

# Large Duct Split R410a

## Duct Indoor Unit

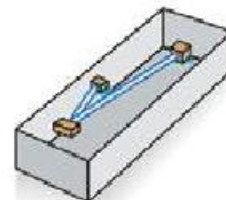
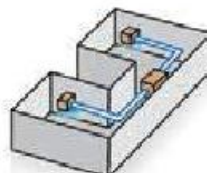
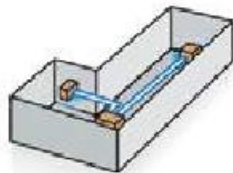


### Convenient installation >>

- ❖ Compact design. Concealed installation without floor space requirement.
- ❖ Hidden in the ceiling, unit installation is not hindered by the location of lighting fixtures or room structure.
- ❖ Air inlet & outlet flange are standard for easy duct connection.
- ❖ Easy maintenance through the inspection port.

### Free air duct design >>

- ❖ Multi diffusers from one indoor unit, air-conditioned multi rooms at the same time.
- ❖ Three speeds of air supply can be chosen via controller.
- ❖ The indoor unit is suitable for various applications where there are many rooms or halls, such as restaurant, concert halls and hotels.
- ❖ Flexible duct design for different room styles.



Auto Restart  
Function



Auto  
Defrosting



Independent  
**Dehumidification**



Timer



PTC Heater



Anti-Cold  
Air Function



Wired  
Controller

# Specifications - Tropical (T3) Application

## Heat pump, medium static pressure duct



76 kBTU/h



96 kBTU/h



120kBTU/h

Indoor unit model			CSM-ITDM76.H80	CSM-ITDM96.H80	CSM-ITDM120.H80
Outdoor unit model / Quantity			CSM-OTS76.H83 / 1	CSM-OTS96.H83 / 1	CSM-OTS120.H83 / 1
Indoor unit power supply			220~240V, 1Ph~, 50Hz		
Cooling	Capacity (T1/T3)	Btu/h	75,100 / 64,100	96,000 / 87,860	119,400 / 102,400
		kW	22.0 / 18.8	28.1 / 25.75	35.0 / 30.0
	Input (T1/T3)	kW	7.5 / 8.85	9.6 / 15.00	12.0 / 13.25
	EER (T1)	W/W	2.93	2.93	2.92
Heating	Capacity	Btu/h	85,000	106,000	130,000
		kW	25.0	31.1	38.0
	Input	kW	8.3	10.3	12.6
	COP	W/W	3.01	3.02	3.02
Max. power input		W	11,700 (Whole units)	1,400 (IDU)	17,300 (Whole units)
Max. current		A	19.3 (Whole units)	5.8 (IDU)	28.6 (Whole units)
Air flow (Hi)		m <sup>3</sup> /h	4,250 (2,500CFM)	5,100 (3,000CFM)	6,375 (3,750CFM)
Standard external static pressure		Pa	100	100	150
Noise level (Hi)		dB(A)	58	56	63
Fan type / Drive type			Centrifugal / Direct		
Coil			Copper tube and aluminum fin		
Controller			Wireless controller (R51/E)	Wired controller (KJR-298)	Wireless controller (R51/E)
Dimension	Net (W×H×D)	mm	1,443×450×846	1452×462×797	1,988×669×906
	Packing (W×H×D)	mm	1,549×476×917	1,555×500×875	2,095×800×964
Net / Gross weight		kg	105 / 120	97 / 109	188 / 220

**Notes:**

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.


**76/96 kBTU/h**

**120 kBTU/h**

Outdoor unit model			CSM-OTSD76.HB3	CSM-OTSD96.HB3	CSM-OTSD120.HB3
Outdoor unit power supply			380~415V, 3Ph~, 50Hz	380~415V, 3Ph~, 50Hz	380~415V, 3Ph~, 50Hz
Max. power input	kW		11.7 (Whole units)	14.4 (ODU)	17.3 (Whole units)
Max. current	A		19.3 (Whole units)	23.7 (ODU)	28.6 (Whole units)
Noise level	dB(A)		65	68	69
Compressor (Type / Quantity)			Scroll / 1	Scroll / 1	Scroll / 1
Refrigerant (Type / Charged)			R410A / 5.4kg	R410A / 6.0kg	R410A / 7.2kg
Fan type / Drive type			Axial / Direct	Axial / Direct	Axial / Direct
Coil			Copper tube and aluminum fin	Copper tube and aluminum fin	Copper tube and aluminum fin
Refrigerant piping size	mm		Ø9.52 (Liquid), Ø22 (Gas)	Ø9.52 (Liquid), Ø25 (Gas)	Ø12.7 (Liquid), Ø28.6 (Gas)
Ambient temperature	°C		17~52	17~52	17~52
Dimension	Body (W×H×D)	mm	1,260×908×700	1,312×919×658	1,260×908×700
	Packing (W×H×D)	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net / Gross weight		kg	174 / 193	177 / 192	201 / 217

**Notes:**

1. T1 cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
2. T3 cooling capacity test condition: Outdoor ambient temperature: 46°C, indoor temperature 27°C DB / 19°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
3. Heating capacity test condition: Outdoor ambient temperature: 7°C DB / 6°C WB, indoor temperature 20°C DB / 15°C WB; refrigerant pipe length between indoor unit and outdoor unit is 7.5m.
4. Specifications are subject to change without prior notice for product improvement.