



PRODIRECT™ Series A Coil



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Features:

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| <ul style="list-style-type: none">• Multi-refrigerant:
Coils are designed compatible with R410A and R22 refrigerant.• High quality heat-exchanger:
Constructed of enhanced aluminum fins and internally grooved copper tubing.• Insulated cabinet:
Evaporator coil cabinets are thermally insulated with foil faced insulation to prevent sweating. (Cased coil only) | <ul style="list-style-type: none">• Multi-position installation:
Cased coil has two drain pans, and can satisfy multi-position installation. (Cased coil only)• Widely match:
Cased & uncased a coils match MRCOOL unitary products and many brand-name, popular gas furnaces and split system.• UL listed. |
|---|---|

PRODIRECT™ Series

1 Nomenclature

H	C	M	P	3036	A	F	O	A
1	2	3	4	5	6	7	8	9

Legend		
No.	Code	Remarks
1	H	PRODIRECT™
2	C	Coil
3	M	Multiposition - Upflow/Horizontal/Downflow
4	P	Case: C = Unpainted P = Painted
5	3036	Capacity: 3036: 30/36KBtu/h Note: The coil is designed for 30K and 36K condenser unit.
6	A	Coil Dimension (A = 14.5; B = 17.5; C = 21; D = 24.5)
7	F	Refrigerant type: F = R410A
8	O	Metering Device: O = Orifice T = TXV C = Capillary P = Piston
9	A	1st Gen

PRODIRECT™ Series

2 Specifications

	HCMP3036AFOA	HCMP3036BFOA	HCMP3036CFOA	HCMP3642BFOA
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
SUPPLY DUCT(in.)	13	16	19-1/2	16
NOMINAL RATING Max. Cooling (BTU/h)	30,000/36,000	30,000/36,000	30,000/36,000	36,000/42,000
EVAPORATOR COIL Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
REFRIGERANT CONNECTION SIZE Liquid Line Size (O.D.) Suction Line Size (O.D.)	3/8 3/4	3/8 3/4	3/8 3/4	3/8 7/8

	HCMP3642CFOA	HCMP3642DFOA	HCMP4248BFOA	HCMP4248CFOA
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
SUPPLY DUCT(in.)	19-1/2	23	16	19-1/2
NOMINAL RATING Max. Cooling (BTU/h)	36,000/42,000	36,000/42,000	42,000/48,000	42,000/48,000
EVAPORATOR COIL Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
REFRIGERANT CONNECTION SIZE Liquid Line Size (O.D.) Suction Line Size (O.D.)	3/8 7/8	3/8 7/8	3/8 7/8	3/8 7/8

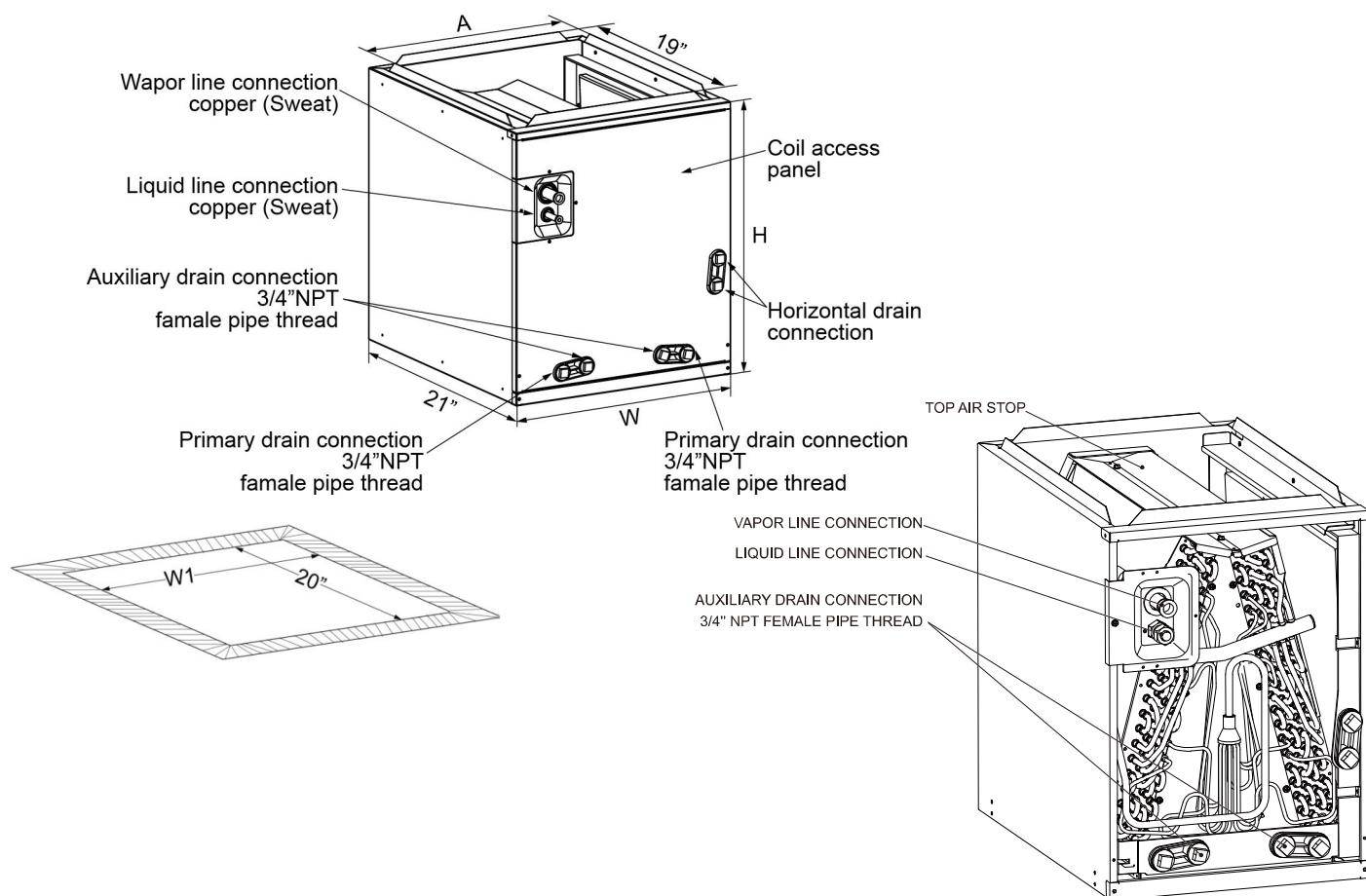
PRODIRECT™ Series

Specifications

	HCMP4248DFOA	HCMP4860CFOA	HCMP4860DFOA
INSTALLATION	Multiple position	Multiple position	Multiple position
SUPPLY DUCT(in.)	23	19-1/2	23
NOMINAL RATING Max. Cooling (BTU/h)	42,000/48,000	48,000/60,000	48,000/60,000
EVAPORATOR COIL Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
REFRIGERANT CONNECTION SIZE Liquid Line Size (O.D.) Suction Line Size (O.D.)	3/8 7/8	3/8 7/8	3/8 7/8

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3 Dimensions



Model	Unit Dimensions					Weight (lbs.)
	Unit height "H" (in.)	Unit width "W" (in.)	Supply duct "A" (in.)	"W1" (in.)	Liquid line/ Vapor line	
HCMP3036AFOA	20	14-1/2	13	13-1/2	3/8 / 3/4	46
HCMP3036BFOA	20	17-1/2	16	16-1/2	3/8 / 3/4	49
HCMP3036CFOA	20	21	19-1/2	20	3/8 / 3/4	51
HCMP3642BFOA	26	17-1/2	16	16-1/2	3/8 / 7/8	60
HCMP3642CFOA	26	21	19-1/2	20	3/8 / 7/8	62
HCMP3642DFOA	26	24-1/2	23	23-1/2	3/8 / 7/8	66
HCMP4248BFOA	30	17-1/2	16	16-1/2	3/8 / 7/8	73
HCMP4248CFOA	30	21	19-1/2	20	3/8 / 7/8	73
HCMP4248DFOA	30	24-1/2	23	23-1/2	3/8 / 7/8	77
HCMP4860CFOA	30	21	19-1/2	20	3/8 / 7/8	82
HCMP4860DFOA	30	24-1/2	23	23-1/2	3/8 / 7/8	86

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4 Piston

Factory installed piston size for each coil model. Additional piston sizes are provided in the ship-with literature bag as necessary

Model	Piston/Orifice sizes												
	50	52	56	58	60	64	68	70	73	75	80	83	90
HCMP3036AFOA		X		X	X	X*		X					
HCMP3036BFOA		X		X	X	X*		X					
HCMP3036CFOA		X		X	X	X*		X					
HCMP3642BFOA		X			X	X		X		X*			
HCMP3642CFOA					X	X		X		X*			
HCMP3642DFOA					X	X		X		X*			
HCMP4248BFOA				X		X		X		X		X*	
HCMP4248CFOA						X		X		X		X*	
HCMP4248DFOA								X		X		X*	
HCMP4860CFOA										X	X	X	X*
HCMP4860DFOA										X	X	X	X*

Note: * means that this piston is pre-installed

Piston superheat charging chart

Outdoor temp(°F)	Indoor Temperature(°F) Dry Bulb/Wet Bulb					
	95/79	90/75	85/71	80/67	75/63	70/58
	Superheat					
115	23	16	7	5	5	5
110	24	17	9	5	5	5
105	26	19	11	5	5	5
100	27	21	13	7	5	5
95	29	23	16	9	5	5
90	30	25	18	12	5	5
85	35	26	20	14	8	5
80	34	28	22	17	11	5
75	35	30	24	19	13	6
70	37	32	26	21	16	10
65	38	34	29	24	19	13
60	40	36	31	27	22	17
55	41	37	33	29	25	21

Note: Chart is based on 400CFM/Ton indoor airflow and 50% relative humidity. If indoor relative humidity is above 70% or below 20%, use indoor wet bulb temperature only.

Airflow range is 375 to 425 CFM/Ton

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5 Airflow Performance

Pressure drop characteristics for cooling and heat pump coils								
Pressure drop (Inches of water)								
Model	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4*
HCMP3036AFOA	307	485	618	729	823	911	991	1063
HCMP3036BFOA	327	527	682	810	925	1024	1122	1217
HCMP3036CFOA	360	585	748	893	1019	1132	1238	1348
HCMP3642BFOA	401	600	773	916	1045	1160	1256	1357
HCMP3642CFOA	457	663	856	1019	1156	1277	1394	1502
HCMP3642DFOA	496	718	924	1102	1259	1398	1530	1651
HCMP4248BFOA	456	638	810	953	1077	1191	1284	1390
HCMP4248CFOA	505	726	932	1098	1244	1375	1494	1604
HCMP4248DFOA	533	857	1105	1319	1509	1675	1824	1956
HCMP4860CFOA	439	699	906	1071	1224	1362	1487	1589
HCMP4860DFOA	466	764	978	1157	1313	1466	1590	1695

Data based on wet coil with entering air at 80 degF DB / 67 degF WB without air filter. The maximum allowable pressure drop is 0.4 IWG.

The maximum CFM is the data at 0.4 IWG pressure.

Maximum airflow setting

Maximum airflow setting (CFM)				
Model	Up flow	Horizontal Left	Down flow	Horizontal Right
HCMP3036AFOA	1200	1050	1050	1200
HCMP3036BFOA	1250	1200	1050	1250
HCMP3036CFOA	1250	1200	1050	1250
HCMP3642BFOA	1575	1400	1400	1575
HCMP3642CFOA	1575	1400	1400	1575
HCMP3642DFOA	1575	1450	1450	1575
HCMP4248BFOA	1800	1800	1700	1500
HCMP4248CFOA	1800	1800	1700	1700
HCMP4248DFOA	1800	1800	1700	1700
HCMP4860CFOA	1850	1750	1750	1850
HCMP4860DFOA	2000	1850	1850	2000

Note: Water blow-off could occur in certain installation positions if the airflow setting exceeds the maximum values listed.