
















## New SRK\*\*ZS-S





- Line up
- Basic concept
- New features
- Specifications
- New functions
- Hardware
- Service & Maintenance
- Options



				Capacity Range								
	Current	2016	2017	20	25	35	45	50	60	63	71	80
Diamond series	ZMX	←	<b>ZSX</b>									
	ZR	← Keep										
Premium series	ZM		<b>ZS</b>									
Standard series	ZMP	← Keep										



**European Design**

**Higher Seasonal efficiency**

**Lower noise**

**New functions**



## Exterior design:

ZSX series (Diamond series)



ZS series (Premium series)



### Design Concept:

To introduce a new sleek European design to the high end and the standard model indoor units, adapting unification in design for both models to represent MHI wall mounted model recognition.



**Why is the standard model applied with European design before the Hi-end?**



**Answer**



- Most sold wall mounted units in Europe.
- To be applied to split and multi  
= “Popular face” of MHI unit
- No other manufacturer has placed a “design model” in their standard range line-up



## Exterior design:



**MHI**  
SRK-ZS-S



FTXS-K



FTXS-G

**Daikin**  
FTXS-K/G



MSZ-SF/GF



MSZ-SF/GF

**Melco**  
MSZ-SF/GF



**Hitachi**  
RAK-PPA



**Toshiba**  
Akita EVO



**Fujitsu**  
LM/LE series



**Panasonic**  
Etherea

**New and beautiful design for most popular wall mounted unit**



## Exterior design:



“Floating effect”

Ribs in intake area are connected internally.



Round corner makes outline of unit smaller than actual



“Floating effect” by radius corner



Stylish logo and LED design



**Only new design good enough for standard series?**



**No**

- Keep balance between performance and price competitive
- Keep difference in specification from Hi-end series and popular series

**Better performance as standard series  
with the new European design**



- European design
- Higher seasonal efficiency
- Lower noise level down to 19dB(A)
- Increase max piping length
- Pre-set operation
- Improve Cool/Heat auto change over.
- LED brightness adjustment
- Optional Wi-Fi control
- Colour variation available





## Comparison with current model

				Current model (ZM series)				New model (ZS series)			
Indoor unit				SRK20ZM-S	SRK25ZM-S	SRK35ZM-S	SRK50ZM-S	SRK20ZS-S	SRK25ZS-S	SRK35ZS-S	SRK50ZS-S
Outdoor unit				SRC20ZM-S	SRC25ZM-S	SRC35ZM-S	SRC50ZM-S	SRC20ZS-S	SRC25ZS-S	SRC35ZS-S	SRC50ZS-S
Cooling	Capacity (kw)			2.0	2.5	3.5	5.0	2.0	2.5	3.5	5.0
	Max. Capacity			2.7	2.9	3.8	5.5	2.8	3.0	3.8	5.5
	EER			4.55	4.03	3.47	3.23	4.55	4.03	3.47	3.21
	SEER			7.00	7.10	7.10	6.30	7.80	7.80	7.80	6.30
	E-class			A++	A++	A++	A++	A++	A++	A++	A++
Heating	Capacity			2.7	3.2	4.0	5.8	2.7	3.2	4.0	5.8
	Max. Capacity (kw)			3.9	4.2	4.8	6.6	4.2	4.4	4.8	6.6
	COP			4.35	4.00	4.00	3.65	4.35	4.00	4.00	3.65
	SCOP (kw)			4.05	4.16	4.17	4.20	4.60	4.60	4.60	4.20
	E-class			A+	A+	A+	A+	A++	A++	A++	A+
Exterior Dimensions	indoor	Height (mm)		294				290			
		Width (mm)		798				870			
		Depth (mm)		229				230			
	Outdoor	Height (mm)		540			640	540			595
		Width (mm)		780			800	780			780
		Depth (mm)		290			290	290			290



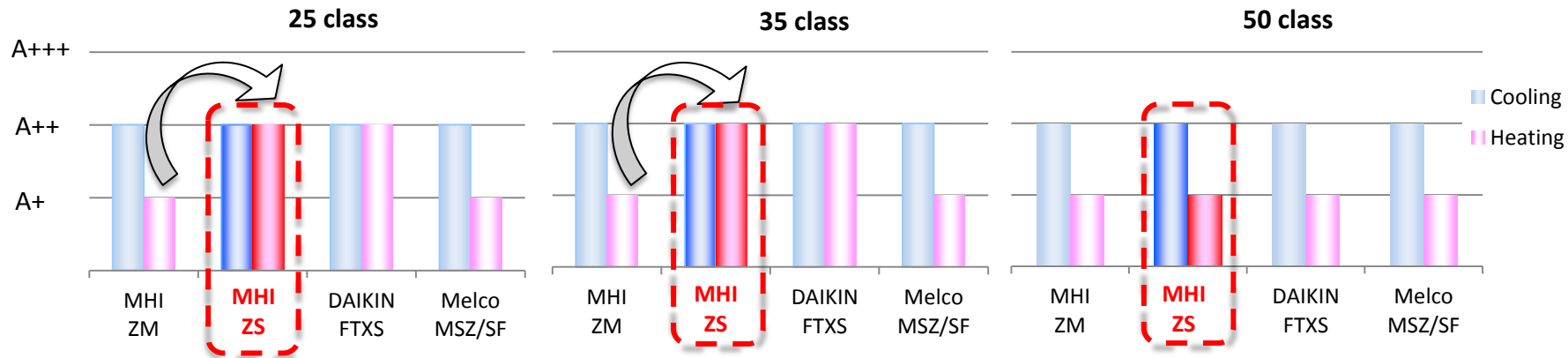
## Comparison with current model

				Current model (ZM series)				New model (ZS series)			
Indoor unit				SRK20ZM-S	SRK25ZM-S	SRK35ZM-S	SRK50ZM-S	SRK20ZS-S	SRK25ZS-S	SRK35ZS-S	SRK50ZS-S
Outdoor unit				SRC20ZM-S	SRC25ZM-S	SRC35ZM-S	SRC50ZM-S	SRC20ZS-S	SRC25ZS-S	SRC35ZS-S	SRC50ZS-S
SPL	Indoor	Cooling		33/27/24/21	34/28/24/21	42/32/26/22	46/37/28/25	34/25/22/19	36/28/23/19	40/30/26/19	45/36/28/22
		Heating		36/31/24/21	39/31/24/21	43/37/25/22	45/37/31/27	36/29/23/19	39/30/24/19	41/36/25/19	45/37/31/24
	Outdoor	Cooling	dB(A)	47	48	50	51	45	46	50	51
		Heating	dB(A)	46	49	51	53	45	46	48	53
	Outdoor Silent	Cooling	dB(A)	42	42	45	43	42	42	45	43
		Heating	dB(A)	45	45	45	45	43	43	44	45
PWL	Indoor	Cooling	dB(A)	49	50	58	60	50	52	56	58
		Heating	dB(A)	52	55	59	61	52	55	58	59
	Outdoor	Cooling	dB(A)	59	60	62	61	57	58	62	62
		Heating	dB(A)	58	61	63	63	57	58	61	63
Refrigerant piping				Max.15			Max.25	Max.20			Max.25
Vertical height differences (OU is higher/lower)				Max.10/Max.10			Max.15 /Max.15	Max.10/Max.10			Max.15 /Max.15



## Higher energy efficiency

Improve in seasonal efficiency and energy class.

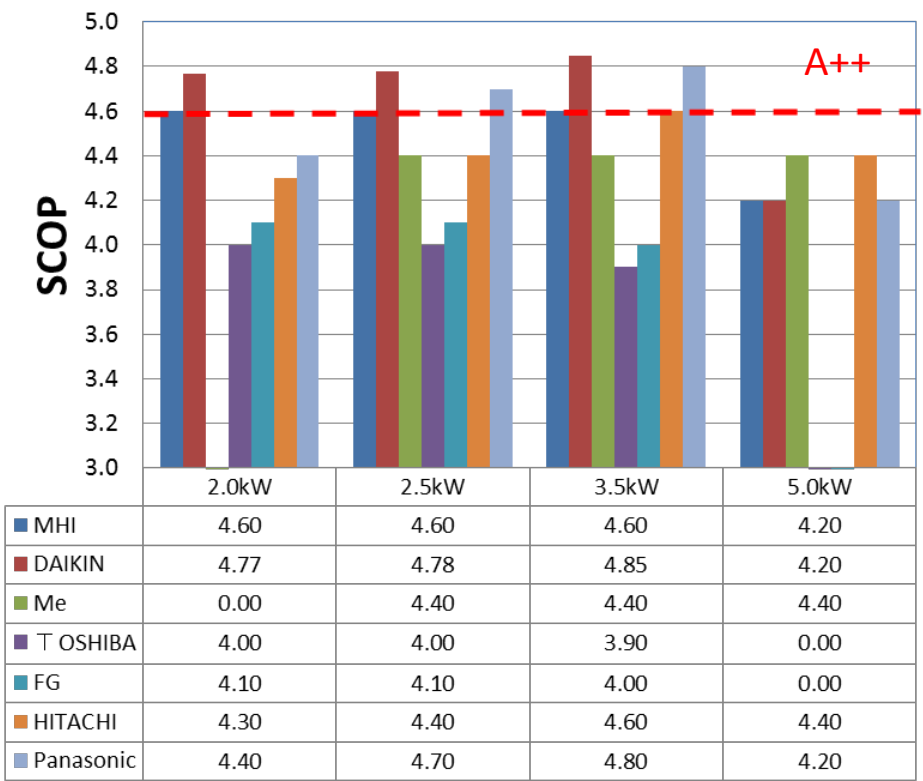
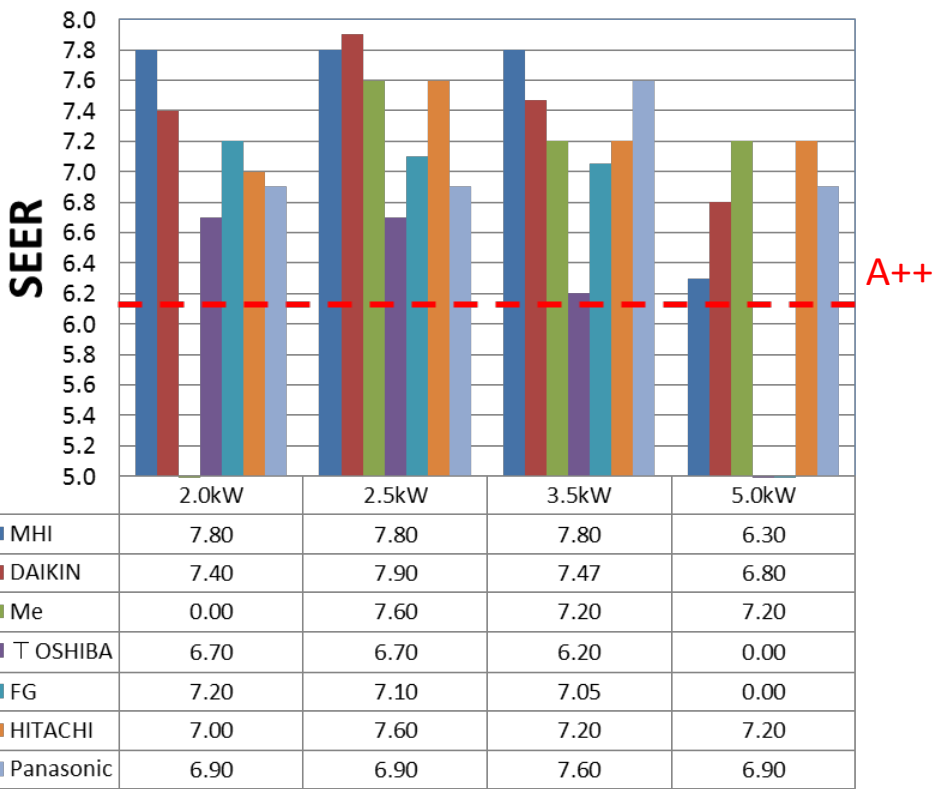


			Current model				New model			
			2.0	2.5	3.5	5.0	2.0	2.5	3.5	5.0
Z* series	Cooling	SEER	7.00	7.10	7.10	6.30	<b>7.80</b>	<b>7.80</b>	<b>7.80</b>	6.30
		E-class	A++	A++	A++	A++	A++	A++	A++	A++
	Heating	SCOP	4.05	4.16	4.17	4.20	<b>4.60</b>	<b>4.60</b>	<b>4.60</b>	4.20
		E-class	A+	A+	A+	A+	<b>A++</b>	<b>A++</b>	<b>A++</b>	A+

Improve partial load efficiency



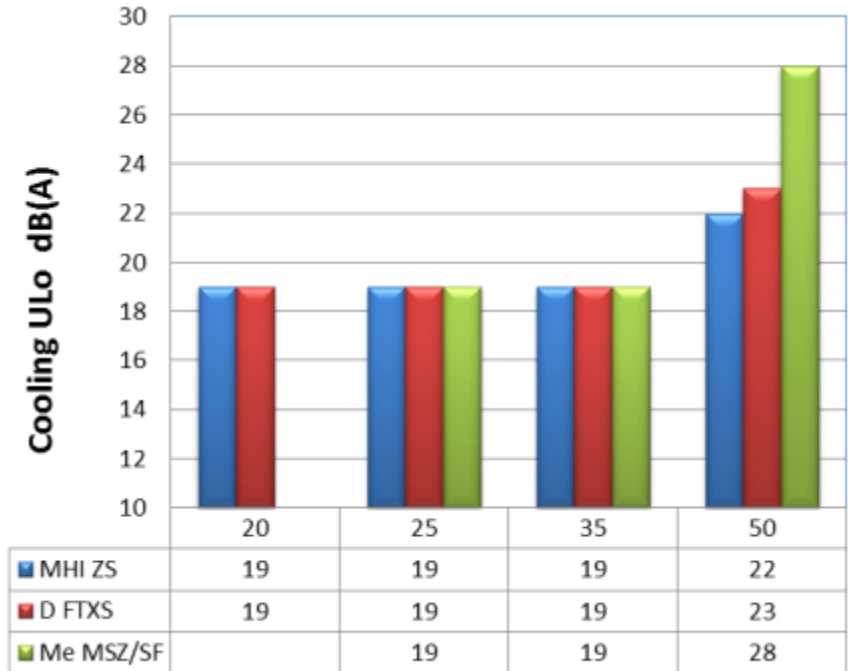
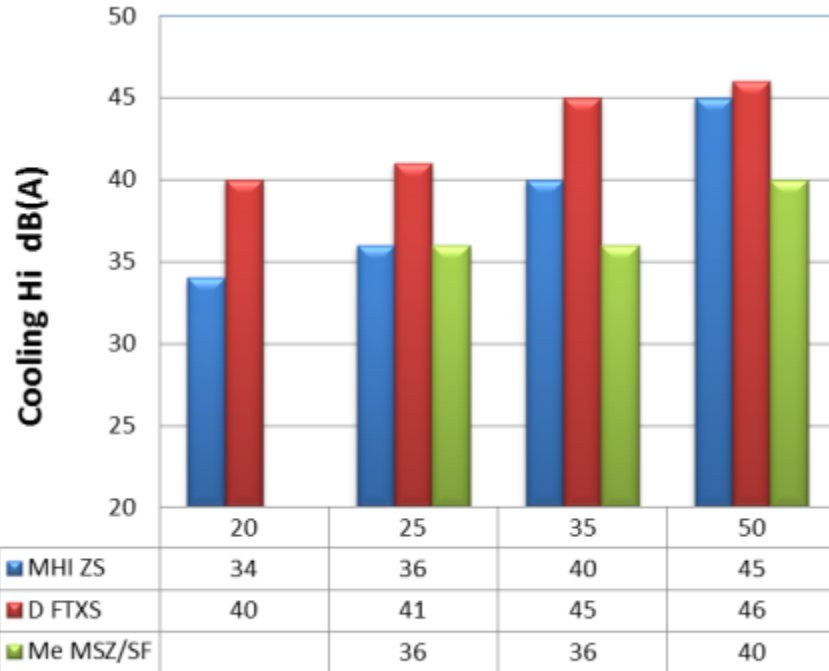
## Higher energy class



**SEER : Keep competitive A++ with higher values**  
**SCOP: Only MHI, D and P achieve A++**



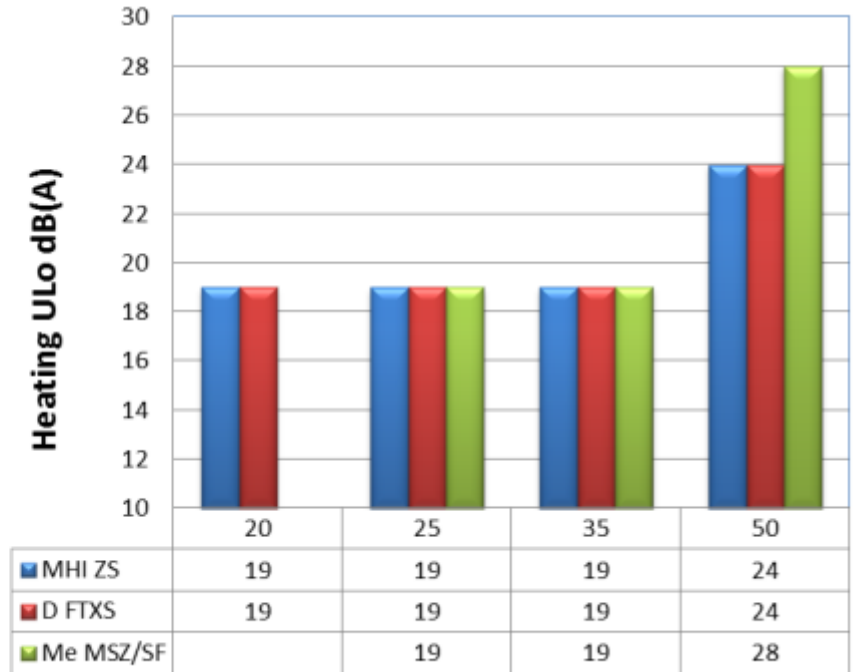
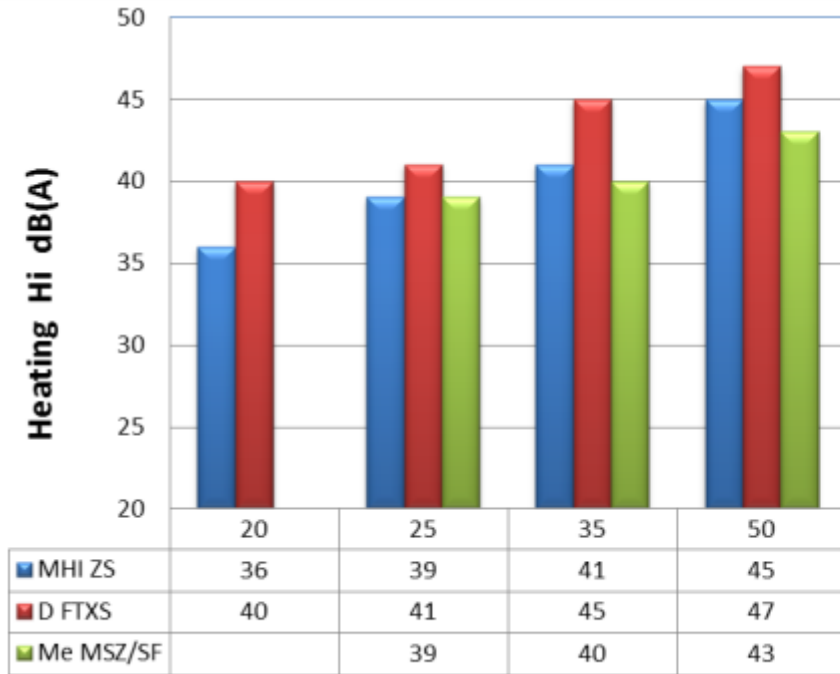
## Lower noise level



- MHI can achieve lower noise @Hi, with high energy efficiency
- Only MHI and D, Me can achieve 19dB(A)@ULo
- For 50 class, MHI can achieve lower noise with 22dB(A)



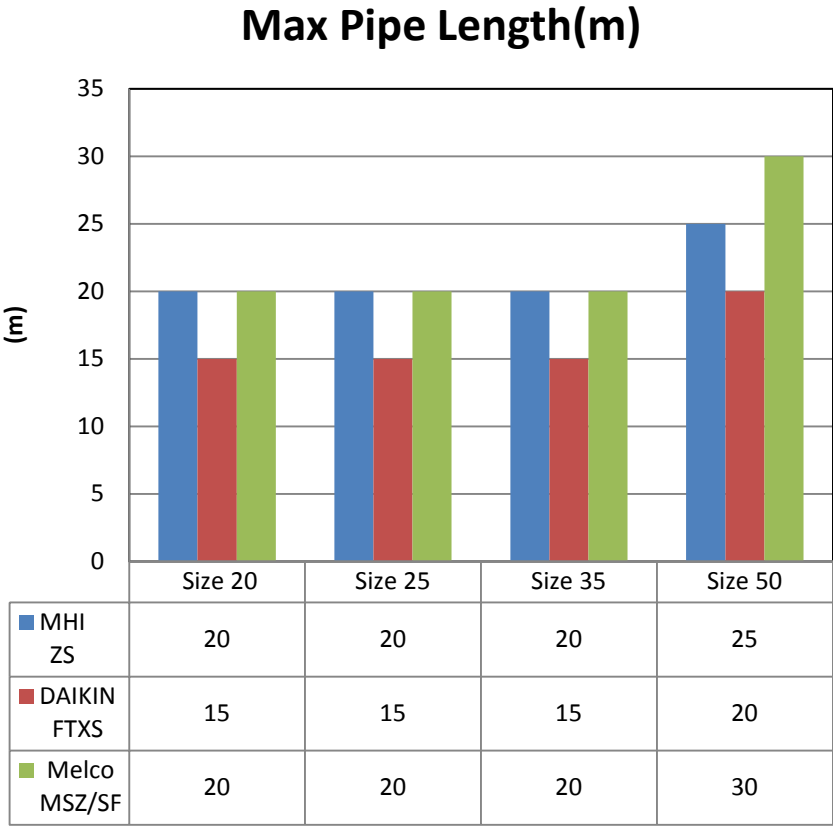
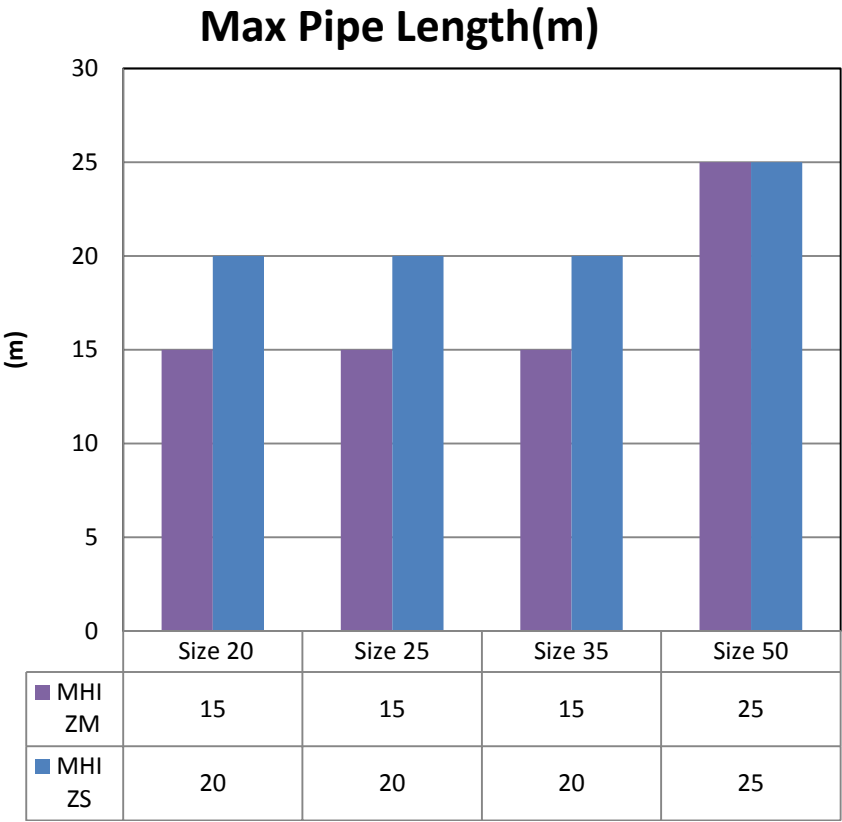
## Lower noise level



- MHI can achieve lower noise @Hi, with high energy efficiency
- Only MHI and D, Me can achieve 19dB(A)@ULo
- For 50 class, MHI and D can achieve lower noise with 24dB(A)



## Increase maximum piping length



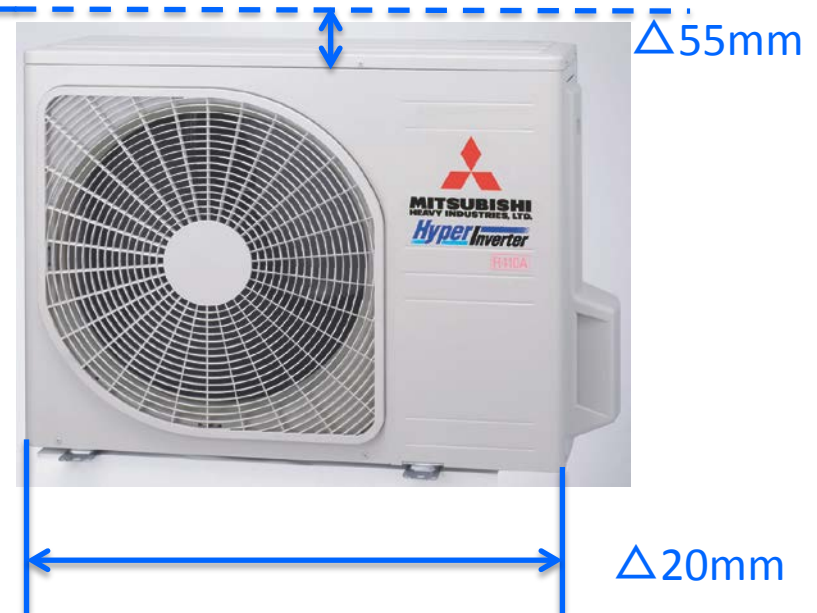
- Piping length is good enough to cover requirements for standard range



## Smaller size of outdoor unit (model 50)



SRC50ZM-S  
640 x 800 x 290

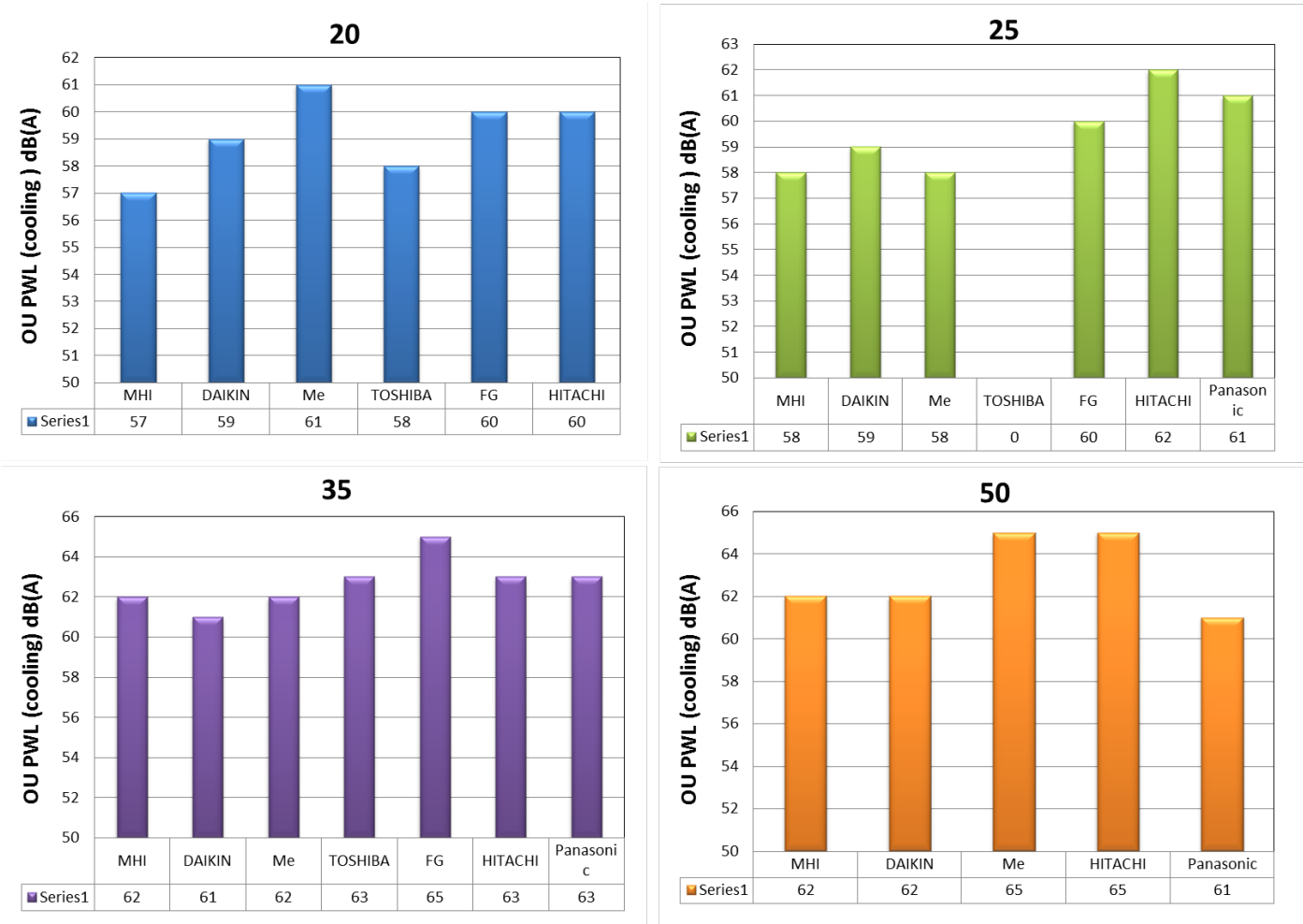


SRC50ZS-S  
595 x 780 x 290

	MHI	D	Me	H	P
	<b>SRC50ZS-S</b>	RXS50L2V1B	MUZ-SF50VE	RAC-50WPB	CU-E18QKE
H (mm)	<b>595</b>	735	880	600	695
W (mm)	<b>780</b>	825	840	792	875
D (mm)	<b>290</b>	300	330	299	320



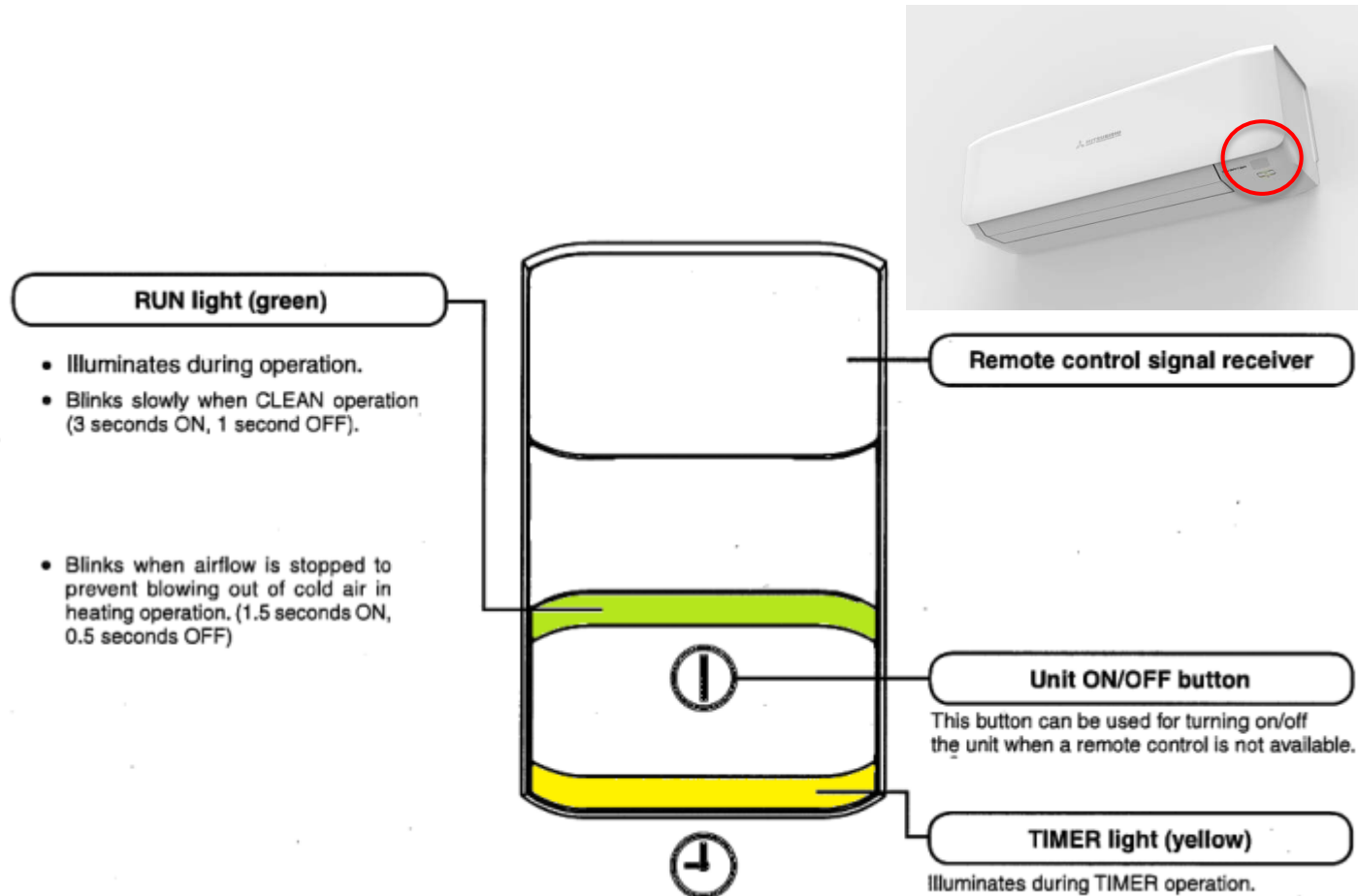
## Lower PWL for outdoor unit



Competitive noise level for outdoor unit



## New LED display



Simple and not too outstanding



## New and Improved functions

- Pre-set operation
- LED brightness adjustment
- Fuzzy Auto
- Heating only function

## Keep good functions

- HI POWER
- ECONOMY
- 3D Auto
- Silent mode
- Night set back
- Allergen Clear operation
- On/Off timer
- Weekly timer
- Child lock
- Auto restart function

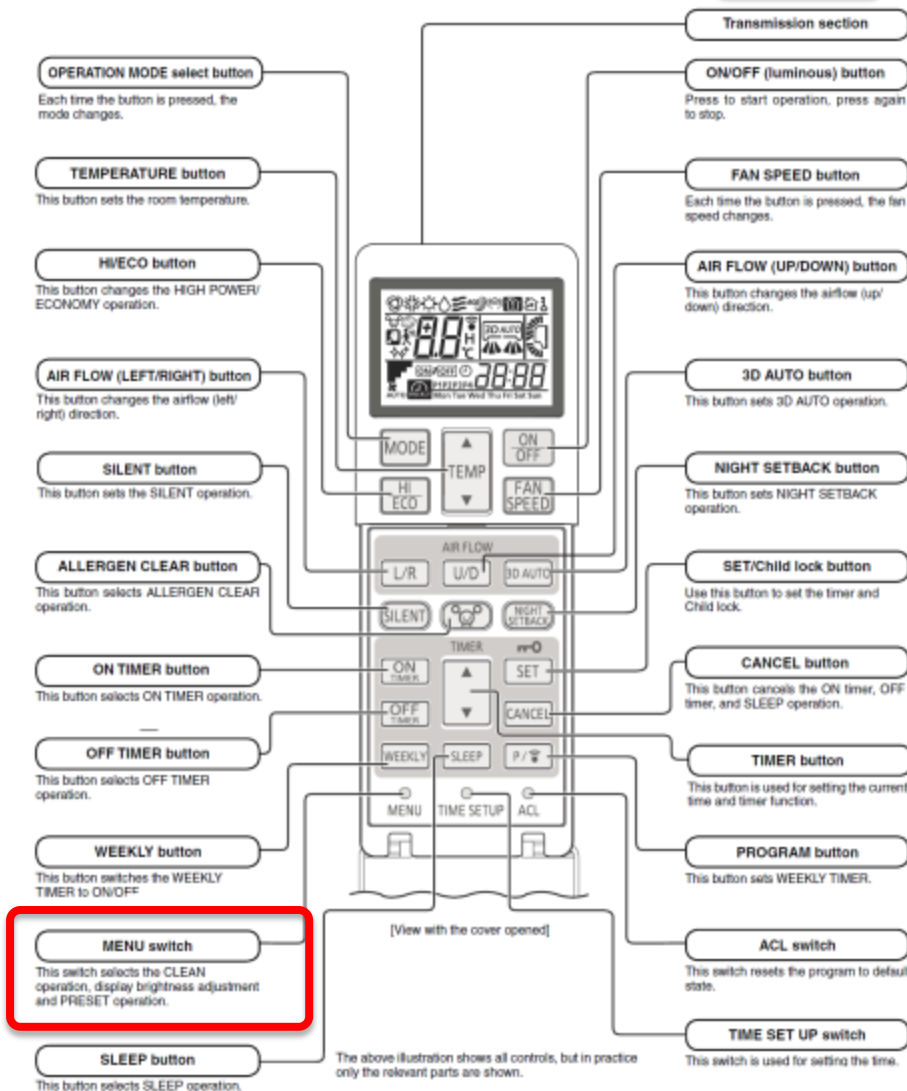




# New functions

## New wireless remote controller

New



“Clean” -> “Menu”

### Menu

- Clean
- Brightness adjustment
- PRESET



# New functions

## Preset operation

What is the previous setting.....



Or



New

**PRESET operation**  
"Mode" button for 3 sec

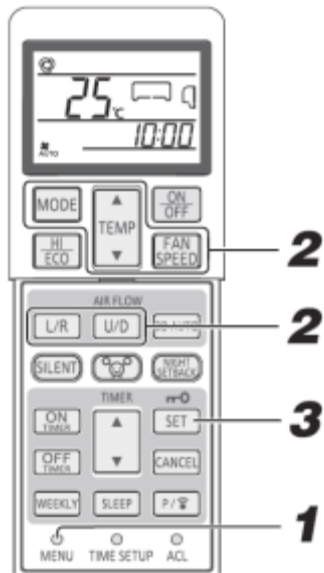
Operation mode  
Set temperature  
Fan speed  
Air flow direction

**Setting Recovered**  
**(\*) Only 1 setting is possible**

**Child lock**  
"SET" button for 3 sec



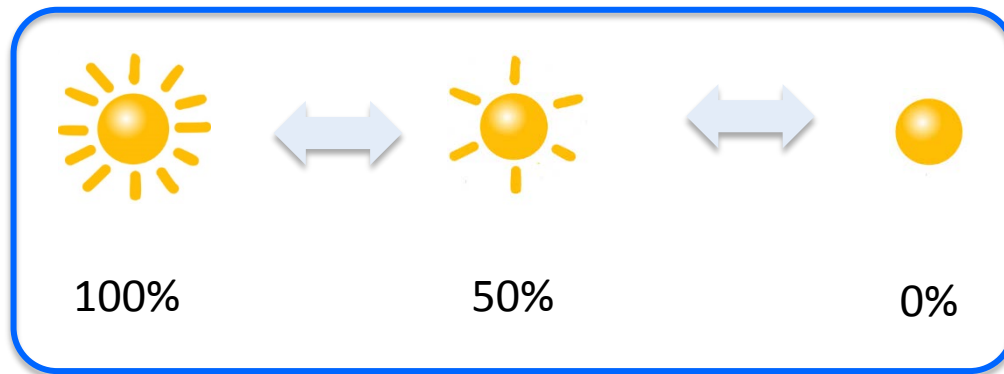
## Preset operation (Setting and activation)



1. Select the PRESET operation by pressing the MENU switch.
2. Select preferred OPERATION MODE, TEMPERATURE, FAN SPEED and AIR FLOW direction.
3. Press the SET button.
4. press MODE button 3 seconds or more



## LED brightness adjustment



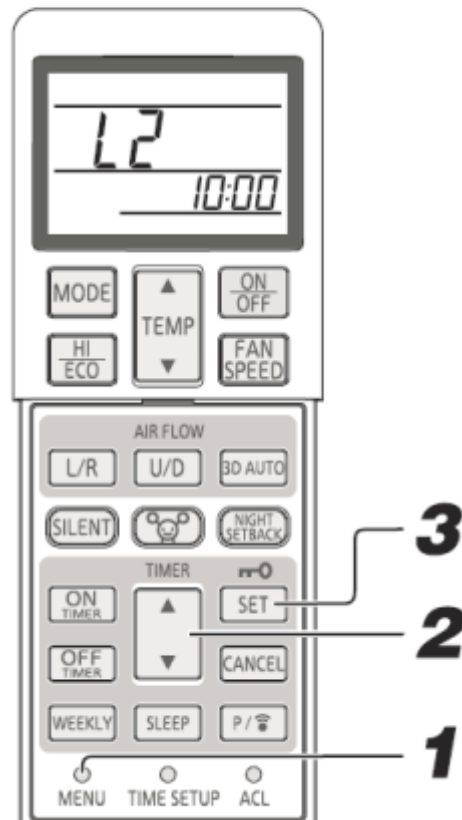
No more paper on it ...



# New functions

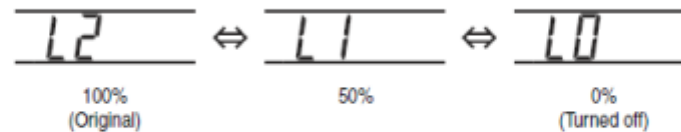
## Display brightness adjustment

- This function can be used when it is necessary to adjust the brightness of unit display.



**1** Select the display brightness adjustment by pressing the MENU switch.

**2** Select the brightness level by pressing “▲ or ▼ (TIMER)” button.



**3** Press the SET button.



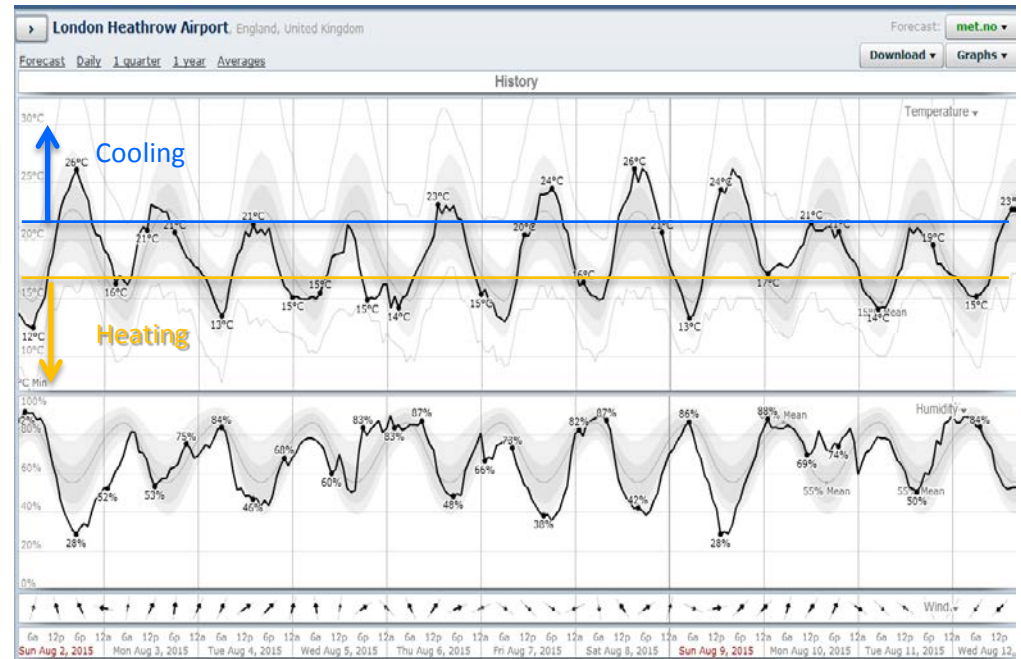
# New functions

## Improvement Cool/Heat auto change over

< July 2015 | View: | August 2015 | September 2015 >

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jul 26	27	28	29	30	31	Aug 1
Actual Temp 15° Lo 11° Hist. Avg. 22° Lo 13°	Actual Temp 20° Lo 14° Hist. Avg. 22° Lo 13°	Actual Temp 20° Lo 11° Hist. Avg. 22° Lo 13°	Actual Temp 18° Lo 9° Hist. Avg. 22° Lo 13°	Actual Temp 18° Lo 9° Hist. Avg. 22° Lo 13°	Actual Temp 20° Lo 7° Hist. Avg. 22° Lo 13°	Actual Temp 21° Lo 8° Hist. Avg. 22° Lo 13°
2	3	4	5	6	7	8
Actual Temp 23° Lo 10° Hist. Avg. 22° Lo 13°	Actual Temp 22° Lo 14° Hist. Avg. 22° Lo 14°	Actual Temp 20° Lo 12° Hist. Avg. 22° Lo 14°	Actual Temp 20° Lo 13° Hist. Avg. 22° Lo 14°	Actual Temp 21° Lo 12° Hist. Avg. 22° Lo 14°	Actual Temp 24° Lo 9° Hist. Avg. 22° Lo 14°	Actual Temp 25° Lo 13° Hist. Avg. 22° Lo 14°
9	10	11	12	13	14	
Actual Temp 25° Lo 12° Hist. Avg. 22° Lo 14°	Actual Temp 22° Lo 14° Hist. Avg. 22° Lo 14°	Actual Temp 19° Lo 13° Hist. Avg. 22° Lo 14°	Actual Temp 20° Lo 14° Hist. Avg. 22° Lo 14°	Actual Temp 19° Lo 16° Hist. Avg. 22° Lo 14°	Actual Temp 19° Lo 14° Hist. Avg. 22° Lo 14°	
16	17	18	19	20	21	22
Actual Temp 18° Lo 9° Hist. Avg. 22° Lo 14°	Actual Temp 20° Lo 9° Hist. Avg. 22° Lo 14°	Actual Temp 17° Lo 13° Hist. Avg. 22° Lo 13°	Actual Temp 20° Lo 12° Hist. Avg. 22° Lo 13°	Actual Temp 19° Lo 14° Hist. Avg. 22° Lo 13°	Actual Temp 24° Lo 15° Hist. Avg. 22° Lo 13°	Actual Temp 28° Lo 12° Hist. Avg. 22° Lo 13°
23	24	25	26	27	28	29
Actual Temp 21° Lo 12° Hist. Avg. 21° Lo 13°	Actual Temp 17° Lo 12° Hist. Avg. 21° Lo 13°	Actual Temp 17° Lo 10° Hist. Avg. 21° Lo 13°	Actual Temp 18° Lo 13° Hist. Avg. 21° Lo 13°	Actual Temp 18° Lo 12° Hist. Avg. 21° Lo 13°	Actual Temp 19° Lo 10° Hist. Avg. 21° Lo 13°	Actual Temp 20° Lo 13° Hist. Avg. 21° Lo 13°

Aug/2015,UK,Heathrow



Auto mode is frequently used (especially in the UK)

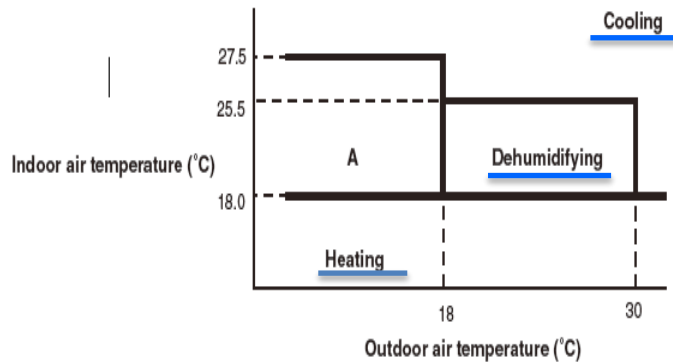


# New functions

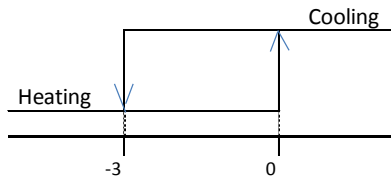
## Improvement Cool/Heat auto change over

### Determination operation mode

**ZM**

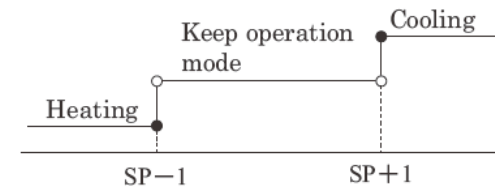
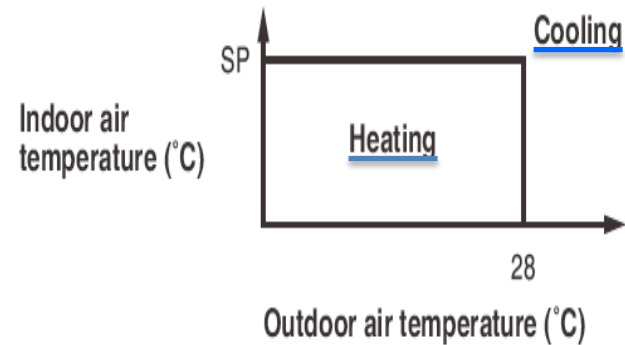


Zone A



- Cooling <-> Dehumidifying <-> Heating
- Mode change is possible
- (1) After every 1 hour check
- (2) When set temp is changed

**ZS**



- Cooling <-> Heating
- Mode change is possible
- (1) After every 20min check
- (2) When set temp is changed



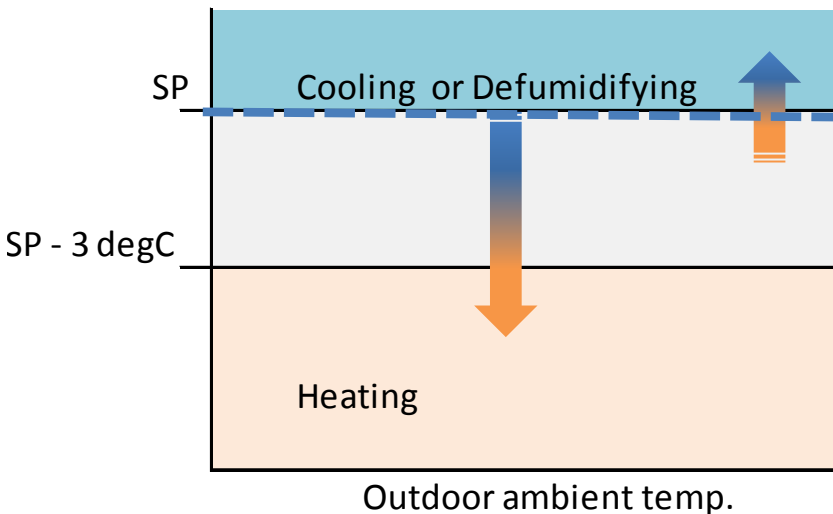
# New functions

## Improvement Cool/Heat auto change over

(1) After every check

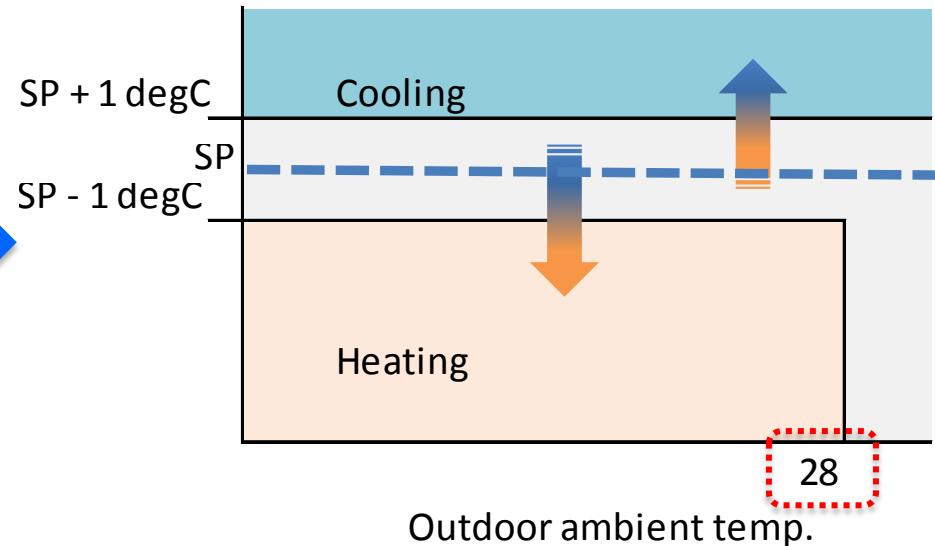
**ZM**

Every 1 hour check



**ZS**

Every 20 min check



- Min every 20 minutes of mode change
- Mode change by  $\pm 1\text{deg}$
- Added condition for OU ambient



## Improvement Cool/Heat auto change over

Set temp shift in heating mode

ZM

Set temp by RC		18	19	20	21	22	23	24	25	26	27	28	29	30
Set temp in IU	Cool (Auto)	18	19	20	21	22	23	24	25	26	27	28	29	30
	Heat (Auto)	20	21	22	23	24	25	26	27	28	29	30	31	32

+ 2 degC shift in heating (Auto)

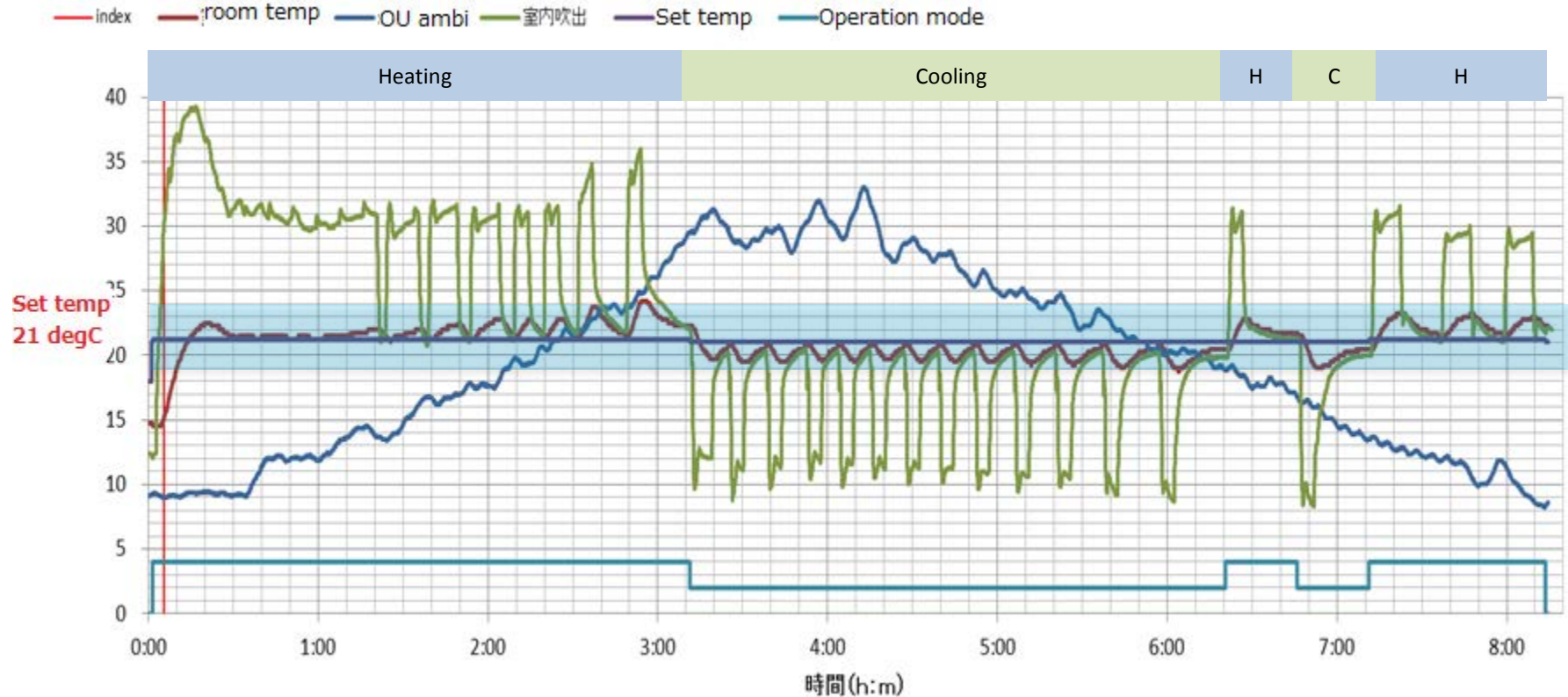
ZS

Set temp by RC		18	19	20	21	22	23	24	25	26	27	28	29	30
Set temp in IU	Cool/Heat (Auto)	18	19	20	21	22	23	24	25	26	27	28	29	30

No shift in heating (Auto)



## Improvement Cool/Heat auto change over



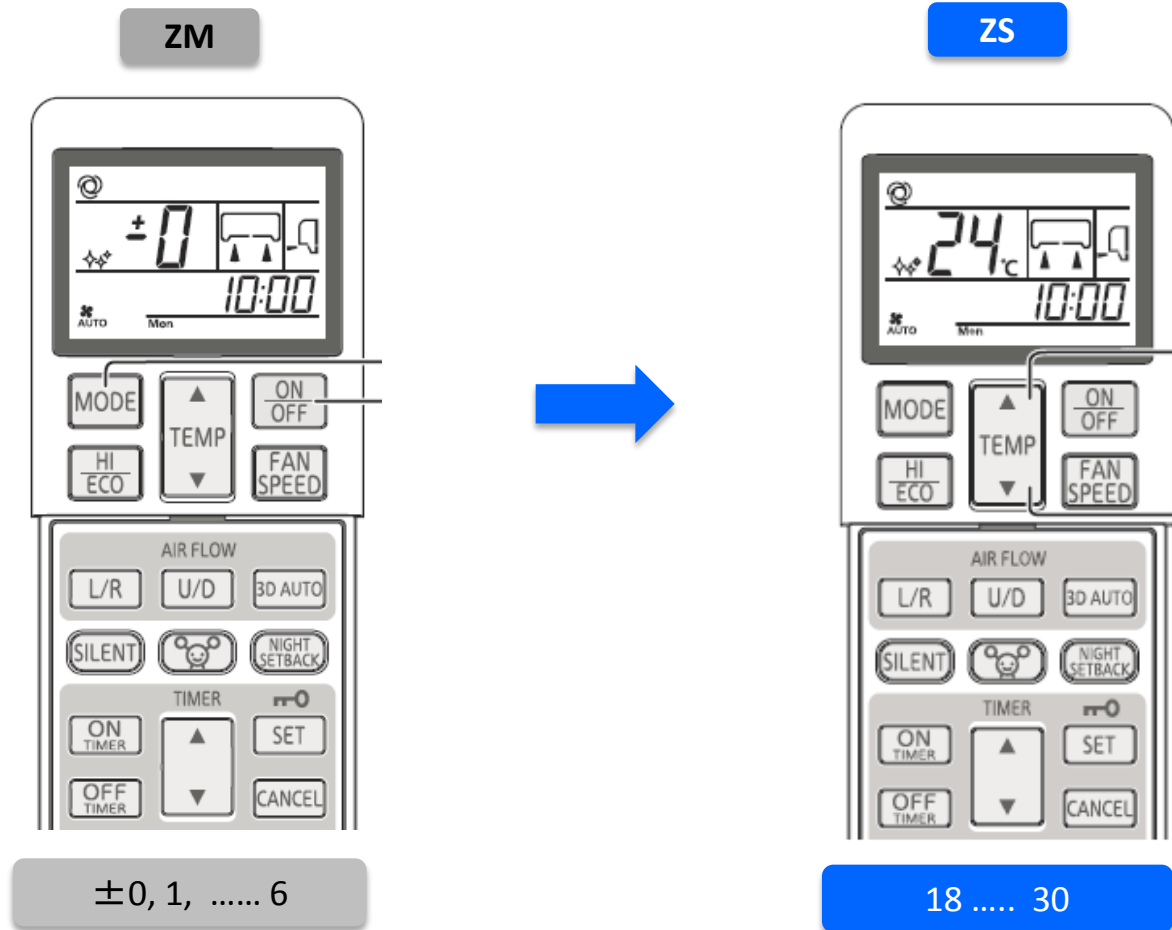
MHI lab data  
OU temp. 10 -30 degC



# New functions

## Improvement Cool/Heat auto change over

Set temperature display





# New functions

## Heating only function

RC

Operation

AUTO/HEAT



**HEAT**

Cool/DRY/FAN

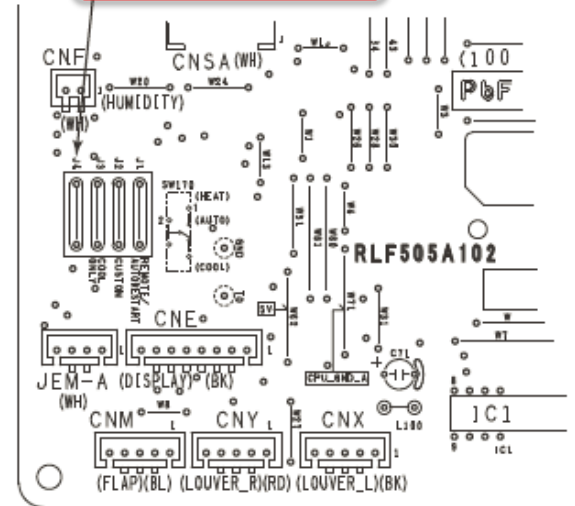


FAN



Indoor unit PCB

Jumper wire (J4)

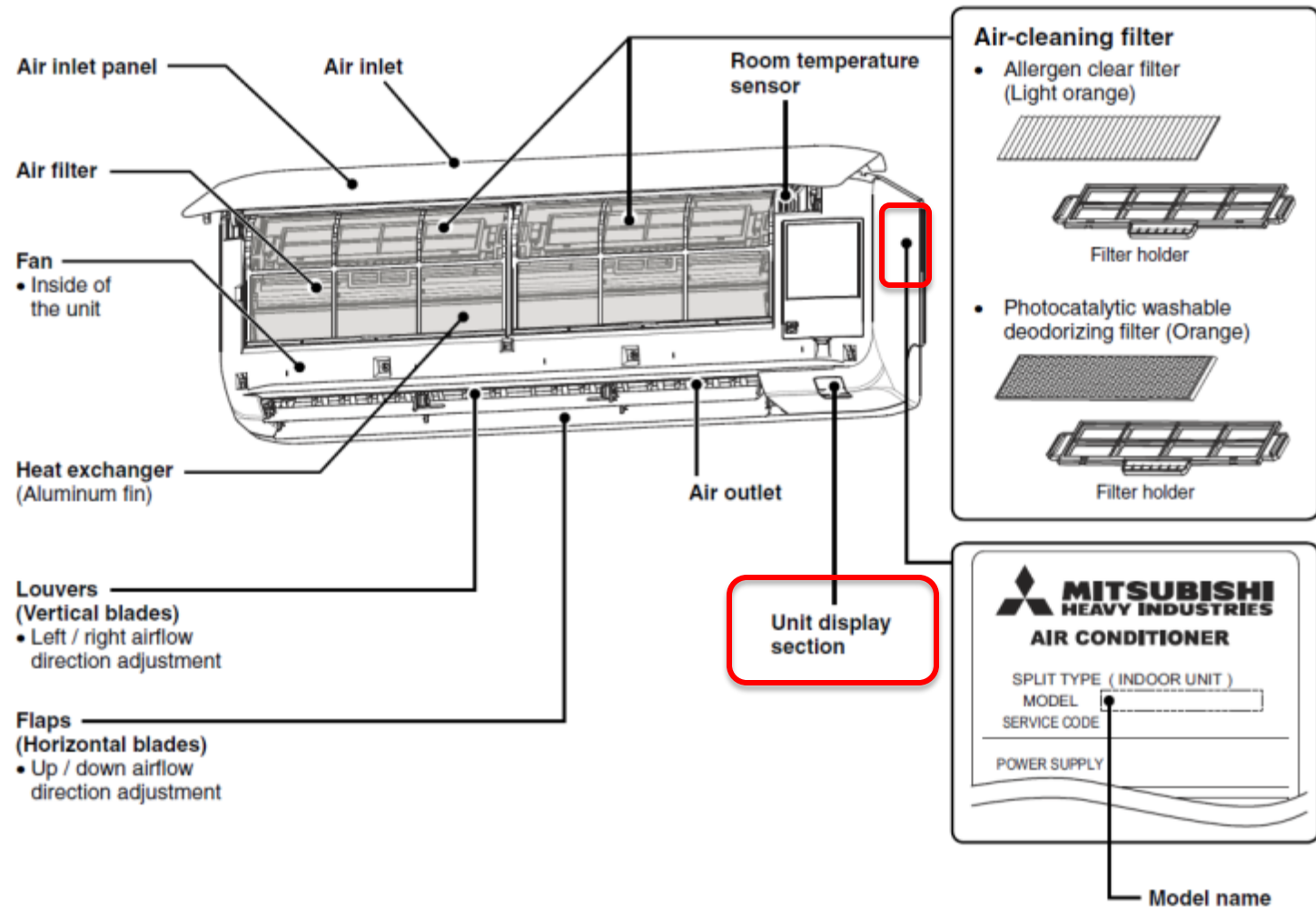


Only heating mode is enabled



# Hardware components

## Basic structure





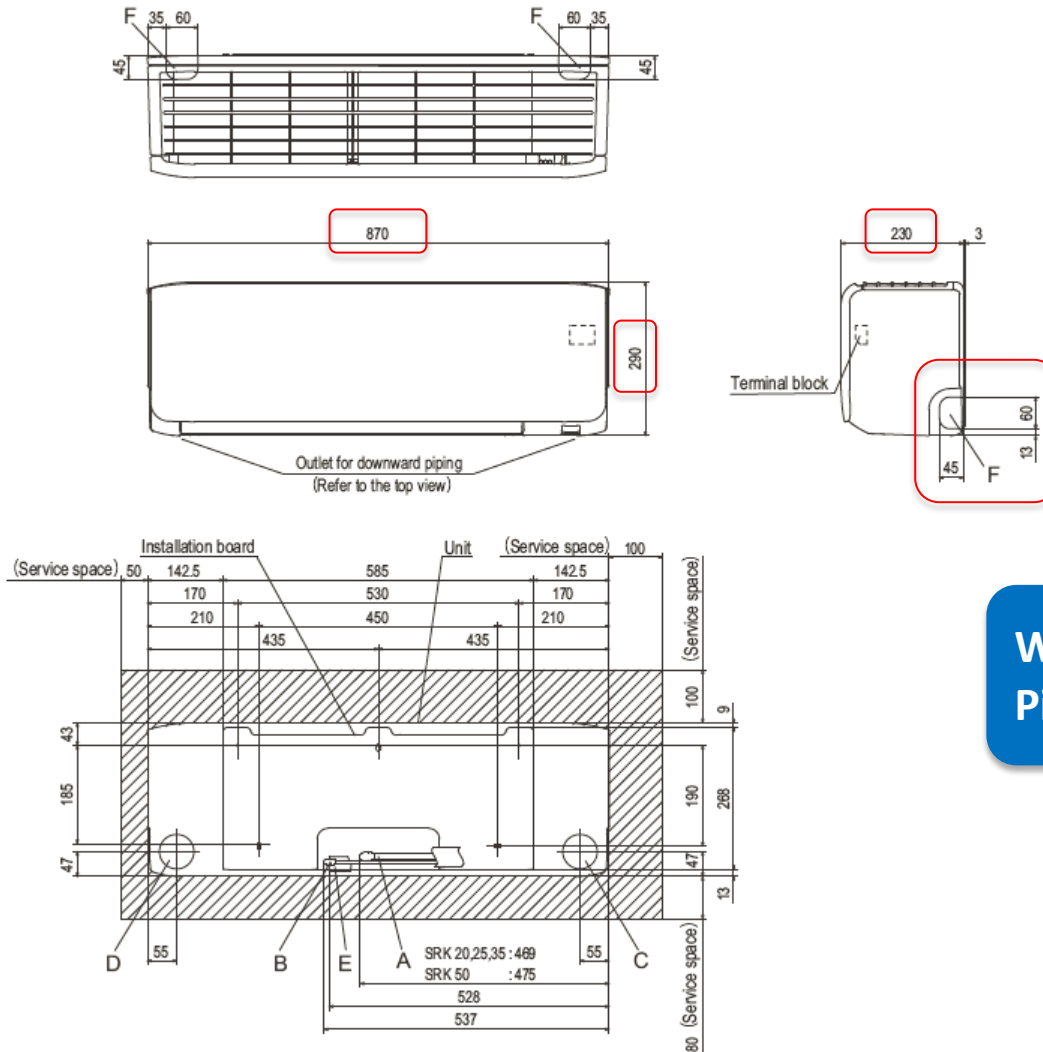
# Hardware components

		Current model (ZM series)				New model (ZS series)			
Indoor unit		SRK20ZM-S	SRK25ZM-S	SRK35ZM-S	SRK50ZM-S	SRK20ZS-S	SRK25ZS-S	SRK35ZS-S	SRK50ZS-S
Outdoor unit		SRC20ZM-S	SRC25ZM-S	SRC35ZM-S	SRC50ZM-S	SRC20ZS-S	SRC25ZS-S	SRC35ZS-S	SRC50ZS-S
Indoor unit	Height (mm)	294				290			
	Width (mm)	798				870			
	Depth (mm)	229				230			
	Weight (kg)	9.5				9.5			10
	Fan motor	30W x 1				30W x 1			
	PCB	main PCB x 1			Main PCB x 1 Sub PCB x 1	main PCB x 1			
	Air filter (pre-filter)	Polypropylene net (washable x 2)				Polypropylene net (washable x 2)			
	Clean filter	Allergen clear filter x 1 Photocatalytic washable deodorizing filter x 1				Allergen clear filter x 1 Photocatalytic washable deodorizing filter x 1			
Outdoor unit	Height (mm)	540			640	540			595
	Width (mm)	780 (+62)			800 (+71)	780 (+62)			780 (+62)
	Depth (mm)	290			290	290			290
	Weight (kg)	31.5		34.5	40.5	31.5		34.5	36.5
	Compressor	RM-B5077MDE1(Rotary)			5RS132XAB21(Rotary)	RM-B5077MDE1(Rotary type)			5RS132XAB21(Rotary)
	Fan motor	24W x 1			34W x1	24W x 1			
	PCB	main PCB x 1				main PCB x 1			
	Refrigerant	R410A				R410A			
	Ref. amount	0.75		1.05	1.35	0.75		0.95	1.25



## Outline

SRK20,25,35,50ZS-S



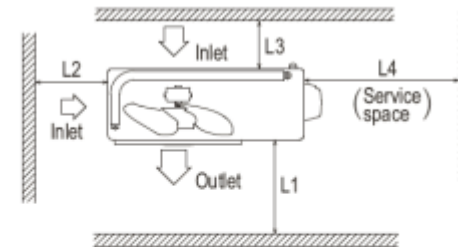
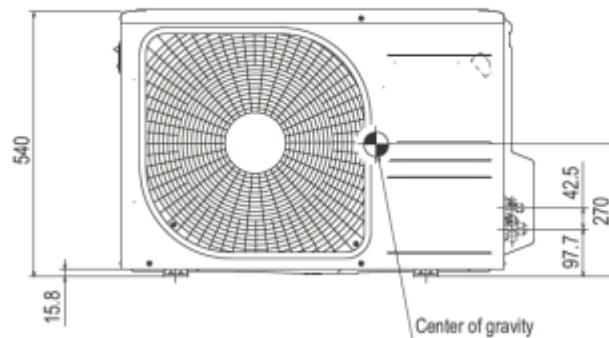
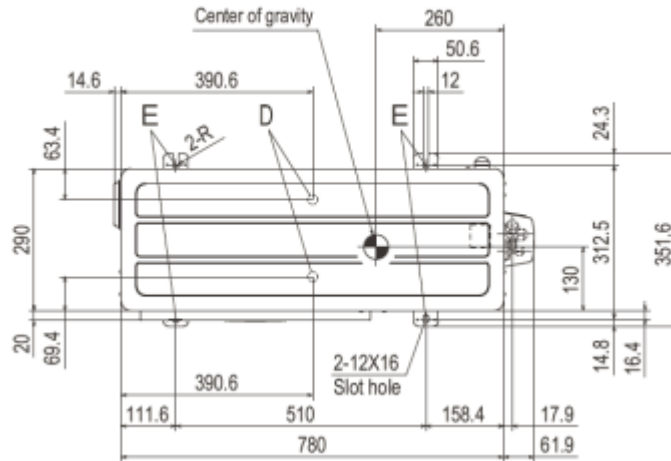
**Whole dimension is different  
Pipe outlet is different**



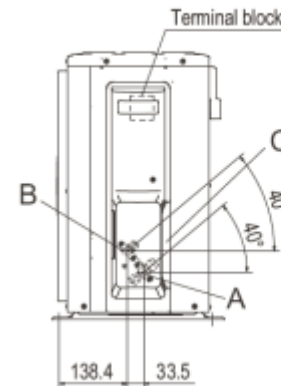
# Specifications

SRC20,25,35ZS-S: Same platform with ZM.

SRC50ZS-S: New



	Installation space
L1	280 or more
L2	100 or more
L3	80 or more
L4	250 or more



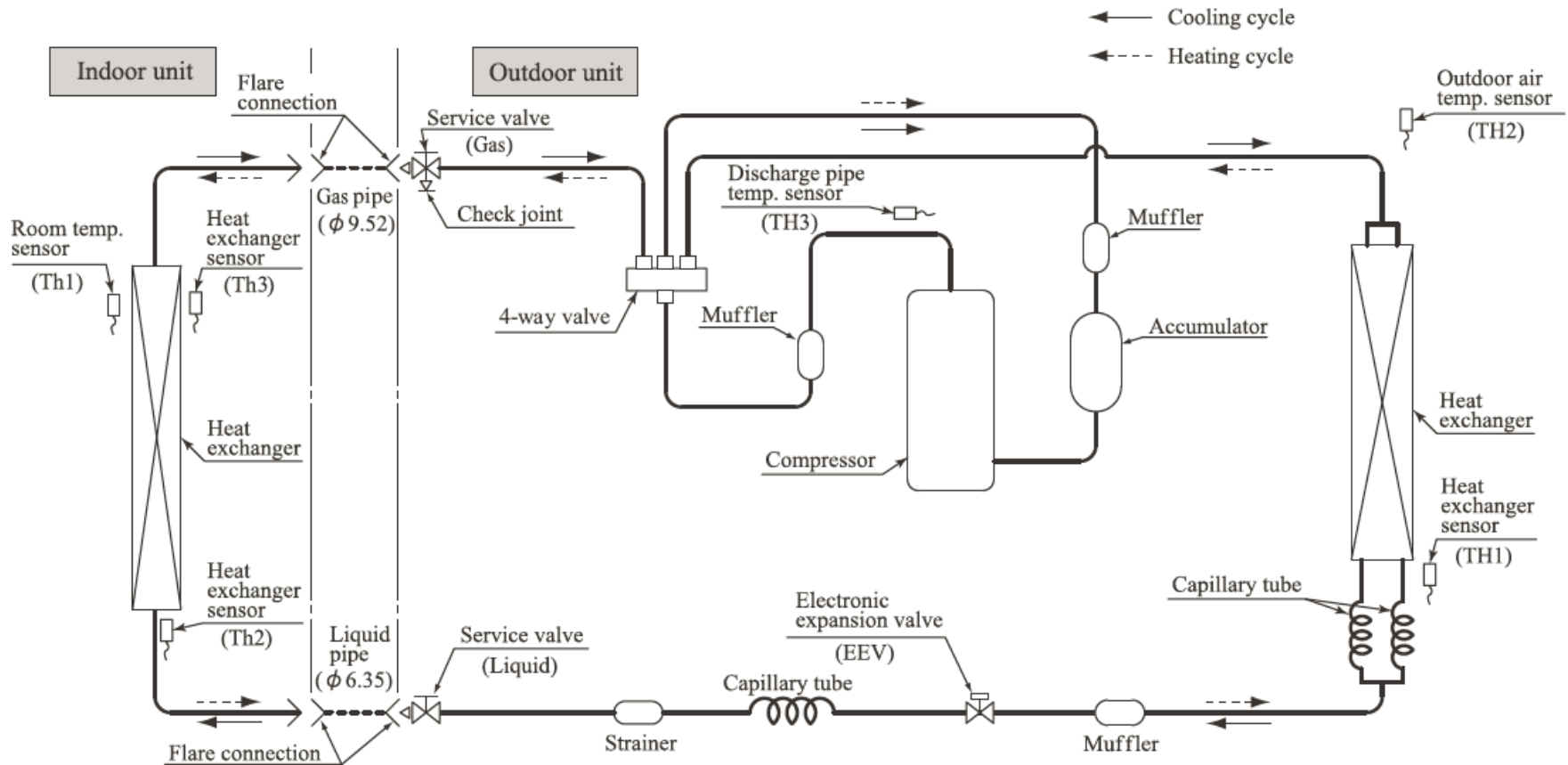
**Whole dimension is different**



# Specifications

## Piping diagram

SRK/SRC20,25,35ZS-S



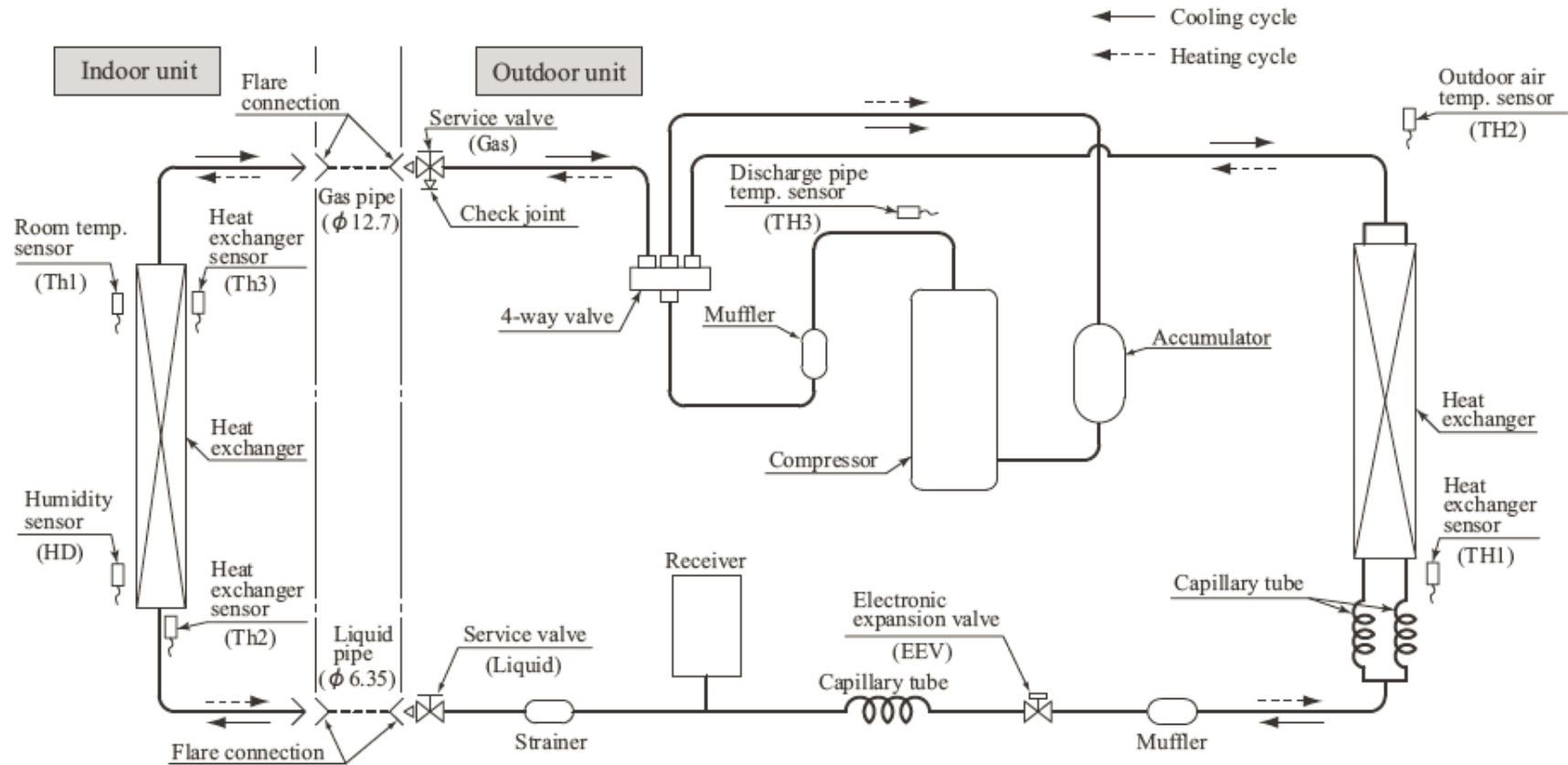
Circuit component is the same.



# Specifications

## Piping diagram

SRK/SRC50ZS-S



Circuit component is the same.



SRK/SRC20,25,35ZS-S





## SRK/SRC50ZS-S



**MITSUBISHI HEAVY INDUSTRIES**  
**AIR CONDITIONING EUROPE, LTD.**

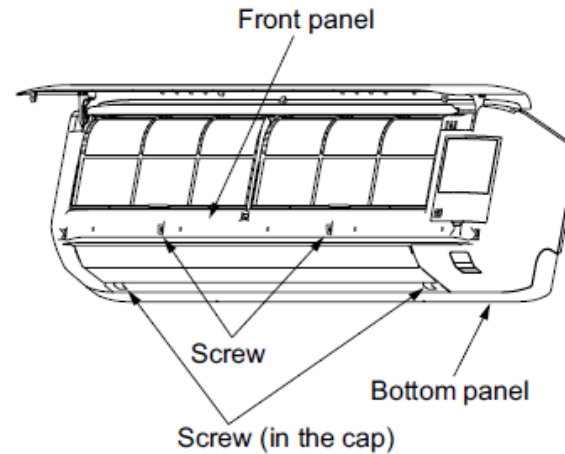
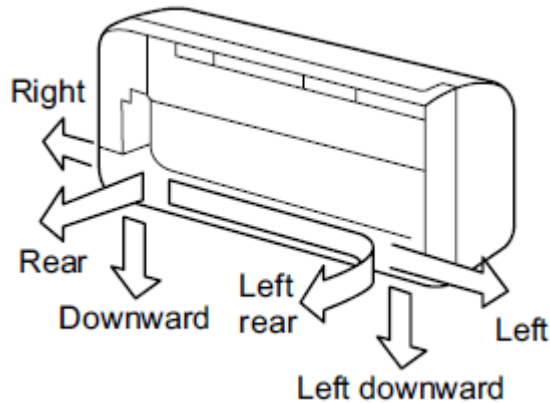


Indoor Outdoor	SRK20,25,35ZM-S	SRK50ZM-S	SRK20,25,35ZS-S	SRK50ZS-S
SRC20,25,35ZM-S	OK		No (*1)	
SRC50ZM-S		OK		No (*1)
SRC20,25,35ZS-S	No (*1)		OK	
SRC50ZS-S		No (*1)		OK
(SCM-Multi)				
SCM40,45,50ZM-S	OK	OK	No (*1)	No (*1)
SCM40,45,50ZS-S (New)	No (*1)	No (*1)	OK	OK
SCM60-125ZM-S	OK	OK	OK	OK

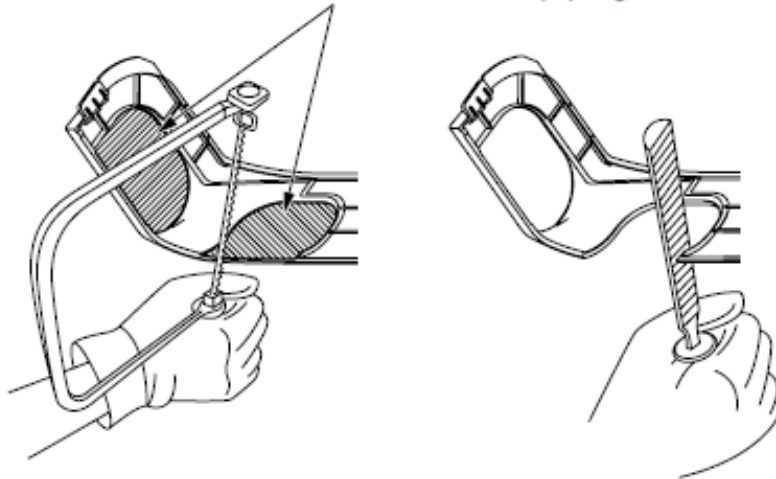
No (\*1)  
No technical data is available,  
MHI-J has not evaluated this combination  
Mismatch for actuator control (compressor, EEV) may happen



## Piping outlet



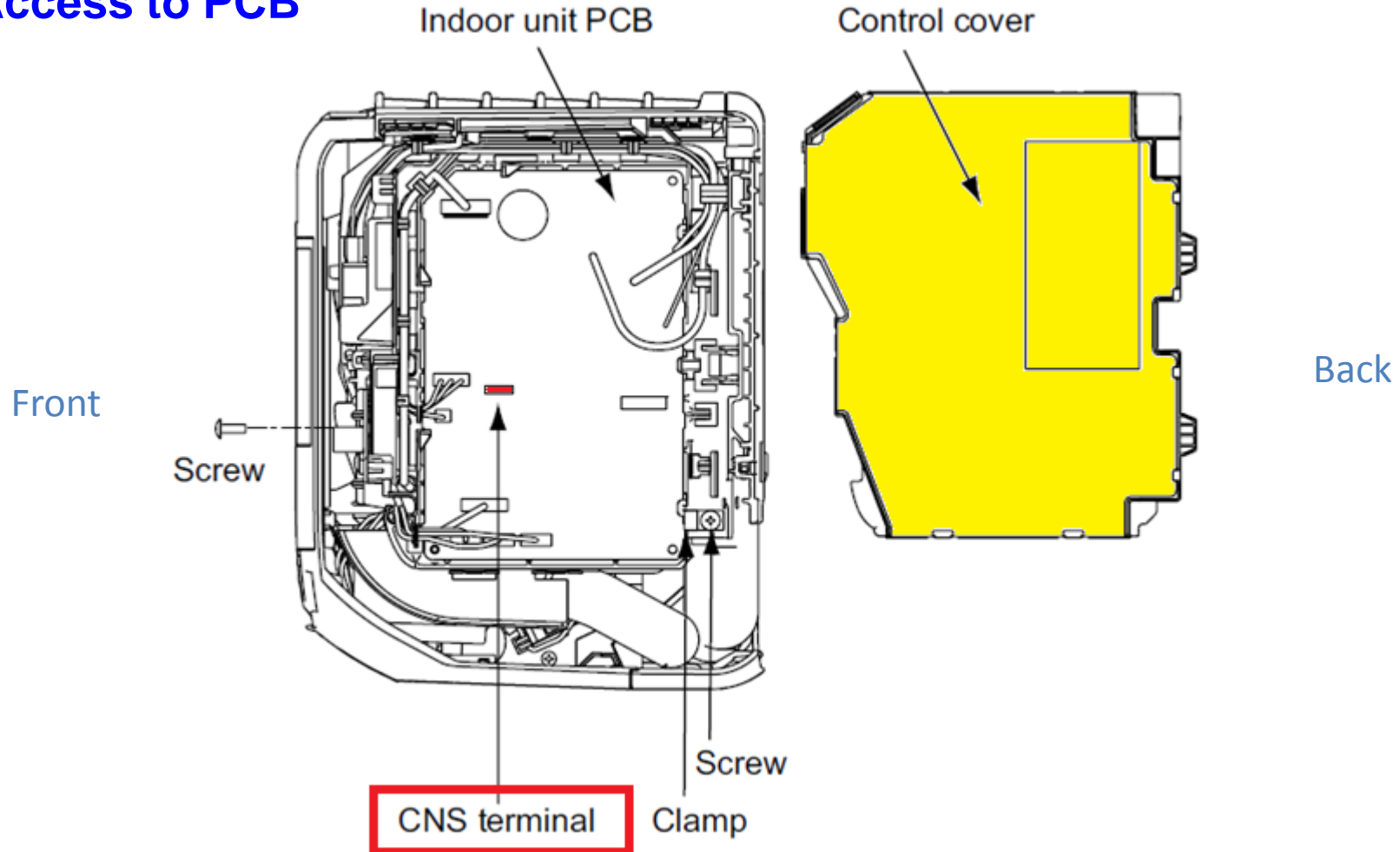
Cut out the panel smoothly along the line in case of side or bottom piping.



- Bottom panel can be removed
- Piping outlet needs to be cut



## Access to PCB



- CNS connector comes forward
- Control box side cover is to be removed



# Colour variation option



*Pure White*  
(Standard Model)



**CONTRAST**

(\*) Production by order



**TITANIUM**

(\*) Production by order



## Wi-Fi is available as an option



(\*) Subject to change

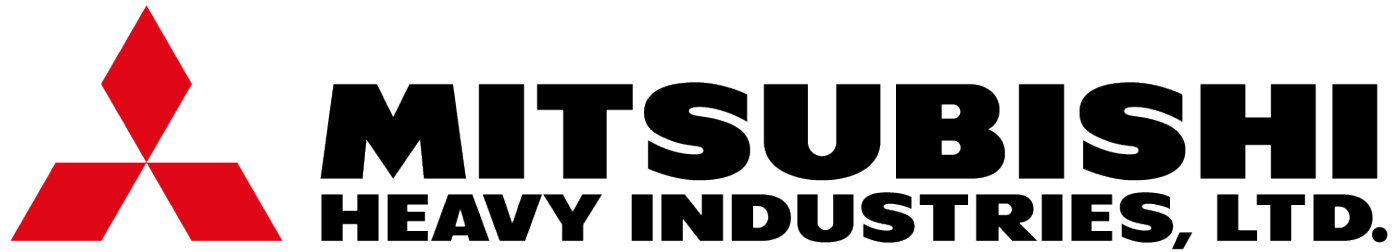
- Device can be installed inside unit
- Basic control and monitoring  
On/Off, Set temp, fan speed, louver control
- Multi language interface
- Error code description

**Available from Spring/2017**



Thank you





Our Technologies, Your Tomorrow

A thick red horizontal line with a slight upward curve at the right end, acting as a decorative underline for the text above it.