



IAPL GROUP PVT. LTD.

**R410A**  
ECO-FRIENDLY



TECHNOLOGY  
HO TOH

# HEAVY DUTY

**HYBRID<sup>+</sup>**  
CASSETTE | DUCTABLE | TOWER  
CATALOGUE 2019

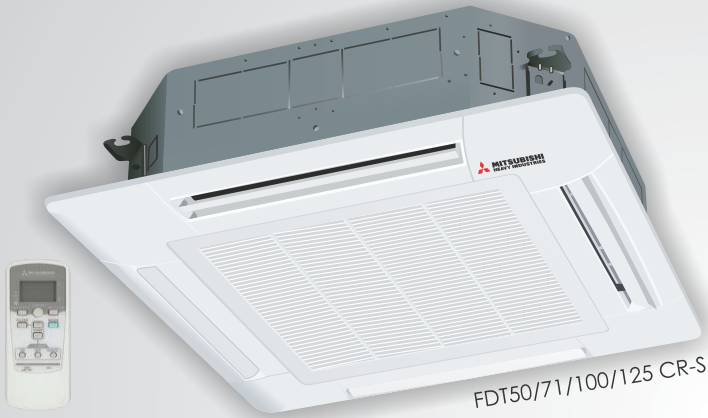
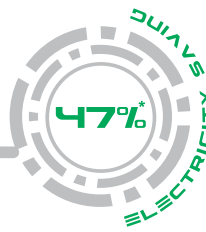


**mitsubishi**  
**HEAVY INDUSTRIES**

**AIR CONDITIONERS**

**HEAVY DUTY**

# ECO SMART HYBRID+ CASSETTE



## REMOTE CONTROL

### Wireless (Standard)



RCN-T-36W-E

### Wired (Optional)



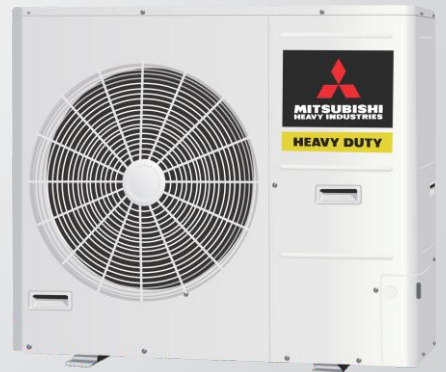
RC-E5



RCH-E3



RC-EX1A



### Point 1

## Arrangement of installation balance of indoor unit

Checking from access ports with detachable covers at each corner, arrangement of installation balance of indoor unit can be available without removing a panel. Workability is improved and time of installation is reduced.



### Point 2

## Installation Workability

For wireless control simply insert the infrared receiver kit on a corner of the panel

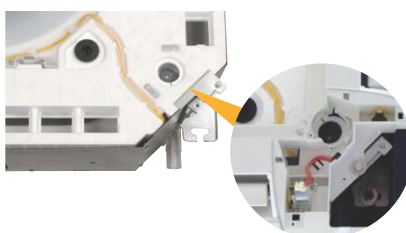


wireless remote control  
RCN-T-36W-E

### Point 3

## Easy checking of drain pan

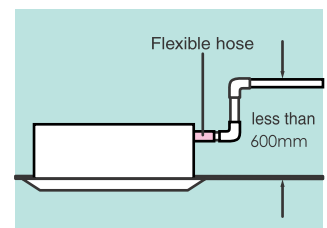
condition is available by removing corner lid only. Due to new design changing fan motor is available without removing a panel. Temporarily setting of drain pan is also available.



### Point 4

## 600mm Drain Pump

Drain can be discharged upwards by 600mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 260mm flexible hose as a standard equipment supports easy workability.

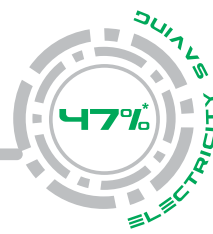


\* Cooling Capacity is derived Maximum during evening & night when the temperature are less than 35°C

\*\* Under Standard Installation & Lab Test Condition \*\*\* Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air- conditioned. Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice.

# ECO SMART HYBRID+ DUCTABLE

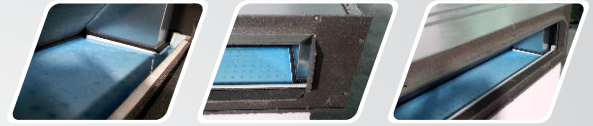
R410A  
ECO-FRIENDLY



FDUM50/71/100/125CR-S



## DRAIN TRAY WITH POLYURETHANES ETHOXYLINE RESIN COATING



ANTI WATER | ANTI FUNGAL | ANTI BACTERIAL | ANTI CHEMICAL

### REMOTE CONTROL

Wireless (Standard)



RCN-KIT3-E

Wired (Optional)



RC-E5

Wired (Optional)



RC-EX1A



RCH-E3



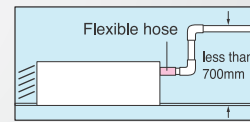
SILENT



EEV



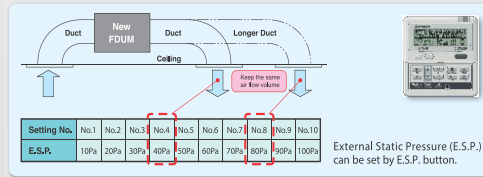
HIGHEST EFFICIENCY  
SCROLL COMPRESSOR



600MM DRAIN PUMP

### AUTOMATIC EXTERNAL STATIC PRESSURE (E.S.P.) CONTROL (OPTIONAL)- ONLY FOR DUCTABLE Model RC-E5 / RC-EX1A

Duct design was simplified. Using DC motor, the most optimum air flow volume can be achieved by this automatic control. Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.



External Static Pressure (E.S.P.) can be set by E.S.P. button.

### FILTER KIT (OPTIONAL)

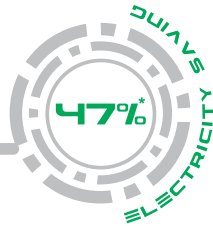


Anti - Bacterial Wire Mesh Filter -  
Optional - Chargeable Extra - Procure Locally

UM-FL1EF : for 50  
UM-FL2EF : for 71  
UM-FL3EF : for 100, 125  
external static pressure loss:5Pa

\*Only Model FDUM100 & 125 CR-S are Hybrid AC

# ECO SMART HYBRID+ TOWER



R410A  
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FD71CR-S / FDF125CR-S

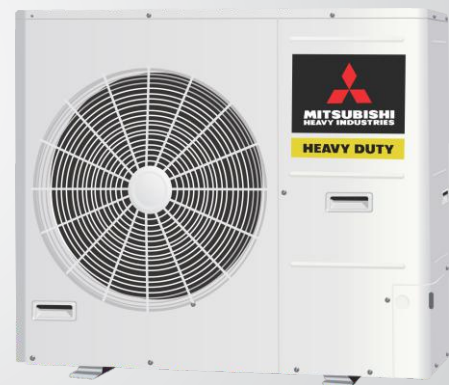


### AUTO HORIZONTAL SWING

Auto horizontal swing wakes wide and powerful air flow, increase your comfort, realizing high efficiency in combination with our highly advanced outdoor units.



FDC71CR-S



FDC125CR-S/A

\*only Model FDF125CR-S are Hybrid AC



SPECIFICATIONS		ECO SMART - CEILING CASSETTE - 4WAY (R410A)				ECO SMART- DUCT CONNECTED MEDIUM STATIC- FDUM SERIES (R410A)				ECO SMART - TOWER AC (R410A)		
Unit		FDT50CR-S	FDT71CR-S	FDT100CR-S	FDT125CR-S	FDUM50CR-S	FDUM71CR-S	FDUM100CR-S	FDUM125CR-S	FDF71CR-S	FDF125CR-S	
Model	Indoor Unit	FDT50CR-S	FDT71CR-S	FDT100CR-S	FDT125CR-S	FDUM50CR-S	FDUM71CR-S	FDUM100CR-S	FDUM125CR-S	FDF71CR-S	FDF125CR-S	
	Outdoor Unit	FDC50CR-S	FDC71CR-S	FDC100CR-S	FDC125CR-S	FDC50CR-S	FDC71CR-S	FDC100CR-S	FDC125CR-S	FDC71CR-S	<b>FDC125CR-S/A</b>	
Super Tropical - Return cooled Compressor		Rotary		Scroll		Rotary		Scroll		Rotary	Scroll	
Type of AC		Heavy Duty AC		Hybrid AC		Heavy Duty AC		Hybrid AC		Heavy Duty AC	Hybrid AC	
Power Source		1 Phase, 220 ~ 240 V, 50 Hz		3 Phase, 380 ~ 440 V, 50 Hz		1 Phase, 220 ~ 240 V, 50 Hz		3 Phase, 380 ~ 440 V, 50 Hz		1 Phase, 220 ~ 240 V, 50 Hz	3 Phase, 380 ~ 440 V, 50 Hz	
Maximum Cooling Capacity *	Ton	1.5	2.2	3.0	4.0	1.5	2.2	3.0	4.0	2.0	4.0	
	Watts	5363	7620	10550	14068	5460	7620	10550	14068	7620	14068	
	BTU/h	18300	26000	36000	48000	18630	26000	36000	48000	26000	48000	
Maximum EER / COP *	W/w	3.57	3.54	3.51	3.51	3.57	3.54	3.51	3.51	3.03	2.94	
	Ton	1.5	2.0	3.0	3.5	1.5	2.0	3.0	3.5	2.0	3.50	
Rated Cooling Capacity	Watts	5000	7108	10000	12500	5000	7108	10000	12500	7108	12500	
	BTU/h	17060	24255	34120	42650	17060	24255	34120	42650	24225	42650	
	Input Power ** (Minimum ~ Maximum)	watts	1300 ~ 1500	1900 ~ 2150	2700 ~ 3000	3700 ~ 4000	1300 ~ 1613	1900 ~ 2290	3000 ~ 3226	4000 ~ 4464	2300 ~ 2507	4000 ~ 4781
Rated EER / COP		W/w	3.33	3.30	3.33	3.12	3.10	3.10	3.10	2.80	2.83	2.61
Air Flow	Indoor Unit	CMH	1280	1680	2220	2500	600 (P-Hi=800)	1200 (P-Hi=1440)	1950 (P-Hi=2340)	2200 (P-Hi=2880)	2250	2700
Long Reach AirFlow Upto	Indoor Unit	Meter	3.65	4.57	5.18	5.18	2.43	3.65	6.09	6.09	9.14	12.19
Sound Level (H/M/L)	Indoor Unit	dB	36/ 30/ 28	38/ 32/ 30	45/ 37/ 34	46/ 40/ 37	37/ 32/ 29/ 26	38/ 33/ 29/ 25	44/ 38/ 36/ 30	45/ 40/ 34/ 29	40/ 34/ 32	49/ 43/ 40
Louver Swing	Indoor Unit		Yes (Individual Flap Control System Possible in Wired Controller)				Not Applicable				Yes (Vertical)	
Remote Control	Indoor Unit		<b>Standard - Wireless Remote Controller Included / Wired Controller Optional</b>				<b>Standard - Wireless Remote Controller Included / Wired Controller Optional</b>				<b>Controller Inbuilt on Indoor unit</b>	
Self Diagnosis Function	Indoor Unit		Yes				Yes				Yes	
Filter	Indoor Unit		Anti- Bacterial				<b>Anti- Bacterial Wire Mesh Filter - Optional - Chargeable Extra - Procure Locally</b>				Anti- Bacterial	
Fan	Indoor Unit		Super Turbo Fan				Centrifugal Blower				Super Turbo Fan	
DC Fan Motor Speed	Indoor Unit		Auto / High / Medium / Low / Dry				Auto / High / Medium / Low / Dry				Auto / High / Medium / Low / Dry	
E.S.P. (Pascal) #	Indoor Unit	Pa	Not Applicable				Standard = 35 Pa / Max = 100 Pa		Standard = 60 Pa / Max = 100 Pa		Not Applicable	
Dimension (H x W x D)	Indoor Unit	mm	Unit : 246 x 840 x 840 Panel : 35 x 950 x 950		Unit : 298 x 840 x 840 Panel : 35 x 950 x 950		280 x 750 x 635	280 x 950 x 635	280 x 1370 x 740		1850 x 600 x 320	1850 x 600 x 320
	Outdoor Unit	mm	640 x 850 (+65) x 290		845 x 970 x 370		640 x 850 (+65) x 290		845 x 970 x 370		640 x 850 (+65) x 290	845 x 970 x 370
Weight	Indoor Unit	Kgs	27.5 (Unit:22 Panel:5.5)	29.5 (Unit:24 Panel:5.5)	32.5 (Unit:27 Panel:5.5)	32.5 (Unit:27 Panel:5.5)	29	34	54	54	49	52
	Outdoor Unit	Kgs	40	47	78	87	40	47	78	87	47	87
Refrigerant			R410A				R410A				R410A	
Refrigerant Piping	Liquid/ Gas	mm	6.35 ( 1/4" ) / 15.88 ( 5/8" )		9.52 ( 3/8" ) / 15.88 ( 5/8" )		6.35 ( 1/4" ) / 15.88 ( 5/8" )		9.52 ( 3/8" ) / 15.88 ( 5/8" )		6.35 (1/4") / 15.88 (5/8")	9.52 (3/8") / 15.88 (5/8")
Maximum Piping Length		Mtrs	30 mtrs / 100 feet		50 mtrs / 164 feet		30 mtrs / 100 feet		50 mtrs / 164 feet		30 mtrs / 100 feet	50 mtrs / 164 feet
Vertical Height Difference		Mtrs	Outdoor - Higher =10 mtrs / Lower=10 mtrs		Outdoor - Higher =30 mtrs / Lower=15 mtrs		Outdoor - Higher =10 mtrs / Lower=10 mtrs		Outdoor - Higher =30 mtrs / Lower=15 mtrs		Outdoor - Higher = 10 mtrs / Lower = 10 mtrs	Outdoor - Higher= 30 mtrs / Lower = 15 mtrs
Main Power Supply to	Outdoor Unit		2.5 mm <sup>2</sup> x 3 cores ( including earthing )		4 mm <sup>2</sup> x 5 cores ( including earthing )		2.5 mm <sup>2</sup> x 3 cores ( including earthing )		4 mm <sup>2</sup> x 5 cores ( including earthing )		2.5 mm <sup>2</sup> x 3 cores ( including earthing )	4 mm <sup>2</sup> x 5 cores ( including earthing )
Connecting wiring	B/w IDU & ODU		1.5 mm <sup>2</sup> x 4 cores ( including earthing )				1.5 mm <sup>2</sup> x 4 cores ( including earthing )				1.5 mm <sup>2</sup> x 4 cores ( including earthing )	
Area Coverage ***		Sq.Meter	15.97 ~ 18.58	18.58 ~ 25.54	25.54 ~ 32.51	32.51 ~ 44.12	15.97 ~ 18.58	18.58 ~ 25.54	25.54 ~ 32.51	32.51 ~ 44.12	18.58 ~ 27.87	37.16 ~ 46.45

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# [E.S.P. = External Static Pressure can be changed using Wired Controller - Model RC-E5 / RC-EX1A]



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