

## 5. Technical Specifications

Technical Specifications (R410A-Fixed Speed)						
Model No.		TAC-09CHSA/Z	TAC-12CHSA/Z	TAC-18CHSA/Z	TAC-24CHSA/Z	
Type		Heating Pump	Heating Pump	Heating Pump	Heating Pump	
Rated cooling capacity	Btu/h	9,000	12,000	18,000	24,000	
	W	2,640	3,520	5,280	7,030	
Rated heating capacity	Btu/h	9,500	12,500	18,500	24,500	
	W	2,780	3,660	5,420	7,180	
EER for cooling	Btu/h.w./W/W	9.28; 2.72	9.38; 2.75	8.37; 2.46	8.28; 2.42	
COP for heating	W/W	3	3	3	3	
Moisture removal	Liters/h	1	2	2	2	
Indoor noise level at cooling	High	dB(A)	36	39	48	
	Med.	dB(A)	34	36	46	
	Low	dB(A)	32	34	44	
Outdoor noise level	dB(A)	52	55	58	60	
Electrical Data						
Power supply Voltage Range	V	220-240V~/50Hz/1P 198~264				
Rated current	Cooling	A	4.4	5.8	9.8	13.2
	Heating	A	4.3	5.8	8.6	12.3
Rated input	Cooling	W	970	1280	2150	2900
	Heating	W	950	1270	1900	2700
Max Current	Cooling	A	5.7	7.5	12.7	17.2
	Heating	A	5.6	7.5	11.2	16
Max Power input	Cooling	W	1260	1660	2800	3770
	Heating	W	1240	1650	2470	3510
Refrigerant/Charge	Gram	R410A/470g	R410A/620g	R410A/1050g	R410A/1380g	
Suitable area	m <sup>2</sup>	9~16	15~23	20~35	30~50	
Net dimensions (W x H x D)	Indoor	mm	718x240x180	770x240x180	900x280x202	900x280x202
	Outdoor	mm	600x500x232	700x552x256	760x552x256	902x650x307
Net weight	Indoor	kg	7	8	11	11
	Outdoor	kg	25	30	36	52
Packing dimensions (W x H x D)	Indoor	mm	805x305x255	855x305x255	995x365x298	995x365x298
	Outdoor	mm	745x550x353	803x598x380	863x598x376	1037x705x433
Gross weight	Indoor	kg	9	10	14	14
	Outdoor	kg	28	34	40	58
Connections						
Connecting Pipe	Gas	Inches	3/8"	3/8"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	3/8"
Connecting Wiring	length(M)		3.8	4.3	4.3	5

## 6. Features

- Auto-protection
- Chord Response
- Strong Cooling
- 10-hour Auto Power Off
- Auto Restart
- Ioniser
- Timer Mode
- Global Power Supply Design(Plug)
- 6 Layers Rust Free
- Independent Dehumidification
- Anti-mildew
- Soft-starter Kit
- Anti-cold Air
- High Efficient Internal Thread Copper Pipe
- Easy-clean Panel & Filters
- Sleep Mode
- Quiet Operation
- Intelligent Defrost

### INVERTER AIR CONDITIONER



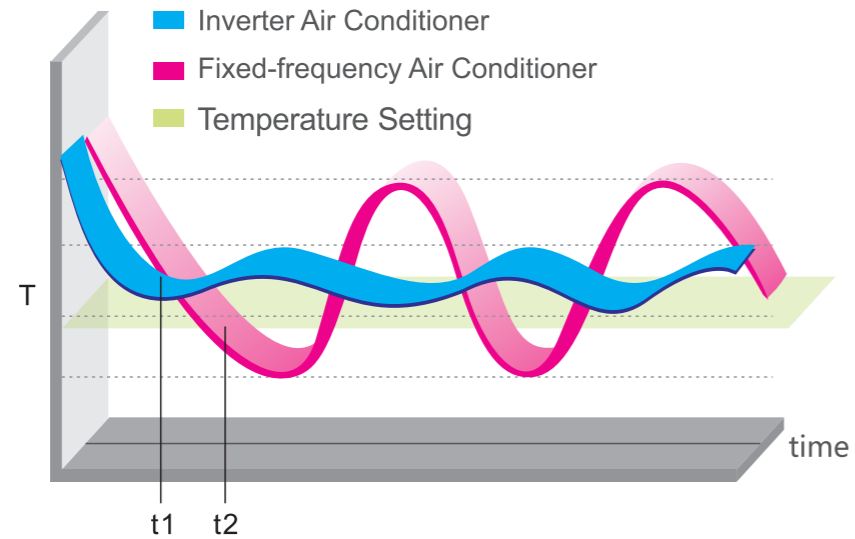
### FIXED SPEED AIR CONDITIONER





# 1.TCL Inverter Technology Solutions

Energy Saving,Healthy & Comfortable



Speedy cooling/heat up

By adjusting the rotation speed,TCL inverter air conditioner quickly cool down/heat up the room to the required conditons

## 2.The Difference Between Inverter Air Conditioner and Constant-frequency Air Conditioner

S/N	Item	Constant-speed Air Conditioner	Inverter Air Conditioner
1	Ability to Adapt to Voltage Load	Unable to adapt to the change to the voltage load automatically	Able to adapt to the change to the voltage load
2	Temperature Control Precision	Controlled by On/Off switch within a range of $\pm 2^{\circ}\text{C}$	Controlled by reducing frequency within a range of $\pm 0.2^{\circ}\text{C}$
3	Start Performance	Starting currency is larger than rated current	Soft start at a low starting current
4	Energy Conservation	Controlled by On/Off switch without saving power	Maintained at a low frequency automatically, saving energy by 30%
5	Performance to Run at Low Voltage	Difficult to run at less than 180V	Able to run even at 160V normally
6	Cooling & Heating Speed	Slow	Fast
7	Heating/Cooling Ratio	$\leq 120\%$	$\geq 140\%$
8	Heating at a Low Temperature	Poor below $0^{\circ}\text{C}$	Still good at $-10^{\circ}\text{C}$
9	Defrosting Performance	Poor	Accurate and fast, only take 1/2 of the time consumed by common air conditioner
10	Dehumidifying Performance	Controlled by On/Off switch and feeling cold when dehumidifying	Run at a low frequency without temperature decrease, providing a healthy dehumidification result.
11	Run at Full Load	Disabled	Run at a high frequency automatically
12	Automatic Control	Simple	Completely fuzzy with neural network

# 3.Technical Specifications

Technical Specifications(R410A-DC Inverter)						
Model No.		TAC-09CHSA/ZI	TAC-12CHSA/ZI	TAC-18CHSA/ZI	TAC-24CHSA/ZI	
Type		heating pump	heating pump	heating pump	heating pump	
Rated cooling capacity	Btu/h	9000(3800~10500)	12000(5200~13500)	18000(5500~20000)	24000(6800~25600)	
	W	2640(1110~3080)	3520(1520~3960)	5280(1610~5860)	7030(1990~7500)	
Rated heating capacity	Btu/h	10250(4200~13000)	13800(5500~16500)	20000(4500~24000)	24500(7200~29000)	
	W	3000(1230~3810)	4050(1610~4840)	5860(1320~7030)	7180(2110~8500)	
EER for cooling	Btu/h.w;W/W	11.54;3.39	11.32;3.32	11.04;3.24	10.95;3.21	
COP for heating	W/W	3.66	3.62	3.20	3.21	
Moisture removal	Liters/h	0.8	1	2	2.5	
Indoor noise level at cooling	High	dB(A)	38	38	42	47
	Med.	dB(A)	36	36	40	45
	Low	dB(A)	33	34	38	42
Outdoor noise level	dB(A)	52	55	58	62	
Electrical Data						
Power supply Voltage Range	V	220-240V~50Hz/1P 198~264				
Rated current	Cooling	A	3.7(1.4~4.8)	4.9(1.8~6.1)	7.4(2.4~10.2)	10.0(2.8~10.6)
	Heating	A	4.0(1.4~5.6)	5.6(1.8~7.7)	8.3(2.1~11.1)	10.2(3.0~12.1)
Rated input	Cooling	W	820(300~1050)	1070(400~1350)	1630(520~2250)	2190(620~2340)
	Heating	W	870(300~1220)	1240(400~1700)	1830(470~2450)	2240(660~2650)
Max Current	Cooling	A	4.8	6.1	10.2	10.6
	Heating	A	5.6	7.7	11.1	12.1
Max Power input	Cooling	W	1050	1350	2250	2340
	Heating	W	1220	1700	2450	2650
Refrigerant/Charge	Gram	R410A/680g	R410A/880g	R410A/1500g	R410A/2400g	
Suitable area	m <sup>2</sup>	9-16	15-23	25-40	30-50	
Net dimensions (W x H x D)	Indoor	mm	770x240x180	770x240x180	900x280x202	1033x313x202
	Outdoor	mm	760x552x256	760x552x256	820x605x300	900x805x360
Net weight	Indoor	kg	8	8	11	14
	Outdoor	kg	30	32	40	61
Packing dimensions (W x H x D)	Indoor	mm	855x305x255	855x305x255	995x365x298	1103x400x300
	Outdoor	mm	863x598x376	863x598x376	965x650x438	1031x835x447
Gross weight	Indoor	kg	10	10	14	17
	Outdoor	kg	33	36	44	66
Connections						
Connecting Pipe	Gas	Inches	3/8"	1/2"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	3/8"
Connecting Wiring	length(M)		4.3	4.3	4.3	5

## 4.Features

Auto-protection	Chord Response	Strong Cooling	10-hour Auto Power Off	Auto Restart	Ioniser
Timer Mode	Global Power Supply Design(Plug)	6 Layers Rust Free	Independent Dehumidification	Anti-mildew	Soft-starter Kit
Anti-cold Air	High Efficient Internal Thread Copper Pipe	Easy-clean Panel & Filters	Sleep Mode	Quiet Operation	Intelligent Defrost