MRCOOL®
SIGNATURE SERIES

R-454B COMPATIBLE

10 YEAR PARTS WARRANTY
10 YEAR GUARANTEED

Stud-Mount Air Handler

MCAEAWPEF***21AA



- Easy Installation
- 10-Year Limited Parts Warranty*
- Quick Filter Change
- Optional Electric Heat Kits Available
- Low Profile Design
- Compatible with most Third-Party Thermostats, & modern HVAC Control Systems
- Durable Construction

*Warranty provides a non-transferable limited warranty for a total of ten (10) years of limited warranty coverage for Parts.

V 10.27.25

Signature Series Stud-Mount Air Handler

Upgrade your HVAC system with a Signature Series Stud Mount Air Handler—engineered for outstanding flexibility, energy efficiency, and easy installation.

Designed specifically to fit neatly between standard wall studs, this compact and space-saving unit is perfect for locations where traditional air handlers are impractical. It offers adaptable solutions suited to a wide range of applications.

Despite its slim profile, this air handler provides powerful heating and cooling performance when paired with a compatible heat pump or condenser. It features both front and bottom return air configurations, allowing you to customize the setup according to your room layout and airflow preferences.

Whether you're renovating, upgrading, or constructing new, it's a trusted, space-efficient solution designed for lasting comfort and convenience by providing unmatched quality and reliability.

MODEL NO.	UNITS	MCAEAWPEF18D21AA	MCAEAWPEF24D21AA	MCAEAWPEF30E21AA	MCAEAWPEF36E21AA
ELECTRICAL PARTS					
Rated Voltage	(V~Hz,Ph)	208/230~60,1	208/230~60,1	208/230~60,1	208/230~60,1
Min. Circuit Ampacity (MCA)	A	2.5	2.5	4.5	4.5
Max. Current Over Protection (MOP)	A	3	3	6	6
MOTOR					
Type		ECM	ECM	ECM	ECM
Rated Horsepower		1/3	1/3	1/2	1/2
Rated RPM	r/min	960	1010	960	1000
BLOWER					
Diameter	inch	11	11	11	11
Width	inch	6	6	10	10
Indoor Air Flow	CFM	685	797	965	1095
Noise Level	dB(A)	53	54	55	57
DIMENSIONS & WEIGHT					
Net Dimension (WxHxD)	inch	20.5 x 36 x 15	20.5 x 36 x 15	22.12 x 39.5 x 19	22.12 x 39.5 x 19
Packing Dimension (WxHxD)	inch	23.22 x 39.62 x 18.11	23.22 x 39.62 x 18.11	24.6 x 42.88 x 22.25	24.6 x 42.88 x 22.25
Net Weight	lbs	88	88	110	110
Gross Weight	lbs	97	97	120	120
REFRIGERANT CONNECTION VALVE					
Liquid Side	inch	3/8	3/8	3/8	3/8
Gas Side	inch	3/4	3/4	3/4	3/4

MRCOOL®
COMFORT MADE SIMPLE