



Product Data

42GS
Fan Coil Unit
Cassette Type- 4 Way

Nominal Cooling Capacity: 2.8 to 10
Nominal Air Flow: 300 to 1000 cfm



42GS Fan Coil Unit Cassette Type

SSI commercial AC fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its super-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more fresh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel airport, etc.

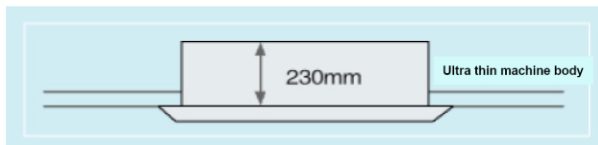
The new SSI cassette 42GS offers a modern solution for a wide variety of small and medium- sized commercial and residential applications. It is ideally suited for large offices, shops, restaurants and bars, hotel receptions, meeting rooms, banks, laboratories, showrooms, etc.

Features/Benefits

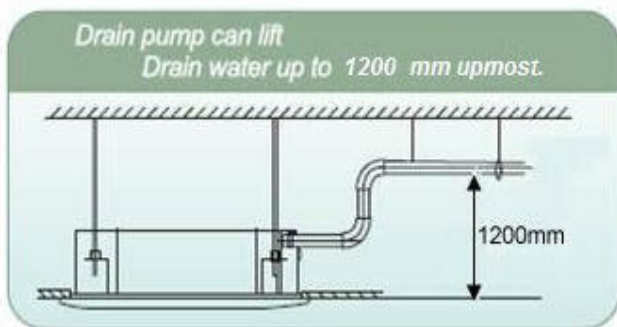
- The 42GS is available with a new-generation three speed AC motor. The 42GS is available with a variable-speed Low Energy Consumption EC motor.
- The 42GS is normally installed in suspended ceilings and offers two, three or four way air distribution. The units maintain precise temperature and humidity conditions preventing draughts and stale air zones.
- The elegant air inlet grille blends aesthetically with any room décor.
- The SSI 42GS cassette is available in seven sizes suitable for a wide range of applications, with air flows from 300 to 1000 cfm (500 to 1700 m³/hr). The 42GS cassette offers a low-noise solution for applications where a low noise level is the most important selection parameter.

General features

- Chilled water/Hot water (2 pipes)
- Low height for easy installation
- Low noise fan direct driven by single phase, 3 speed permanent split capacitor motor.
- Copper tube/aluminum fin coils
- Unit constructed by electrostatic galvanized sheet, providing maximum protection against corrosion.
- Ultra-thin machine body to easy installation and maintenance. 1000~1300m³/h: 230mm; 1500~1700m³/h: 285mm.



- Drainage pump can take up the condenser water to 1200mm.



- A full series of controller give you the most suitable solution according to the different requirement from different customers.



Model Names of Fan Coil

Type	Model
Compact Ceiling Cassette Type	42GS-300R
	42GS-350R
	42GS-470R
Ceiling Cassette Type	42GS-600R
	42GS-760R
	42GS-880R
	42GS-1000R

All units **Power source** is 220-240V~,1Ph, 50Hz.

Designed for silence

- The 42GW units were designed for extremely quiet operation with sound levels that set new comfort standards for buildings. The unique SSI design of the centrifugal fan ensures extra-quiet operation.
- The new fan/motor assembly design ensures whisper-quiet operation, two times less than the previous generation. Particular attention has been given to the low fan speed.
- The special design of the diffuser ensures rapid blending of the supply and room air. Conditioned air is directed along the ceiling then evenly distributed throughout the room. Return air enters the cassette unit through a large grille. It is then cleaned by an easily removable, washable synthetic filter, treated and recirculated.

Motors

- The cassette is available with a three-speed AC motor, with low noise levels to make it one of the quietest cassettes on the market.

Filters

- The standard filter for the cassette range has a pleated filtration surface, resulting in a 87% larger surface than a conventional filter, with the following additional advantages:
 - ✓ Lower air flow per unit area, resulting in lower pressure drop and reduced noise level.
 - ✓ The average interval between filter cleaning is three times longer, compared to standard filters.
 - ✓ The filter material is polypropylene and the grade is EU1.

Physical data

42GS-300 to 470

FCU type		Compact 4-way Cassette Type			
Model			42GS-300R	42GS -350R	42GS -470R
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50
Capacity					
Air-flow volume	Hi/Med/Lo	CFM	300/255/180	350/297.5/210	470/400/282
		m ³ /h	500/434/306	600/506/357	800/679/479
Cooling capacity	Hi/Med/Lo	kW	2.8/2.4/1.8	3.5/3.0/2.3	4.5/3.9/2.9
Heating capacity	Hi/Med/Lo	kW	4.2/3.7/2.7	5.3/4.6/3.4	6.8/5.9/4.4
Physical data					
Noise level (High-speed)		dB(A)	40	44	44
Water flow volume		m ³ /h	0.48	0.60	0.78
Water pressure drop		kPa	25	28	30
Indoor coil	Number Of Rows		2	2	2
	Fin type		copper tube, aluminum fin		
Fan motor	Quantity	PCS	1	1	1
	Power Input	W	43	64	65
Indoor unit	Dimension (W×H×D)	mm	580×275×580	580×275×580	580×275×580
	Packing (W×H×D)	mm	745×350×675	745×350×675	745×350×675
	Net/Gross weight	Kg	22/24	22/24	22/24
panel	Dimension (W×H×D)	mm	650×30×650	650×30×650	650×30×650
	Packing (W×H×D)	mm	750×95×750	750×95×750	750×95×750
	Net/Gross weight	Kg	2.7/4.0	2.7/4.0	2.7/4.0
Pipe	water-inlet pipe	mm	DN20	DN20	DN20
	water-outlet pipe	mm	DN20	DN20	DN20
	Drainage pipe	mm	DN25	DN25	DN25
Controller			Wired controller(optional) Remote controller(standard)		

Remark:

1. Cooling capacity test condition: air side temperature: 27DB[°]C/19WB[°]C, water inlet temperature 7[°]C, water temperature difference 5[°]C.

2. Heating capacity test condition: air side temperature: 21DB[°]C, water inlet temperature 60 DB[°]C, water temperature difference 5[°]C.

Physical data (Cont.)

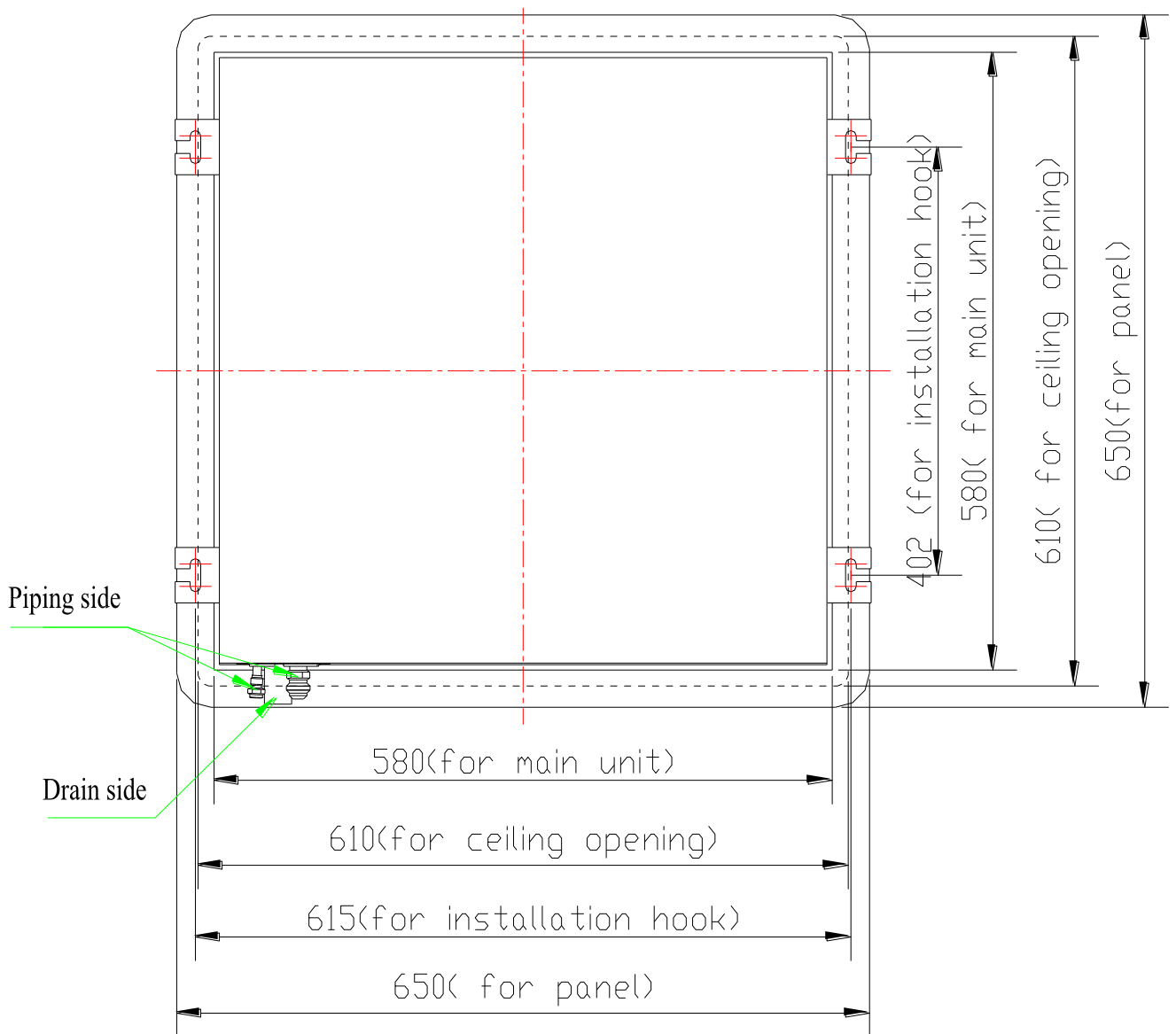
42GS -600 to 1000

FCU type			4-way Cassette Type			
Model			42GS -600R	42GS -760R	42GS -880R	42GS -1000R
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
Capacity						
Air-flow volume	Hi/Med/Lo	CFM	600/510/360	760/646/456	880/748/528	1000/850/600
		m3/h	1000/867/612	1300/1098/775	1500/1272/898	1700/1445/1020
Cooling capacity	Hi/Med/Lo	kW	5.3/4.6/3.4	7.2/6.3/4.7	8.5/7.4/5.5	10.0/8.7/6.5
Heating capacity	Hi/Med/Lo	kW	8.0/7.0/5.2	10.8/9.4/7.0	12.8/11.1/8.3	15.0/13.1/9.8
Physical data						
Noise level (High-speed)		dB(A)	43-48	44-48	45-52	45-53
Water flow volume		m3/h	1.10	1.24	1.46	1.55
Water pressure drop		kPa	36	36	38	40
Indoor coil	Number Of Rows		2	2	2	2
	Fin type		copper tube, aluminum fin			
Fan motor	Quantity	PCS	1	1	1	1
	Power Input	W	140	150	160	180
Indoor unit	Dimension (W×H×D)	mm	840×230×840	840×230×840	840×285×840	840×285×840
	Packing (W×H×D)	mm	920×265×920	920×265×920	920×310×920	920×310×920
	Net/Gross weight	Kg	23/28	23/28	26/31.5	28/33.5
panel	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950
	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross weight	Kg	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0
Pipe	water-inlet pipe	mm	DN20	DN20	DN20	DN20
	water-outlet pipe	mm	DN20	DN20	DN20	DN20
	Drainage pipe	mm	DN25	DN25	DN25	DN25
Controller			Wired controller(optional),remote controller(standard)			

Remark:

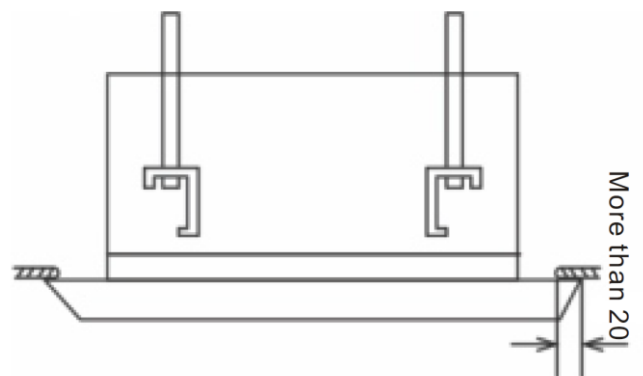
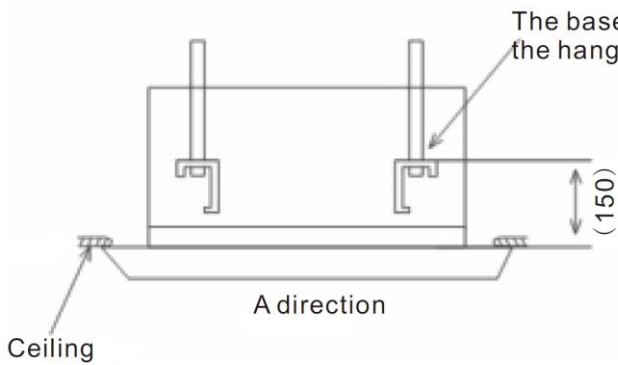
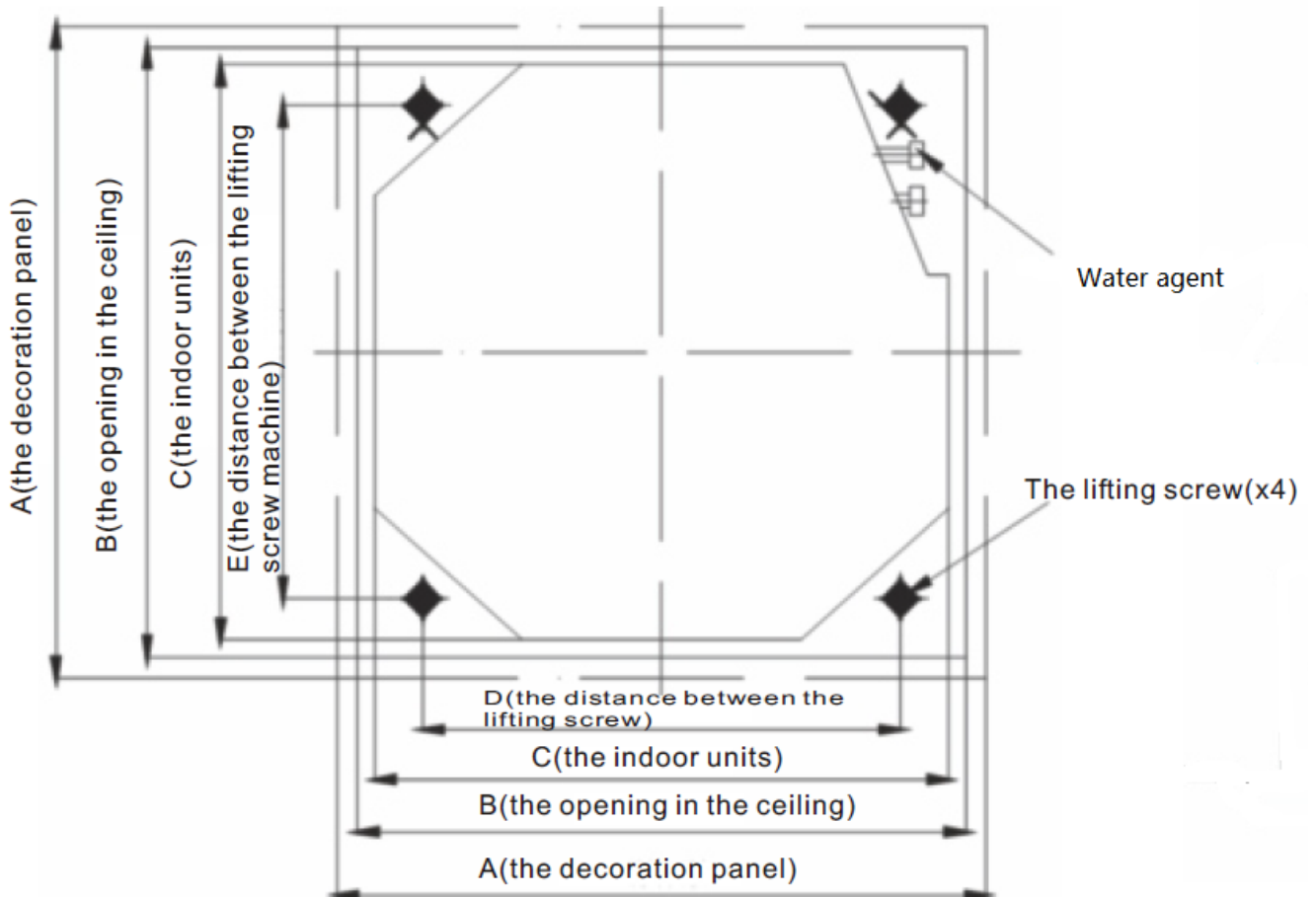
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2. Heating capacity test condition: air side temperature: 21DB°C, water inlet temperature 60 DB°C, water temperature difference 5°C.

Dimensions (42GS-300R to 470R)



Note: All Dimensions are in mm.

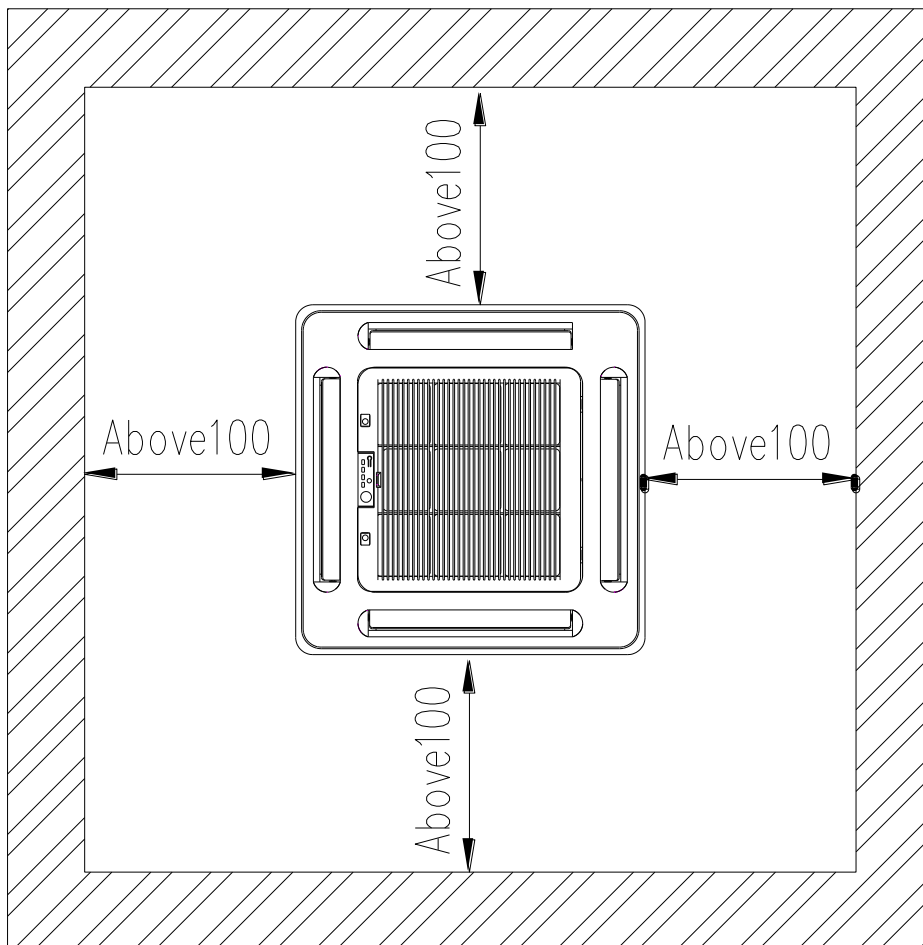
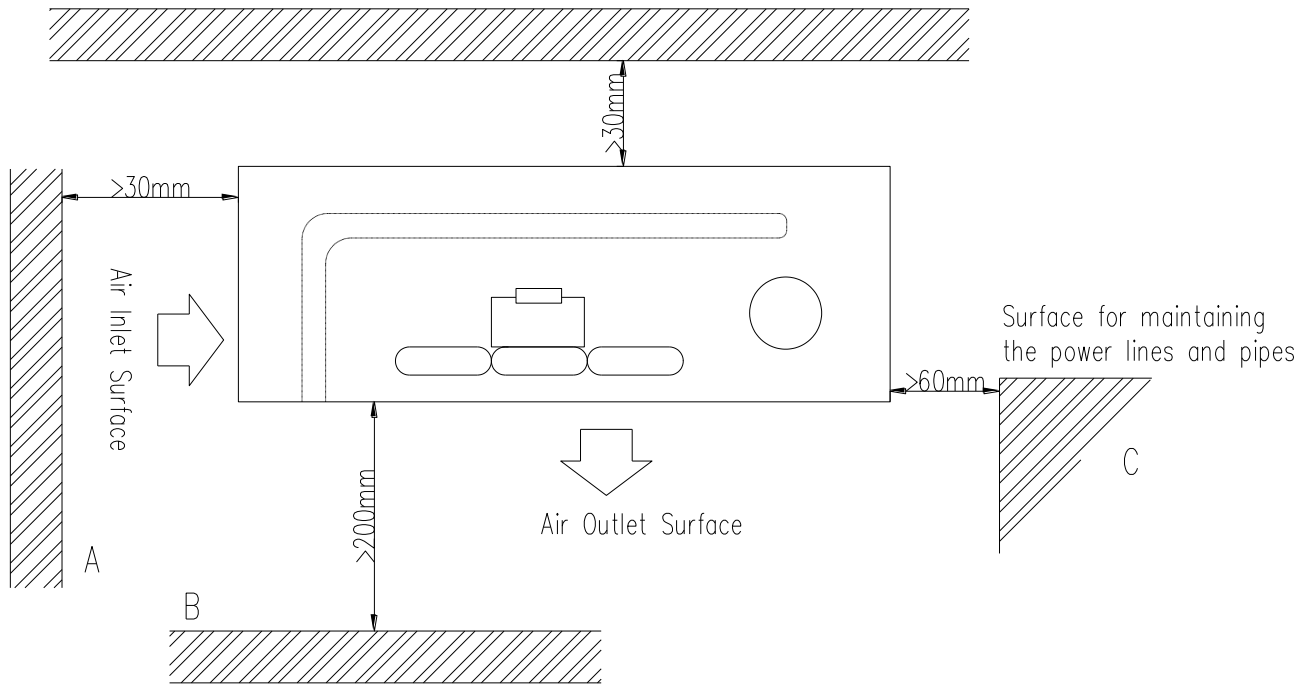
Dimensions (42GS-600R to 1000R)



Model	Dimensions(mm)				
	A	B	C	D	E
42GS-600R	950	890	840	680	780
42GS-760R					
42GS-880R					
42GS-1000R					

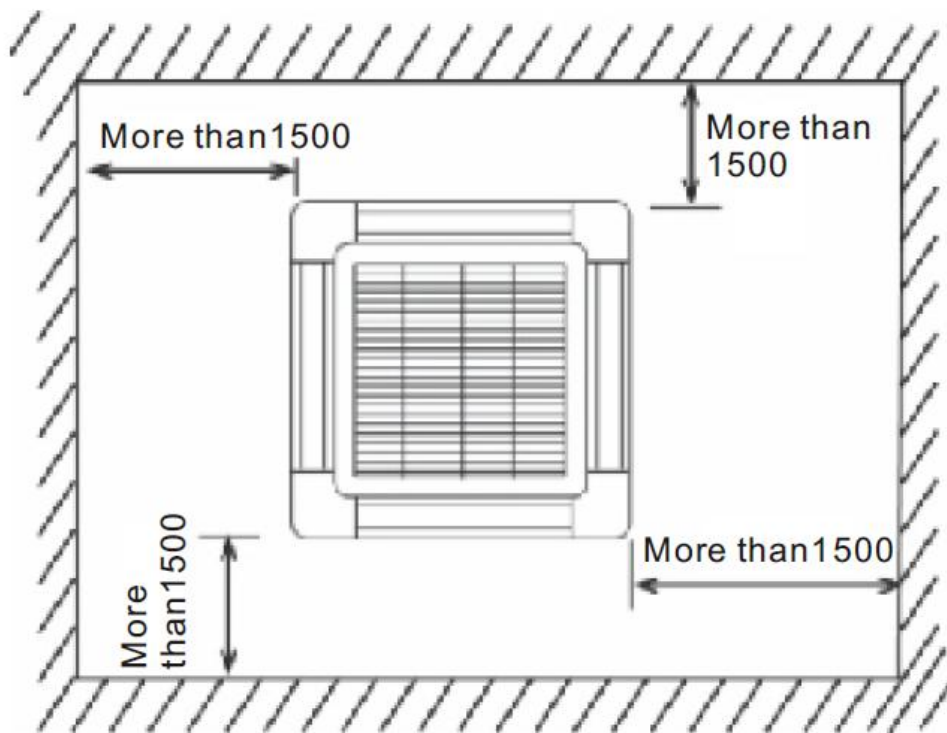
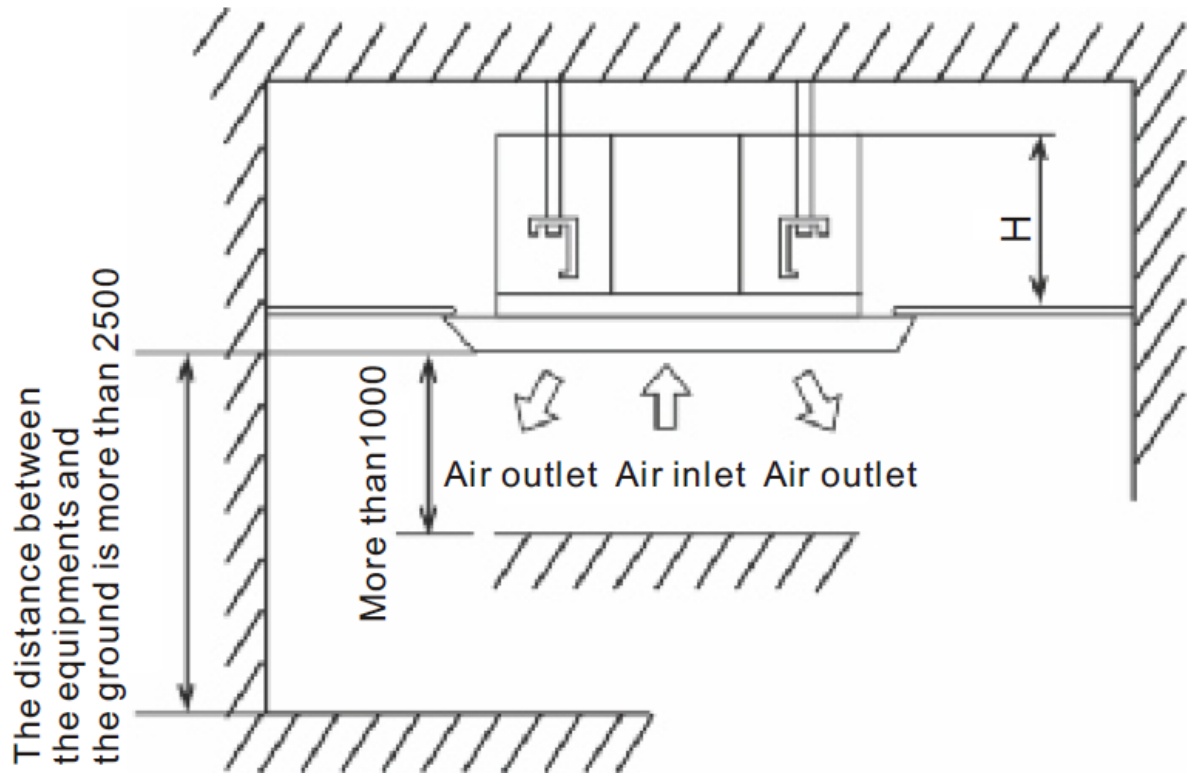
Note: All Dimensions are in mm.

Service Spaces (42GS-300R to 470R)



Note: All Dimensions are in mm.

Service Spaces (42GS-600R to 1000R)



Installation dimension

Model	H (mm)
42GS-600R 42GS-760R	230
42GS-880R 42GS-1000R	285

Wiring Caution and Note

Caution:

1. The air conditioner should use separate power supply with rated voltage.
2. The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
3. The wiring work should be done by qualified persons according to circuit drawing.
4. An all-pole disconnection switch having a contact separation of at least 3mm in a pole should be connected in fixed wiring.
5. Be sure to locate the power wiring and the signal wiring well to avoid cross-disturbance.
6. Do not turn on the power until you have checked carefully after wiring.

Note:

Remark per EMC Directive 89/336/EEC to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply.

1. The power connection for the air conditioner has to be done at the main power distribution. The distribution has to be of a low impedance, normally the required impedance reaches at a 32 A fusing point.
2. No other equipment has to be connected with this power line.
3. For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.

Global sound data

Model	Noise dB(A)
42GS -300R	40
42GS -350R	44
42GS -470R	44
42GS-600R	43-48
42GS-760R	44-48
42GS-880R	45-52
42GS-1000R	45-53

