

(5) Duct connected - Low / Middle static pressure type (FDUM)

(a) Single type

Model			FDUM100VNVF1	
Item			Indoor unit FDUM100VF1	Outdoor unit FDC100VN
Power source			1 Phase 220-240V 50Hz / 220V 60Hz	
Operation data	Nominal cooling capacity (range)	kW	10.0 [4.0(Min.) ~ 11.2(Max.)]	
	Nominal heating capacity (range)	kW	11.2 [4.0(Min.) ~ 12.5(Max.)]	
	Power consumption	kW	2.80	
	Cooling		3.02	
	Max power consumption		4.23	
	Running current	A	12.6 / 13.2	
	Cooling		13.5 / 14.1	
	Inrush current, max current		5, 24	
	Power factor	%	97 / 96	
	Cooling		97	
	EER		3.57	
	COP		3.71	
	Sound power level	dB(A)	65	70
	Sound pressure level		P-Hi : 44 Hi : 38 Me : 36 Lo : 30	49
	Silent mode sound pressure level		—	—
Exterior dimensions (Height × Width × Depth)		mm	280 × 1370 × 740	845×970×370
Exterior appearance (Munsell color)			—	Stucco White (4.2Y7.5/1.1)near equivalent
Net weight		kg	54	81
Compressor type & Q'ty			—	RMT5126MDE2×1
Compressor motor (Starting method)		kW	—	Direct line start
Refrigerant oil (Amount, type)		ℓ	—	0.9 M-MA68
Refrigerant (Type, amount, pre-charge length)		kg	R410A 3.8kg in outdoor unit (incl. the amount for the piping of : 30m)	
Heat exchanger			Louver fin & inner grooved tubing	Straight fin & inner grooved tubing
Refrigerant control			Electronic expansion valve	
Fan type & Q'ty			Centrifugal fan ×3	Propeller fan ×1
Fan motor (Starting method)		W	100 + 130 < Direct line start >	86 < Direct line start >
Air flow	Cooling	m³/min	P-Hi : 36 Hi : 28 Me : 25 Lo : 19	75
	Heating			73
Available external static pressure		Pa	Standard : 60 Max : 100	—
Outside air intake			Possible	—
Air filter, Quality / Quantity			Procure locally	—
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for compressor)
Electric heater		W	—	20 (Crank case heater)
Operation control	Remote control		(option) wired : RC-EX1A, RC-E5, RCH-E3 wireless : RCN-KIT3-E	
	Room temperature control		Thermostat by electronics	
	Operation display		—	
Safety equipments			Overload protection for fan motor. Frost protection thermostat. Internal thermostat for fan motor. Abnormal discharge temperature protection.	
Installation data	Refrigerant piping size (O.D.)	mm	Liquid line: I/U φ 9.52 (3/8") Pipe φ 9.52(3/8")×0.8 O/U φ 9.52 (3/8") Gas line: φ 15.88 (5/8") φ 15.88(5/8")×1.0 φ 15.88 (5/8")	
	Connecting method		Flare piping	Flare piping
	Attached length of piping	m	—	—
	Insulation for piping		Necessary (both Liquid & Gas lines)	
	Refrigerant line (one way) length	m	Max.50m	
	Vertical height diff. between O.U. and I.U.	m	Max.30m (Outdoor unit is higher)	Max.15m (Outdoor unit is lower)
	Drain hose		Hose connectable with VP25 (O.D.32)	Holes size φ20 × 3pcs
Drain pump, max lift height		mm	Built-in Drain pump, 600	—
Recommended breaker size		A	—	
L.R.A. (Locked rotor ampere)		A	5.0	
Interconnecting wires Size x Core number			φ 1.6mm×3 cores (including earth cable) / Terminal block (Screw fixing type)	
IP number			IPX0	IP24
Standard accessories			Mounting kit, Drain hose	Edging
Option parts			UM-FL3EF	

Note (1) The data are measured at the following conditions.

The pipe length is 7.5m.

Item	Indoor air temperature		Outdoor air temperature		External static pressure of indoor unit	Standards
	DB	WB	DB	WB		
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	—	7°C	6°C		

(2) This air-conditioner is manufactured and tested in conformity with the ISO.

(3) Sound level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient conditions.

(4) Select the breaker size according to the own national standard.

(5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.

(6) The operation data indicate when the air-conditioner is operated at 230V50Hz or 220V60Hz.

(7) Static pressure of optional air filter "UM-FL3EF" is 5Pa initially.

(8) The external static pressure setting can be changed to 10-100Pa. (For RC-EX1A and RC-E5 only)