ru@clivet.com

CLIVET MIDEAST FZCO
Dubai Silicon Oasis (DSO) Headquarter Building,
Office EG-05, P.O Box-342009, Dubai, UAE
Tel. +9714 3208499 - info@clivet.ae

Clivet South East Europe
Jaruščica 9b
10000, Zagreb, Croatia
Tel. +3851 222 8784 - info.see@clivet.com

CLIVET France
10, rue du Fort de Saint Cyr - 78180 Montigny le Bretonneux, France
info.fr@clivet.com

Clivet Airconditioning Systems Pvt Ltd
Office No.501 & 502,5th Floor, Commercial –I,
Kohinoor City, Old Premier Compound, Off LBS
Marg, Kirol Road, Kurla West, Mumbai
Maharashtra 400070, India
Tel. +91 22 30930200 - sales.india@clivet.com