

Submittal P42M5A2

42,000 BTU Multi Zone Heat Pump Outdoor Unit

Job Name _____
Location _____
Engineer _____
Submitted To _____
Submitted By _____
Reference _____

Date _____
Approval _____
Construction _____
Unit No _____
Drawing No _____

FEATURES

- Heating down to -4°F(-20°C)
- Built-in Base Pan Heater
- Compatible with Wall Mount, Cassette, & Horizontal Ducted Indoor Units
- 3 to 5 Zone System
- Compressor Pre-Heating


SYSTEM COMPONENTS

Outdoor Unit Model Number	WHP42M5A21S
System Model Number	P42M5A2

OUTDOOR TEMPERATURE OPERATING RANGE

Cooling - °F (°C)	14°F to 115°F (-10°C to 46°C)
Heating - °F (°C)	-4°F to 75°F (-20°C to 24°C)

ELECTRICAL

Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - A	35
Max Circuit Breaker - A	50
Max. Current (Cooling) - A	22
Max. Current (Heating) - A	30
Rated Current (Cooling) - A	17.5
Rated Current (Heating) - A	17
Rated Input Power (Cooling) - W	4020
Min - Max Input Power (Cooling) - W	660-5500
Rated Input Power (Heating) - W	3870
Min - Max Input Power (Heating) - W	540—6450

INDOOR TEMPERATURE SETTING RANGE

Cooling - °F (°C)	61°F to 86°F(16°C to 30°C)
Heating - °F (°C)	61°F to 86°F(16°C to 30°C)

CAPACITIES

Total Connectable Capacity	34,000 to 54,000
Cooling Capacity - BTU/h	42000
Cooling Capacity Range - BTU/h	9,000—50,000
Heating Capacity - BTU/h	42000
Heating Capacity Range - BTU/h	9,000—52,000

EFFICIENCIES

SEER	20	SEER2	20
EER	10.5	EER2	10.5
HSPF	10	HSPF2	9
COP - BTU	10.85	COP 2- BTU	10.82
COP. - W/W	3.18	COP2. - W/W	3.17

LINESET REQUIREMENTS

Connection Pipe Diameter - Liquid (Flare) - in (mm)	Ø1/4 (Ø6.35)
Connection Pipe Diameter - Gas (Flare) - in (mm)	Ø3/8 (Ø9.52)
Minimum Lineset Length - ft (m)	10 (3)
Maximum Lineset Length (Total) - ft (m)	262 (80)
Maximum Lineset Length (Each) - ft (m)	65 (20)
Max Height Difference (IDU higher than ODU) - ft (m)	49 (15)
Max Height Difference (ODU higher than IDU) - ft (m)	49 (15)
Pre-charged Lineset Length - ft (m)	123 (37.5)

NET DIMENSIONS & WEIGHTS

Outdoor Unit Net Dimensions (W x H x D) - in	37 3/8 x 41 5/16 x 13 3/8
Outdoor Unit Net Dimensions (W x H x D) - mm	950×1050×340
Outdoor Unit Gross Dimensions (W x H x D) - in	43 11/16 x 47 1/4 x 18 1/8
Outdoor Unit Gross Dimensions (W x H x D) - mm	1110 x 1200 x 460
Outdoor Unit - Net Weight - lbs (kg)	198 (90)
Outdoor Unit - Gross Weight - lbs (kg)	234 (106)

FAN DATA

Sound Pressure Level Outdoor (H) - dB(A)	63
Outdoor Airflow Rate (H) - CFM	3413

REFRIGERANT

Refrigerant Type	R410A
Refrigerant Weight - lb oz	7 lb 8 oz
Oil type	VG74 (POE)

COMPRESSOR

Compressor Type	Rotary
-----------------	--------

WARRANTY


7 Year Compressor, 5 Year Parts Warranty



Note: Specifications are based on the following conditions:
 Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB.
 Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB.
 Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit – indoor unit).

Submittal P42M5A2

42,000 BTU Multi Zone Heat Pump Outdoor Unit

COMBINATION TABLE

- 7k
- 9k
- 12k
- 18k
- 24k

WHP42M5A21S						
No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total
1	7	9	18	+	+	34
2	7	9	24	+	+	40
3	7	12	18	+	+	37
4	7	12	24	+		43
5	7	18	24			49
6	9	9	18	+	+	36
7	9	9	24	+		42
8	9	12	18	+		39
9	9	12	24	+		45
10	9	18	24			51
11	12	12	18	+		42
12	12	12	24			48
13	12	18	24			54
14	7	7	7	18	+	39
15	7	7	7	24	+	45
16	7	7	9	12	+	35
17	7	7	9	18	+	41
18	7	7	9	24	+	47
19	7	7	12	12	+	38
20	7	7	12	18	+	44
21	7	7	12	24		50
22	7	9	9	9	+	34
23	7	9	9	12	+	37
24	7	9	9	18	+	43
25	7	9	9	24		49
26	7	9	12	12	+	40
27	7	9	12	18		46
28	7	9	12	24		52
29	7	12	12	12	+	43
30	7	12	12	18		49
31	9	9	9	9	+	36
32	9	9	9	12	+	39
33	9	9	9	18	+	45
34	9	9	9	24		51
35	9	9	12	12	+	42
36	9	9	12	18		48
37	9	9	12	24		54
38	9	12	12	12	+	45
39	9	12	12	18		51
40	12	12	12	12		48
41	12	12	12	18		54
42	7	7	7	7	7	35
43	7	7	7	7	9	37
44	7	7	7	7	12	39
45	7	7	7	7	18	46
46	7	7	7	7	24	52
47	7	7	7	9	9	39
48	7	7	7	9	12	42
49	7	7	7	9	18	48
50	7	7	7	9	24	54
51	7	7	7	12	12	45
52	7	7	7	12	18	51
53	7	7	7	9	9	41
54	7	7	9	9	12	44

WHP42M5A21S						
No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total
55	7	7	9	9	18	50
56	7	7	9	12	12	47
57	7	7	12	12	12	50
58	7	9	9	9	9	43
59	7	9	9	9	12	46
60	7	9	9	9	18	52
61	7	9	9	12	12	49
62	7	9	12	12	12	52
63	9	9	9	9	9	45
64	9	9	9	9	12	48
65	9	9	9	9	18	54
66	9	9	9	12	12	51
67	9	9	12	12	12	54

NOTES:

- Additional zone not allowed
 - Allowed connectable capacity combination is over 100%
 - Available circuit for future expansion
- System connection Range 80% - 130%