

VNEF Series

MINI VRF SYSTEM 50Hz

Cooling Capacity Min-Max: 20,563-58,800 Btuh (6.0 - 17.2 kW)
3D Inverter Heat Pump - R410A Refrigerant

MINI VRF Outdoor Unit				
MODEL NO.	VNEF	004Q 0A-R07V120	004Q 0A-R08V140	005Q 0A-R09V160
System Cooling with Indoor Unit Ratio @ 100% Btuh (kW)		41,125 (12.0)	47,815 (14.0)	54,645 (16.0)
System Heating with Indoor Unit Ratio @ 100% Btuh (kW)		47,815 (14.0)	56,350 (16.5)	63,180 (18.5)
EER @ 100% IDU	Btuh/W (W/W)	13.5 (3.97)	12.1 (3.54)	11.3 (3.30)
COP	(W/W)	4.28	4.14	3.96
System Cooling with Indoor Unit Ratio @ 50% Btuh (kW)		20,563 (6.0)	23,908 (7.0)	27,323 (8.0)
System Cooling with Indoor Unit Ratio @ 70% Btuh (kW)		27,790 (8.1)	33,470 (9.8)	38,250 (11.2)
System Cooling with Indoor Unit Ratio @ 130% Btuh (kW)		44,250 (12.9)	51,450 (15.1)	58,800 (17.2)
Maximum of Indoor Unit Connectable per Module		7	8	9
Coil Type		Grooved Cooper Tubes - Aluminum Blue Slit Fin		
Fan	Type	Axial Fan		
	Qty	2	2	2
	Motor (FLA)	0.5	0.5	0.5
	R.P.M. Range (Min~Max)	100 ~ 780	100 ~ 820	100 ~ 880
	Air Flow CFM (m ³ /hr) (Hi)	3530 (6000)	3710 (6300)	3885 (6600)
	Noise Level Hi (dba)	55	56	58
Electrical	Voltage-Phase	208/240-1		
	Frequency	N/A -3D		
	Rated Input / Cooling (kW)	3.05	3.98	4.85
	Rated Input / Heating (kW)	3.27	3.99	4.67
	Rated Current / Cooling (A)	15.0	19.2	23.4
	Rated Current / Heating (A)	15.8	19.3	23.0
	Crankcase Heater (W)	40	40	40
	Rated Load Amps (RLA)	21	21	21
	Compressor Power Input (W)	4580	4580	4580
	Minimum Circuit Amps (MCA)	28.1	31.8	33.6
Maximum Fuse Amps (MOCP)	45	45	45	
Refrigerant Charge R410A (oz / kgs)		176.4 / 5	176.4 / 5	176.4 / 5
Refrigerant Connections inches (mm)	Type	Flare		
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	5/8 (15.9)	5/8 (15.9)	3/4 (19.05)
Farthest Indoor Pipe Length ft (m)		395 (120)		
Maximum Total Pipe Length ft (m)		985 (300)		
Height Difference between IDU & ODU ft (m)		165 (50) & 130 (40) see note (5*)		
Dimensions inches (mm)	Height	52 7/8 (1345)	52 7/8 (1345)	52 7/8 (1345)
	Width	35 3/8 (900)	35 3/8 (900)	35 3/8 (900)
	Depth	13 3/4 (340)	13 3/4 (340)	13 3/4 (340)
Net Weight Lbs (kgs)		242.5 (110)	242.5 (110)	242.5 (110)