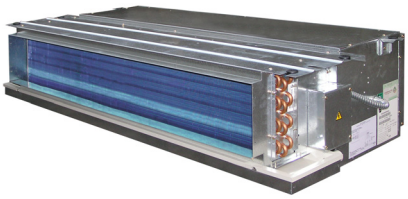
TRANE®

ILLusion

Minisplit Air Conditioners

ILLUSION

Concealed Type
12,000-60,000 Btu/h
MCD Series 50/60 Hz



SYSTEM CERTIFICATION ISO 9001:2000 SGS

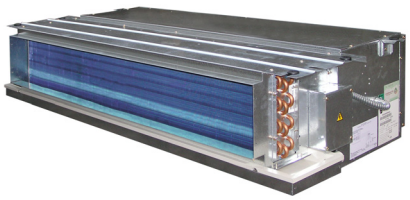
UKAS QUALITY MANAGEMENT

THAILAND

SYSTEM CERTIFICATION ISO 14001 SGS

SYSTEM CERTIFICATION OHSAS 18001 SGS

ILLusion



Trane proudly presents ILLUSION air conditioners with high quality design according to Trane World Wide Quality Standards providing you with convenient, comfortable, reliable, and durable heating and cooling with minimal service required.

ILLUSION Series

Complete family of concealed models - available capacity ranging from 12,000 to 60,000 Btu/h for standard models and from 9,000 to 40,900 Btu/h for high efficiency models.

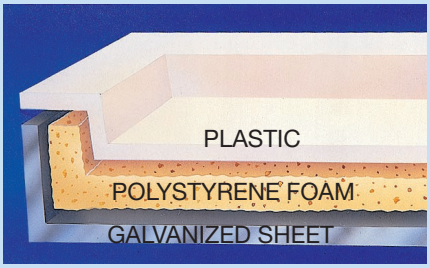
Energy efficiency - high efficiency models, EER>=11.0 Btu/h/W or COP>=3.2 W/W, providing full capacity with less energy consumption and electricity cost compared to standard models.

Compact height - only 258 mm for 12,000 to 36,000 Btu/h standard models - the ILLUSION series is very compact and easy to be installed in the tight ceiling.

Return air plenum provides low air face velocity for quiet operation - MCD048 and MCD060 are equipped with the return air plenum and 1 inch aluminium filter as standard as well as high efficiency models from MCD030 to MCD042.

- ***High performance & Energy efficiency (EER>=11.0 Btu/h/W or COP>=3.2 W/W)****
- ***Slim Design with compact height***
- ***High quality drain pan***

AIRE Y CLIMA ESPECIALIZADO



Triple Protection Drain Pan

ILLUSION drain pans consist of three layers: a single piece of galvanized sheet, a single piece of polystyrene foam, and a vacuum formed plastic liner. Moreover, it is provided with high quality drain hose, enabling flexibility, which is suitable for PVC size.

- Efficiently prevent the beautiful ceiling from droplet caused by leakage of drain pan.
- Efficient drainage and decrease the chance of the accumulation of mould with sloping drain pan.
- Provides superior indoor air quality.

High Efficiency Condensing Unit

High efficiency unit with reliable slit-type aluminium fin. Compact unit size allows for installation in limited or confined spaces.

Options: Blue fin, Copper fin, Stainless casing, 45 degree louver, and Aeris coating.

LCD Wired Control
(ACYSTAT110AA Cooling Only)
(ACYSTAT210AA Cool & Heat)

LCD Wired Control

LCD Wireless Remote Control

(ACYSTAT120AA Cooling Only)
(ACYSTAT220AA Cool & Heat)

Touch Wired Control
(ACYSTAT160AA Cooling Only)
(ACYSTAT260AA Cool & Heat)

Powercool (Turbo) Mode:
provides quick convenient cooling capacity. (Turbo Mode for LCD wired control)

Mode of Operation:
allows you control the operating modes: Fan, Cool, Dry.

Fan Speed:
continuosly provides cool air flow with 4 fan speeds: High, Medium, Low, and Auto.

Sleep Mode:
provides more comfort with automatically appropriate room temperature adjustment during night time.

Dry Mode:
provides effective humidity reduction with high efficient cooling capacity.

Temperature Setting:
set temperature range is from 15 °C to 30 °C.

Econo Mode:
provides more energy saving with high efficient cooling capacity.

24 Hours Programmable Timer:
Users can select on/off time of the unit as real time.

Touch Wired Control

LCD Wireless Remote Control

(ACYSTAT170AA Cooling Only)
(ACYSTAT270AA Cool & Heat)

Digital Touch Control Series

Digital Touch Control is designed with state-of-the-art to fulfill the modern lifestyle.

- Wired and wireless control are available.
- Touch control switch.
- Providing variety of features espcially when using with wireless remote control.
- Intelligent control: providing intelligent features and convenience as your desire.

AIRE Y CLIMA ESPECIALIZADO

Product Specification 50Hz: High Efficiency Models

Model	Indoor Unit		MCD009AA5	MCD012AA5	MCD018AA5	MCD024AA5	MCD030EB5	MCD036EB5	MCD036EB5	MCD042EB5
Outdoor Unit			TTK509PB5	TTK512LB5	TTK518LB5	TTK524LB5	TTK530KB5	TTK536KB5	TTK536KD5	TTK042KD5
Electrical Data	Power Supply	V/ph/Hz	220-240/1/50						380-415/3/50	
Performance Data	Cooling Capacity	Btu/h	10,600	13,400	18,100	25,400	31,100	36,100	36,200	40,900
	Energy Efficiency Rating (EER)	Btu/h/W	11.31	11.85	11.31	11.14	11.15	11.10	11.52	11.71
	Nominal Airflow	cfm	300	400	600	800	1,000	1,200	1,200	1,400
Indoor Unit										
Expansion Device			Capillary Tube							
Fan Motor	Type		Permanent Split Capacitor							
	RLA/LRA	A	0.49/0.71	0.49/0.71	0.86/1.26	1.71/3.19	1.71/3.19	1.56/3.01	1.56/3.01	2.29/3.15
Control Type	LCD Control Series		Option							
	Touch Control Series		Option							
Accessories	Return Air Plenum		Option				•	•	•	•
Installed Position	Ceiling Concealed		•	•	•	•	•	•	•	•
Dimension	Height	mm	258	258	270	325	348	408	408	408
	Width	mm	946	946	1,098	1,098	1,251	1,098	1,098	1,098
	Depth	mm	456	456	482	520	672	759	759	759
Weight		kg	23	24	27	28	41	47	47	50
Piping Connection Type			Sweat Type							
Outdoor Uit										
Compressor	Type		Rotary			Scroll				
	RLA\LRA		4.1/22.0	5.0/29.0	7.1/36.0	10.7/51.0	12.9/60.0	17.2/100.0	6.4/46.0	7.2/48.0
Fan Motor	Type		Permanent Split Capacitor							
	RLA\LRA		0.43/0.62	0.54/0.93	0.88/1.79	1.03/1.79	1.03/1.79	1.03/1.79	1.03/1.79	(0.88/1.79) x 2
Dimension	Height	mm	531	585	692	795	795	795	795	1,254
	Width	mm	700	830	830	1,018	1,018	1,018	1,018	988
	Depth	mm	250	330	330	360	360	360	360	350
Weight		kg	38	43	54	70	70	71	70	85
Piping Connection Type			Flare Type							Sweat Type
Refrigerant Pipe Size	Liquid	in	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Suction	in	1/2	5/8	5/8	5/8	3/4	3/4	3/4	7/8

1. At ARI system rating conditons of 80°F - DB / 67°F - WB Indoor & 95°F - DB Outdoor.
2. Rated for 25 feet (7.5 meters) of evacuated refrigerant piping.
3. Outdoor unit's dimensions exclude the size of the mounting feet. For more detail, please see the drawing in the installation manual.

Product Specification 50Hz: Standard Models

Model	Indoor Unit		MCD512DB	MCD518DB	MCD524DB	MCD530DB	MCD536DB	MCD536DB	MCD048DB	MCD048DB	MCD060DB
	Outdoor Unit		TTK512PB	TTK518PB	TTK524PB	TTK530PB	TTK536KB	TTK536KD	TTK042KD	TTK048KD	TTK060KD
Electrical Data	Power Supply	V/ph/Hz	220-240/1/50					380-415/3/50			
Performance Data	Nominal Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	36,000	42,000	48,000	60,000
	Nominal Airflow	cfm	400	600	800	1,000	1,200	1,200	1,400	1,600	2,000
Indoor Unit											
Expansion Device			Capillary Tube								
Fan Motor	Type		Permanent Split Capacitor								
	RLA/LRA	A	0.48/0.80	0.82/1.86	1.37/3.15	1.98/5.28	2.20/5.77	2.20/5.77	3.33/5.08	3.33/5.08	4.30/6.98
Control Type	LCD Control Series		Option								
	Touch Control Series		Option								
Accessories	Return Air Plenum		Option						•	•	•
	Electric Heater		Option								
Installed Position	Ceiling Concealed		•	•	•	•	•	•	•	•	•
Dimension	Height	mm	258	258	258	258	258	258	408	408	408
	Width	mm	946	946	946	1,098	1,251	1,251	1,098	1,098	1,251
	Depth	mm	494	494	531	531	531	531	759	759	759
Weight		kg	21	23	24	27	30	30	49	49	55
Outdoor Unit											
Compressor	Type		Rotary			Scroll					
	RLA\LRA		5.3/29.0	8.4/43.0	10.8/59.0	17.2/100.0	17.1/97.0	7.2/48.0	10.0/59.0	10.0/59.0	10.0/74.0
Fan Motor	Type		Permanent Split Capacitor								
	RLA\LRA		0.43/0.62	0.54/0.93	0.88/1.79	0.88/1.79	1.03/1.79	1.03/1.79	1.03/1.79	(0.88/1.79) x 2	(0.88/1.79) x 2
Dimension	Height	mm	531	692	692	692	795	795	795	1,254	1,254
	Width	mm	700	830	830	830	1,018	1,018	1,018	988	988
	Depth	mm	250	330	330	330	360	360	360	350	350
Weight		kg	41	54	60	61	83	81	88	92	95
Piping Connection Type			Flare Type						Sweat Type		
Refrigerant Pipe Size	Liquid	in	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Suction	in	1/2	1/2	5/8	5/8	3/4	3/4	7/8	1 1/8	1 1/8

1. At ARI system rating conditons of 80°F - DB / 67°F - WB Indoor & 95°F - DB Outdoor.
2. Rated for 25 feet (7.5 meters) of evacuated refrigerant piping.
3. Outdoor unit's dimensions exclude the size of the mounting feet. For more detail, please see the drawing in the installation manual.

Product Specification 60Hz: Standard Models

Model	Indoor Unit		MCD512D1	MCD518D1	MCD524D1	MCD530D1	MCD536D1	MCD536D1	MCD048D1	MCD048D1	MCD060D1
	Outdoor Unit		TTK512P1	TTK518P1	TTK524P1	TTK530P1	TTK536K1	TTK536K4	TTK042K4	TTK048K4	TTK060K4
Electrical Data	Power Supply	V/ph/Hz	200-240/1/60					460/3/60			
Performance Data	Nominal Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000	36,000	42,000	48,000	60,000
	Nominal Airflow	cfm	400	600	800	1,000	1,200	1,200	1,400	1,600	2,000
Indoor Unit											
Expansion Device			Capillary Tube								
Fan Motor	Type		Permanent Split Capacitor								
	RLA/LRA	A	0.58/0.70	0.81/1.20	1.42/2.04	1.87/2.59	2.07/3.65	2.07/3.65	3.00/7.22	3.00/7.22	3.80/5.43
Control Type	LCD Control Series		Option								
	Touch Control Series		Option								
Accessories	Return Air Plenum		Option						•	•	•
	Electric Heater		Option								
Installed Position	Ceiling Concealed		•	•	•	•	•	•	•	•	•
Dimension	Height	mm	258	258	258	258	258	258	408	408	408
	Width	mm	946	946	946	1,098	1,251	1,251	1,098	1,098	1,251
	Depth	mm	494	494	531	531	531	531	759	759	759
Weight		kg	21	23	24	27	30	30	49	49	55
Piping Connection Type			Sweat Type								
Outdoor Unit											
Compressor	Type		Rotary			Scroll					
	RLA\LRA		5.2/29.0	8.6/50.0	10.8/58.0	15.0/73.0	18.4/95.0	5.7/39.0	7.1/46.0	7.2/48.0	8.9/65.5
Fan Motor	Type		Permanent Split Capacitor								
	RLA\LRA		0.49/0.56	1.25/1.53	1.25/1.53	1.25/1.53	1.25/1.53	1.25/1.53	1.25/1.53	(0.66/0.80) x 2	(0.66/0.80) x 2
Dimension	Height	mm	531	692	692	692	795	795	795	1,254	1,254
	Width	mm	700	830	830	830	1,018	1,018	1,018	988	988
	Depth	mm	250	330	330	330	360	360	360	350	350
Weight		kg	36	44	43	61	82	79	82	84	92
Piping Connection Type			Flare Type						Sweat Type		
Refrigerant Pipe Size	Liquid	in	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Suction	in	1/2	1/2	5/8	5/8	3/4	3/4	7/8	1 1/8	1 1/8

1. At ARI system rating conditons of 80°F - DB / 67°F - WB Indoor & 95°F - DB Outdoor.
2. Rated for 25 feet (7.5 meters) of evacuated refrigerant piping.
3. Outdoor unit's dimensions exclude the size of the mounting feet. For more detail, please see the drawing in the installation manual.

Literature Order Number:	MS-SLB029-EN
Date:	Jul 2009
Supersedes:	New
Stocking Location:	Bangkok, Thailand

Trane
www.trane.com

For more information, contact your local district office

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.