



# 1 to 1 Inverter Systems

## 220-240/1/50-60

### Heat Pump



Cooling capacity is 12,000 to 60,000 Btu/h (3.5kW~16.0kW).

The outdoor unit can be freely connected to duct type unit, cassette type unit and floor ceiling unit.

Compact design; single fan design for the whole series; the maximum height is only 820mm.

With fast cooling and heating functions. Connection pipe is 75m at the most.

All DC Inverter design.

With low ambient temperature cooling function. Cooling is normal at -15°C.



High efficiency



All DC inverter technology



Compact design



Anti-cold function



Fresh air supply ventilation



Intelligent defrosting



Memory function



Easier maintainability



Turbo function



### Condensing Unit



### Cassette



### Floor Ceiling



### Duct type

**360°** air discharge panel.  
**DC motor and DC water pump**, high-efficiency and energy-saving.  
**Water pump** lift is up to 1000mm.  
**Only 570mm** for 12K and 18K cassette unit.  
Adopt **fireproof** electric box.

**DC motor**, high-efficiency and energy-saving.  
**Fresh air** interface reversed.  
**Three pipe outlet** methods.  
**Dual air guide louvers** and 3D air supply.  
Metal electric box and **fireproof design**.

**Wired controller** can adjust the static pressure according to the engineering requirements.  
**Fresh air** interface reserved.  
**Built-in water pump** optional.  
**Ultra-thin structure** design; the thinnest thickness is 200mm.  
**Supply air outlet** and return air outlet are interchangeable, convenient for installation.

#### Wireless Control GTC-YAP1F6

Included on Ceiling Floor and Cassette



Voltage  
2 (AAA) Batteries Included  
Operation Range  
61°F(16°C) - 86°F(30°C)  
Maximum receiving range  
26 ft.(8m)

#### Wired Control GTC-K117

Included on Fan Coils



Voltage  
12 VDC  
Operation Range  
61°F(16°C) - 86°F(30°C)  
Maximum receiving range  
188 ft.(30m)

#### OPTIONAL ACCESORIES

##### Dry-contact gateway GTC-ME30-42/E1

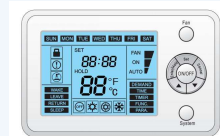


Function ON-OFF input control, emergency stop input, error output, cold plasma control, ventilation, fresh air and running mode control.

##### Door Controller GTC-MK-03



##### 24 Volts Controller GTC-XE70-00/E1 For IDU






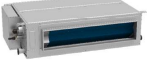
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### Heat Pump



Condensing Units 220-240/1/50-60 SEER 16 R410A	Model	Nominal Capacity (Btu/h)		EER	HSPF	Airflow	FLA	RLA	Sound Pressure	Refrigerant	Outline dimension (mm)			Weight (Kg)		Connection Pipe inch OD		Connection Pipe Max Distance (mts)		Gas
		Cooling	Heating			w/w	CFM	Amp	dBa	Charge Kg	W	D	H	Net	Gross	Liquid	Gas	Height	Length	g/mts
		9																		
	CTG012168A-S	11,900	13,600	3.21	9	1,765	0.14	4.6	51	1.00	810	302	596	38	41	1/4"	3/8"	15	30	22
	CTG018168A-S	18,000	19,700	3.21		1,765	0.49	6.5	55	1.25				41	44					
	CTG024168A-S	24,200	27,200	3.21		2,120	0.70	11	56	2.00	892	340	698	53	57	3/8"	5/8"	25	50	30
	CTG036168A-S	34,500	37,500	2.97		2,355	0.89	11	55	2.45	920	370	790	61	66					
	CTG048168A-S	47,800	51,200	2.80		3,470	1.38	19.7	69	3.70	940	460	820	92	104					
	CTG060168A-S	53,200	58,000	2.89		3,470	1.38	19.7	70	3.80	96	108	30	75	50					

Fan Coils 220-240/1/50-60 SEER 16 R410A	Model	Airflow (CFM)				FLA Amp	Power Input watts	Sound Pressure Level (dBA)				Outline dimension (mm)			Weight (Kg)		External Static Pressure dBA	
		T	H	M	L			T	H	M	L	W	D	H	Net	Gross	Rated	Range
			CTGF12168A-S	383	353	300	265	0.36	50	40	37	35	34	700	450	200	19	23
	CTGF18168A-S	559	518	500	441	0.63	80	40	39	44	43	1,000	450	200	25	30	25	0-75
	CTGF24168A-S	706	682	641	553	0.70	120	40	38	37	36	1,300	450	220	30	37	25	0-150
	CTGF36168A-S	1,059	942	824	706	1.85	200	43	41	39	37	1,000	700	300	40	46	37	
	CTGF48168A-S	1,177	1,059	942	824	1.26	250	42	40	39	37	1,400	700	300	49	55	50	
	CTGF60168A-S	1,647	1,354	1,177	1,000	2.64	550	50	45	44	43	56	63	50	0-200			

Cassette (4 way) 220-240/1/50-60 SEER 16 R410A	Model	Airflow (CFM)				Power Input watts	Sound Pressure Level (dBA)				Outline dimension (mm)			Cassette Weight (Kg)		Panel dimension (mm)			Panel Weight (Kg)	
		T	H	M	L		T	H	M	L	W	D	H	Net	Gross	W	D	H	Net	Gross
			CTGC12168A-S	382	341	282	235	30	41	37	35	31	570	570	265	17	22	620	620	47.5
	CTGC18168A-S	412	341	282	235	35	44	39	35	31	23	30				950	950			
	CTGC24168A-S	735	674	559	500	55	47	45	41	39	840	840	200	31	38			31	38	
	CTGC36168A-S	883	853	795	706	100	50	48	46	42				840	840			290	33	41
	CTGC48168A-S	1,059	1,000	883	765	110	51	49	46	42	36	41	36			41				
	CTGC60168A-S	1,059	1,000	883	765	170	54	52	50	48	36	41	36	41						

Floor Ceiling 220-240/1/50-60 SEER 16 R410A	Model	Airflow (CFM)				Power Input watts	Sound Pressure Level (dBA)				Outline dimension (mm)			Weight (Kg)	
		T	H	M	L		T	H	M	L	W	D	H	Net	Gross
			CTGP12168A-S	383	359	312	271	30	39	36	32	28	870	665	235
	CTGP18168A-S	500	471	412	353	55	44	42	39	36	26	31			
	CTGP24168A-S	765	718	641	553	80	45	44	41	38	1,200	665	235	31	37
	CTGP36168A-S	842	883	824	706	110	49	47	45	43				32	38
	CTGP48168A-S	1,295	1,177	1,059	883	150	52	50	48	44	1,570	665	235	40	47
	CTGP60168A-S	1,354	1,295	1,118	942	175	54	53	49	45				42	49

#### Advantages:

- One single Fan outdoor unit
- Better length pipe and drop
- Lower Noise
- Higher Static pressure on Fan Coils
- Electric box adopts fireproof design and installed at the side of the unit for convenient maintenance

1. The cooling capacity stated above is measured under following conditions :

Indoor Condition: 27°C (81°F) DB/19°C (66.6°F) WB;

Outdoor Condition: 35°C (95.4°F) DB/24°C (75.6°F) WB.

2. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual Operation due to environmental change.

3."1" is tested under standard condition.

"2" is tested under rated condition according to CE/Eurovent standard.

4.\* Fan different speed