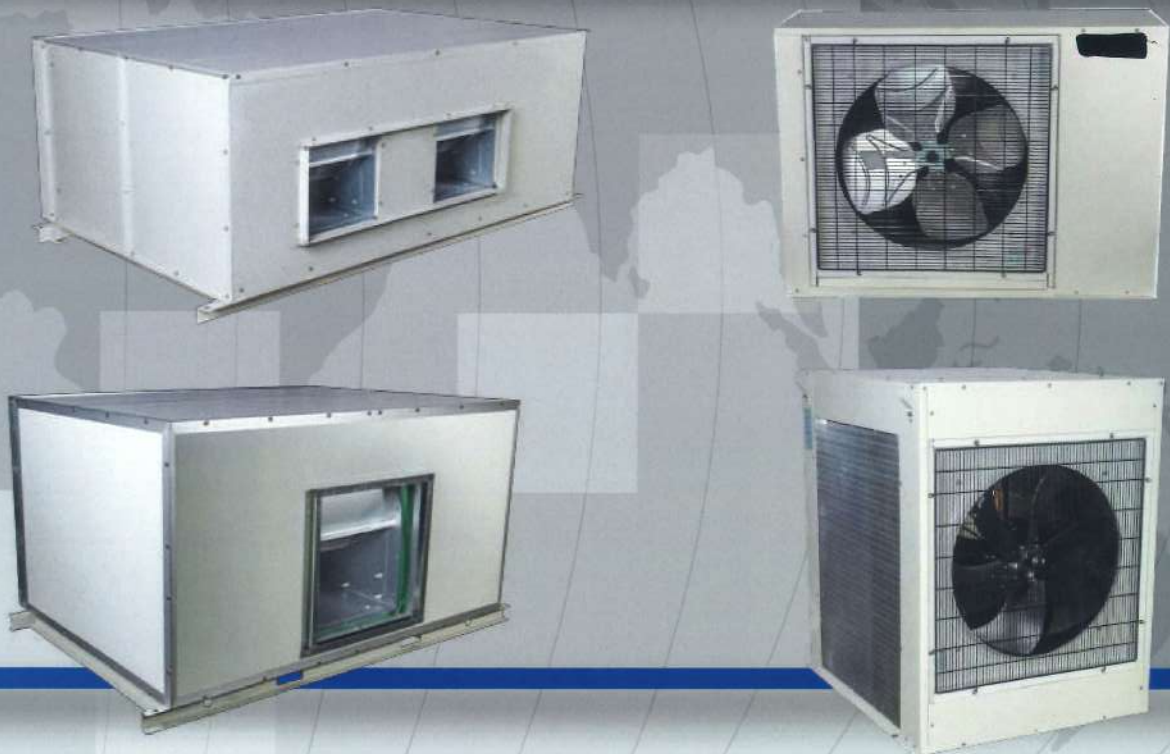




AIR-COOLED SPLIT DUCTED (R410A SERIES)

Models : FDU080-750 AC410F
FDC080-150 AC410F



Features

Wide Range of Product

Comprises various models with wide cooling capacity to cater for various needs in residential, commercial and industrial application.

Multi Circuit Design

Part load capability offers continuous comfort, greater savings and provides highly flexible solutions for physical constraints at site. It also prolongs lifespan of compressors and reduces big electrical surges.

Low Noise

The outdoor units are using scroll compressors that have been proven to have superior performance and quiet operation. Statically and dynamically balanced fan blowers mounted in acoustically and thermally insulated casings provide excellent and quiet operation. The indoor units for larger capacity and air flow requirement are built with double skin panels made of powder coated steel (outer) and galvanized steel (inner) injected with high pressure PU foam.

Flexible Air Thrown

Convertible discharge air direction at outdoor unit have make it versatile. (Applicable for size 100,125, and 150 only).

Intelligent Control (Optional)

All the features can be easily set and changed through microcomputer-controlled LCD or LED controller. It ensures comfortable cooling is delivered to the user with press of a button and hassle free.

Simple Installation

Compact and light weight design of the units enable easy installation and space saving.

Engineering Specifications

General Data - Air-Cooled Split Ducted R410A (50Hz)

Model		Indoor Unit	FDU	80	100	125	150	200	250	300
		Outdoor Unit	FDC	80	100	125	150	100x2	125x2	150x2
Total Cooling Capacity			kW	23.4	29.3	36.6	44.0	58.6	73.3	87.9
			Btu/h	80,000	100,000	125,000	150,000	200,000	250,000	300,000
Indoor Unit	Type		Single Skin					Double Skin		
	Dimension	Width	mm	1,431	1,731	1,872	1,872	2,248	2,241	2,152
		Length	mm	940	940	1,140	1,140	1,297	1,347	1,547
		Height	mm	441	441	700	700	780	1,155	1,175
	Weight		kg	99	126	208	209	266	322	377
	Fan	Air Volume	CMH	4,000	5,000	6,250	7,500	10,000	12,500	15,000
			CFM	2,354	2,943	3,679	4,415	5,886	7,358	8,829
		ESP	Pa	145	175	200	200	250	300	300
		Power Supply	V/Ph/Hz	220~240/1/50		380~415/3/50				
	Sound Pressure Level		dB(A)	64	65	65	65	66	66	67
Condensate Water Pipe Dimension		mm (in)	25.4 (1")							
Outdoor Unit	Compressor Type		Scroll Compressor							
	Condenser Type		Crossed Finned Cu Tube with Al Fin							
	Dimension	Width	mm	1,308	1,118	1,118	1,118	1,118x2	1,118x2	1,118x2
		Length	mm	508	1,012	1,012	1,012	1,012x2	1,012x2	1,012x2
		Height	mm	951	1,035	1,035	1,035	1,035	1,035	1,035
	Weight		kg	158	199	202	198	199x2	202x2	198x2
	Power Supply		V/Ph/Hz	380~415/3/50						
Total Input Power		kW	7.60	10.43	12.85	16.15	22.59	26.24	32.29	
Total Input Current		A	17.70	26.19	23.84	32.36	42.87	48.40	63.99	
Refrigerant	Refrigerant Charge	kg	5.20	7.00	7.90	9.70	7.30x2	7.70x2	9.25x2	
	Type		R410A							
	Pre-charge Gas		Nitrogen Holding Charge							
	Pipe Connection Type		Braze							
Connecting Pipe Dimension	Liquid Pipe	mm (in)	12.70	12.70	12.70	15.88	12.70x2	12.70x2	15.88x2	
			(1/2")	(1/2")	(1/2")	(5/8")	(1/2"x2)	(1/2"x2)	(5/8"x2)	
	Suction Pipe	mm (in)	22.20	25.40	28.58	34.92	25.40x2	28.58x2	34.92x2	
			(7/8")	(1")	(1 1/8")	(1 3/8")	(1"x2)	(1 1/8"x2)	(1 3/8"x2)	

Note:

1. Products are tested in accordance to ARI340/360.
2. Cooling capacity is based on 26.7 °C DB / 19.4 °C WB for indoor air, 35.0 °C DB / 23.9 °C WB ambient temperature.
3. Air volume is based on high fan speed.
4. Equivalent length of pipe used in performance test is 10m.
5. External static pressure data shown is for standard unit.
6. Products are not pre-charged with refrigerant upon leaving factory.
7. The noise level is measured in test-room condition. The actual noise level at site will differ due to environmental noise or other reasons.
8. The manufacturer reserves the rights to change the specifications without prior notice.

General Data - Air-Cooled Split Ducted R410A (50Hz)

Model		Indoor Unit	FDU	350		400	450	500	600	750
		Outdoor Unit	FDC	100	125x2	100x4	150x3	125x4	150x4	150x5
Total Cooling Capacity			kW	102.6		117.2	131.9	146.5	175.8	219.8
			Btu/h	350,000		400,000	450,000	500,000	600,000	750,000
Indoor Unit	Type		Double Skin							
	Dimension	Width	mm	2,081		2,432	2,787	2,782	2,782	2,782
		Length	mm	1,547		1,547	1,637	1,637	1,737	1,859
		Height	mm	1,450		1,450	1,450	1,450	1,650	2,006
	Weight		kg	380		584	644	644	852	879
	Fan	Air Volume	CMH	17,500		20,000	22,500	25,000	30,000	37,500
			CFM	10,500		11,772	13,244	14,715	17,658	22,073
		ESP	Pa	300		300	350	400	400	450
		Power Supply	V/Ph/Hz	380~415/3/50						
	Sound Pressure Level		dB(A)	67		68	68	68	70	70
Condensate Water Pipe Dimension		mm (in)	25.4 (1")							
Outdoor Unit	Compressor Type		Scroll Compressor							
	Condenser Type		Crossed Finned Cu Tube with Al Fin							
	Dimension	Width	mm	1,118x3		1,118x4	1,118x3	1,118x4	1,118x4	1,118x5
		Length	mm	1,012x3		1,012x4	1,012x3	1,012x4	1,012x4	1,012x5
		Height	mm	1,035		1,035	1,035	1,035	1,035	1,035
	Weight		kg	199	202x2	199x4	198x3	202x4	198x4	198x5
	Power Supply		V/Ph/Hz	380~415/3/50						
Total Input Power		kW	37.96		45.35	49.28	54.06	66.55	83.31	
Total Input Current		A	67.99		86.82	96.12	99.45	128.65	164.50	
Refrigerant	Refrigerant Charge	kg	7.00	7.70x2	7.30x4	9.25x3	7.70x4	9.25x4	9.25x5	
	Type		R410A							
	Pre-charge Gas		Nitrogen Holding Charge							
	Pipe Connection Type		Brazed							
Connecting Pipe Dimension	Liquid Pipe	mm (in)	12.70x3		12.70x4	15.88x3	12.70x4	15.88x4	15.88x5	
			(1/2"x3)		(1/2"x4)	(5/8"x3)	(1/2"x4)	(5/8"x4)	(5/8"x5)	
	Suction Pipe	mm (in)	25.40	28.58x2	25.40x4	34.92x3	28.58x4	34.92x4	34.92x5	
			(1")	(1 1/8"x2)	(1"x4)	(1 3/8"x3)	(1 1/8"x4)	(1 3/8"x4)	(1 3/8"x5)	

Note:

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Electrical Data - Air Cooled Split Ducted R410A (50Hz)

VOLT	ITEM		FDU/ FDC080	FDU/ FDC100	FDU/ FDC125	FDU/ FDC150	FDU/ FDC200
415V	TOTAL POWER INPUT	kW	7.60	10.43	12.85	16.15	22.59
	TOTAL RUN CURRENT	A	17.70	26.19	23.84	32.36	42.87
	POWER FACTOR	%	60	55	75	69	73
	COMPRESSOR POWER INPUT	kW	6.44	8.80	10.45	12.80	17.60
	RUN CURRENT	A	11.90	16.80	18.80	25.30	33.60
	Outdoor FAN POWER INPUT	kW	0.72	0.99	0.99	1.45	1.98
	RUN CURRENT	A	1.60	1.80	1.80	2.60	3.60
	Indoor FAN POWER INPUT	kW	0.44	0.64	1.41	1.90	3.01
	RUN CURRENT	A	4.20	7.59	3.24	4.46	5.67
	Indoor FAN POWER OUTPUT	kW	0.375	0.55	1.50	2.20	3.00
	MOTOR POLE		4	4	4	4	4

VOLT	ITEM		FDU/ FDC250	FDU/ FDC300	FDU/ FDC350	FDU/ FDC400	FDU/ FDC450
415V	TOTAL POWER INPUT	kW	26.24	32.29	37.96	45.35	49.28
	TOTAL RUN CURRENT	A	48.40	63.99	67.99	86.82	96.12
	POWER FACTOR	%	75	70	78	73	71
	COMPRESSOR POWER INPUT	kW	20.90	25.60	29.70	35.20	38.40
	RUN CURRENT	A	37.60	50.60	54.40	67.20	75.90
	Outdoor FAN POWER INPUT	kW	1.98	2.90	2.97	3.96	4.35
	RUN CURRENT	A	3.60	5.20	5.40	7.20	7.80
	Indoor FAN POWER INPUT	kW	3.36	3.79	5.29	6.19	6.53
	RUN CURRENT	A	7.20	8.19	8.19	12.42	12.42
	Indoor FAN POWER OUTPUT	kW	4.00	5.50	5.50	7.50	7.50
	MOTOR POLE		4	4	4	4	4

VOLT	ITEM		FDU/ FDC500	FDU/ FDC600	FDU/ FDC750
415V	TOTAL POWER INPUT	kW	54.06	66.55	83.31
	TOTAL RUN CURRENT	A	99.45	128.65	164.50
	POWER FACTOR	%	76	72	70
	COMPRESSOR POWER INPUT	kW	41.80	51.20	64.00
	RUN CURRENT	A	75.20	101.20	126.50
	Outdoor FAN POWER INPUT	kW	3.96	5.80	7.25
	RUN CURRENT	A	7.20	10.40	13.00
	Indoor FAN POWER INPUT	kW	8.30	9.55	12.06
	RUN CURRENT	A	17.05	17.05	25.00
	Indoor FAN POWER OUTPUT	kW	11.00	11.00	15.00
	MOTOR POLE		4	4	4

