



TOYO-AC

Air Condition Co. LTD
JAPAN Technology

Light Commercial

TOYO-AC Co.Ltd

WORLD'S FAMILY, COMFORT QUALITY

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TOYO-AC
2019
Catalogue

WWW.TOYO-AC.CO.JP

Product Lineup

50Hz Cooling Only Series



Series	Appearance	Refrigerant	Type	18kBTu/h	24kBTu/h	36kBTu/h	48kBTu/h	60kBTu/h	Page
Outdoor Units		R410A	ON/OFF	●	●	●	●	●	10
Cassette		R410A	ON/OFF	●	●	●	●	●	11
Ceiling&Floor		R410A	ON/OFF	●	●	●	●	●	13
Mid ESP Duct		R410A	ON/OFF	●	●	●	●	●	15

50Hz Heating Pump Series



Series	Appearance	Refrigerant	Type	12kBTu/h	18kBTu/h	24kBTu/h	36kBTu/h	48kBTu/h	60kBTu/h	Page
Outdoor Units		R410A	ON/OFF	●	●	●	●	●	●	18
Cassette		R410A	ON/OFF	●	●	●	●	●	●	19
Ceiling&Floor		R410A	ON/OFF		●	●	●	●	●	21
Mid ESP Duct		R410A	ON/OFF	●	●	●	●	●	●	23
High ESP Duct		R410A	ON/OFF					●	●	26

Commercial High ESP Duct/Floor Standing

Series	Appearance	Refrigerant	Type	80kBTu/h	100kBTu/h	Page
Outdoor Units		R410A	ON/OFF	●	●	30
Outdoor Units		R410A	ON/OFF	●	●	31
High ESP Duct		R410A	ON/OFF	●	●	29
Floor Standing		R410A	ON/OFF	●	●	33

50Hz Inverter Series



Series	Appearance	Refrigerant	Type	12kBTu/h	18kBTu/h	24kBTu/h	30kBTu/h	36kBTu/h	42kBTu/h	48kBTu/h	60kBTu/h	Page
Outdoor Units		R32	DC Inverter	●	●	●	●	●	●	●	●	38
		R410A	DC Inverter		●	●	●	●	●	●	●	39
Cassette		R32	DC Inverter	●	●	●	●	●	●	●	●	42
		R410A	DC Inverter		●	●	●	●	●	●	●	43
Ceiling&Floor		R32	DC Inverter		●	●	●	●	●	●	●	46
		R410A	DC Inverter		●	●	●	●	●	●	●	47
Duct		R32	DC Inverter		●	●	●	●	●	●	●	50
		R410A	DC Inverter		●	●	●	●	●	●	●	51

Product Lineup

Inverter Free match Series



Series	Appearance	Refrigerant	Type	14kBTu/h	18kBTu/h	21kBTu/h	27kBTu/h	36kBTu/h	42kBTu/h	Page
1 Drive 2		R32	DC Inverter	●	●					54
1 Drive 3		R32	DC Inverter			●	●			54
1 Drive 4		R32	DC Inverter					●		54
1 Drive 5		R32	DC Inverter						●	54
1 Drive 2		R410A	DC Inverter	●	●					55
1 Drive 3		R410A	DC Inverter			●	●			55
1 Drive 4		R410A	DC Inverter					●		55
1 Drive 5		R410A	DC Inverter						●	55

Inverter Free match Series-Indoor Units



Series	Appearance	Refrigerant	Type	7kBTu/h	9kBTu/h	12kBTu/h	18kBTu/h	24kBTu/h	Page
L Type		R32	50Hz	●	●	●	●		56
F Type		R32	50Hz	●	●	●	●	●	56
J Type		R32	50Hz	●	●	●	●	●	57
Compact Cassette		R32	50Hz		●	●	●		57
Slim Duct		R32	50Hz	●	●	●	●		38
Ceiling&Floor		R32	50Hz		●	●	●		38

Inverter Free match Series-Indoor Units



Series	Appearance	Refrigerant	Type	7kBTu/h	9kBTu/h	12kBTu/h	18kBTu/h	Page
L Type		R410A	50Hz	●	●	●	●	59
F Type		R410A	50Hz	●	●	●	●	59
Compact Cassette		R410A	50Hz		●	●	●	60
Slim Duct		R410A	50Hz	●	●	●	●	60
Ceiling&Floor		R410A	50Hz		●	●	●	61

Health



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.



Self-Cleaning

Indoor unit will continue running with special combined mode to blow and dry indoor evaporator after the unit switch off so as to keep clean and healthy.

Comfort



Anti-Cold-Air

When starting the heating operation, the fan speed is regulated automatically from the lowest speed to the preset level. This function can prevent cold air from blowing out at the beginning of the operation, which avoids the discomfort to the user.



Follow Me

Temperature sensor built in the remote control will sense its surrounding temperature, so the unit can achieve accurate and comfortable temperature control just like the air conditioner is following you.



Fast Cooling /Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Auto swing

Distributes cool/warm air to maximum area by moving horizontal and vertical fags automatically.



Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



3D Air Flow

Combine vertical and horizontal auto swing to ensure an even distribution of air flow throughout the room.



Dimmer

Press this button to shut off the display light on the front panel.



Silent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

Reliability



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Intelligent Defrosting

Normal defrost function can only be operated in certain time, but TOYO commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.



Optional Electric Heater

Built-in auxiliary electric heater as option, the heating performance will be more powerful.



Fire-proof Electric Box

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.

Energy Saving



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smooth running and lower noise.



0.5W 0.5W Standby

Intelligent technology enables TOYO products to cut energy consumption from normal 5W to 0.5W per hour when standby, which counts 90% of saving.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



Full Process By DC Drive

DC control, DC Compressor, DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

Convenience



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage pan.



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central controller adapter.



WIFI Control

With the WIFI control, you can easily turn off the air conditioner outside your house via smart device. Furthermore, you can turn it on before you come back. The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.

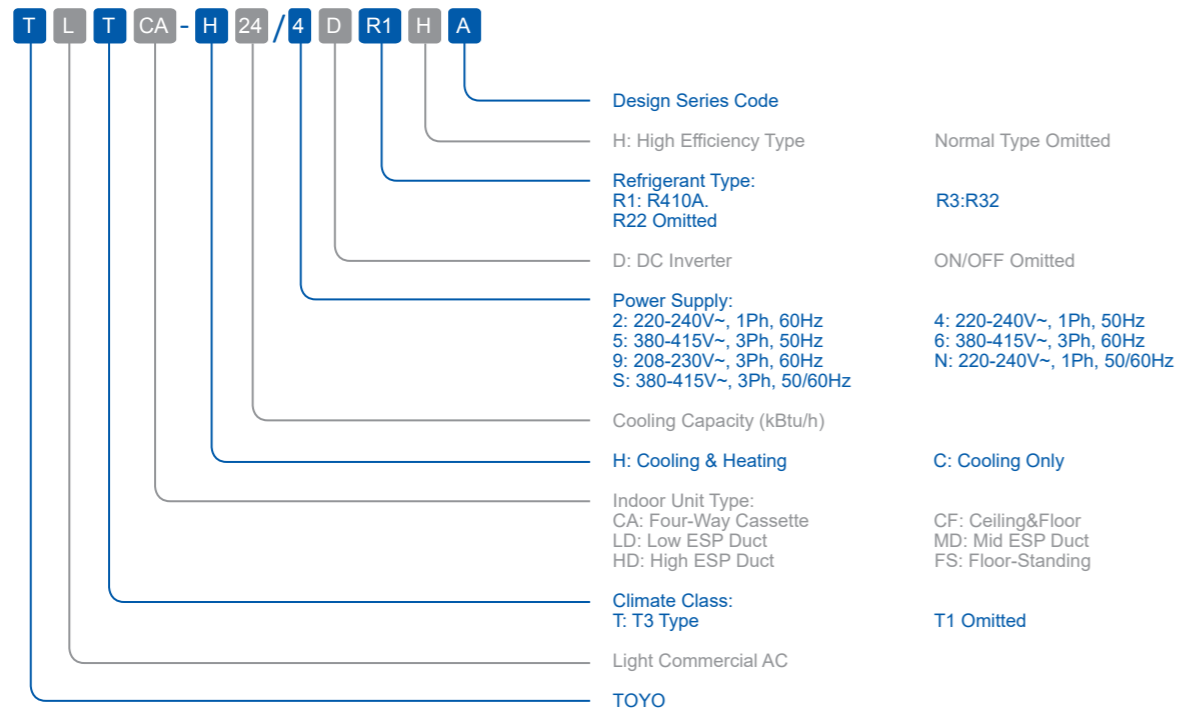


Auto Restart Function

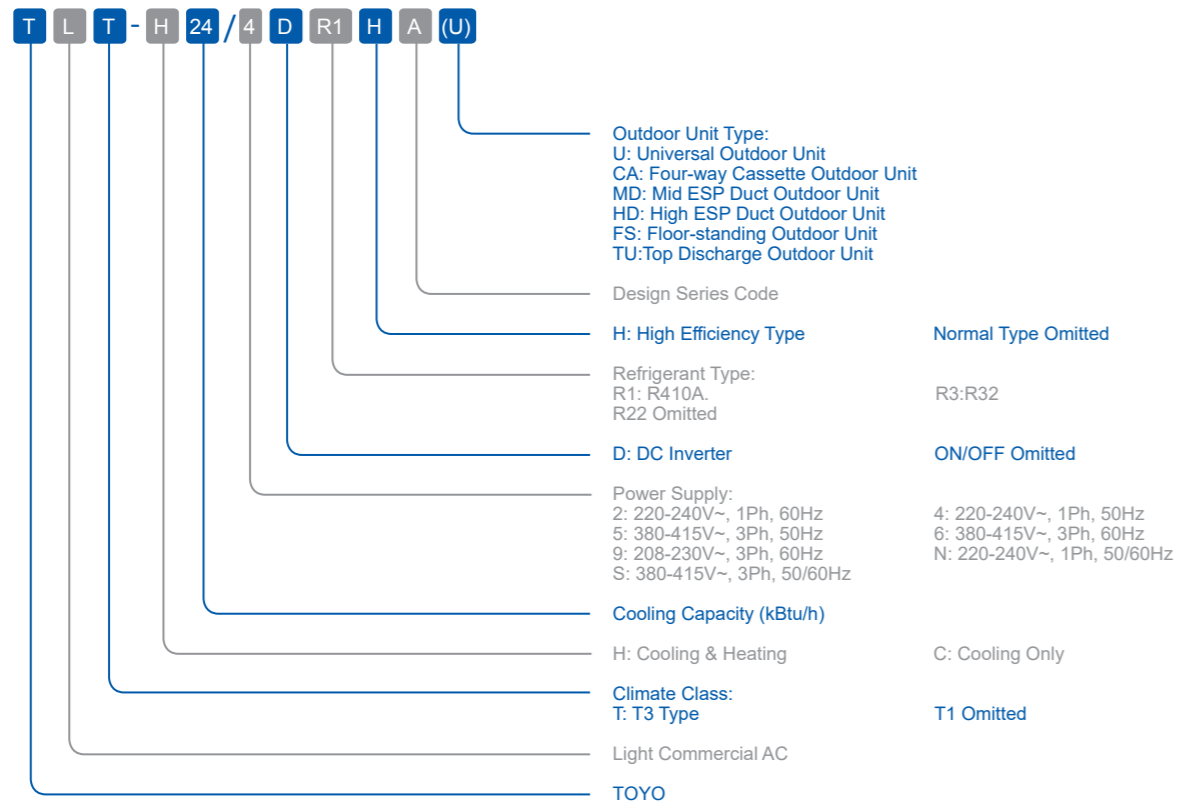
If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.

Nomenclature-Light Commercial

Indoor Unit

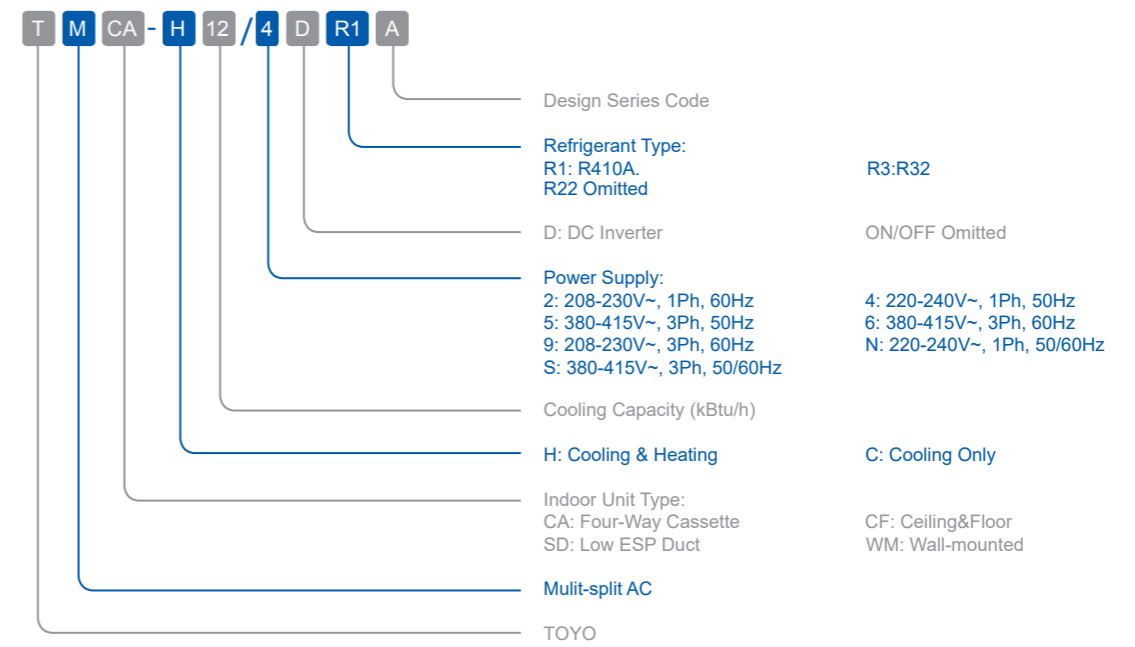


Outdoor Unit

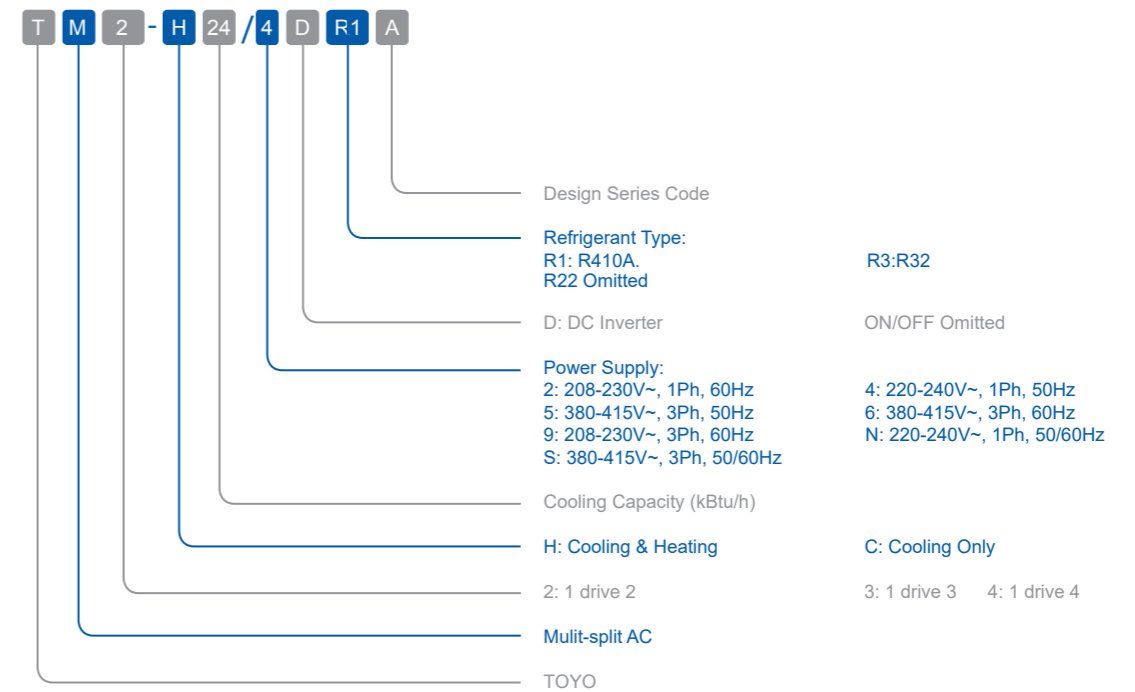


Nomenclature-Free Match

Indoor Unit



Outdoor Unit





Outdoor Unit

Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Outdoor		TL-C18/4R1A-R(U)	TL-C24/4R1A-R(U)	TL-C36/5R1A-R(U)	TL-C48/5R1A-R(U)	TL-C60/5R1A-R(U)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3	380~415,50,3
	Air Flow Volume	m³/h	2500	3500	3850	6400	6400
Performance	Noise Level	dB(A)	55	60	60	60	60
	Net	mm	800×315×545	825×310×655	970×395×805	940×370×1325	940×370×1325
Dimension (W×D×H)	Packing	mm	920×400×620	945×435×725	1105×495×895	1080×430×1440	1080×430×1440
	Net/Gross	kg	36/39	45/48.5	68/72.5	95/105	104.5/109.5
Weight	Liquid Side	mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Max. Length	m	30	30	50	50	50
	Max. Height	m	15	20	30	30	30
Piping size	Max. Length	m	30	30	50	50	50
	Max. Height	m	15	20	30	30	30
Stuffing Quantity	20/40/40H	unit	101/215/291	93/198/198	40/96/144	27/55/55	27/55/55

Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Outdoor		TLT-C18/4R1A(U)	TLT-C24/4R1A(U)	TL-C36/5R1BA-I	TL-C48/5R1AA
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Air Flow Volume	m³/h	2600	3500	3850	6400
Performance	Noise Level	dB(A)	56	56	60	60
	Net	mm	800×315×545	900×350×700	970×395×805	940×401×1366
Dimension (W×D×H)	Packing	mm	920×400×620	1020×430×770	1105×495×895	1080×460×1490
	Net/Gross	kg	39/42	49/53	68/72.5	100/111
Weight	Liquid Side	mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	19.05(3/4)
	Max. Length	m	30	30	30	50
	Max. Height	m	15	15	20	30
Piping size	Max. Length	m	30	30	30	50
	Max. Height	m	15	15	20	30
Stuffing Quantity	20/40/40H	unit	102/219/292	87/183/183	40/96/144	27/54/55

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

50Hz
Cooling Only
Series



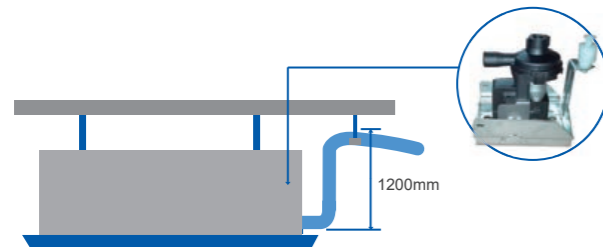
50Hz Cooling Only Series

Cassette



Built-In Drain Pump

The built-in drain pump can lift condensing water up to 1200mm high from the drainage pan.



Optional Indoor Units (Round Flow/Four-way Cassette)



Four-way Cassette

Round Flow Cassette

Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.

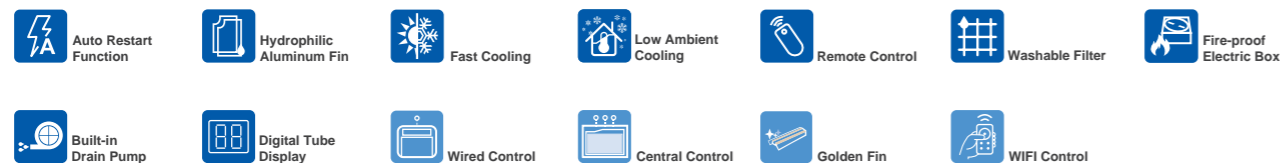


Optimized Electric Box

Better fire-proof and easy to maintenance.



FEATURES



50Hz Cooling Only Series

Cassette



Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLCA-C18/4R1AA-R	TLCA-C24/4R1AA-R	TLCA-C36/5R1AA-R	TLCA-C48/5R1AA-R	TLCA-C60/5R1AA-R
	Outdoor		TL-C18/4R1A-R(U)	TL-C24/4R1A-R(U)	TL-C36/5R1A-R(U)	TL-C48/5R1A-R(U)	TL-C60/5R1A-R(U)
Capacity	Cooling/Heating	Btu/h	18000/-	24000/-	36000/-	48000/-	60000/-
		kW	5.30/-	7.2/-	10.60/-	14.00/-	17.60/-
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	1.76/-	2.39/-	3.77/-	4.87/-	5.71/-
	InputCooling/Heating Current	A	8.00	9.20	6.76	9.00	9.00
Performance	EER/COP	W/W	3.01/-	3.01/-	2.81/-	2.87/-	3.08/-
	Air Flow Volume	m ³ /h	1100/1000/900	1100/1000/900	1500/1200/1050	2000/1800/1500	1800/1440/1260
Dimension (W×D×H)	Net/Body	mm	835×835×250	835×835×250	835×835×290	835×835×290	835×835×290
	Packing(Body)	mm	910×910×310	910×910×310	910×910×350	910×910×350	910×910×350
	Net(Panel)	mm	950×950×55	950×950×55	950×950×55	950×950×55	950×950×55
	Packing(Panel)	mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross (Body)	kg	24/27.5	24/30.5	27.5/30.5	26.5/32	28/33
	Net/Gross (Panel)	kg	5.3/7.8	5.3/7.8	5.3/7.8	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	40/81/92	34/80/90	27/62/66	22/50/55	22/50/55

Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLTCA-C18/4R1A	TLTCA-C24/4R1A	TLCA-C36/5R1BA-I	TLCA-C48/5R1AA
	Outdoor		TLT-C18/4R1A(U)	TLT-C24/4R1A(U)	TL-C36/5R1BA-I	TL-C48/5R1AA
Capacity	Cooling/Heating	Btu/h	17500/-	23500/-	36000/-	48000/-
		kW	5.13/-	6.89/-	10.26/-	14.00/-
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	1.48/-	1.96/-	3.57/-	5.02/-
	InputCooling/Heating Current	A	6.55/-	8.68/-	6.4/-	8.87/-
Performance	EER/COP	W/W	3.47/-	3.51/-	2.87/-	2.79/-
	Air Flow Volume	m ³ /h	1000/800/670	1400/1100/950	1500/1200/1050	2050/1800/1550
Dimension (W×D×H)	Net/Body	mm	835×835×250	835×835×250	835×835×250	835×835×290
	Packing(Body)	mm	910×910×310	910×910×310	910×910×310	910×910×350
	Net(Panel)	mm	950×950×55	950×950×55	950×950×55	950×950×55
	Packing(Panel)	mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross (Body)	kg	24/29	25/30	27.5/30.5	26.5/30.5
	Net/Gross (Panel)	kg	5.3/7.8	5.3/7.8	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	47/97/111	36/84/95	28/63/72	20/50/55

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Ceiling&Floor



4D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

All units are equipped with 3-speed fan mode, adjusting the air flow rate in accordance with the ceiling height. Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.



Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.



FEATURES

■ optional ■ standard

- Remote Control
- 3D Air Flow
- Auto Restart Function
- Long-term Filter
- Hydrophilic Aluminum Fin
- Fast Cooling
- Low Ambient Cooling
- Wired Control
- Central Control
- Golden Fin
- WIFI Control

Ceiling&Floor



Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLCF-C18/4R1A-R	TLCF-C24/4R1A-R	TLCF-C36/5R1A-R
	Outdoor		TL-C18/4R1A-R(U)	TL-C24/4R1A-R(U)	TL-C36/5R1A-R(U)
Capacity	Cooling/Heating	Btu/h	18000/-	24000/-	36000/-
		kW	5.30/-	7.2/-	10.60/-
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3
	Cooling/Heating Power Input	kW	1.72/-	2.35/-	3.77/-
	Cooling/Heating Current	A	7.90/-	10.09/-	6.76/-
Performance	EER/COP	W/W	3.08/-	3.06/-	2.81/-
	Air Flow Volume	m³/h	850/680/595	1200/960/840	1500/1200/1050
	Noise Level	dB(A)	43/40/34	46/43/38	50/47/41
Dimension (W×D×H)	Net	mm	929×660×205	1280×660×205	1280×660×205
	Packing	mm	1010×720×290	1360×720×290	1360×720×290
Weight	Net/Gross	kg	25/28	32/37	33/40
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	54/120/144	48/99/109	36/75/86

Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLCF-C48/5R1A-R	TLCF-C60/5R1A-R
	Outdoor		TL-C48/5R1A-R(U)	TL-C60/5R1A-R(U)
Capacity	Cooling/Heating	Btu/h	48000/-	60000/-
		kW	14.00/-	17.60/-
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	5.7/-	5.71/-
	Cooling/Heating Current	A	9.3/-	10.42/-
Performance	EER/COP	W/W	2.87/-	3.08/-
	Air Flow Volume	m³/h	1800/1440/1260	1800/1440/1260
	Noise Level	dB(A)	51/48/42	51/48/42
Dimension (W×D×H)	Net	mm	1631×660×205	1631×660×205
	Packing	mm	1710×720×290	1710×720×290
Weight	Net/Gross	kg	44/52	44/52
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	24/54/54	24/54/54

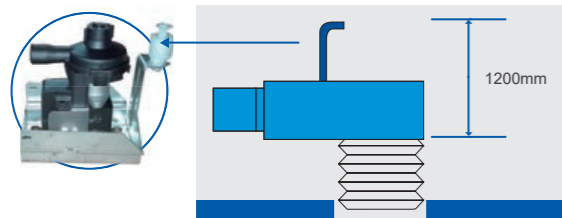
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Mid ESP Duct



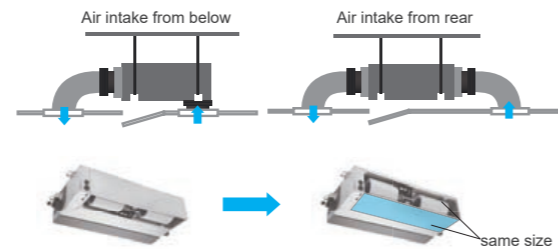
Built In With Water Pump (Optional)

The built-in pump can lift condensing water up to 1200mm high from the drainage pan.



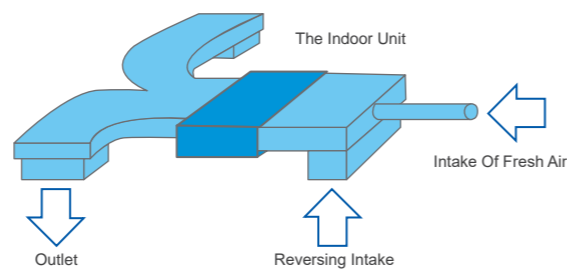
Flexible Installation

Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



FEATURES

- Wired Control
- Auto Restart Function
- Long-term Filter
- Hydrophilic Aluminum Fin
- Fast Cooling
- Low Ambient Cooling
- Remote Control
- Central Control
- Golden Fin
- WIFI Control

Mid ESP Duct



Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLMD-C18/4R1A-R	TLMD-C24/4R1A-R	TLMD-C36/5R1A-R
	Outdoor		TL-C18/4R1A-R(U)	TL-C24/4R1A-R(U)	TL-C36/5R1A-R(U)
Capacity	Cooling/Heating	Btu/h	18000/-	24000/-	36000/-
		kW	5.30/-	7.20/-	10.60/-
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3
	Cooling/Heating Power Input	kW	1.73/-	2.39-	3.73/-
	Cooling/Heating Current	A	8.0/-	9.5/-	6.69/-
Performance	EER/COP	W/W	3.06/-	3.01/-	2.84/-
	Air Flow Volume	m ³ /h	950/800/700	1300/1250/1150	2000/1600/1400
	Noise Level	dB(A)	44/41/35	47/44/38	50/47/41
	ESP	Pa	50/80	50/80	50/80
Dimension (W×D×H)	Net	mm	890×735×290	890×735×290	890×735×290
	Packing	mm	1070×800×360	1070×800×360	1070×800×360
Weight	Net/Gross	kg	34/40	36/42	36/42
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	48/104/122	40/82/106	30/70/82

Specification-R410A 50Hz ON/OFF Cooling-Only

Model	Indoor		TLMD-C48/5R1A-R	TLMD-C60/5R1A-R
	Outdoor		TL-C48/5R1A-R(U)	TL-C60/5R1A-R(U)
Capacity	Cooling/Heating	Btu/h	48000/-	60000/-
		kW	14.00/-	17.60/-
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	4.87/-	5.71/-
	Cooling/Heating Current	A	10.0/-	10.0/-
Performance	EER/COP	W/W	2.87/-	3.08/-
	Air Flow Volume	m ³ /h	2100/2000/1600	2800/2240/1960
	Noise Level	dB(A)	51/49/46	53/50/44
	ESP	Pa	50/80	50/80
Dimension (W×D×H)	Net	mm	1250×785×290	1250×785×290
	Packing	mm	1435×885×370	1435×885×370
Weight	Net/Gross	kg	45/51	45/51
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	21/42/49	21/42/49

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Outdoor Unit

Specification-R410A 50Hz ON/OFF

Model	Outdoor		TL-H12/4R1F-R(U)	TL-H18/4R1F-R(U)	TL-H24/4R1F-R(U)	TL-H36/4R1F-R(U)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Air Flow Volume	m ³ /h	1980	2600	3000	3850
Performance	Noise Level	dB(A)	53	55	57	60
	Net	mm	730×285×545	800×315×545	825×310×655	970×395×805
Dimension (W×D×H)	Packing	mm	845×370×620	920×400×620	945×435×725	1105×495×895
	Compressor	Type	Rotary			
Weight	Net/Gross	kg	28/32	42/45	53/56	65/75
	Liquid Side	mm(inch)	6.35	6.35	9.52	9.52
Piping size	Gas Side	mm(inch)	12.7	12.7	15.88	15.88
	Max. Length	m	15	20	20	30
	Max. Height	m	10	15	15	20
Stuffing Quantity	20/40/40H	unit	119/261/348	101/215/291	93/198/198	40/96/144

Specification-R410A 50Hz ON/OFF

Model	Outdoor		TL-H36/5R1F-R(U)	TL-H48/5R1F-R(U)	TL-H60/5R1F-R(U)
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Air Flow Volume	m ³ /h	3850	5800	5800
Performance	Noise Level	dB(A)	60	60	60
	Net	mm	970×395×805	940×370×1325	940×370×1325
Dimension (W×D×H)	Packing	mm	1105×495×895	1080×430×1440	1080×430×1440
	Compressor	Type	Rotary		
Weight	Net/Gross	kg	65/75	95/105	99/109
	Liquid Side	mm(inch)	9.52	9.52	9.52
Piping size	Gas Side	mm(inch)	15.88	19.05	19.05
	Max. Length	m	30	50	50
	Max. Height	m	20	30	30
Stuffing Quantity	20/40/40H	unit	40/96/144	27/55/55	27/55/55

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

50Hz Heating Pump Series





Cassette

Specification-R410A 50Hz ON/OFF

Model	Indoor		TLCA-H12/4R1E1A-R	TLCA-H18/4R1E1A-R	TLCA-H24/4R1E1A-R	TLCA-H36/4R1E1A-R
	Outdoor		TL-H12/4R1F-R(U)	TL-H18/4R1F-R(U)	TL-H24/4R1F-R(U)	TL-H36/4R1F-R(U)
Capacity	Cooling/Heating	Btu/h	12000/13500	18000/19100	24000/26900	36000/39920
		kW	3.52/3.96	5.28/5.60	7.03/7.88	10.6/11.7
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	kW	1.19/1.20	1.70/1.64	2.26/2.31	3.77/3.50
	Cooling/Heating Current	A	5.32/5.60	7.80/7.52	10.37/10.60	17.30/16.60
Performance	EER/COP	W/W	3.03/3.25	3.1/3.41	3.11/3.41	2.81/3.34
	Air Flow Volume	m³/h	750/650/580	800/730/660	1200/950/800	1500/1200/1050
Dimension (W×D×H)	Net(Body)	mm	570×570×260	570×570×260	835×835×250	835×835×250
	Packing(Body)	mm	655×655×295	655×655×295	910×910×310	910×910×310
	Net(Panel)	mm	650×650×55	650×650×55	950×950×55	950×950×55
	Packing(Panel)	mm	710×710×80	710×710×80	1000×1000×100	1000×1000×100
Weight	Net/Gross (Body)	kg	17/20	19/21	25/29	27/30
	Net/Gross (Panel)	kg	2.2/3.7	2.2/3.7	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	79/185/216	66/150/165	34/80/90	28/63/72

Specification-R410A 50Hz ON/OFF

Model	Indoor		TLCA-H36/5R1E1A-R	TLCA-H48/5R1E1A-R	TLCA-H60/5R1E1A-R
	Outdoor		TL-H36/5R1F-R(U)	TL-H48/5R1F-R(U)	TL-H60/5R1F-R(U)
Capacity	Cooling/Heating	Btu/h	36000/39920	48000/52000	60000/63500
		kW	10.6/11.7	14.07 /15.24	17.60 /18.50
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	3.77/3.50	4.90/5.05	6.26/5.78
	Cooling/Heating Current	A	6.76/6.28	8.88/9.33	12.34/10.36
Performance	EER/COP	W/W	2.81/3.34	2.87/3.02	2.81/3.2
	Air Flow Volume	m³/h	1500/1200/1050	1800/1440/1260	1800/1440/1260
Dimension (W×D×H)	Net(Body)	mm	835×835×250	835×835×290	835×835×290
	Packing(Body)	mm	910×910×310	910×910×350	910×910×350
	Net(Panel)	mm	950×950×55	950×950×55	950×950×55
	Packing(Panel)	mm	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross (Body)	kg	27/30	28/32	28/32
	Net/Gross (Panel)	kg	5.3/7.8	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	28/63/72	22/50/55	22/50/55

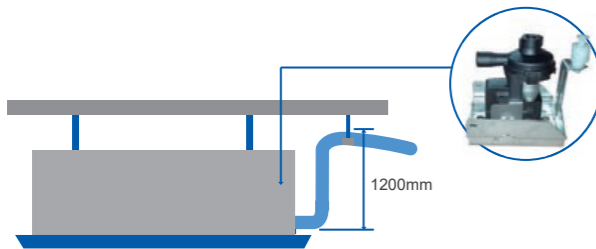
★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Cassette



Built-In Drain Pump

The built-in drain pump can lift condensing water up to 1200mm high from the drainage pan.



Optional Indoor Units (Round Flow/Four-way Cassette)



Four-way Cassette

Round Flow Cassette

Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Optimized Electric Box

Better fire-proof and easy to maintenance.



FEATURES

- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Remote Control
- Washable Filter
- Fire-proof Electric Box
- Built-in Drain Pump
- Digital Tube Display
- Wired Control
- Central Control
- Golden Fin
- WIFI Control

Ceiling&Floor



3D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

All units are equipped with 3-speed fan mode, adjusting the air flow rate in accordance with the ceiling height. Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.



Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.



FEATURES

■ optional ■ standard

- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Remote Control
- 3D Air Flow
- Long-term Filter
- Wired Control
- Central Control
- Golden Fin
- WIFI Control

Ceiling&Floor



Specification-R410A 50Hz ON/OFF

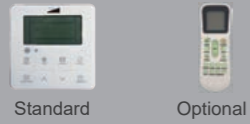
Model	Indoor		TLCF-H18/4R1F-R	TLCF-H24/4R1F-R	TLCF-H36/4R1F-R
	Outdoor		TL-H18/4R1F-R(U)	TL-H24/4R1F-R(U)	TL-H36/4R1F-R(U)
Capacity	Cooling/Heating	Btu/h	18000/19100	24000/26900	36000/39920
		kW	5.28/5.60	7.03/7.88	10.6/11.7
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	kW	1.70/1.64	2.26/2.31	3.77/3.50
	Cooling/Heating Current	A	7.80/7.52	10.37/10.60	17.30/16.60
Performance	EER/COP	W/W	3.1/3.41	3.1/3.41	2.81/3.34
	Air Flow Volume	m ³ /h	850/680/595	1200/960/840	1500/1200/1050
	Noise Level	dB(A)	43/40/34	46/43/38	50/47/41
Dimension (W×D×H)	Net	mm	929×660×205	1280×660×205	1280×660×205
	Packing	mm	1010×720×290	1360×720×290	1360×720×290
Weight	Net/Gross	kg	25/28	32/37	33/40
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	54/120/144	48/99/109	36/75/86

Specification-R410A 50Hz ON/OFF

Model	Indoor		TLCF-H36/5R1F-R	TLCF-H48/5R1F-R	TLCF-H60/5R1F-R
	Outdoor		TL-H36/5R1F-R(U)	TL-H48/5R1F-R(U)	TL-H60/5R1F-R(U)
Capacity	Cooling/Heating	Btu/h	36000/39920	48000/52000	60000/63500
		kW	10.6/11.7	14.07 /15.24	17.60 /18.50
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	3.77/3.50	4.90/5.05	6.26/5.78
	Cooling/Heating Current	A	6.76/6.28	8.88/9.33	12.34/10.36
Performance	EER/COP	W/W	2.81/3.34	2.87/3.02	2.81/3.2
	Air Flow Volume	m ³ /h	1500/1200/1050	1800/1440/1260	1800/1440/1260
	Noise Level	dB(A)	50/47/41	51/48/42	51/48/42
Dimension (W×D×H)	Net	mm	1280×660×205	1631×660×205	1631×660×205
	Packing	mm	1360×720×290	1710×720×290	1710×720×290
Weight	Net/Gross	kg	33/40	44/52	44/52
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	36/75/86	24/54/54	24/54/54

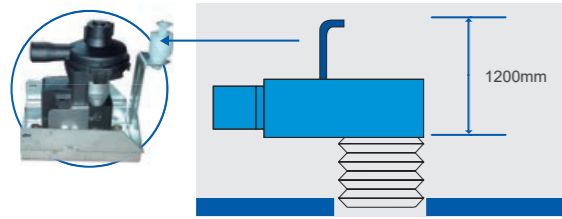
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Mid ESP Duct



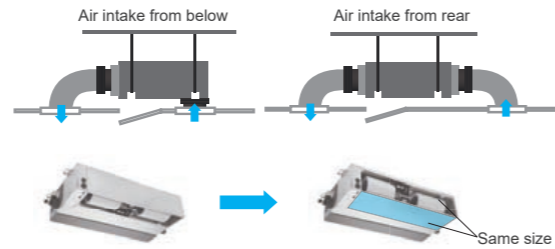
Built-In Drain Pump (Optional)

The built-in drain pump can lift condensing water up to 1200mm high from the drainage pan.



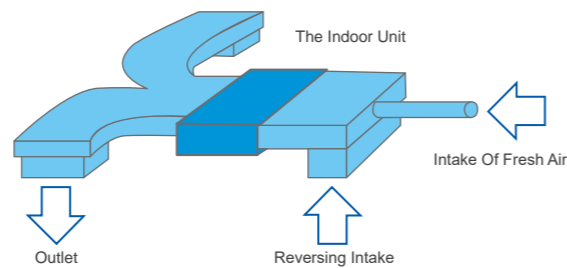
Flexible Installation

Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



FEATURES

- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Long-term Filter
- Wired Control
- Remote Control
- Central Control
- Golden Fin
- WIFI Control

Mid ESP Duct



Specification-R410A 50Hz ON/OFF

Model	Indoor		TLLD-H12/4R1F-R	TLMD-H18/4R1F-R	TLMD-H24/4R1F-R	TLMD-H36/4R1F-R
	Outdoor		TL-H12/4R1F-R(U)	TL-H18/4R1F-R(U)	TL-H24/4R1F-R(U)	TL-H36/4R1F-R(U)
Capacity	Cooling/Heating	Btu/h	12000/12750	18000/19100	24000/26900	36000/39920
		kW	3.52/3.73	5.28/5.60	7.03/7.88	10.6/11.7
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	kW	1.14/1.15	1.70/1.55	2.26/2.18	3.77/3.50
	Cooling/Heating Current	A	5.49/5.63	7.80/7.11	10.37/10.00	17.30/16.60
Performance	EER/COP	W/W	3.08/3.24	3.1/3.61	3.11/3.61	2.81/3.34
	Air Flow Volume	m ³ /h	616/613/513/433/388	950/760/665	1400/1250/1050	2000/1600/1400
	Noise Level	dB(A)	39/37/33/29/26	38/35/32	46/44/42	50/47/41
	ESP	Pa	20	80	80	80
Dimension (W×D×H)	Net	mm	700×450×200	890×735×290	890×735×290	890×735×290
	Packing	mm	1005×560×275	1070×800×360	1070×800×360	1070×800×360
Weight	Net/Gross	kg	18/21	32/37	33/38	35/39
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	80/171/192	48/104/122	40/82/106	30/70/82

Specification-R410A 50Hz ON/OFF

Model	Indoor		TLMD-H36/5R1F-R	TLMD-H48/5R1F-R	TLMD-H60/5R1F-R
	Outdoor		TL-H36/5R1F-R(U)	TL-H48/5R1F-R(U)	TL-H60/5R1F-R(U)
Capacity	Cooling/Heating	Btu/h	36000/39920	48000/52000	60000/63500
		kW	10.6/11.7	14.07 /15.24	17.60 /18.50
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	3.73/3.50	4.90/5.05	6.26/5.78
	Cooling/Heating Current	A	6.69/6.28	8.88/9.33	12.34/10.36
Performance	EER/COP	W/W	2.84/3.34	2.87/3.02	2.81/3.2
	Air Flow Volume	m ³ /h	2000/1600/1400	2400/2100/1700	2600/2300/1950
	Noise Level	dB(A)	50/47/41	49/46/44	50/47/45
	ESP	dB(A)	80	80	80
Dimension (W×D×H)	Net	mm	890×735×290	1250×735×290	1250×735×290
	Packing	mm	1070×800×360	1430×800×360	1430×800×360
Weight	Net/Gross	kg	35/39	45/51	50/56
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity		set	30/70/82	22/46/49	22/46/49

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Mid ESP Duct



Specification-R410A 50Hz High Efficiency ON/OFF

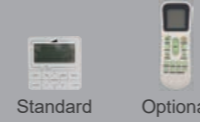
Model	Indoor		TLTMD-H18/4R1A-L	TLTMD-H24/4R1A-L	TLTMD-H30/4R1A-L
	Outdoor		TLT-H18/4R1A-L(U)	TLT-H24/4R1A-L(U)	TLT-H30/4R1A-L(U)
Capacity	Cooling Capacity(T1/T3)	Btu/h	18000/15300	24000/21200	30000/26500
		kW	5.28/4.48	7.03/6.21	8.79/7.77
	Heating Capacity(T1)	Btu/h	15300	21200	26500
		kW	4.48	6.21	7.77
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling Power Input(T1/T3)	kW	1.7/1.97	2.26/2.80	2.83/2.75
	Cooling Current(T1/T3)	A	7.6/8.80	10/12.40	12.5/15.60
	Heating Power Input(T1)	kW	1.6	2.3	2.8
	Heating Current(T1)	A	7.3	10.3	12.2
	EER(T1/T3)	W/W	10.59/7.77	10.61/7.57	10.61/7.57
Performance	COP(T1)	W/W	11.6	11.6	11.6
	Air Flow Volume(Hi/Mid/Low)	m³/h	950/760/665	1400/1250/1050	1650/1500/1350
	Noise Level(Hi/Mid/Low)	dB(A)	38/35/32	46/44/42	48/46/44
	External Static Pressure(ESP)	Pa	0-80	0-80	0-80
Dimension (W×D×H)	Net	mm	890x735x290	890x735x290	890x735x290
	Packing	mm	1070×800×360	1070×800×360	1070×800×360
Weight	Net/Gross	kg	32/36	32/35.5	33/37
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	45/104/122	45/98/108	41/94/112

Specification-R410A 50Hz High Efficiency ON/OFF

Model	Indoor		TLTMD-H36/4R1A-L	TLTMD-H48/5R1A-L	TLTMD-H60/5R1A-L
	Outdoor		TLT-H36/4R1A-L(U)	TLT-H48/5R1A-L(U)	TLT-H60/5R1A-L(U)
Capacity	Cooling Capacity(T1/T3)	Btu/h	36000/31800	48000/42000	55000/48000
		kW	10.55/9.32	14.07/12.31	16.12/14.07
	Heating Capacity(T1)	Btu/h	31800	42000	48000
		kW	9.32	12.31	14.07
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	380-415,50,3	380-415,50,3
	Cooling Power Input(T1/T3)	kW	3.39/4.20	4.52/5.60	5.18/6.40
	Cooling Current(T1/T3)	A	15/18.70	7.9/9.70	8.9/11.10
	Heating Power Input(T1)	kW	3.4	4.5	5.16
	Heating Current(T1)	A	15.2	7.8	8.9
	EER(T1/T3)	W/W	10.61/7.57	10.61/7.50	10.61/7.50
Performance	COP(T1)	W/W	11.6	11.6	11.6
	Air Flow Volume(Hi/Mid/Low)	m³/h	2100/1850/1600	2400/2100/1700	2600/2300/1950
	Noise Level(Hi/Mid/Low)	dB(A)	49/45/43	53/50/47	50/47/45
	External Static Pressure(ESP)	Pa	0-100	0-120	0-120
Dimension (W×D×H)	Net	mm	1250x735x290	1250x735x290	1250x735x290
	Packing	mm	1430×800×360	1430×800×360	1430×800×360
Weight	Net/Gross	kg	42/48	45/51	50/56
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	40/70/84	27/54/54	27/54/54

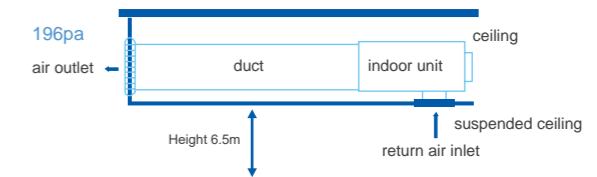
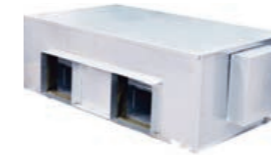
★ Remark:
 1.The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.
 2.Cooling Capacity and Cooling Input Power :Indoor Temperature 26.7°C DB/19.4°C WB;Ambient Temperature 35°C DB/24°C WB.
 3.Heating Capacity and Heating Input Power :Indoor Temperature 20°C DB;Ambient Temperature 7°C DB/6°C WB.
 4.The Max.Ambient temperature for units running is 55°C.

High ESP Duct



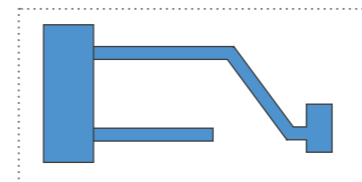
High Static Pressure

ESP range is optional, can reach 196Pa, It suits 6.5m super high ceiling air supply.

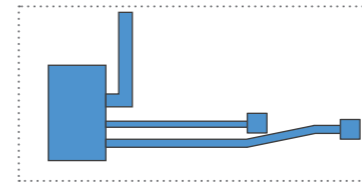


Long Distance Air Supply

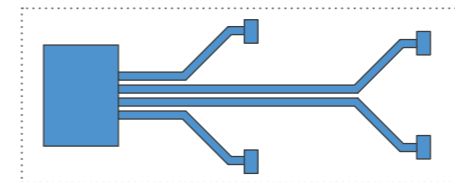
It is suitable for long distance air supply and flexible air duct installation. Specially for different irregular size room.



Long and narrow size room

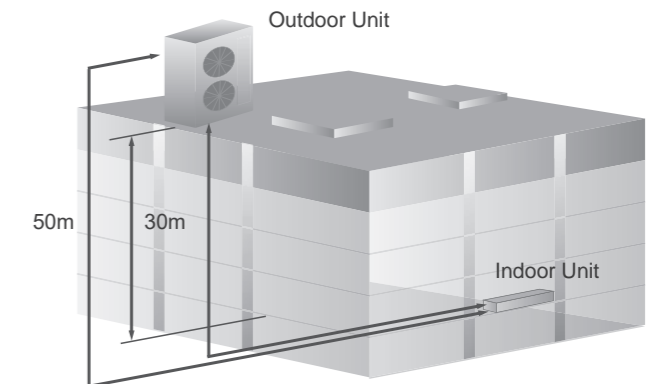


L size room



Oversize room

Long Pipe and Large Height Difference



High ESP Duct



Specification-R410A 50Hz ON/OFF

Model	Indoor		TLHD-H48/5R1	TLHD-H60/5R1
Capacity	Cooling/Heating	Btu/h	48000/53000	60000/63000
		kW	14.00/15.5	17.60/18.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	4.87/5.13	5.71/6.00
	Cooling/Heating Current	A	8.88/9.33	10.41/10.91
	EER/COP	W/W	2.87/3.02	3.08/3.08
Performance	Air Flow Volume	m³/h	2000/1600/1400	2000/1600/1400
	Noise Level	dB(A)	60/57/51	60/57/51
	ESP	Pa	196	196
Dimension (W×D×H)	Net	mm	1200×719×380	1200×719×380
	Packing	mm	1235×760×415	1235×760×415
Weight	Net/Gross	kg	55/58	55/59
	Piping size	Drainage	mm(Inch)	DN20(R3/4)
	Outdoor		TL-H48/5R1D(U)	TL-H60/5R1D(U)
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3
Air Flow Volume		m³/h	6400	6400
Performance	Noise Level	dB(A)	60	60
Dimension (W×D×H)	Net	mm	940×401×1366	940×401×1366
	Packing	mm	1080×460×1490	1080×460×1490
Compressor	Type		Rotary	
Weight	Net/Gross	kg	101/112	102/113
	Piping size	Liquid Side	mm(inch)	9.52(3/8)
Gas Side		mm(inch)	19.05(3/4)	19.05(3/4)
Max. Length		m	50	50
Max. Height		m	30	30
Stuffing Quantity	20/40/40H	set	24/54/55	24/54/55

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Commercial High ESP Duct

FEATURES

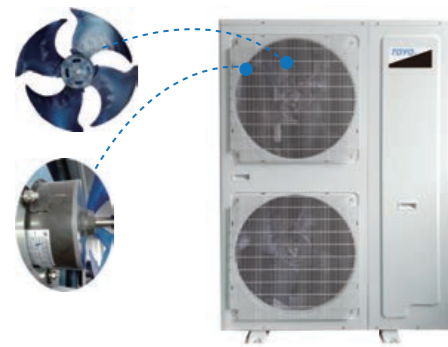
- optional standard
- Wired Control
- Auto Restart Function
- Anti-Cold-Air
- Compressor Heating belt
- Hydrophilic Aluminum Fin
- Low Ambient Cooling
- Fast Cooling/Heating
- Long-term Filter
- Intelligent Defrosting
- Self-diagnosis Function
- Remote Control
- Central Control
- WiFi Control

High ESP Duct



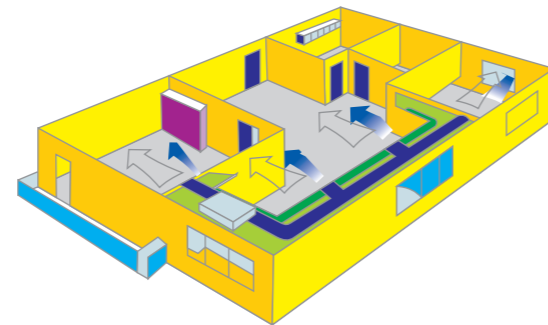
Three Speed Fan Motor

Outdoor unit 3 fan speeds with better low temp. cooling.



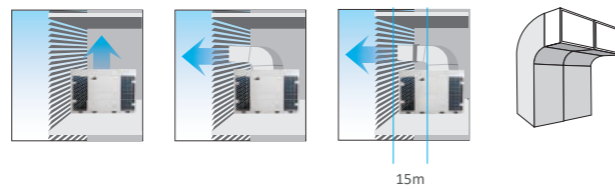
Long Distance Air Supply

High ESP design makes the air supply longest distance 50m, and the air supplied is distributed well.



Outdoor Units Optional

Side Discharge and Top Discharge can be selected as needed.



Wide Operation Range

The unit could operate perfectly between 52°C in hot summer and -15°C in cold winter making you feel like spring all year around, advanced system design and strict system matching and test.



High ESP Duct



Specification-R410A Side Discharge

Model	Indoor		TLHD-H80/5R1S	TLHD-H100/5R1S
	Outdoor		TL-H80/5R1S(HD)	TL-H100/5R1S(HD)
Indoor				
Capacity	Cooling/Heating	Btu/h	76000/83600	96000/105600
		kW	22.00/24.50	28.00/31.00
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415,50,3
	Cooling/Heating Power Input	kW	8.30/7.50	10.60 /9.48
	Cooling/Heating Current	A	13.41/12.10	17.07/15.35
Performance	EER/COP	W/W	2.65/3.27	2.64/3.27
Indoor	Net Dimension	mm	1350×700×460	1350×700×460
	Packing Dimension	mm	1540×810×610	1540×810×610
	Net/Gross Weight	kg	90/110	91/111
	Air Flow Volume	m³/h	5000/4000/3600	5000/4000/3600
	Noise Leve	dB(A)	55	55
ESP	Pa	150	150	
Outdoor				
Outdoor	Net Dimension	mm	1120×400×1510	1120×400×1510
	Packing Dimension	mm	1270×545×1680	1270×545×1680
	Net/Gross Weight	kg	175/190	176/191
	Air Flow Volume	m³/h	6000×2	6000×2
	Noise Level	dB(A)	58	58
Piping size	Liquid Side	mm(inch)	9.52(3/8)×2	9.52(3/8)×2
	Gas Side	mm(inch)	19.05(3/4)×2	19.05(3/4)×2
	Max. Length	m	50	50
	Max. Height	m	20	20
Stuffing Quantity	20/40/40H	set	12/25/28	12/25/28

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High ESP Duct



Specification-R410A Top Discharge

Model	Indoor		TLHD-H80/5R1T	TLHD-H100/5R1T
	Outdoor		TL-H80/5R1T(HD)	TL-H100/5R1T(HD)
Indoor				
Capacity	Cooling/Heating	Btu/h	80000/88000	100000/110000
		kW	23.4/25.8	29.3/32.24
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415 ,50,3
	Cooling/Heating Power Input	kW	8.27/7.89	10.43/9.86
Performance	EER/COP	W/W	2.83/3.27	2.81/3.27
Indoor	Net Dimension	mm	1350×700×460	1350×700×460
	Packing Dimension	mm	1540×810×610	1540×810×610
	Net/Gross Weight	kg	91/111	91/111
	Air Flow Volume	m ³ /h	5000/4000/3600	5000/4000/3600
	Noise Leve	dB(A)	55	55
ESP	Pa	150	150	
Outdoor				
Outdoor	Net Dimension	mm	990×765×1635	990×765×1635
	Packing Dimension	mm	1030×825×1865	1030×825×1865
	Net/Gross Weight	kg	180/190	180/190
	Air Flow Volume	m ³ /h	12000	12000
	Noise Level	dB(A)	65	65
Piping size	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	19.05(3/4)	19.05(3/4)
	Max. Length	m	50	50
	Max. Height	m	25	25
Stuffing Quantity	20/40/40H	set	8/18/22	8/18/22

*Commercial
Floor&Standing*

FEATURES

■ optional ■ standard

- Remote Control
- Auto Restart Function
- Fast Cooling/ Heating
- Compressor Heating belt
- Hydrophilic Aluminum Fin
- Auto swing
- Low Ambient Cooling
- Long-term Filter
- Anti-Cold-Air
- Self-diagnosis Function
- Intelligent Defrosting
- Central Control
- WIFI Control

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Floor&Standing



Standard



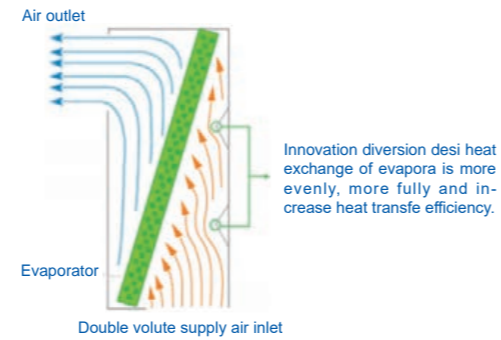
Touch Screen Design

Elegant touch screen design, longer lifetime than traditional button design.



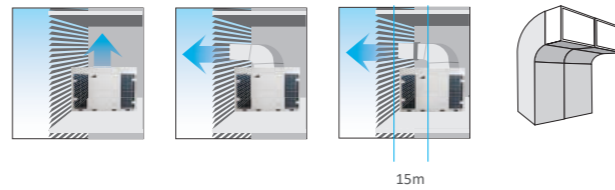
Innovative Diversion Design

The special design at air inlet side makes strong air flow more even and more efficient.



Outdoor Units Optional

Side Discharge and Top Discharge can be selected as needed.



Ultra-Slim Design

The indoor unit is only 36cm in width, save installation space.



Floor&Standing



Specification-R410A Side Discharge

Model	Indoor		TLFS-H80/5R1S	TLFS-H100/5R1S
	Outdoor		TL-H80/5R1S(FS)	TL-H100/5R1S(FS)
Indoor				
Capacity	Cooling / Heating	Btu/h	76000/83600	96000/105600
		kW	22.00/24.5	28.00/31.00
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415,50,3
	Cooling / Heating Power Input	kW	7.86/8.01	10.07/10.13
	Cooling / Heating Current	A	13.27 / 15.50	17.00/19.75
Performance	EER / COP	W/W	2.80/3.05	2.78/2.65
	Net Dimension	mm	1200×360×1850	1200×360×1850
Indoor	Packing Dimension	mm	1270×430×2000	1270×430×2000
	Net / Gross Weight	kg	110/130	111/131
	Air Flow Volume	m ³ /h	4000/3800/3600	4000/3800/3600
	Noise Level	dB(A)	56	56
Outdoor				
Outdoor	Net Dimension	mm	1120×400×1510	1120×400×1510
	Packing Dimension	mm	1270×545×1710	1270×545×1710
Outdoor	Net Weight	kg	175/190	176/191
	Air Flow Volume	m ³ /h	6000×2	6000×2
	Noise Level	dB(A)	58	58
	Liquid Side	mm(inch)	9.52(3/8)×2	9.52(3/8)×2
Piping size	Gas Side	mm(inch)	19.05(3/4)×2	19.05(3/4)×2
	Max. Length	m	50	50
	Max. Height	m	20	20
Stuffing Quantity	20/40/40H	set	9/20/20	9/20/20

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Floor&Standing



Specification-R410A Top Discharge

Model	Indoor		TLFS-H80/5R1T	TLFS-H100/5R1T
	Outdoor		TL-H80/5R1T(FS)	TL-H100/5R1T(FS)
Indoor				
Capacity	Cooling / Heating	Btu/h	80000/88000	100000/110000
		kW	23.4/25.8	29.3/32.24
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415,50,3
	Cooling / Heating Power Input	kW	7.99/8.43	10.07/10.53
Performance	EER / COP	W/W	2.93/3.06	2.91/3.06
	Net Dimension	mm	1200×360×1850	1200×360×1850
Indoor	Packing Dimension	mm	1270×430×2000	1270×430×2000
	Net / Gross Weight	kg	111/131	111/131
	Air Flow Volume	m ³ /h	4000/3800/3600	4000/3800/3600
	Noise Level	dB(A)	56	56
Outdoor				
Outdoor	Net Dimension	mm	990×765×1635	990×765×1635
	Packing Dimension	mm	1030×825×1865	1030×825×1865
	Net Weight	kg	180/190	180/190
	Air Flow Volume	m ³ /h	12000	12000
	Noise Level	dB(A)	65	65
Piping size	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	19.05(3/4)	19.05(3/4)
	Max. Length	m	50	50
	Max. Height	m	25	25
Stuffing Quantity	20/40/40H	set	9/18/18	9/18/18

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50Hz Inverter Series



Outdoor Unit



Environmental-friendly Refrigerant R32

The GWP value of R32 is smaller, so the effect on the greenhouse effect is smaller.
The ODP value of R32 is 0, so it's no harm to our planet's ozone layer.



High Efficiency

Equipped with high efficiency DC Inverter compressor, adjustable fan motor and advanced 180° sine wave vector driver, the system can be higher than 6.1 in SEER and 4.0 in SCOP so as to meet the European and Australian new energy efficiency standards.

SEER:

A++

SCOP:

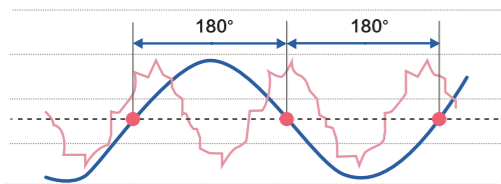
A+

Reliability

Stable cooling under -10°C and heating under -15°C outdoor environment temperature.

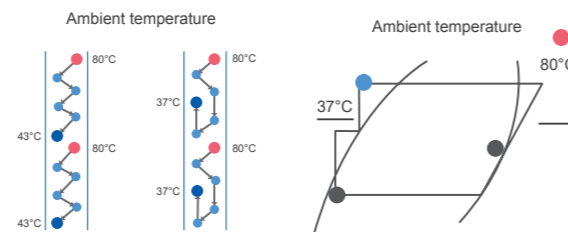
180° Sine Wave Control

DC inverter compressor uses 180° sine wave vector control technique, make compressor motor operate smoothly and efficiency increases significantly.



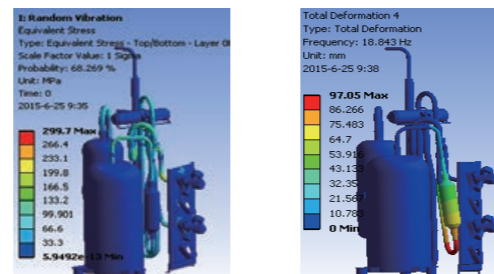
Optimized Pipeline Design

The design ensures the sub-cooling and enhances the cooling capacity by separating the refrigerant inlet and outlet.



Simulation Technology

Via analysing piping stress distribution, piping amplitude and displacement in transportation and operation, the reliability has been improved greatly.



Outdoor Unit



Specification-R32 50Hz DC Inverter



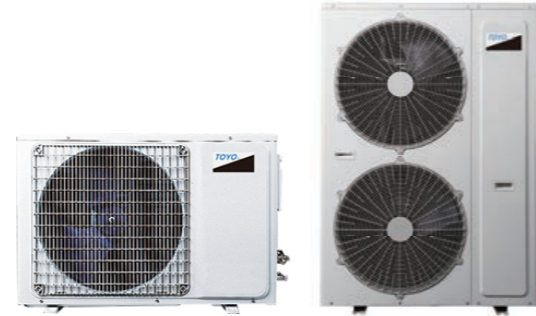
Model	Outdoor		TL-H12/NDR3A(U)	TL-H18/NDR3A(U)	TL-H24/NDR3A(U)	TL-H30/NDR3A(U)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1
	Air Flow Volume	m³/h	2600	2600	3750	3800
Performance	Sound Pressure Noise Level	dB(A)	54	55	58	57
	Sound Power Noise Level	dB(A)	63	64	66	68
Dimension (WxDxH)	Net	mm	800×315×545	800×315×545	900×350×700	970×395×805
	Packing	mm	920×400×620	920×400×620	1020×430×770	1105×495×895
Weight	Net/Gross	kg	35/38	37/40	51/55	65/69
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Max. Length	m	25	30	50	50
	Max. Height	m	10	20	25	25
Stuffing Quantity	20/40/40H	unit	102/219/292	102/219/292	87/183/183	44/96/144

Specification-R32 50Hz DC Inverter



Model	Outdoor		TL-H36/NDR3A(U)	TL-H42/NDR3A(U)	TL-H48/NDR3A(U)	TL-H60/NDR3A(U)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	380~415, 50, 3	380~415, 50, 3
	Air Flow Volume	m³/h	4000	4200	7200	7200
Performance	Sound Pressure Noise Level	dB(A)	57	57	60	60
	Sound Power Noise Level	dB(A)	66	66	70	70
Dimension (WxDxH)	Net	mm	970×395×805	970×395×805	940×370×1325	940×370×1325
	Packing	mm	1105×495×895	1105×495×895	1080×430×1440	1080×430×1440
Weight	Net/Gross	kg	72/76	72/76	100/108	100/108
	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Max. Length	m	65	65	65	65
	Max. Height	m	30	30	30	30
Stuffing Quantity	20/40/40H	unit	44/96/144	44/96/144	27/55/55	27/55/55

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Outdoor Unit

Specification-R410A 50Hz DC Inverter

Model	Outdoor		TL-H18/4DR1HA(U)	TL-H24/4DR1HA(U)	TL-H36/4DR1H(U)	TL-H42/4DR1H(U)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Air Flow Volume	m ³ /h	2600	3750	6400	6400
Performance	Sound Pressure Noise Level	dB(A)	55	58	58	58
	Sound Power Noise Level	dB(A)	64	66	67	67
Dimension (WxDxH)	Net	mm	800×315×545	900×350×700	940×401×1366	940×401×1366
	Packing	mm	920×400×620	1020×430×770	1080×460×1490	1080×460×1490
Weight	Net/Gross	kg	40/44	53/58	93/103	93/103
	Liquid Side	mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Max. Length	m	30	50	65	65
	Max. Height	m	20	25	30	30
Stuffing Quantity	20/40/40H	unit	102/219/292	87/183/183	27/55/55	27/55/55

Specification-R410A 50Hz DC Inverter

Model	Outdoor		TL-H48/5DR1H(U)	TL-H60/5DR1H(U)	TL-H36/4DR1HA(U)
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	220~240,50,1
	Air Flow Volume	m ³ /h	6400	6400	4000
Performance	Sound Pressure Noise Level	dB(A)	59	59	58
	Sound Power Noise Level	dB(A)	68	68	67
Dimension (WxDxH)	Net	mm	940×401×1366	940×401×1366	970×395×805
	Packing	mm	1080×460×1490	1080×460×1490	1105×495×895
Weight	Net/Gross	kg	108/116	108/116	72/76
	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	19.05(3/4)	19.05(3/4)	15.88(5/8)
	Max. Length	m	65	65	65
	Max. Height	m	30	30	30
Stuffing Quantity	20/40/40H	unit	27/55/55	27/55/55	44/96/144

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



50Hz Inverter Series Cassette

FEATURES

■ optional ■ standard

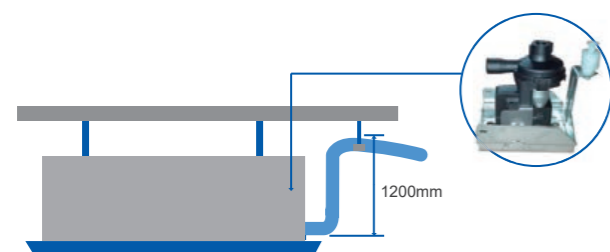
- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Remote Control
- Washable Filter
- Fire-proof Electric Box
- Built-in Drain Pump
- Digital Tube Display
- Wired Control
- Central Control
- Golden Fin
- WiFi Control

Cassette



Built-In Drain Pump

The built-in drain pump can lift condensing water up to 1200mm high from the drainage pan.



Optional Indoor Units (Round Flow/Four-way Cassette)



Four-way Cassette

Round Flow Cassette

Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Fresh air intake

Optimized Electric Box

Better fire-proof and easy to maintenance.



Cassette



Specification-R32 50Hz DC Inverter



Model	Indoor		TLCA-H12/NDR3HAA	TLCA-H18/NDR3HAA	TLCA-H24/NDR3HAA	TLCA-H36/NDR3HAA
	Outdoor		TL-H12/NDR3A(U)	TL-H18/NDR3A(U)	TL-H24/NDR3A(U)	TL-H36/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	12000(4600-15000)/14300(4200-18100)	18000(5200-19100)/19100(4800-21200)	24000(7400-28000)/27300(6800-31700)	36000(9800-44300)/38000(8800-46000)
		kW	3.60(1.35-4.40)/4.20(1.24-5.30)	5.00(1.53-5.60)/5.60(1.40-6.20)	7.00(2.16-8.20)/8.00(1.98-9.30)	10.55(2.9-13)/11.15(2.6-13.5)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	SEER/SCOP	W/W	6.2/4.1	6.4/4.0	6.5/4.2	6.1/4.0
Performance	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	700/600/530	700/600/530	1300/1050/950	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	45/44/36	45/44/36	47/43/38	51/48/45
	Sound Power Noise Level	dB(A)	56	56	57	62
Dimension (WxDxH)	Net(Body)	mm	570×570×260	570×570×260	835×835×250	835×835×290
	Packing(Body)	mm	655×655×295	655×655×295	910×910×310	910×910×350
	Net(Panel)	mm	650×650×55	650×650×55	950×950×55	950×950×55
	Packing(Panel)	mm	710×710×80	710×710×80	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body)	kg	17/20	17/20	24/27.5	26.5/30.5
	Net/Gross(Panel)	kg	2.2/3.7	2.2/3.7	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	15-32	21-35	28-47	56-93
Stuffing Quantity	20/40/40H	set	66/139/165	66/139/165	36/76/86	27/62/66

Specification-R32 50Hz DC Inverter



Model	Indoor		TLCA-H42/NDR3HAA	TLCA-H48/NDR3HAA	TLCA-H60/NDR3HAA
	Outdoor		TL-H42/NDR3A(U)	TL-H48/NDR3A(U)	TL-H60/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	42000(9800-46000)/46000(8800-51100)	48000(16224-49761)/55000(12900-55089)	55000(16377-57000)/58000(16700-63100)
		kW	12.1(2.9-13.5)/13.5(2.6-15)	14.00(4.76-14.58)/16.00(3.78-16.15)	16.00(4.80-16.7)/17.00(4.90-18.50)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	380~415,50,3	380~415,50,3
	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0
Performance	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	1800/1550/1350	1950/1750/1500	1950/1750/1500
	Sound Pressure Noise Level	dB(A)	51/48/45	54/52/50	54/52/50
	Sound Power Noise Level	dB(A)	62	65	65
Dimension (WxDxH)	Net(Body)	mm	835×835×290	835×835×290	835×835×290
	Packing(Body)	mm	910×910×350	910×910×350	910×910×350
	Net(Panel)	mm	950×950×55	950×950×55	950×950×55
	Packing(Panel)	mm	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body)	kg	26.5/30.5	31/35	31/35
	Net/Gross(Panel)	kg	5.3/7.8	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	64-107	64-107	64-107
Stuffing Quantity	20/40/40H	set	27/62/66	22/50/54	22/50/54

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Cassette



Specification-R410A 50Hz DC Inverter

Model	Indoor		TLCA-H18/4DR1HBA	TLCA-H24/4DR1HAA	HLCA-H36/4DR1HA
	Outdoor		HL-H18/4DR1HA(U)	HL-H24/4DR1HA(U)	HL-H36/4DR1H(U)
Capacity	Cooling/Heating	Btu/h	18000(5220~19100)/19100(4800~21200)	24000(7400~28000)/27300(6800~31800)	36000(9900~41000)/42650(8900~41000)
		kW	5.00(1.53~5.60)/5.60(1.40~6.20)	7.00(2.16~8.20)/8.00(1.98~9.30)	10.5(2.9~12.0)/12.5(2.6~13.2)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling /HeatingPower Input	kW	1.62(0.47~2.30)/1.47(0.46~2.25)	2.18(0.67~3.56)/1.91(0.65~3.62)	3.28(0.71~4.71)/3.64(0.47~4.13)
Performance	SEER/SCOP	WW	6.1/4.0	6.1/4.0	6.1/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	700/600/530	1300/1050/950	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	45/44/36	47/43/38	51/48/45
	Sound Power Noise Level	dB(A)	56	57	62
Dimension (WxDxH)	Net(Body)	mm	570×570×260	835×835×250	835×835×290
	Packing(Body)	mm	655×655×295	910×910×310	910×910×350
	Net(Panel)	mm	650×650×55	950×950×55	950×950×55
	Packing(Panel)	mm	710×710×80	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body)	kg	17/20	24/27.5	26.5/30.5
	Net/Gross(Panel)	kg	2.2/3.7	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m²	21-35	28-47	56-93
Stuffing Quantity	20/40/40H	set	66/139/165	36/76/86	20/50/55

Specification-R410A 50Hz DC Inverter

Model	Indoor		HLCA-H42/4DR1HA	HLCA-H48/5DR1HA	HLCA-H60/5DR1HA	HLCA-H36/4DR1HBA
	Outdoor		HL-H42/4DR1H(U)	HL-H48/5DR1H(U)	HL-H60/5DR1H(U)	HL-H36/4DR1HA(U)
Capacity	Cooling/Heating	Btu/h	42000(10900~45000)/46000(10200~50150)	48000(14000~54800)/55000(15700~59700)	55000(16400~59000)/60000(16700~63100)	36000(9800~44300)/38000(8800~46000)
		kW	12.1(3.2~13.2)/13.5(3.0~14.7)	14.00(4.10~16.00)/16.00(4.60~17.50)	16.00(4.80~17.30)/17.00(4.90~18.50)	10.55(2.9~13)/11.15(2.6~13.5)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	380~415,50,3	380~415,50,3	220~240,50,1
	Cooling /HeatingPower Input	kW	4.28(0.8~5.39)/4.10(0.58~4.90)	4.95(1.21~6.48)/4.57(0.92~5.66)	5.71(1.38~6.85)/4.96(0.98~6.00)	3.28(0.71~4.71)/3.64(0.47~4.13)
Performance	SEER/SCOP	WW	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	1800/1550/1350	1950/1750/1500	1950/1750/1500	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	51/48/45	53/48/42	53/48/42	51/48/45
	Sound Power Noise Level	dB(A)	62	63	63	62
Dimension (WxDxH)	Net(Body)	mm	835×835×290	835×835×290	835×835×290	835×835×290
	Packing(Body)	mm	910×910×350	910×910×350	910×910×350	910×910×350
	Net(Panel)	mm	950×950×55	950×950×55	950×950×55	950×950×55
	Packing(Panel)	mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body)	kg	26.5/30.5	26.5/30.5	26.5/30.5	26.5/30.5
	Net/Gross(Panel)	kg	5.3/7.8	5.3/7.8	5.3/7.8	5.3/7.8
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m²	64-107	64-107	64-107	56-93
Stuffing Quantity	20/40/40H	set	20/50/55	20/50/55	20/50/55	28/63/72

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

50Hz Inverter Series Ceiling & Floor



FEATURES

■ optional ■ standard

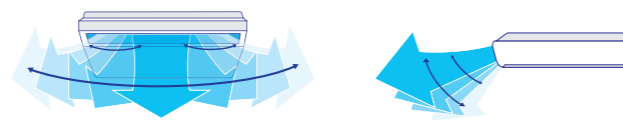
- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Remote Control
- 3D Air Flow
- Long-term Filter
- Wired Control
- Central Control
- Golden Fin
- WiFi Control

Ceiling&Floor



3D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

All units are equipped with 3-speed fan mode, adjusting the air flow rate in accordance with the ceiling height. Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.



Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.



Ceiling&Floor



Specification-R32 50Hz DC Inverter



Model	Indoor		TLCF-H18/NDR3HA	TLCF-H24/NDR3HA	TLCF-H36/NDR3HA
	Outdoor		TL-H18/NDR3A(U)	TL-H24/NDR3A(U)	TL-H36/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	18000(5200~19100)/19100(4800~21200)	24000(7400~28000)/27300(6800~31700)	36000(9800~44300)/38000(8800~46000)
		kW	5.00(1.53~5.60)/5.60(1.40~6.20)	7.00(2.16~8.20)/8.00(1.98~9.30)	10.55(2.9~13)/11.15(2.6~13.5)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	SEER/SCOP	W/W	6.2/4.1	6.2/4.1	6.2/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
Performance	Air Flow Volume	m ³ /h	900/730/650	1300/1052/920	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	45/40/34	47/43/38	53/50/47
	Sound Power Noise Level	dB(A)	55	57	63
Dimension (W×D×H)	Net	mm	929×660×205	1280×660×205	1631×660×205
	Packing	mm	1010×720×290	1360×720×290	1710×720×290
Weight	Net/Gross	kg	25/28	32/38	44/50
Piping size	Drainage	mm/(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	21-35	28-47	56-93
Stuffing Quantity	20/40/40H	set	57/123/149	48/92/102	32/70/81

Specification-R32 50Hz DC Inverter



Model	Indoor		TLCF-H42/NDR3HA	TLCF-H48/NDR3HA	TLCF-H60/NDR3HA
	Outdoor		TL-H42/NDR3A(U)	TL-H48/NDR3A(U)	TL-H60/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	42000(9800~46000)/46000(8800~51100)	48000(14000~54600)/55000(15700~59700)	55000(15890~55290)/58000(15615~59000)
		kW	12.1(2.9~13.5)/13.5(2.6~15)	14.00(4.10~16.00)/16.00(4.60~17.50)	16.00(4.80~16.7)/17.00(4.90~18.50)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	380~415,50,3	380~415,50,3
	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
Performance	Air Flow Volume	m ³ /h	1800/1550/1350	1900/1600/1400	1900/1600/1400
	Sound Pressure Noise Level	dB(A)	53/50/47	54/51/48	54/51/48
	Sound Power Noise Level	dB(A)	63	64	64
Dimension (W×D×H)	Net	mm	1631×660×205	1631×660×205	1631×660×205
	Packing	mm	1710×720×290	1710×720×290	1710×720×290
Weight	Net/Gross	kg	44/50	44/50	44/50
Piping size	Drainage	mm/(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	64-107	64-107	64-107
Stuffing Quantity	20/40/40H	set	32/70/81	24/54/54	24/54/54

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Ceiling&Floor



Specification-R410A 50Hz DC Inverter

Model	Indoor		TLCF-H18/4DR1HA	TLCF-H24/4DR1HA	TLCF-H36/4DR1H
	Outdoor		TL-H18/4DR1HA(U)	TL-H24/4DR1HA(U)	TL-H36/4DR1H(U)
Capacity	Cooling/Heating	Btu/h	18000(5220~19100)/19100(4800~21200)	24000(7400~28000)/27300(6800~31800)	36000(9900~40900)/42650(8900~45000)
		kW	5.00(1.53~5.60)/5.60(1.40~6.20)	7.00(2.16~8.20)/8.00(1.98~9.30)	10.5(2.9~12.0)/12.5(2.6~13.2)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
		Cooling/Heating Power Input	W	1.62(0.47~2.30)/1.47(0.46~2.25)	2.25(0.67~3.56)/1.91(0.65~3.62)
Performance	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0
		ERP Energy Efficiency Class	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	900/730/650	1300/1052/920	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	45/42/37	47/45/43	53/50/47
	Sound Power Noise Level	dB(A)	55	57	63
Dimension (W×D×H)	Net	mm	929×660×205	1280×660×205	1631×660×205
		Packing	mm	1010×720×290	1360×720×290
Weight	Net/Gross	kg	25/28	32/38	44/50
		Piping size	Drainage	mm/(inch)	DN20(R3/4)
Applicable Area		m ²	21-35	28-47	56-93
Stuffing Quantity	20/40/40H	set	57/123/149	48/92/102	22/55/55

Specification-R410A 50Hz DC Inverter

Model	Indoor		TLCF-H42/4DR1H	TLCF-H48/5DR1H	TLCF-H60/5DR1H	TLCF-H36/4DR1HA
	Outdoor		TL-H42/4DR1H(U)	TL-H48/5DR1H(U)	TL-H60/5DR1H(U)	TL-H36/4DR1HA(U)
Capacity	Cooling/Heating	Btu/h	41285(10900~45000)/46062(10200~50150)	48000(14000~54600)/55000(15700~59700)	55000(16400~59000)/60000(16700~63100)	36000(9000~41000)/38000(10000~45000)
		kW	12.1(3.2~13.2)/13.5(3.0~14.7)	14.00(4.10~16.00)/16.00(4.60~17.50)	16.00(4.80~17.30)/17.00(4.90~18.50)	10.5(2.64~12.02)/11.14(2.93~13.19)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	380~415,50,3	380~415,50,3	220~240,50,1
		Cooling/Heating Power Input	W	4.28(0.8~5.39)/4.02(0.58~4.90)	4.95(1.21~6.48)/4.57(0.92~5.66)	5.8(1.38~6.85)/4.96(0.98~6.00)
Performance	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0
		ERP Energy Efficiency Class	A++/A+	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	1800/1550/1350	1900/1600/1400	1900/1600/1400	1800/1550/1350
	Sound Pressure Noise Level	dB(A)	53/50/47	54/50/46	54/50/46	53/50/47
	Sound Power Noise Level	dB(A)	63	64	64	63
Dimension (W×D×H)	Net	mm	1631×660×205	1631×660×205	1631×660×205	1630×660×205
		Packing	mm	1710×720×290	1710×720×290	1710×720×290
Weight	Net/Gross	kg	44/50	44/50	44/50	44/50
		Piping size	Drainage	mm/(inch)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	64-107	64-107	64-107	56-93
Stuffing Quantity	20/40/40H	set	22/55/55	22/55/55	22/55/55	32/70/81

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

50Hz Inverter Series Duct

FEATURES

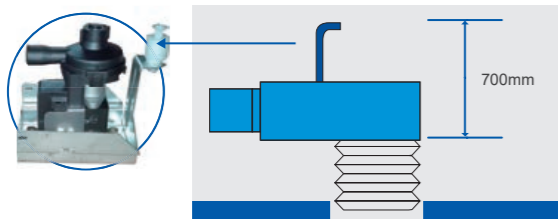
- Auto Restart Function
- Hydrophilic Aluminum Fin
- Fast Cooling/Heating
- Low Ambient Cooling
- Intelligent Defrosting
- Long-term Filter
- Wired Control
- Remote Control
- Central Control
- Golden Fin
- WIFI Control

Duct



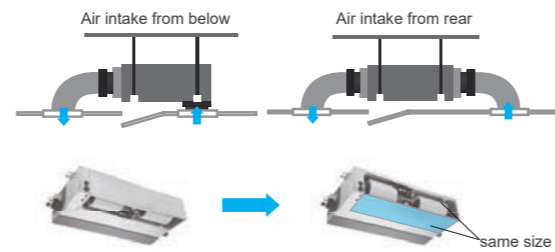
Built-In Drain Pump (Optional)

The built-in drain pump can lift condensing water up to 700mm high from the drainage pan.



Flexible Installation

Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



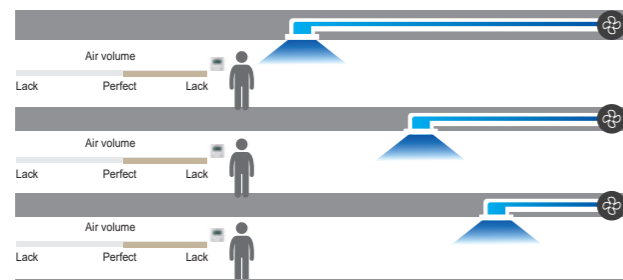
High Static-Pressure

Adjustable static pressure from 0 Pa to maximum 160Pa.

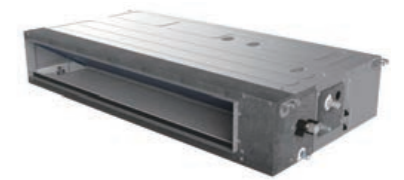


Self-adaption technology

Automatic ESP Adjustment function will adapt the unit to any ducting with optimized air volume and minimized noise level automatically, making more comfortable in any situation.



Duct



Specification-R32 50Hz DC Inverter



Model	Indoor		TLMD-H18/NDR3HA	TLMD-H24/NDR3HA	TLMD-H30/NDR3HA	TLMD-H36/NDR3HA
	Outdoor		TL-H18/NDR3A(U)	TL-H24/NDR3A(U)	TL-H30/NDR3A(U)	TL-H36/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	1800(520-19100)/19100(4800-21200)	2400(7400-28000)/27300(6800-31800)	28660(8490-31390)/30700(9760-32760)	36000(9800-44300)/38000(8800-46000)
		kW	5.00(1.53-5.60)/5.60(1.40-6.20)	7.00(2.16-8.20)/8.00(1.98-9.30)	8.4(2.49-9.20)/9.0(2.66-9.60)	10.55(2.9-13)/11.15(2.6-13.5)
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1
	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0
Performance	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	1150/960/840	1400/1190/980	1600/1400/1100	1900/1600/1400
	Sound Pressure Noise Level	dB(A)	43/41/40	44/41/39	46/44/41	44/41/39
	Sound Power Noise Level	dB(A)	53	55	57	55
	ESP	Pa	0-160	0-160	0-160	0-160
Dimension (WxDxH)	Net	mm	1000×700×245	1000×700×245	1000×700×245	1400×700×245
	Packing	mm	1230×830×300	1230×830×300	1230×830×300	1630×830×300
Weight	Net/Gross	kg	31/37	32/38	32/38	42/48
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m²	21-35	28-47	32-80	56-93
Stuffing Quantity	20/40/40H	set	46/97/112	42/89/99	32/64/83	27/56/69

Specification-R32 50Hz DC Inverter



Model	Indoor		TLMD-H42/NDR3HA	TLMD-H48/NDR3HA	TLMD-H60/NDR3HA
	Outdoor		TL-H42/NDR3A(U)	TL-H48/NDR3A(U)	TL-H60/NDR3A(U)
Capacity	Cooling/Heating	Btu/h	42000(9800-46000)/46000(8800-51100)	48000(14545-51845)/55000(12621-61500)	55000(16400-59000)/58000(16700-63100)
		kW	12.1(2.9-13.5)/13.5(2.6-15)	14.0(4.26-15.20)/16.00(3.7-18.03)	16.00(4.80-17.30)/17.00(4.90-18.50)
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	380-415,50,3	380-415,50,3
	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0
Performance	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	1900/1600/1400	2600/2210/1820	2600/2210/1820
	Sound Pressure Noise Level	dB(A)	44/41/39	52/49/47	52/49/47
	Sound Power Noise Level	dB(A)	55	69	69
	ESP	Pa	0-160	0-160	0-160
Dimension (WxDxH)	Net	mm	1400×700×245	1250×735×320	1250×735×320
	Packing	mm	1630×830×300	1430×800×390	1430×800×390
Weight	Net/Gross	kg	42/48	46/52	46/52
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m²	56-93	64-107	64-107
Stuffing Quantity	20/40/40H	set	27/56/69	18/40/40	18/40/40

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Duct



Specification-R410A 50Hz DC Inverter

Model	Indoor		TLMD-H18/4DR1HA	TLMD-H24/4DR1HA	TLMD-H36/4DR1H	TLMD-H42/4DR1H
	Outdoor		TL-H18/4DR1HA(U)	TL-H24/4DR1HA(U)	TL-H36/4DR1H(U)	TL-H42/4DR1H(U)
Capacity	Cooling/Heating	Btu/h	18000(5220~19100)/19100(4800~21200)	24000(7400~28000)/27300(6800~31800)	36000(9900~40900)/42650(8900~45000)	41285(10900~45000)/46000(10200~50150)
		kW	5.00(1.53~5.60)/5.60(1.40~6.20)	7.00(2.16~8.20)/8.00(1.98~9.30)	10.5(2.9~12.0)/12.5(2.6~13.2)	12.1(3.2~13.2)/13.5(3.0~14.7)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
		Cooling/Heating Power Input	kW	1.62(0.47~2.30)/1.47(0.46~2.25)	2.25(0.67~3.56)/1.91(0.65~3.62)	3.23(0.71~4.71)/3.5(0.47~4.13)
Performance	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	1150/960/840	1400/1190/980	2000/1700/1450	2000/1700/1450
	Sound Pressure Noise Level	dB(A)	42/40/37	46/42/38	51/48/45	51/48/45
	Sound Power Noise Level	dB(A)	52	56	62	62
Dimension (WxDxH)	Net	mm	890×785×290	890×785×290	1250×785×290	1250×785×290
		Packing	mm	1075×885×370	1075×885×370	1435×885×370
Weight	Net/Gross	kg	34/40	36/42	52/59	52/59
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	21-35	28-47	56-93	64-107
Stuffing Quantity	20/40/40H	set	43/95/112	36/78/95	21/45/49	21/45/49

Specification-R410A 50Hz DC Inverter

Model	Indoor		TLMD-H48/5DR1H	TLMD-H60/5DR1H	TLMD-H36/4DR1HA
	Outdoor		TL-H48/5DR1H(U)	TL-H60/5DR1H(U)	TL-H36/4DR1HA(U)
Capacity	Cooling/Heating	Btu/h	48000(14000~54600)/55000(15700~59700)	55000(16400~59000)/60000(16700~63100)	36000(9900~41000)/38000(10000~45000)
		kW	14.00(4.10~16.00)/16.00(4.60~17.50)	16.00(4.80~17.30)/17.00(4.90~18.50)	10.5(2.9~12.0)/11.14(2.93~13.19)
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	220~240,50,1
		Cooling/Heating Power Input	kW	4.67(1.21~6.48)/4.57(0.92~5.66)	5.61(1.38~6.85)/4.96(0.98~6.00)
Performance	SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	2260/2000/1650	2260/2000/1650	1900/1600/1400
	Sound Pressure Noise Level	dB(A)	52/49/46	52/49/46	44/41/39
	Sound Power Noise Level	dB(A)	62	62	62
Dimension (WxDxH)	Net	mm	1250×785×290	1250×785×290	1400×700×245
		Packing	mm	1435×885×370	1435×885×370
Weight	Net/Gross	kg	52/59	52/59	41.5/48
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	64-107	64-107	56-93
Stuffing Quantity	20/40/40H	set	21/45/49	21/45/49	27/56/69

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Inverter Free Match Series

Inverter Series

Free Match



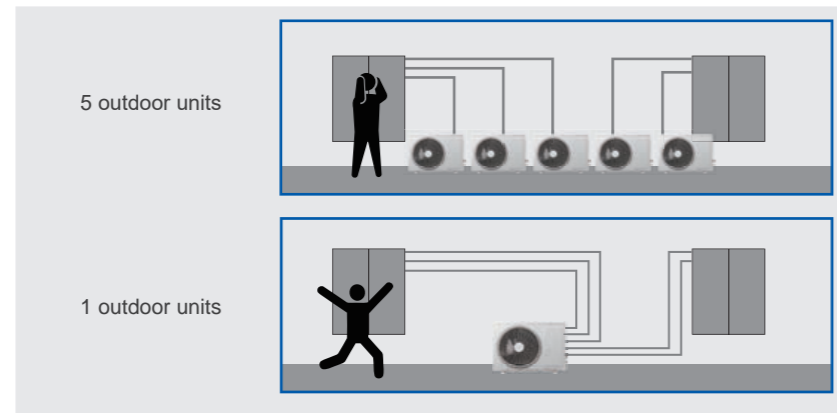
Environmental-friendly Refrigerant R32

The GWP value of R32 is smaller, so the effect on the greenhouse effect is smaller. The ODP value of R32 is 0, so it's no harm to our planet's ozone layer.



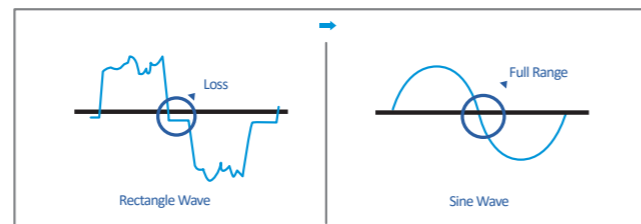
Space-Saving Installation

Up to 5 indoor units can be connected to a single outdoor unit, which reduces the number of outdoor units required so as to save installation space. Besides, each indoor unit can be controlled individually and they even needn't to be installed at the same time.



Energy Saving

Cutting-edge DC inverter of sine wave control and active PFC technology realize low noise and economical operation.



Combination Table

Multi DC Outdoor Unit

Suggested Combination

Multi DC Outdoor Unit	Suggested Combination										
1 drive 2 TM2-H14/4DR3	One Unit		Two Units								
	7		7+7	/							
	9		7+9	/							
	12		9+9	/							
	18		/	/							
1 drive 2 TM2-H18/4DR3	One Unit		Two Units								
	9		7+7	9+12							
	12		7+9	/							
	18		7+12	/							
	/	9+9	/	/							
1 drive 3 TM3-H21/4DR3	One Unit		Two Units		Three Units						
	18		7+7	9+12	7+7+7	/					
	24		7+9	9+18	7+7+9	/					
	/		7+12	12+12	7+7+12	/					
	/		7+18	/	7+9+9	/					
	/		9+9	/	9+9+9	/					
1 drive 3 TM3-H27/4DR3	One Unit		Two Units		Three Units						
	18		7+7	9+12	7+7+7	7+9+18					
	24		7+9	9+18	7+7+9	7+12+12					
	/		7+12	9+24	7+7+12	9+9+9					
	/		7+18	12+12	7+7+18	9+9+12					
	/		7+24	12+18	7+9+9	9+12+12					
1 drive 4 TM4-H36/4DR3	One Unit		Two Units		Three Units		Four Units				
	18	7+12	12+12	7+7+7	7+9+18	9+9+12	12+12+12	7+7+7+7	7+7+9+18	7+9+12+18	
	24	7+18	12+18	7+7+9	7+9+24	9+9+18	12+12+18	7+7+7+9	7+7+12+18	7+12+12+12	
	/	7+24	12+24	7+7+12	7+12+12	9+9+24	/	7+7+7+12	7+7+12+18	9+9+9+9	
	/	9+9	18+18	7+7+18	7+12+18	9+12+12	/	7+7+7+18	7+9+9+9	9+9+9+12	
	/	9+12	18+24	7+7+24	7+12+24	9+12+18	/	7+7+7+24	7+9+9+12	9+9+9+18	
	/	9+18	/	7+9+9	7+18+18	9+12+24	/	7+7+9+9	7+9+9+18	9+9+12+12	
	/	9+24	/	7+9+12	9+9+9	9+18+18	/	7+7+9+12	7+9+12+18	9+12+12+12	
1 drive 5 TM5-H42/4DR3	One Unit		Two Units		Three Units		Four Units				
	18	7+18	18+18	7+7+7	7+9+24	9+9+18	12+12+18	7+7+7+7	7+7+12+12	7+9+12+24	12+12+12+12
	24	7+24	18+24	7+7+9	7+12+12	9+9+24	12+12+24	7+7+7+9	7+7+12+18	7+12+12+12	12+12+12+18
	/	9+12	24+24	7+7+12	7+12+18	9+12+12	12+18+18	7+7+7+12	7+7+12+24	9+9+9+9	/
	/	9+18	/	7+7+18	7+12+24	9+12+18	12+18+24	7+7+7+18	7+9+9+9	9+9+9+12	/
	/	9+24	/	7+7+24	7+18+18	9+12+24	18+18+18	7+7+7+24	7+9+9+12	9+9+9+18	/
	/	12+12	/	7+9+9	7+18+24	9+18+18	/	7+7+9+9	7+9+9+18	9+9+12+12	/
	/	12+18	/	7+9+12	9+9+9	7+18+24	9+12+24	/	7+7+9+12	7+9+12+12	9+12+12+12
	/	12+24	/	7+9+18	9+9+12	12+12+12	/	7+7+9+18	7+9+12+18	9+12+12+18	/



Combination Table

Multi DC Outdoor Unit	Suggested Combination											
1 drive 2 	One Unit		Two Units									
	7		7+7	/								
	9		7+9	/								
	12		9+9	/								
	18		/	/								
1 drive 2 	One Unit		Two Units									
	9		7+7	9+12								
	12		7+9	/								
	18		7+12	/								
	/		9+9	/								
1 drive 3 	One Unit		Two Units		Three Units							
	18		7+7	9+12	7+7+7	/						
	/		7+9	9+18	7+7+9	/						
	/		7+12	12+12	7+7+12	/						
	/		7+18	/	7+9+9	/						
	/		9+9	/	9+9+9	/						
	/		/	/	/	/						
1 drive 3 	One Unit		Two Units		Three Units							
	18		7+7	9+18	7+7+7	7+9+18						
	/		7+9	12+12	7+7+9	7+12+12						
	/		7+12	12+18	7+7+12	9+9+9						
	/		7+18	/	7+7+18	9+9+12						
	/		9+9	/	7+9+9	9+12+12						
	/		9+12	/	7+9+12	/						
1 drive 4 	One Unit		Two Units		Three Units		Four Units					
	18	7+12	18+18	7+7+7	7+12+12	9+12+18	7+7+7+7	7+7+12+12	7+12+12+12			
	/	7+18	/	7+7+9	7+12+18	9+18+18	7+7+7+9	7+7+12+18	7+9+12+18			
	/	9+9	/	7+7+12	7+18+18	12+12+12	7+7+7+12	7+9+9+9	9+9+9+12			
	/	9+12	/	7+7+18	9+9+9	12+12+18	7+7+7+18	7+9+9+12	9+9+9+18			
	/	9+18	/	7+9+9	9+9+12	/	7+7+9+9	7+9+9+18	9+9+12+12			
	/	12+12	/	7+9+12	9+9+18	/	7+7+9+12	7+9+12+12	9+12+12+12			
	/	12+18	/	7+9+18	9+12+12	/	7+7+9+18	7+9+12+18	/			
	/	/	/	/	/	/	/	/	/			
	/	/	/	/	/	/	/	/	/			
1 drive 5 	One Unit		Two Units		Three Units			Four Units				
	18	7+18	—	7+7+7	7+9+18	9+9+18	12+18+18	7+7+7+7	7+7+9+18	7+9+12+12	9+9+12+12	
	—	9+12	—	7+7+9	7+12+12	9+12+12	18+18+18	7+7+7+9	7+7+12+12	7+9+12+18	9+12+12+12	
	—	9+18	—	7+7+12	7+12+18	9+12+18	/	7+7+7+12	7+7+12+18	7+12+12+12	9+12+12+18	
	—	12+12	—	7+7+18	7+18+18	9+18+18	/	7+7+7+18	7+9+9+9	9+9+9+9	12+12+12+12	
	—	12+18	—	7+9+9	9+9+9	12+12+12	/	7+7+9+9	7+9+9+12	9+9+9+12	12+12+12+18	
	—	18+18	—	7+9+12	9+9+12	12+12+18	/	7+7+9+12	7+9+9+18	9+9+9+18	/	
	Five Units											
	7+7+7+7+7		7+7+7+9+18		7+7+9+12+12			7+9+9+12+12			9+9+12+12+12	
	7+7+7+7+9		7+7+7+12+12		7+7+9+12+18			7+9+12+12+12			/	
	7+7+7+7+12		7+7+7+18+18		7+7+12+12+12			9+9+9+9+9			/	
	7+7+7+7+18		7+7+9+9+9		7+9+9+9+9			9+9+9+9+12			/	
	7+7+7+9+9		7+7+9+9+12		7+9+9+9+12			9+9+9+9+18			/	
	7+7+7+9+12		7+7+9+9+18		7+9+9+9+18			9+9+9+12+12			/	

Outdoor Units

Specification-R32 50Hz DC Inverter



Model	Outdoor Unit		TM2-H14/4DR3	TM2-H18/4DR3	TM3-H21/4DR3
System Format			1 drive 2		1 drive 3
Capacity	Cooling/Heating	Btu/h	13989(6142~15388)/16378(6995~18015)	18084(6824~19892)/19107(7541~21017)	21154(7506~22895)/22519(8155~24771)
		kW	4.1(1.8~4.51)/4.8(2.05~5.28)	5.3(2.0~5.83)/5.6(2.21~6.16)	6.2(2.2~6.71)/6.6(2.39~7.26)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	1240/ 1150	1750/ 1540	1920/ 1780
	Rated Current(cooling&heating)	A	5.4/5	7.6/6.7	8.3/7.8
Performance	SEER/SCOP	W/W	6.16/4.06	7.07/4.08	6.57/4.38
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	2300	2300	3100
	Sound Pressure Noise Level	dB(A)	54	55	56
	Sound Power Noise Level	dB(A)	61	62	65
Dimension (W×D×H)	Net	mm	800×315×545	800×315×545	834×328×655
	Packing	mm	920×400×620	920×400×620	945×435×725
Weight	Net/Gross	kg	34/37	36/39	44/47
	Piping size				
	Liquid Side	mm(inch)	2×6.35(1/4)	2×6.35(1/4)	3×6.35(1/4)
	Gas Side	mm(inch)	2×9.52(3/8)	2×9.52(3/8)	3×9.52(3/8)
Max.Pipe Length	Between IDU to ODU	m	25	25	30
Max.Height Difference	Between ODU to IDU	m	15	15	15
Ambient temperature	Cooling/Heating	°C	-10~52/-15~24	-10~52/-15~24	-10~52/-15~24
Stuffing Quantity	20/40/40H	unit	102/219/292	102/219/292	96/198/198

Specification-R32 50Hz DC Inverter



Model	Outdoor Unit		TM3-H27/4DR3	TM4-H36/4DR3	TM5-H42/4DR3
System Format			1 drive 3		1 drive 5
Capacity	Cooling/Heating	Btu/h	26955(7848~29650)/27978(8359~30776)	35826(8530~37532)/37532(9110~38214)	40944(9451~43332)/44356(10100~43673)
		kW	7.9(2.3~8.69)/8.2(2.45~9.02)	10.50(2.5~11.0)/11.00(2.67~11.2)	12(2.77~12.7)/13(2.96~12.8)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	2460/ 2270	4250/3250	4650/3750
	Rated Current(cooling&heating)	A	10.7/9.8	18.5/14.1	20.5/16.5
Performance	SEER/SCOP	W/W	6.30/4.04	6.10/4.00	6.10/4.00
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	3100	4000	4200
	Sound Pressure Noise Level	dB(A)	58	61	61
	Sound Power Noise Level	dB(A)	65	68	68
Dimension (W×D×H)	Net	mm	834×328×655	985×395×808	985×395×808
	Packing	mm	945×435×725	1105×495×895	1105×495×895
Weight	Net/Gross	kg	46/49	74/78	75/79
	Piping size				
	Liquid Side	mm(inch)	3×6.35(1/4)	4×6.35(1/4)	5×6.35(1/4)
	Gas Side	mm(inch)	3×9.52(3/8)	4×9.52(3/8)	5×9.52(3/8)
Max.Pipe Length	Between IDU to ODU	m	30	30	30
Max.Height Difference	Between ODU to IDU	m	15	15	15
Ambient temperature	Cooling/Heating	°C	-10~52/-15~24	-10~52/-15~24	-10~52/-15~24
Stuffing Quantity	20/40/40H	unit	96/198/198	44/96/144	44/96/144

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Outdoor Units



Specification-R410A 50Hz DC Inverter

Model	Outdoor Unit		TM2-H14/4DR1	TM2-H18/4DR1B	TM3-H21/4DR1
System Format			1 drive 2		1 drive 3
Capacity	Cooling/Heating	Btu/h kW	13989(6142~15388)/16378(6995~18015)	18084(6824~19892)/19107(7541~21018)	21154(7506~22895)/22519(8155~24771)
			4.10(1.80~4.51)/4.80(2.05~5.28)	5.30(2.0~5.83)/5.60(2.21~6.16)	6.20(2.2~6.71)/6.60(2.39~7.26)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	1240/1150	1750/1540	1920/1780
	Rated Current(cooling&heating)	A	5.4/5.0	7.6/6.7	8.3/7.8
Performance	SEER/SCOP	W/W	6.16/4.14	6.20/4.14	6.16/4.09
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	2100	2100	2700
	Sound Pressure Noise Level	dB(A)	54	55	56
Dimension (WxDxH)	Net	mm	800×315×545	800×315×545	834×328×655
	Packing	mm	920×400×620	920×400×620	945×435×725
Weight	Net/Gross	kg	34/37	36/39	44/47
	Liquid Side	mm(inch)	2×6.35(1/4)	2×6.35(1/4)	3×6.35(1/4)
Piping size	Gas Side	mm(inch)	2×9.52(3/8)	2×9.52(3/8)	3×9.52(3/8)
	Max.Pipe Length Between IDU to ODU	m	25	25	30
Max.Height Difference Between ODU to IDU	m		15	15	15
Ambient temperature	Cooling/Heating	°C	-10~52/-15~24	-10~52/-15~24	-10~52/-15~24
Stuffing Quantity	20/40/40H	unit	102/219/292	102/219/292	96/198/198

Specification-R410A 50Hz DC Inverter

Model	Outdoor Unit		TM3-H274DR1B	TM4-H36/4DR1	TM5-H42/4DR1
System Format			1 drive 3		1 drive 5
Capacity	Cooling/Heating	Btu/h kW	26955(7848~29650)/27978(8359~30776)	35826(8530~37532)/37532(9110~38214)	40944(9451~43332)/44356(10100~43673)
			7.90(2.3~8.69)/8.20(2.45~9.02)	10.50(2.5~11.0)/11.00(2.67~11.2)	12.00(2.77~12.7)/13.00(2.96~12.8)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	2460/2270	3200/3250	3600/3650
	Rated Current(cooling&heating)	A	10.7/9.8	14.5/15.0	16.0/16.5
Performance	SEER/SCOP	W/W	6.23/4.04	6.14/4.19	6.13/4.26
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m³/h	2700	6400	6400
	Sound Pressure Noise Level	dB(A)	58	57	57
Dimension (WxDxH)	Net	mm	834×328×655	940×401×1366	940×401×1366
	Packing	mm	945×435×725	1080×460×1490	1080×460×1490
Weight	Net/Gross	kg	46/49	96/109	97/110
	Liquid Side	mm(inch)	3×6.35(1/4)	4×6.35(1/4)	5×6.35(1/4)
Piping size	Gas Side	mm(inch)	3×9.52(3/8)	4×9.52(3/8)	5×9.52(3/8)
	Max.Pipe Length Between IDU to ODU	m	30	30	30
Max.Height Difference Between ODU to IDU	m		15	15	15
Ambient temperature	Cooling/Heating	°C	-10~52/-15~24	-10~52/-15~24	-10~52/-15~24
Stuffing Quantity	20/40/40H	unit	96/198/198	27/55/55	27/55/55

★ Remark:The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Indoor Units



Specification-R32 Wall Mounted L Type

Model	Indoor unit		TMWM-H07/4R3(L*)	TMWM-H09/4R3(L*)	TMWM-H12/4R3(L*)	TMWM-H18/4R3(L*)
Capacity	Cooling/Heating	Btu/h	7165(3855~9220)/7510(3340~8530)	8701(3412~11260)/9042(3753~11260)	12283(4094~12966)/12624(3412~12966)	18083(6483~18766)/18425(4777~19107)
		kW	2.05(1.13~2.70)/2.15(0.98~2.50)	2.55(1.00~3.30)/2.65(1.10~3.30)	3.50(1.20~3.80)/3.50(1.00~3.80)	5.30(1.90~5.50)/5.40(1.40~5.60)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	40(12~68)/40(12~68)	40(12~68)/40(12~68)	40(12~68)/40(12~68)	63(16~88)/63(16~88)
	Air Flow Volume	m³/h	650/450/395	650/450/395	650/450/395	1000/860/688
Performance	Sound Pressure Noise Level	dB(A)	40/38/34	41/38/34	42/40/36	48/42/35
	Sound Power Noise Level	dB(A)	50	53	53	58
	Net	mm	800×300×198	800×300×198	800×300×198	970×315×235
Dimension (WxDxH)	Packing	mm	870×370×282	870×370×282	870×370×282	1047×385×317
	Net/Gross	kg	9/10.5	9/10.5	9/10.5	12.5/14.5
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Drainage	mm(inch)	16.5	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	320/680/765	320/680/765	320/680/765	224/476/544



Specification-R32 Wall Mounted F Type

Model	Indoor unit		TMWM-H07/4R3(F*)	TMWM-H09/4R3(F*)	TMWM-H12/4R3(F*)
Capacity	Cooling/Heating	Btu/h	7165(3855~9220)/7510(3340~8530)	9000(4780~11260)/9215(4095~10240)	12285(5800~12625)/12625(5120~12625)
		kW	2.05(1.13~2.70)/2.15(0.98~2.50)	2.58(1.40~3.30)/2.70(1.20~3.00)	3.50(1.70~3.70)/3.50(1.50~3.70)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	40(12~68)/40(12~68)	40(12~68)/40(12~68)	40(12~68)/40(12~68)
	Air Flow Volume	m³/h	600/480/370	600/480/370	600/480/370
Performance	Sound Pressure Noise Level	dB(A)	40/38/34	40/38/34	42/40/36
	Sound Power Noise Level	dB(A)	53	53	52
	Net	mm	750×285×200	750×285×200	750×285×200
Dimension (WxDxH)	Packing	mm	820×347×277	820×347×277	820×347×277
	Net/Gross	kg	7.5/9	7.5/9	8/10
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Drainage	mm(inch)	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	384/768/864	384/768/864	384/768/864

Model	Indoor unit		TMWM-H18/4R3(F*)	TMWM-H24/4R3(F*)
Capacity	Cooling/Heating	Btu/h	17747(8530~19790)/18085(7680~19790)	23986(9895~24908)/24054(7165~27296)
		kW	5.27(2.50~5.80)/5.37(2.25~5.80)	7.03(2.90~7.30)/7.05(2.10~8.00)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1
	Cooling/Heating Power Input	W	63(16~88)/63(16~88)	63(16~88)/63(16~88)
	Air Flow Volume	m³/h	850/800/680	1150/950/750
Performance	Sound Pressure Noise Level	dB(A)	45/42/35	49/42/35
	Sound Power Noise Level	dB(A)	57	60
	Net	mm	900×310×225	1082×330×233
Dimension (WxDxH)	Packing	mm	970×382×302	1155×397×312
	Net/Gross	kg	12/14	15/16.5
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)
	Drainage	mm(inch)	16.5	16.5
Stuffing Quantity	20/40/40H	unit	252/518/592	203/427/488

★ Remark:The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Indoor Units

Indoor Units

Specification-R32 Wall Mounted J Type



Model	Indoor unit		TMWM-H07/4R3(J*)	TMWM-H09/4R3(J*)	TMWM-H12/4R3(J*)
Capacity	Cooling/Heating	Btu/h	7165(3855-9220)/7510(3340-8530)	9000(4780-11260)/9215(4095-10240)	12285(5800-12625)/12625(5120-12625)
		kW	2.05(1.13-2.70)/2.15(0.98-2.50)	2.58(1.40-3.30)/2.70(1.20-3.00)	3.50(1.70-3.70)/3.50(1.50-3.70)
Electric Data	Power Supply	V~, Hz, Ph	220-240,50,1	220-240,50,1	220-240,50,1
		Cooling/Heating Power Input W	40(12-68)/40(12-68)	40(12-68)/40(12-68)	40(12-68)/40(12-68)
Performance	Air Flow Volume	m ³ /h	600	600	600
	Sound Pressure Noise Level	dB(A)	40/38/34	40/38/34	42/40/37
	Sound Power Noise Level	dB(A)	53	53	52
Dimension (WxDxH)	Net	mm	792×292×201	792×292×201	792×292×201
	Packing	mm	888×370×290	888×370×290	888×370×290
Weight	Net/Gross	kg	8/10	8/10	8.5/10.5
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Drainage	mm(inch)	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	304/640/720	304/640/720	304/640/720

Model	Indoor unit		TMWM-H18/4R3(J*)	TMWM-H24/4R3(J*)
Capacity	Cooling/Heating	Btu/h	17747(8530-19790)/18085(7680-19790)	23986(9895-24908)/24054(7165-27296)
		kW	5.27(2.50-5.80)/5.37(2.25-5.80)	7.03(2.90-7.30)/7.05(2.10-8.00)
Electric Data	Power Supply	V~, Hz, Ph	220-240,50,1	220-240,50,1
		Cooling/Heating Power Input W	63(16-88)/63(16-88)	63(16-88)/63(16-88)
Performance	Air Flow Volume	m ³ /h	850	1150
	Sound Pressure Noise Level	dB(A)	45/42/37	49/43/37
	Sound Power Noise Level	dB(A)	55	59
Dimension (WxDxH)	Net	mm	940×316×224	1132×330×232
	Packing	mm	1010×385×310	1205×400×317
Weight	Net/Gross	kg	12/14	14/17
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)
	Drainage	mm(inch)	16.5	16.5
Stuffing Quantity	20/40/40H	unit	238/490/560	154/336/384



Specification-R32 Compact cassette

Model	Indoor unit		TMCA-H09/4R3AA	TMCA-H12/4R3AA	TMCA-H18/4R3AA
Capacity	Cooling/Heating	Btu/h	9560(5120-12115)/10240(5460-13000)	12285(5800-12625)/13306(6930-15080)	17060(8530-19107)/19107(10340-24000)
		kW	2.80(1.50-3.55)/3.00(1.60-3.81)	3.60(1.70-3.70)/3.9(2.03-4.42)	5.0(2.50-5.6)/5.6(3.03-7.03)
Electric Data	Power Supply	V~, Hz, Ph	220-240,50,1	220-240,50,1	220-240,50,1
		Cooling/Heating Power Input W	70(17.5-109)/70(17.5-109)	70(17.5-109)/70(17.5-109)	70(17.5-109)/70(17.5-109)
Performance	Air Flow Volume	m ³ /h	700/600/530	700/600/530	700/600/530
	Sound Pressure Noise Level	dB(A)	45/41/35	45/41/35	45/41/35
	Sound Power Noise Level	dB(A)	56	56	56
Dimension (WxDxH)	Net(Body)	mm	570×570×260	570×570×260	570×570×260
	Packing(Body)	mm	655×655×295	655×655×295	655×655×295
	Net(Panel)	mm	650×650×55	650×650×55	650×650×55
	Packing(Panel)	mm	710×710×80	710×710×80	710×710×80
Weight	Net/Gross(Body)	kg	18/21	18/21	18/21
	Net/Gross(Panel)	kg	2.2/3.7	2.2/3.7	2.2/3.7
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drainage	mm(inch)	20	20	20
Stuffing Quantity	20/40/40H	unit	147/309/348	147/309/348	147/309/348

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Specification-R32 Slim Duct

Model	Indoor unit		TMSD-H07/4R3A	TMSD-H09/4R3A	TMSD-H12/4R3A	TMSD-H18/4R3A
Capacity	Cooling/Heating	Btu/h	7506(3855-9220)/8530(4575-10820)	8872(5120-12115)/9895(5800-12450)	12280(5835-13135)/13650(6480-13375)	17400(8530-19790)/19790(9690-21835)
		kW	2.20(1.13-2.70)/2.50(1.34-3.17)	2.60(1.50-3.55)/2.9(1.70-3.65)	3.60(1.71-3.85)/4.0(1.90-3.92)	5.10(2.50-5.80)/5.8(2.84-6.40)
Electric Data	Power Supply	V~, Hz, Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1
		Cooling/Heating Power Input W	55/55	55/55	55/55	75/75
Performance	Air Flow Volume	m ³ /h	420/336/294	420/336/294	580/464/406	860/688/602
	Sound Pressure Noise Level	dB(A)	35/31/29	35/31/29	35/31/29	42/38/36
	Sound Power Noise Level	dB(A)	53	53	53	55
Dimension (WxDxH)	Net	mm	700×470×200	700×470×200	700×470×200	1000×470×200
	Packing	mm	1005×580×275	1005×580×275	1005×580×275	1305×580×275
Weight	Net/Gross	kg	19/23.5	19/23.5	19/23.5	24.5/29.5
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drainage	mm(inch)	16.5	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	176/368/414	176/368/414	176/368/414	136/288/324



Specification-R32 Ceiling&Floor

Model	Indoor unit		TMCF-H09/4R3A	TMCF-H12/4R3A	TMCF-H18/4R3A
Capacity	Cooling/Heating	Btu/h	9560(5120-12115)/10240(5460-13000)	12285(5800-12625)/13306(6930-15080)	18080(8530-19107)/19790(10340-24000)
		kW	2.80(1.50-3.55)/3.00(1.60-3.81)	3.60(1.70-3.70)/3.9(2.03-4.42)	5.3(2.50-5.6)/5.8(3.03-7.03)
Electric Data	Power Supply	V~, Hz, Ph	220-240,50,1	220-240,50,1	220-240,50,1
		Cooling/Heating Power Input W	80(20-125)/80(20-125)	80(20-125)/80(20-125)	80(20-125)/80(20-125)
Performance	Air Flow Volume	m ³ /h	620/504/441	620/504/441	850/680/595
	Sound Pressure Noise Level	dB(A)	39/36/30	39/36/30	43/39/36
	Sound Power Noise Level	dB(A)	56	56	56
Dimension (WxDxH)	Net	mm	929×660×205	929×660×205	929×660×205
	Packing	mm	1010×720×290	1010×720×290	1010×720×290
Weight	Net/Gross	kg	24/27	24/27	25/28
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drainage	mm(inch)	20	20	20
Stuffing Quantity	20/40/40H	unit	136/280/315	136/280/315	136/280/315

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Indoor Units



Specification-R410A Wall Mounted L Type

Model	Indoor unit		TMWM-H07/4R1(L*)	TMWM-H09/4R1(L*)	TMWM-H12/4R1(L*)	TMWM-H18/4R1(L*)
Capacity	Cooling/Heating	Btu/h	7165(3855-9220)/7510(3340-8530)	8701(4777-11260)/9042(4094-10236)	12283(5800-12624)/12624(5120-12624)	17742(8530-19790)/17060(7677-19790)
		kW	2.05(1.13-2.70)/2.15(0.98-2.50)	2.55(1.40-3.30)/2.65(1.20-3.00)	3.60(1.70-3.70)/3.70(1.50-3.70)	5.20(2.50-5.80)/5.00(2.25-5.80)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1
		Cooling/Heating Power Input W	40	40	40	63
Performance	Air Flow Volume	m ³ /h	570/450/395	570/450/395	570/450/395	1000/860/688
	Sound Pressure Noise Level	dB(A)	40/38/34	40/38/34	42/40/36	45/42/35
	Sound Power Noise Level	dB(A)	50	50	50	50
Dimension (WxDxH)	Net	mm	800×300×198	800×300×198	800×300×198	970×315×235
		Packing	mm	870×370×282	870×370×282	870×370×282
Weight	Net/Gross	kg	10/11.5	10/11.5	10/11.5	13/16
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Drainage	mm(inch)	16.5(3/5)	16.5(3/5)	16.5(3/5)	16.5(3/5)
Stuffing Quantity	20/40/40H	unit	320/680/765	320/680/765	320/680/765	224/476/544



Specification-R410A Wall Mounted F Type

Model	Indoor unit		TMWM-H07/4R1(F*)	TMWM-H09/4R1(F*)	TMWM-H12/4R1(F*)	TMWM-H18/4R1(F*)
Capacity	Cooling/Heating	Btu/h	7165(3855-9220)/7510(3340-8530)	8701(4777-11260)/9042(4094-10236)	12283(5800-12624)/12624(5120-12624)	17742(8530-19790)/17060(7677-19790)
		kW	2.05(1.13-2.70)/2.15(0.98-2.50)	2.55(1.40-3.30)/2.65(1.20-3.00)	3.60(1.70-3.70)/3.70(1.50-3.70)	5.20(2.50-5.80)/5.00(2.25-5.80)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1
		Cooling/Heating Power Input W	40	40	40	63
Performance	Air Flow Volume	m ³ /h	550/480/370	550/480/370	550/480/370	900/800/680
	Sound Pressure Noise Level	dB(A)	40/38/34	40/38/34	42/40/36	45/42/35
	Sound Power Noise Level	dB(A)	50	50	50	50
Dimension (WxDxH)	Net	mm	750×285×200	750×285×200	750×285×200	900×310×225
		Packing	mm	820×347×277	820×347×277	820×347×277
Weight	Net/Gross	kg	8/10.5	8/10.5	8/10.5	12/14
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Drainage	mm(inch)	16.5(3/5)	16.5(3/5)	16.5(3/5)	16.5(3/5)
Stuffing Quantity	20/40/40H	unit	384/768/864	384/768/864	384/768/864	252/518/592

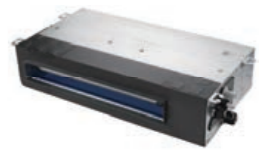
★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

Indoor Units



Specification-R410A Compact cassette

Model	Indoor unit		TMCA-H09/4R1A	TMCA-H12/4R1A	TMCA-H18/4R1A
Capacity	Cooling/Heating	Btu/h	9560(5120~12115)/10240(5460~13000)	12285(5800~12625)/13306(6930~15080)	17060(8530~19107)/19107(10338~23986)
		kW	2.80(1.50~3.55)/3.00(1.60~3.81)	3.60(1.70~3.70)/3.90(2.03~4.42)	5.00(2.50~5.60)/5.60(3.03~7.03)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1
		Cooling/Heating Power Input W	70	70	70
Performance	Air Flow Volume	m ³ /h	700/600/530	700/600/530	700/600/530
	Sound Pressure Noise Level	dB(A)	45/41/35	45/41/35	45/41/35
	Sound Power Noise Level	dB(A)	56	56	56
Dimension (WxDxH)	Net(Body)	mm	570×570×260	570×570×260	570×570×260
	Packing(Body)	mm	655×655×295	655×655×295	655×655×295
	Net(Panel)	mm	650×650×55	650×650×55	650×650×55
	Packing(Panel)	mm	710×710×80	710×710×80	710×710×80
Weight	Net/Gross(Body)	kg	18/21	18/21	18/21
		Net/Gross(Panel)	kg	2.2/3.7	2.2/3.7
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	unit	147/309/348	147/309/348	147/309/348



Specification-R410A Slim Duct

Model	Indoor unit		TMSD-H07/4R1	TMSD-H09/4R1	TMSD-H12/4R1	TMSD-H18/4R1
Capacity	Cooling/Heating	Btu/h	7506(3855-9220)/8530(4575-10820)	8872(5120-12115)/9895(5800-12450)	12280(5835-13135)/13650(6480-13375)	17400(8530-19790)/19790(9690-21835)
		kW	2.20(1.13-2.70)/2.50(1.34-3.17)	2.60(1.50-3.55)/2.90(1.70-3.65)	3.60(1.71-3.85)/4.00(1.90-3.92)	5.10(2.50-5.80)/5.80(2.84-6.40)
Electric Data	Power Supply	V~, Hz, Ph	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1	220~240, 50, 1
		Cooling/Heating Power Input W	45	45	75	137
Performance	Air Flow Volume	m ³ /h	420/336/294	420/336/294	580/464/406	860/688/602
	Sound Pressure Noise Level	dB(A)	30/26/23	30/26/23	32/28/25	38/35/32
	Sound Power Noise Level	dB(A)	52	52	53	55
Dimension (WxDxH)	Net	mm	840×465×185	840×465×185	840×465×185	1160×465×185
		Packing	mm	1030×525×250	1030×525×250	1030×525×250
Weight	Net/Gross	kg	16.5/20	16.5/20	17.5/21	21/26
Piping size	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Drainage	mm(inch)	16.5(3/5)	16.5(3/5)	16.5(3/5)	16.5(3/5)
Stuffing Quantity	20/40/40H	unit	198/414/460	198/414/460	198/414/460	144/306/340

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

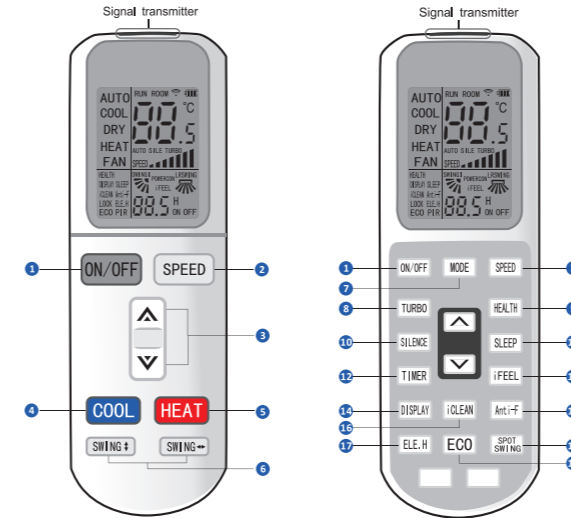
Indoor Units

Specification-R410A Ceiling&Floor



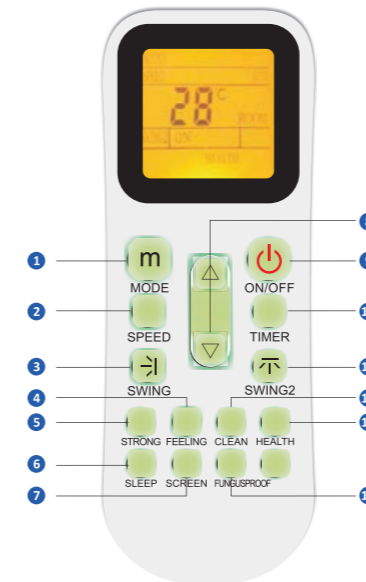
Model	Indoor unit		TMCF-H09/4R1	TMCF-H12/4R1	TMCF-H18/4R1
Capacity	Cooling/Heating	Btu/h	9560(5120~12115)/10240(5460~13000)	12285(5800~12625)/13306(6930~15080)	18080(8530~19107)/19790(10340~24000)
		kW	2.80(1.50~3.55)/3.00(1.60~3.81)	3.60(1.70~3.70)/3.90(2.03~4.42)	5.30(2.50~5.60)/5.8(3.03~7.03)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
		Cooling/Heating Power Input W	80	80	80
Performance	Air Flow Volume	m³/h	620/504/441	620/504/441	850/680/595
	Sound Pressure Noise Level	dB(A)	39/36/30	39/36/30	43/39/36
	Sound Power Noise Level	dB(A)	55	55	55
Dimension (WxDxH)	Net	mm	929×660×205	929×660×205	929×660×205
	Packing	mm	1010×720×290	1010×720×290	1010×720×290
Weight	Net/Gross	kg	24/27	24/27	25/28
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
	Stuffing Quantity	20/40/40H	unit	136/280/315	136/280/315

Remote Controller



- 1 ON/OFF
- 2 Fan Speed Setting HIGH/MED/LOW/AUTO
- 3 Temperature-Setting /Timer Range Setting
- 4 Cooling Mode
- 5 Heating Mode
- 6 Vertical Swing/Horizontal Swing
- 7 Mode Setting AUTO/COOL/DRY/HEAT/FAN
- 8 Turbo Wind
- 9 Health Function
- 10 Silence Function
- 11 Sleep Function
- 12 Timer On/Off
- 13 I Feel Function
- 14 LED Display On/Off
- 15 Anti-fungus Function
- 16 Clean Function
- 17 Auxiliary Electric Heating
- 18 Spot Swing
- 19 Economic Function

YK-L



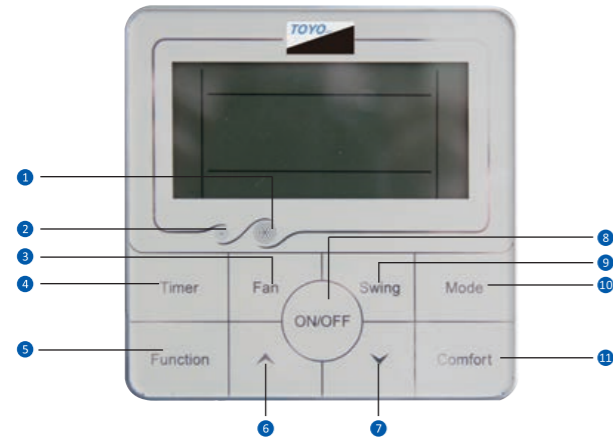
- 1 Mode Setting AUTO/COOL/DRY/HEAT/FAN
- 2 Fan Speed Setting HIGH/MED/LOW/AUTO
- 3 Vertical Swing
- 4 Feeling Function
- 5 Strong Wind
- 6 Sleep Function
- 7 LED Display On/Off
- 8 Temperature-Setting /Timer Range Setting
- 9 ON/OFF
- 10 Timer On/Off
- 11 Horizontal Swing
- 12 Clean Function
- 13 Health Function
- 14 Fungusproof Function

YK-K

★ Remark: The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

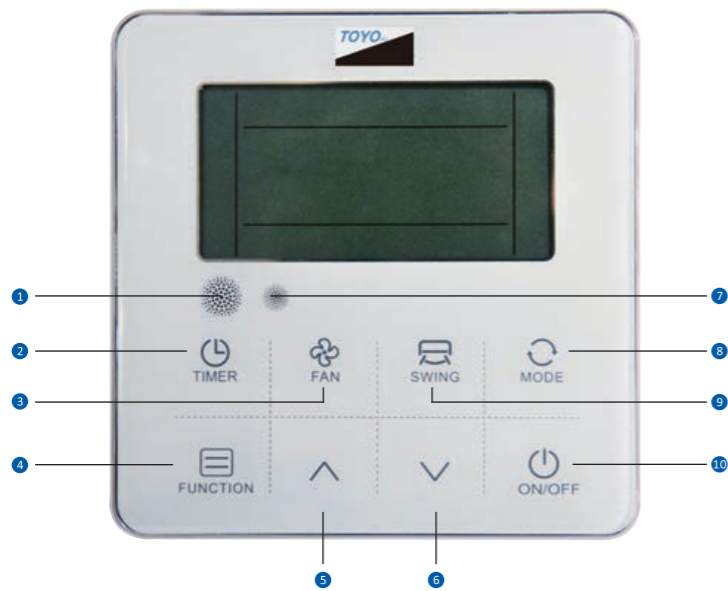
Wired Controller

XK-04 (86x86mm)



- 1 Remote Signal Receiver
- 2 Photosensitive sensor receiver
- 3 Fan Button
- 4 Timer Button
- 5 Function Button
- 6 "+" Button
- 7 "-" Button
- 8 ON/OFF Button
- 9 Swing Button
- 10 Mode Button
- 11 Comfort Button

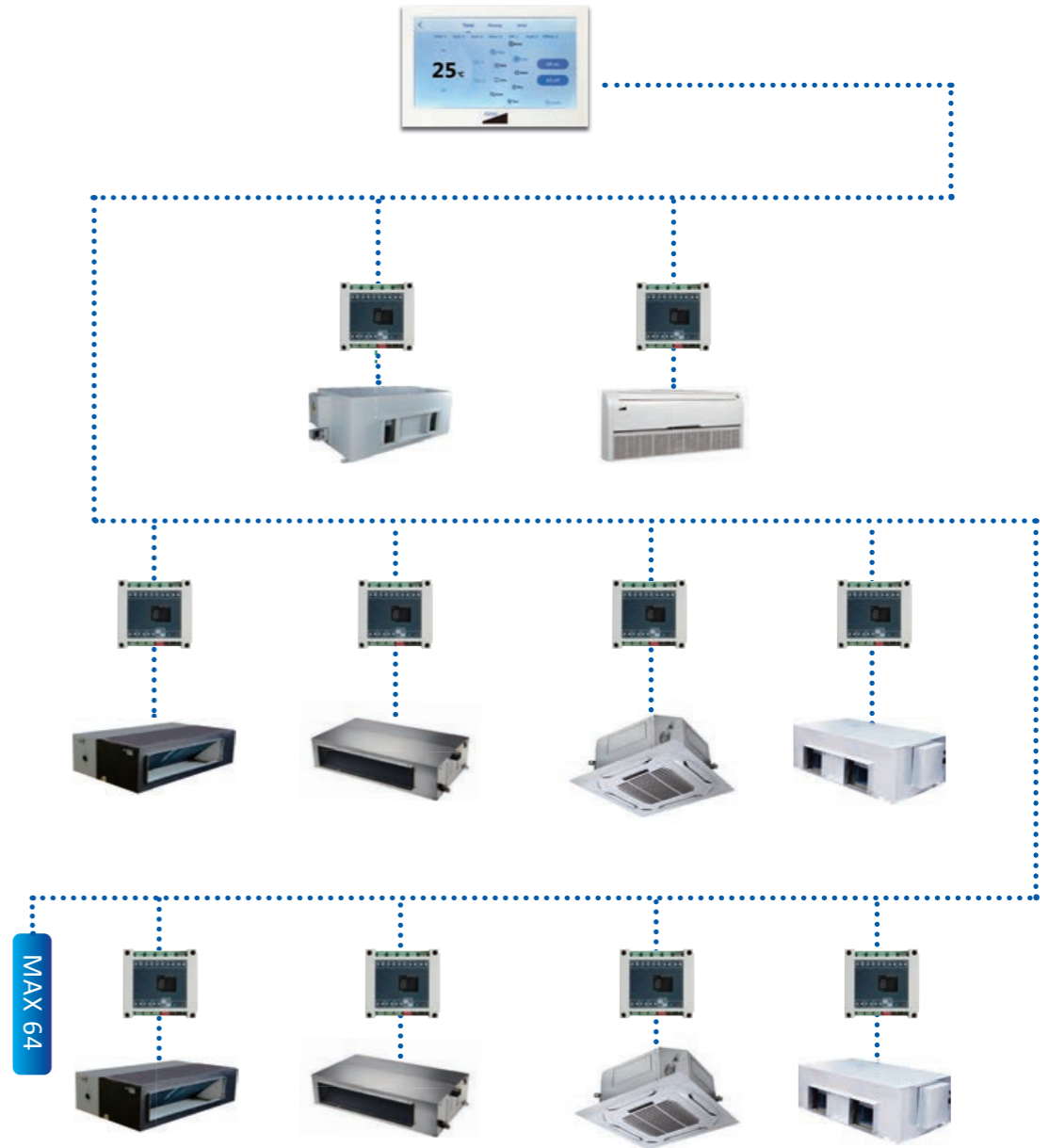
XK-05 (120x120mm)



- 1 Remote Signal Receiver
- 2 Timer Button
- 3 Fan Button
- 4 Function Button
- 5 "+" Button
- 6 "-" Button
- 7 Photosensitive sensor receiver
- 8 Mode Button
- 9 Swing Button
- 10 ON/OFF Button

★ Remark: The above wired controllers all use 485 communication protocol.

Central Control of Light Commercial



- 1.TPC7062KS can be used to centrally control up to 64 indoor units.
- 2.The indoor units can be divided into a maximum of 20 zones, each zone can be assigned no more than 64 units. You can set the indoor units of same zone in the same operation mode (default is "no zone").
- 3.Weekly schedule: TPC7062KS can include up to 64 indoor units in the weekly schedule, users can select the desired running mode and room temperature. The operation object can be a single indoor unit, a zone or all the indoor units.
- 4.TPC7062KS can display the error codes and running status of indoor unit, so users can easily identify faults via checking the error codes table in user's manual.

Wireless Network Control System

▼ Mixed connected with other indoor units



▼ Features

1. TOYO air conditioner can connect to intelligent terminal through WIFI or GPRS network,customers can enjoy fun and convenience of remote control the AC via iphone, ipad and other mobile terminals(Android and IOS) to control the AC at anytime and anywhere.
2. The function of software on Mobile terminal includes mode control,temperature control, swing control, timing control.
3. Customers can set schedule to plan their day, also the scene mode can be set conveniently.