

# PIONEER®

*Air Conditioning & Heat Pump Systems*

The "right choice" for those who want the "Best"....

## YN-M16

### 15.6~17.0 SEER SPECIFICATIONS

#### High Efficiency MULTI ZONE Heat Pump Multi Split System Outdoor Units

Nominal 18,000 27,000 30,000 36,000 and 48,000 BTU/Hr.

#### AVAILABLE MATCHING INDOOR UNITS (Sold Separately):

- a. WB Series Ductless Wall Mount (09, 12, 18 Models)
- b. CB Series Ductless Ceiling Cassette (12, 18 Models)
- c. RB Series Ducted Ceiling Concealed (12, 18 Models)
- d. UB Series Ductless Floor-Ceiling Mount (12, 18 Models)
- e. FB Series Ductless Floor Console (12 Model)

#### OPTIONAL ACCESSORIES:

- PIPING AND WIRING KIT
- CONDENSER STAND KIT
- LINE COVER KIT

#### AVAILABLE VOLTAGES:

- G : 208~230/1/60 (All)

#### AVAILABLE REFRIGERANTS:

- F : R410A



**16 SEER FAMILY**  
High Efficiency  
DC INVERTERS



2 Circuit

**Mod. 018 (Dual). Nominal 18000 BTU/h.**  
Cooling Range: 7100~19400 BTU/h  
Heating Range: 7200~22500 BTU/h)



4 Circuit

**Mod. 036 (Quad). Nominal 36000 BTU/h.**  
Cooling Range: 17540~53200 BTU/h  
Heating Range: 16540~54100 BTU/h)



3 Circuit

**Mod. 027 (Triple). Nominal 25600 BTU/h.**  
Cooling Range: 10900~27900 BTU/h  
Heating Range: 10400~30400 BTU/h)



3 Circuit

**Mod. 030 (Triple). Nominal 30000 BTU/h.**  
Cooling Range: 15500~43400 BTU/h  
Heating Range: 14500~47100 BTU/h)



5 Circuit

**Mod. 048 (Quint). Nominal 48000 BTU/h.**  
Cooling Range: 22800~62400 BTU/h  
Heating Range: 21900~63300 BTU/h)

#### STANDARD FEATURES

- FULLY DIGITAL DC INVERTER VARIABLE SPEED COMPRESSOR
- HIGH PARTIAL AND FULL LOAD EFFICIENCY RATINGS
- REVERSE CYCLE / HEAT PUMP APPLICATION
- MODULATING ELECTRONIC EXPANSION VALVES
- AVAILABLE FOR TWO, THREE, FOUR, FIVE ZONE APPLICATIONS
- MATCHES WITH VARIETY OF DUCTLESS/DUCTED INDOOR UNITS
- INDEPENDENT REFRIGERANT CONNECTIONS FOR EACH ZONE
- PARTIAL UTILIZATION OF ONLY SOME OF THE ZONES POSSIBLE
- INDOOR UNITS AVAILABLE IN 9,000 / 12,000 AND 18,000 BTU/h.
- FULL DIAGNOSTIC TOOLS ON STATUS AND FAULTS
- SINGLE POWER ENTRY TO ENTIRE SYSTEM ON OUTDOOR UNIT
- DIGITAL COMMUNICATIONS VIA SINGLE WIRE LEAD
- 4 LEAD WIRE CONNECTION BETWEEN THE UNITS.
- SEASON SENSITIVE OPERATIONAL LOGIC
- SELF LEARNING TIME-DEMAND DEFROST LOGIC
- VARIABLE SPEED FAN MOTOR
- FULL OPERATIONAL CHARGE OF REFRIGERANT R410a
- DIGITAL MOTOR SPEED CONTROL SYSTEM
- WHISPER QUIET MOTOR WITH BALL BEARINGS
- HIGH AIR FLOW VOLUME FOR QUICK PERFORMANCE
- ULTRA HIGH EFFICIENCY GROOVED COPPER TUBES
- ENHANCED LOUVERED HYDROPHILIC ALUMINUM FINS
- SUPERIOR EFFICIENCY RATING UNDER VARIETY OF CONDITIONS
- DYNAMICALLY BALANCED ULTRA QUIET SKEWED FAN
- FAMOUS JAPANESE BRAND COMPRESSORS
- INTERNAL NOISE AND VIBRATION ISOLATION
- HIGH OUTPUT & QUIET VARIABLE SPEED COMPRESSORS
- VERY LOW STARTING CURRENT
- LARGE CAPACITY SUCTION ACCUMULATORS
- ULTRA GALVANIZED SHEET METAL PARTS
- HEAVY COAT OF BAKED ENAMEL PAINT FOR THE OUTDOOR UNIT
- STANDARDIZED CABINET IN 3 DIFFERENT SIZES
- EXTRA DURABLE, PERMANENTLY LUBRICATED OUTDOOR MOTOR
- INTERNAL OVERLOAD PROTECTION FOR MOTORS
- FLARE TYPE REFRIGERANT CONNECTIONS
- HEAVY GAUGE MOUNTING LEGS
- EASY ACCESS TO ALL COMPONENTS
- PIPING AND WIRING THROUGH BOTTOM, SIDES OR REAR OF UNIT
- HIGHEST GRADE COMPONENTS FOR LONG LIFE EXPECTANCY
- AMPLE AVAILABILITY OF SPARE PARTS AND ACCESSORIES

PIONEER®  
*Air Conditioning & Heat Pump Systems*

YN-M16 Series Product Line Up

PARKER DAVIS HVAC SYSTEMS, INC.

2260 NW 102nd. Place, Doral, Florida 33172 - U.S.A.

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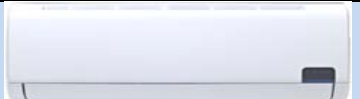




Web Site: [www.pd-hvac.com](http://www.pd-hvac.com) - email: [info@pd-hvac.com](mailto:info@pd-hvac.com)

Model			YN018GMFI16M2D (Code:220057000700)	YN027GMFI16M3D (Code:220057100510)	YN030GMFI16M3D (Code:220057100580)	YN036GMFI16M4D (Code:220057100530)	YN048GMFI16M5D (Code:220057100730)	
Power supply		Ph-V-Hz	208-230V~60Hz, 1Ph	230V~ 60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	
Number of Circuits Available			2	3	3	4	5	
Cooling	Nominal Capacity	Btu/h	18000	25600	30000	36000	48000	
	Min and Max. Capacity Range	Btu/h	7100 ~ 19400	10900 ~ 27900	15500 ~ 43400	17540 ~ 53200	22800 ~ 62400	
	SEER	Btu/w	17.0	15.6	16.0	16.5	17.0	
	EER	Btu/w	9.9	8.8	7.5	8.9	9.5	
Heating	Nominal Capacity	Btu/h	19000	25400	30000	39000	51000	
	Min and Max. Capacity Range	Btu/h	7200 ~ 22500	10400 ~ 30400	14500 ~ 47100	16540 ~ 54100	21900 ~ 63300	
	HSPF4	Btu/w	9.0	8.5	9.0	9.0	8.2	
	COP	Btu/w	11.0	9.0	9.5	10.2	9.0	
Low temperature total heating capacity at 2°C (35.6°F)		Btu/h	11790	15155	21990	26945	32000	
Low temperature total heating capacity -7°C (19.4°F)		Btu/h	10745	12370	16495	17680	28000	
MINIMUM CIRCUIT AMPACITY		A	11.0	18.0	18.0	27.0	30.0	
MAX.FUSE		A	15.0	30.0	30.0	40.0	50.0	
Compressor	Model		DA130S1C-20FZ	DA150S1C-20FZ	DA250S2C-30MT	TNB306FPGMC-L	MNB36FAAMC-L	
	Type		Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	
	Brand		GMCC	GMCC	GMCC	MITSUBISHI	MITSUBISHI	
	Rated current (RLA)	A	4.97	9.70	8.85	13.50	21.00	
	Locked rotor Amp (LRA)	A	----	----	----	----	----	
	Thermal protector		1NT01L-4639 or KSD301	KSD301	----	----	----	
	Thermal protector position		----	EXTERNAL	----	----	----	
Refrigerant oil / oil charge	ml	ESTER OIL VG74 / 500	ESTER OIL VG74 / 500	ESTER OIL VG74 / 820	FV50S / 1070	FV50S/1400		
Outdoor fan motor	Model		WZDK50-38G	YDK53-6FB(B)	WZDK72-38G	WZDK180-38G	WZDK85-38G	
	Brand		PANASONIC	Welling	Panasonic	Shibaura	Shibaura	
	Input	W	50	136 / 130	72	180	85(Output)	
	RLA	A	0.74	0.74	0.70	1.30	1.20	
	LRA	A	/	0.90	/	/	/	
	Winding Resistance	Ω	/	88.5/138	/	/	/	
	Capacitor	uF	--	2.50	--	--	--	
Speed	r/min	750	930 / -- / 830	800	850	800		
Outdoor air flow	m3/h	2500	2700	3500	3800	7200		
Outdoor air flow	CFM	1470	1590	2060	2240	4240		
Outdoor noise level	dB(A)	57	60	63	65	64		
Outdoor unit	Dimension(W*D*H)	mm	845 x 320 x 700	845 x 320 x 700	900 x 315 x 860	990 x 345 x 965	938 x 392 x 1369	
	Dimension(W*D*H)	inch	33"-1/4 x 12"-5/8 x 27"-5/8	33"-1/4 x 12"-5/8 x 27"-5/8	35"-1/2 x 12"-3/8 x 33"-7/8	39" x 13"-5/8 x 38"	37" x 15"-1/2 x 54"	
	Packing (W*D*H)	mm	965 x 395 x 755	965 x 395 x 755	1043 x 395 x 915	1120 x 435 x 1100	1095 x 495 x 1505	
	Packing (W*D*H)	inch	38" x 15"-1/2 x 29"-3/4	38" x 15"-1/2 x 29"-3/4	41" x 15"-1/2 x 36"	44" x 17"-1/8 x 43"-3/8	43"-1/8 x 19"-1/2 x 59"-1/2	
	Net/Gross weight	Kg	53.5 / 57	51 / 54.5	62 / 67	81.5 / 85.5	103.3 / 115.9	
Net/Gross weight	lbs.	118 / 126	113 / 120	137 / 148	180 / 189	218 / 245		
Refrigerant type	oz	R410A / 51	R410A / 92	R410A / 88	R410A / 95	R410A / 176		
Refrigerant precharge (Total pipe length)	ft	25 x 2	25 x 3	25 x 3	25 x 4	25 x 5		
Additional charge for each ft	oz	0.16	0.16	0.16	0.16	0.16		
Design pressure	PSIG	540 / 300	540 / 300	540 / 300	540 / 340	540 / 340		
Refrigerant piping	Liquid side / Gas side (OD) - Note: (3/8" > 1/2" Gas Side Adapters provided for attaching 12000 and 18000 BTU ID Units)		mm	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 9.52
			inch	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 3/8"
	Max. length for all zones		m	30	45	45	60	75
	Max. length for all zones		ft	98	148	148	197	245
	Max. length for one indoor unit		m	20	25	25	30	30
	Max. length for one indoor unit		ft	66	82	82	98	98
	Max. height difference between indoor and outdoor unit	OU higher than IU	m	10	10	10	10	10
		OU higher than IU	ft	33	33	33	33	33
		OU lower than IU	m	15	15	15	15	15
OU lower than IU		ft	49	49	49	49	49	
Max. height difference between indoor units		m	10	10	10	10	10	
Max. height difference between indoor units		ft	33	33	33	33	33	
Ambient temperature	cooling	°C	-15~50	0~50	-15~50	-15~50	-15~50	
	cooling	°F	5~122	32~122	5~122	5~122	5~122	
	heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	
	heating	°F	5~76	5~76	5~76	5~76	5~76	

Specification and data listed herein are subject to change without notice due to constant product and engineering improvements. Always refer to the equipment nameplate for applicable exact information.

Ratings are based laboratory tests, performed in accordance with the applicable AHRI Standards for Variable Speed Mini Split Multi Zone Heat Pump Systems.

INDOOR SECTION MODEL NUMBERS AND SPECIFICATIONS:

MODEL DESCRIPTION		WALL MOUNT			8 WAY CEILING CASSETTE		CEILING CONCEALED RECESSED DUCTED		FLOOR - CEILING - LOW WALL FLEXMOUNT		FLOOR CONSOLE	
PRODUCT IMAGE												
Model		WB009GMF16MLD (Code:220052001910)	WB012GMF16MLD (Code:220052001900)	WB018GMF16MLD (Code:220052001890)	CB012GMF16MLD (Code:220042300220)	CB018GMF16MLD (Code:220042400990)	RB012GMF16MLD (Code:220070100250)	RB018GMF16MLD (Code:220070201620)	UB012GMF16MLD (Code:220044000210)	UB018GMF16MLD (Code:220052200340)	FB012GMF16MLD (Code:220044000200)	
Power supply		V-ph-Hz	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	208-230-1-60	
Cooling	Capacity	Btu/h	9000	12000	18000	12000	18000	12000	18000	12000	18000	
	SEER	Btu/W	16.3	16	16	16.5	16.5	14.5	15.5	19	17.3	
Heating	Capacity	Btu/h	9800	12700	18900	12400	18400	12200	18600	12400	18400	
	HSPF4	Btu/W	9	9.1	8.8	8.7	8.8	8.4	8.6	9.1	8.3	
Indoor fan motor	Model		RPG20B	RPG20B	RPG28H	WZDK37-38G	WZDK37-38G	YSK27-4G	YSK68-4B	WZDK55-38GS-W	WZDK55-38GS-W	RD-280-20-8A
	Qty		Welling	Welling	Welling	1	1	1	1	1	1	1
	Input	W	43	43	58.5	37	37	71	90	55	55	20
	Capacitor	uF	1.2	1.5	1.5	/	/	2UF / 450V	3.5UF / 450V	/	/	/
	Speed	r/min	1150/950/800	1150/1000/850	1130/1040/940	950 / 840 / 670 / 600	950 / 840 / 670 / 600	1255 / 1005 / 850	1010 / 790 / 690	1000 / 800 / 700	1000 / 800 / 700 / 600	560 / 460 / 420 / 350
Indoor coil	Number of rows		2	2	2	1	2	3	3	2	2	2
	Tube pitch(a)*row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37	21x13.37
	Tube pitch(a)*row pitch(b)	inch	0.83x0.53	0.83x0.53	0.83x0.53	0.83 x 0.53	0.83 x 0.53	0.83 x 0.53	0.83 x 0.53	0.83 x 0.53	0.83 x 0.53	0.83x0.53
	Fins/finch		19	19	19	19	19	16	16	19	19	19
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia.and type	mm	Φ7,inner grooved tube	Φ7,inner grooved tube	Φ7,inner grooved tube	Φ7,inner grooved tube	Φ7, inner groove tube	Φ7,inner grooved tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7,inner grooved tube
	Coil length*height*width	mm	538 x 252 x 26.7	637 x 294 x 26.7	755 x 336 x 26.7	1380 x 210 x 13.5	1370 x 210 x 26.7	515 x 252 x 40	733 x 252 x 40	804 x 252 x 27	804 x 252 x 27	512 x 378 x 26.7
	Coil length*height*width	inch	21-1/8 x 10 x 1-1/8	25 x 11-5/8 x 1-1/8	29-3/4 x 13-1/4 x 1-1/8	54-3/8 x 8-1/4 x 5/8	54 x 8-1/4 x 1-1/8	20-1/4 x 10 x 1-5/8	28-7/8 x 10 x 1-5/8	31-5/8 x 10 x 1-1/8	31-5/8 x 10 x 1-1/8	20-1/8 x 14-7/8 x 1-1/8
	Number of circuits		2	2	4	2	4	4	4	3	3	2
	Indoor air flow (Hi/Med/Lo) (No duct)	m <sup>3</sup> /h	450 / 370 / 320	570 / 500 / 420	880 / 820 / 730	620 / 520 / 410	620 / 520 / 410	630 / 550 / 460	800 / 640 / 530	800 / 620 / 500	800 / 620 / 500	450 / 390 / 350
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	265 / 220 / 190	335 / 295 / 250	520 / 480 / 430	360 / 310 / 240	360 / 310 / 240	370 / 320 / 270	470 / 380 / 310	470 / 360 / 290	470 / 360 / 290	260 / 230 / 210	
	Pa	/	/	/	/	/	40	70	/	/	/	
Indoor noise level (Hi/Med/Low)	dB(A)	35 / 30 / 25	37 / 32 / 27	42 / 37 / 34	50 / 47 / 43	50 / 47 / 43	40 / 36 / 33	41 / 35 / 33	38 / 34 / 30	44 / 38 / 33	38 / 33 / 30	
Indoor unit	Dimension (WxDxH)	mm	710 x 190 x 250	790 x 198 x 265	920 x 223 x 292	570 x 570 x 260	570 x 570 x 260	700 x 635 x 210	920 x 635 x 210	990 x 660 x 203	990 x 660 x 203	700 x 600 x 210
	Dimension (WxDxH)	inch	28 x 7-1/2 x 10	31 x 7-3/4 x 10-1/2	36-1/2 x 8-3/4 x 11-1/2	22-1/2 x 22-1/2 x 10-1/4	22-1/2 x 22-1/2 x 10-1/4	27-1/2 x 25 x 8-1/4	36-1/4 x 25 x 8-1/4	39 x 26 x 8	39 x 26 x 8	27-5/8 x 23-5/8 x 8-1/4
	Packing(WxDxH)	mm	770 x 265 x 318	875 x 265 x 335	1015 x 295 x 368	655 x 655 x 290	655 x 655 x 290	915 x 655 x 290	1135 x 655 x 290	1090 x 745 x 297	1090 x 745 x 297	810 x 710 x 305
	Packing(WxDxH)	inch	30-3/8 x 10-1/2 x 12-1/2	34-1/2 x 10-1/2 x 13-1/3	40 x 11-5/8 x 14-1/2	25-3/4 x 25-3/4 x 11-1/2	25-3/4 x 25-3/4 x 11-1/2	36 x 25-3/4 x 11-1/2	44-5/8 x 25-3/4 x 11-1/2	43 x 29-3/8 x 11-5/8	43 x 29-3/8 x 11-5/8	31-7/8 x 28 x 12
	Net/Gross weight	kg	8 / 9.5	9 / 11	11.5 / 15	16 / 19	18 / 21	20 / 25	22.5 / 27.5	22 / 28	23 / 28.5	15 / 20
	Net/Gross weight	lbs.	18 / 20	20 / 24	26 / 33	35 / 42	40 / 46	44 / 55	51 / 64	49 / 62	51 / 63	33 / 44
Panel (Applicable to Ceiling Cassette Models Only)	Dimension (WxDxH)	mm	N/A	N/A	N/A	647 x 647 x 50	647 x 647 x 50	N/A	N/A	N/A	N/A	
	Dimension (WxDxH)	inch	N/A	N/A	N/A	25-1/2 x 25-1/2 x 2	25-1/2 x 25-1/2 x 2	N/A	N/A	N/A	N/A	
	Packing(WxDxH)	mm	N/A	N/A	N/A	715 x 715 x 123	715 x 715 x 123	N/A	N/A	N/A	N/A	
	Packing(WxDxH)	inch	N/A	N/A	N/A	28 x 28 x 5	28 x 28 x 5	N/A	N/A	N/A	N/A	
	Net/Gross weight	kg	N/A	N/A	N/A	2.5 / 4.5	2.5 / 4.5	N/A	N/A	N/A	N/A	
Design pressure	PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG	
Drainage water pipe diameter	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ25	ODΦ25	OD Φ25	OD Φ25	ODΦ25	ODΦ25	ODΦ16	
Refrigerant piping	Liquid side/ Gas side	mm	Φ 6.35 / Φ 9.52	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	Φ 6.35 / Φ 12.7	
		inch.	Φ 1/4" / Φ 3/8"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	Φ 1/4" / Φ 1/2"	
Controller			Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote	LCD Wired Remote	LCD Wired Remote	Wireless Remote	Wireless Remote	
Room temperature	Cooling	°C	17~32	17~32	17~32	17~32	17~32	17~32	17~32	17~32	17~32	
	Cooling	°F	62~90	62~90	62~90	62~90	62~90	62~90	62~90	62~90	62~90	
	Heating	°C	0~30	0~30	0~30	0~30	0~30	0~30	0~30	0~30	0~30	
	Heating	°F	32~86	32~86	32~86	32~86	32~86	32~86	32~86	32~86	32~86	
Operation temperature	°C	17~30	17~30	17~30	17~30	17~30	17~30	17~30	17~30	17~30	17~30	
	°F	62~86	62~86	62~86	62~86	62~86	62~86	62~86	62~86	62~86	62~86	
Suitable Application Area	m2	18 ~ 28	28 ~ 37	37 ~ 56	28 ~ 37	37 ~ 56	37 ~ 56	37 ~ 56	28 ~ 37	37 ~ 56	28 ~ 37	
	Sq. Ft.	200 ~ 300	300 ~ 400	400 ~ 600	300 ~ 400	400 ~ 600	300 ~ 400	400 ~ 600	300 ~ 400	400 ~ 600	300 ~ 400	

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