



Cabinet Floor Standing Indoor unit



Feature:
Elegant and User friendly design.
Capacity:
Cooling: 25.5-79kW
Heating: 30-83kW

Standard Ducted Indoor Unit



Feature:
Design for long duct installation
and large space application.
Capacity:
Cooling: 20-79kW
Heating: 23-83kW

Purifying Ducted Indoor unit



Feature:
Adaptable, 80%~120% air flow range.
Capacity:
Cooling: 20-79kW
Heating: 23-83kW

Fresh Air Type Indoor Unit



Feature:
100% fresh air for room space.
Capacity:
Cooling: 20-79kW
Heating: 23-83kW

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Note: TICA reserves the right to make changes without further notice to any products in order to improve reliability,function or design.

AIR-COOLED DUCTED TYPE AIR CONDITIONER

TICA CENTRAL AIR-CONDITIONING



FORM NO. A7115G01

TICA air-cooled ducted type air conditioning unit is designed specially for small and medium sized commercial and industrial buildings, and focusing on spaces, stability, energy-saving, and flexibility in the design and installation. With the comprehensive perspectives of space, properties, installation and manipulation, TICA strives to design the best central air conditioning system solution for every single user, achieving the optimal combination of temperature adjusting, energy conservation and environment protection.



Features

Professional industrial design, elegant appearance.

Electronic expansion valve ensures the optimal operation of the unit in the harsh condition.

New optimized control logic design, stable and accurate operation.

R410A refrigerant, environment-friendly, high efficiency.

Multiple long-running tests under harsh working conditions ensure unit's stability and reliability.

Air-Cooled Ducted Type Air Conditioning Unit (Outdoor Unit)

Type	Outdoor Unit TSA		75N(R)	100N(R)	125N(R)	150N(R)	200N(R)	250N(R)	150N(R)*2	
Outdoor Unit	Compressor Type		Hermetic Scroll Compressor							
	Dimension (Single Unit)	L	mm	1403	1403	1403	1403	1808	1808	1403
		W	mm	821	821	821	821	1090	1090	821
		H	mm	1200	1200	1200	1200	1214	1214	1200
	Weight (Single Unit)	kg	220	245	270	280	415	455	280	
	Power Supply		380V 3N~ 50Hz							
Refrigerant	Type	R410A								
	Charging	kg	3.0*2	3.4*2	3.6*2	4.35*2	6.7*2	7.2*2	4.35*4	
Connection Pipe	Connection Type		Flared Joint				Welded Joint		Flared Joint	
	Diameter	Liquid	φmm	9.52*2	9.52*2	9.52*2	12.7*2	12.7*2	12.7*4	
		Gas	φmm	15.88*2	15.88*2	15.88*2	19.05*2	22.23*2	25.4*2	19.05*4

- ★ 1、The outdoor unit is charged R410A refrigerant in factory. The indoor unit is charged N2 for pressure holding.;
2、TICA reserves the right to make changes to the above specification without prior notice.

Cabinet Floor Standing Indoor Unit

Model	Indoor Unit TSD		100N(R)VD(VB)	125N(R)VD(VB)	150N(R)VD(VB)	200N(R)VD (VB)	250N(R)VD	300N(R)VD	
Outdoor Unit TSA			100N(R)	125N(R)	150N(R)	200N(R)	250N(R)	150N(R)*2	
Rated Cooling Capacity			kW	25.50	30.00	40.00	52.00	62.00	79.00
Rated Heating Capacity			kW	30.00	35.00	43.00	60.00	72.00	83.00
Indoor Unit	Dimension (single)	Length	mm	1470	1470	1810	1810	1873	1873
		Width	mm	500	700	700	700	1240	1240
		Height	mm	1670(1870)	2010(2260)	2010(2260)	2010(2260)	1764	1764
	Weight(single)		kg	200 (220)	280 (310)	300 (320)	360 (380)	400	410
	Fan Motor	Air Flow	m³/h	5000	6800	7500	10000	12000	15000
		ESP	Pa	100(0)	120(0)	150(0)	200(0)	250	250
		Power Supply	380V 3N ~ 50Hz (220V ~ 50Hz)		380V 3N ~ 50Hz				
		Shaft Power	kW	1.5(0.375*2)	2.2(0.75)	2.2(1.1)	3.0(2.2)	3	4
	Optional Auxiliary Electric Heating		kW	9	10.2	12	18	20.4	24
	Condensate Drain Pipe		DN25 (R1)						
Total Power Input	Cooling	kW	10.00(9.10)	11.90(10.7)	15.00(14.20)	20.80(18.50)	24.65	30.89	
	Heating	kW	10.50(9.70)	12.90(11.10)	14.50(13.80)	19.80(18.30)	24.00	28.60	
Total Rated Current	Cooling	A	18.87(17.17)	22.45(20.19)	28.30(26.79)	39.25(34.91)	46.30	58.60	
	Heating	A	19.81(18.30)	24.34(20.94)	27.36(26.04)	37.36(34.53)	44.40	52.90	
Connecting Pipe	Connection Type	Flared Joint			Welded Joint				



Standard Ducted Indoor Unit

Model	Indoor Unit TSD		75N(R)	100N(R)	125N(R)	150N(R)I	200N(R)I	250N(R)I	300N(R)I		
	Outdoor Unit TSA		75N(R)	100N(R)	125N(R)	150N(R)	200N(R)	250N(R)	150N(R)*2		
Rated Cooling Capacity			kW	20.00	25.50	30.00	40.00	52.00	62.00	79.00	
Rated Heating Capacity			kW	23.00	30.00	35.00	43.00	60.00	72.00	83.00	
Indoor Unit	Dimension (single)	Length	mm	1411	1617	1805	1859	1988	2298	2241	
		Width	mm	700	700	700	1000	1100	1100	1300	
		Height	mm	540	540	540	690	780	820	1027	
	Weight(single)		kg	93	125	147	200	240	298	340	
	Fan Motor	Air Flow	m³/h	4300	4800	6000	7500	9000	11000	13000	
		ESP	Pa	100	100	120	120	150	150	180	
		Power Supply	220V ~ 50Hz				380V 3N ~ 50Hz				
	Shaft Power	kW	0.375*2	0.375*2	0.375*3	1.5	2.2	3	3		
	Optional Auxiliary Electric Heating			kW	6	9	10.2	12	18	20.4	24
	Condensate Drain Pipe			DN25 (R1)							
Return Air Inlet Dimension			mm	965*425	1172*425	1470*447	1635*580	1764*670	2074**710	1981*887	
Supply Air Outlet Dimension			mm	745*295	820*295	1216*295	930*291	864*343	1116*343	1044*409	
Total Power Input		Cooling	kW	8.00	10.00	11.90	15.00	20.80	24.50	30.89	
		Heating	kW	8.50	10.50	12.90	14.50	19.80	23.50	28.60	
Total Rated Current		Cooling	A	17.20	18.87	22.45	28.30	39.25	46.23	58.28	
		Heating	A	18.28	19.81	24.34	27.36	37.36	44.34	53.96	
Connecting Pipe	Connection Type		Flared Joint			Welded Joint					

Note:

- Rated cooling capacity is based on nominal air flow, 27℃DB/19℃WB for indoor air, 35℃DB/24℃WB outdoor ambient temperature.
- Rated heating capacity is based on nominal air flow, 20℃DB/15℃WB for indoor air, 7℃DB/6℃WB outdoor ambient temperature.
- Air volume is based on high fan speed.
- Equivalent length of pipe used for standard unit performance testing is 7.5m horizontal.
- The * is optional accessories, please contact TICA for detailed information.
- The outdoor unit has charged refrigerant (R410a). Please refer to nameplate for the charging mass. The indoor unit is with N2 for pressure holding.
- TICA reserves the right to make changes to the above specifications without prior notice.
- The cooling only unit without heating specifications data.



Purifying Ducted Indoor Unit

Model	Indoor Unit TSD		75N(R)I	100N(R)I	125N(R)I	150N(R)I	200N(R)I	250N(R)I	300N(R)I	
	Outdoor Unit TSA		75N(R)	100N(R)	125N(R)	150N(R)	200N(R)	250N(R)	150N(R)*2	
Rated Cooling Capacity			kW	20.00	25.50	30.00	40.00	52.00	62.00	79.00
Rated Heating Capacity			kW	23.00	30.00	35.00	43.00	60.00	72.00	83.00
Indoor Unit	Dimension (single)	Length	mm	1380	1586	1884	1859	1988	2298	2218
		Width	mm	620	620	620	620	620	620	620
		Height	mm	630	630	630	690	780	820	997
	Weight(single)		kg	63	78	80	100	110	120	140
	Rated Air Flow		m³/h	4300	4800	6000	7500	9000	11000	13000
	Power Supply			220V ~ 50Hz						
	Optional Auxiliary Electric Heating		kW	6	9	10.2	12	18	20.4	24
	Condensate Drain Pipe			DN25 (R1)						
	Return Air Inlet Dimension		mm	1111*530	1317*530	1615*530	1635*580	1764*670	2074*710	1980*887
	Supply Air Outlet Dimension		mm	1111*530	1317*530	1615*530	1635*580	1764*670	2074*710	1980*887
Total Power Input	Cooling	kW	8.00	10.00	11.90	15.00	20.80	24.50	30.89	
	Heating	kW	8.50	10.50	12.90	14.50	19.80	23.50	28.60	
Total Rated Current	Cooling	A	17.20	18.87	22.45	28.30	39.25	46.23	58.28	
	Heating	A	18.28	19.81	24.34	27.36	37.36	44.34	53.96	
Connecting Pipe	Connection Type		Welded Joint							

- ★ 1、There is no fan motor inside of indoor unit, control interface are reserved in the indoor control box. The fan motor on the working site has to be interlocked with indoor control box.
2、Air volume matching fan on working site should be in the 80% to 120% of nominal air flow according to specification, otherwise, the unit can not run reliably.



Fresh Air Type Indoor Unit

Model	Indoor Unit TSD		75N(R)IF	100N(R)IF	125N(R)IF	150N(R)IF	200N(R)IF	250N(R)IF	300N(R)IF	
	Outdoor Unit TSA		75N(R)	100N(R)	125N(R)	150N(R)	200N(R)	250N(R)	150N(R)*2	
Rated Cooling Capacity			kW	20.00	25.50	30.00	40.00	52.00	79.00	
Rated Heating Capacity			kW	23.00	30.00	35.00	43.00	60.00	83.00	
Indoor Unit	Dimension (single)	Length	mm	1251	1451	1551	1901	1951	2293	
		Width	mm	1204	1204	1204	1504	1604	1604	
		Height	mm	608	608	708	708	808	908	1038
		Weight(single)	kg	130	150	188	230	275	325	390
	Fan Motor	Air Flow	m³/h	1850	2450	3000	4000	5000	7000	8000
		ESP	Pa	100	200	200	200	250	250	300
		Power Supply	220V ~ 50Hz 380V 3N ~ 50Hz							
		Shaft Power	kW	0.375	0.375*2	0.375*2	1.1	1.5	2.2	3.0
	Condensate Drain Pipe			DN32						
	Return Air Inlet Dimension			mm	1008*508	1208*508	1308*608	1658*608	1708*708	1808*808
Supply Air Outlet Dimension			mm	270*295	745*295	745*295	333*292	651*265	748*292	930*292
Total Power Input		Cooling	kW	8.00	10.00	11.90	15.00	20.80	24.50	30.89
		Heating	kW	8.50	10.50	12.90	14.50	19.80	23.50	28.60
Total Rated Current		Cooling	A	17.20	18.87	22.45	28.30	39.25	46.23	58.28
		Heating	A	18.28	19.81	24.34	27.36	37.36	44.34	53.96
Connecting Pipe	Connection Type		Welded Joint							

- ★ 1、When unit needs heating under the ambient temperature which is below 0℃, we suggest reheat the fresh air with electric heater, at the same time, the indoor unit width must extend 300mm.
2、Fresh air unit is only used to handle fresh air without considering constancy of indoor temperature, indoor temperature should be guaranteed by standard air conditionings.

Note:

- Rated cooling capacity is based on nominal air flow, 27℃DB/19℃WB for indoor air, 35℃DB/24℃WB outdoor ambient temperature.
- Rated heating capacity is based on nominal air flow, 20℃DB/15℃WB for indoor air, 7℃DB/6℃WB outdoor ambient temperature.
- Air volume is based on high fan speed.
- Equivalent length of pipe used for standard unit performance testing is 7.5m horizontal.
- The * is optional accessories, please contact TICA for detailed information.
- The outdoor unit has charged refrigerant (R410a). Please refer to nameplate for the charging mass. The indoor unit is with N2 for pressure holding.
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- The cooling only unit without heating specifications data.