

<u>Subject :</u> QCO Complied PA – High Static Pressure Duct (Cooling only) with R-22 and R-410A Refrigerant

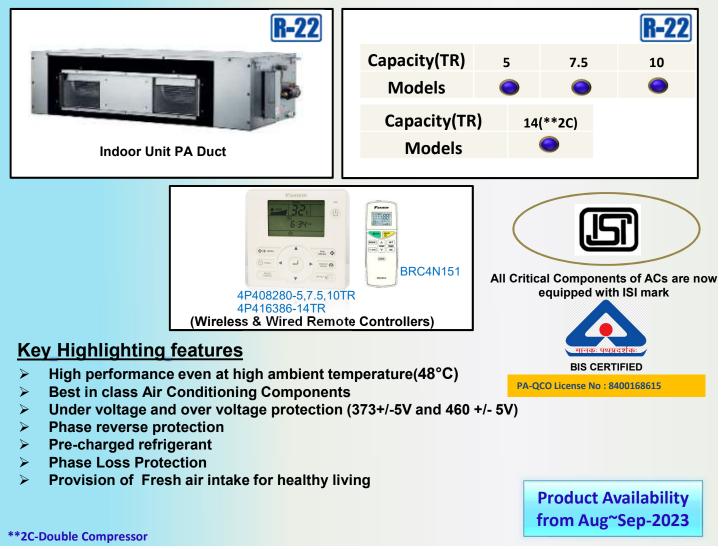
Applicable Model: 5TR~14 TR FD-GRV Series (Refer below Table)

Objective:

Introduction of QCO Complied Series of PA –High Static Pressure Duct (Cooling only) with R-22 Refrigerant.

Benefits: Improvement in Product Specifications & Components specifications.

QCO Complied High Static Pressure Duct (Cooling only) with R-22 Refrigerant



Advantage of High Performance Components

Components Name	Image	Benefits				
Compressor		Energy Efficient Scroll Compressor can work up to 65 deg C condensing temperature. Smooth and quiet operation .				
ODU FAN		Aerodynamic design propeller fan which Improves air flow distribution thus increasing heat transfer rate in condenser				
Motor		gh performance motors provided with overload protector motor safety.				
HP/LP Switch		High & Low pressure protection switches.				
Heat Exchanger		7mm tubes cover more area as compared to 3/8" HE, thus increasing heat transfer area which increases cooling capacity during high ambient & Performance .				
Heat Exchanger		Blue Fin Condenser and Hydrophilic special coating on the fin of the heat exchanger prevents corrosion , extending the life of the unit.				
TEV	F	TEVs are precise and function well at wide range of ambient temperatures (19~35 deg C)				
		Function: Protect the refrigerant system from liquid and solid contaminants.				
Drier		Good Quality of drier ensures High moisture absorption				
Stop Service Valve		Function: Stop valve is used to connect indoor and outdoor units .				
		Good Quality of stop Valve ensures high Reliability				
Metallic PCB Box		Metallic PCB Box ensures safety from Fires				
Remote (Wired/		Elegant Look Wide LCD screen				
Wireless)		Error code display				
		Filter cleaning reminder				

Model Number & Capacity Comparison:-

Existing Series PA R-22 Duct					QCO Complied R-22 Duct					
Model Number-IDU	IDU Mfg. Base	Model Number-ODU	ODU Mfg. Base	TR	Model Number- IDU	IDU Mfg. Base	Model Number- ODU	ODU Mfg. Base	TR	
FD65DSV16	-	R65DSY16	-	5.5	FD60GRV16		R60GRY16		5.0	
FD100DSV16	DAIPL	R100DSY16	DAIPL	8.5	FD90GRV16	DAIPL	R90GRY16	DAIPL	7.5	
FD130DSV16	DAILE	R130DSY16		11	FD120GRV16		R120GRY16		10	
FD200DSY16		R100DSY16x2		16.7	FD180GRY16		R90GRY16x2		14	

Technical Specifications: QCO Complied PA – High Static Pressure Duct (Cooling only)

HIGH STATIC DUCT TYPE COOLING ONLY (R-22)									
			PA Duct R-22(With QCO)						
			5 TR	7.5 TR	10TR	14TR			
Model	Indoor unit		FD60GRV16	FD90GRV16	FD120GRV16	FD180GRY16			
Name	Outdoor unit	R60GRY16	R90GRY16	R120GRY16	R90GRY16X2				
Power supply (V,	/Ph/Hz)	415/3/50	415/3/50	415/3/50	415/3/50				
Nominal Cooling	Capacity	60000	90000	120000	167979				
Nominal Cooling	Capacity	kW	17.6	26.38	35.17	49.23			
Power Input		Watt	6450	9500	13000	19510			
СОР		w/w	2.73	2.78	2.71	2.52			
Running Current		Α	11	17	18	34			
Refrigerant			R-22	R-22	R-22	R-22			
		CFM-H	2000	3000	4000	6000			
	Airflow rate (H/M/L)	CFM-M	1800	2700	3600	5400			
		CFM-L	1620	2430	3240	4860			
	High (Static Pressure)	Ра	50	50	60	80			
Indoor Unit	Sound Pressure level (H)	dBA	53	53	57	59			
	Dimensions IDU (HxWxD)	mm	450x1170x700	450x1560x700	470x1700x940	590x1845x1145			
	Packing Dimensions IDU (HxWxD)	mm	465x1370x720	585x1780x740	620x1930x990	760x2130x1250			
	Machine weight	kg	60	90	125	175			
	Condensate Drain Size	40.5							
Outdoor Unit	Dimensions (HxWxD)	mm	930x1025x410	930x1200x550	930x1650x620	930x1200x550			
	Packing Dimensions (HxWxD)	mm	1080x1170x470	1080x1350x620	1088x1846x720	1080x1350x620			
	Machine weight kg		92	139	160	139			
Piping connections	Туре	Liquid flared & Gas Brazed							
	Liquid (Flare)	mm	12.7	12.7	15.9	12.7			
	Gas (Braze)	mm	22.2	28.58	34.92	28.58			
	Refrigerant Pre Charge (at 7.5m Pipe Length)	mm	4.0	6	9.1	6.0(x2)			

NOTE : FD180GRY16 comes with 2 Nos. of R90GRY16, where standard gas charge is 6.0kg/unit. Extra 0.7Kg should be charged for standard pipe length in each unit during installation in field. It is here by inform you all that we had already released this information Via Tech News DAIPL-TS-A64 about QCO Complied PA Duct with R-410 Refrigerant in the Month of June 2020, and this product is available in the market w.e.f August 2020.

Subject : PA – High Static Pressure Duct (Cooling only) with R-410A Refrigerant

Applicable Model: 5.5 TR~16.5 TR FDR-FRV Series (Refer below Table)

Objective:

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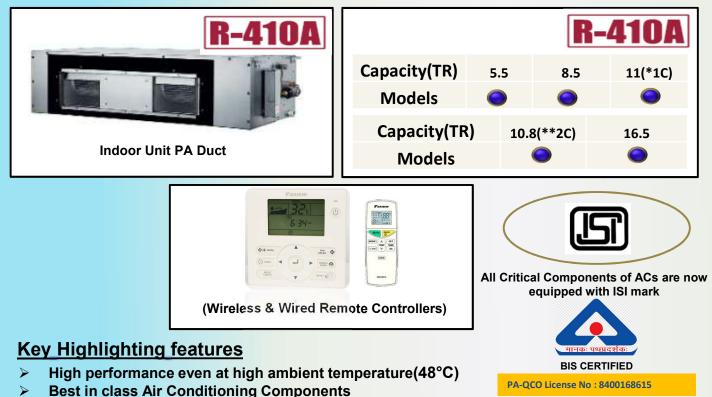
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Introduction of New series of PA – High Static Pressure Duct (Cooling only) with R-410A Refrigerant.

Benefits: Improvement in Product Specifications & Components specifications.

PA –High Static Pressure Duct (Cooling only) with R-410A Refrigerant



*1C-with Single Compressor, **2C-Double Compressor

Phase reverse protection

Phase imbalance voltage

Pre-charged refrigerant

Phase Loss Protection

Under voltage and over voltage protection

Provision of Fresh air intake for healthy living

QCO Complied Model details with Capacity in TR

Below given models are available in absolute Capacity as given in Table .

QCO Complied PA R-410A Duct							
Model Number-IDU	IDU Mfg. Base	Model Number-ODU	ODU Mfg. Base	TR			
FDR65FRV16		RR65FRY16	_	5.5			
FDR100FRV16	DAIPL	RR100FRY16	_	8.5			
FDR130FRV16		RR130FRY16	DAIPL	11			
FDR130FRV162		RR65FRY16X2	_	10.8			
FDR200FRY16		RR100FRY16X2		16.5			

Technical Specifications: PA – High Static Pressure Duct (Cooling only)

					5.5 TR	8.5TR	11.0 TR	10.8 TR	16.5 TR		
Model		Indoor Unit			FDR65FRV16	FDR100FRV1	6 FDR130FRV1	6 FDR130FRV162	FDR200FRY16		
		Outdoor Unit			RR65FRY16	RR100FRY16	5 RR130FRY1	6 RR65FRY16(2N O)	RR100FRY16(2 NO)		
Nominal Cooling Capacity			Btu/Hr	66000	102000	132000	129600	198000			
			KW	19.3	29.9	38.7	380	58.0			
Nominal Total Input Power (Cooling)					6400	11000	14600	13000	21600		
Runnin	g Current			А	11	19	23	22	38		
Power Source					415/3/50						
Refrige	rant Type				R-410A						
Control Operation				Wired Control							
		High		cfm	2200	3400	4400	4400	6600		
		Medium		cfm	2045	3100	3850	3850	5800		
		Low		cfm	1890	2800	3330	3330	5000		
LIN		High		Ра	50	50	60	60	80		
INDOOR UNIT	Sound Pressure Level (H)			dBA	51	52	54	54	59		
DDNI	Unit Dimension		Height x Width x Depth	mm	450 x 1170 x 700	450 x 1660 x 700	470 x 1700 x 940	470 x 1700 x 940	590 x 1885 x 1145		
	Packing Dimension		Height x Width x Depth	mm	465 x 1370 x 720	585 x 1880 x 740	620 x1930 x 990	620 x 1930 x 990	755 x2130 x 1250		
	Unit Weight			kg	60	95	125	130	175		
	Condensate Drain Size			mm		40.5					
	Unit Dimension		Height x Width x Depth	mm	930 x 1025 x 41	L0 930 x1200 550	x 930 x 1650 620	x 930 x 1025 x 410	930 x 1200 x 550		
	Packing Dimension		Height x Width x Depth	mm	1080 x 1170 x 4	70 1080 x 135 x 620	0 1088 x 184 x 720	6 1080 x 1170 x 470	1080 x 1350 x 620		
	Unit Weight			kg	96	147	173	96	147		
OUTDOOR		Туре			Liquid (Flared) & Gas (Brazed)						
	Pipe Connection	Size	Liquid	mm	12.7	12.7	15.9	12.7	12.7		
			Gas	mm	22.2	28.6	28.6	22.2	28.6		
	Refrigerant Pre-Charged (At 7.5m Pipe Length)			kg	4.4	5.7	8	2 X 4.4	2 X 5.9*		

NOTE : FDR200FRY16 comes with 2 Nos. of RR100FRY16, where standard gas charge is 5.7kg/unit. Extra 0.2Kg should be charged for standard pipe length in each unit during installation in field.