



HORIZONTAL DISCHARGE HEAT PUMP AND AIR HANDLER

Midea's heat pump / air handler combination provides a system that maintains the traditional ducted heating and cooling characteristics while leveraging elements of ductless technology. 37MUHAQ & 37MURAQ heat pumps are compatible with residential fan coils and furnaces*, ensuring a seamless integration with your existing HVAC setup.

System Features and Benefits

Efficiency

- Up to 19 SEER2 and Up to 10.8 HSPF2 when paired with the 37MUHA Heat Pump with the 45MUHA Air Handler
- 37MUHA/45MUHA combination provides 100% Heating output at 5°F/-15°C with COP up to 1.9
- Excel Series heat pump can deliver up to 12.5 EER2 rating
- Compact design, 2 ton 45MUHA Air Handler only 14.5" wide

Performance

- Heat Pump operates at sounds as low as 55 dB(A) and Indoor unit as low as 33 dB(A), measured 1 m away
- 45MUHA Air Handlers automatically identifies 115V or 208/230V with no need for manual conversion
- 45MUHA filtration module compatible with 1", 2" or 4" filters
- Constant Airflow 2.0 provides consistent airflow up to 1.0 in. W.C.

Simple Installation

- 45MUHA air handler is the same width as a gas furnace of the same capacity (14.5"-21.5")
- Optional auxiliary heat kit, up to 25KW



37MUHAQ (30k size shown)



45MUHA



45MUAA

R-410A Models		
Excel	38MURAQ**AB3	High Heat Heat Pump
	40MULAQ	Coil
	38MURAQ**AA3	Standard Heat Heat Pump
	40MUAQAQ	Air Handler
Essence		

R-454B Models		
Excel	37MUHAQ	Heat Pump
	45MULAQ	Coil
	45MUHAQ	Air Handler
Essence	37MURAQ	Heat Pump
	45MUAQAQ	Air Handler

Flexibility for Dealers and Peace of Mind for Homeowners

Installation & Serviceability

- Traditional line sets

Midea Limited Warranty

- Upon timely registration, ductless units are covered by a 10-year parts limited warranty. If not registered within 90 days, the warranty period is five years.**

System Sustainability

- Only supports R-454B as refrigerant
- Air Handlers equipped with refrigerant detection sensor

The Midea Difference

When you choose Midea equipment, you're choosing enhanced dependability and innovation in home comfort. We are proud to give you the latest in engineering and technology. We take pride in surpassing your expectations and delivering quality you can feel.

Ideal Applications:



**RESIDENTIAL
NEW CONSTRUCTION**



**HOME
ADDITION**



**SYSTEM
REPLACEMENT**

Air Handler Dimensions

Model Number ¹	Dimensions (LxWxD) in	Weight lbs. (kg)	Vapor in (mm)	Liquid in (mm)
45MUHAQ24XX3	53.86x14.49x21.5	123.02 (55.8)	3/4 (19)	3/8 (9.52)
45MUHAQ36XX3	58.11x17.5x21.5	149.25 (67.7)	3/4 (19)	3/8 (9.52)
45MUHAQ60XX3	60.11x21.5x21.5	188.05 (85.3)	3/4 (19)	3/8 (9.52)
45MUAQA18XX3	45x17.5x21	105.82(48)	3/4 (19)	3/8 (9.52)
45MUAQA24XX3	45x17.5x21	105.60(47.9)	3/4 (19)	3/8 (9.52)
45MUAQA30XX3	49x21.02x21	128.97(58.5)	3/4 (19)	3/8 (9.52)
45MUAQA36XX3	49x21.02x21	129.41(58.7)	3/4 (19)	3/8 (9.52)
45MUAQA48XX3	53x24.5x21	162.92(73.9)	3/4 (19)	3/8 (9.52)
45MUAQA60XX3	53x24.5x21	162.92(73.9)	3/4 (19)	3/8 (9.52)

¹45MUHA has dip switch option to convert capacities: 18k/24k, 30k/36k, 48k/60k

Combination Ratings

Air Handler¹	Heat Pump	SEER2	EER2	HSPF2	Max. Line Length	MCA/MOP		Max Heating Capacity BTU's At 70F [21.1C] Indoor DB @ Max CFM			Maximum Cooling BTU's At 80F [26.7C] Indoor DB @ Max CFM	
						Heat Pump	Fan Coil	@-22F [-30C]	@-4F [-20C]	@5F [-15C]	@110F [43C]	@122F [50C]
This sheet is not intended to replace the installation instructions. It is a reference guide only. Always read through the installation instructions.												
Excel AHU 1:1 Excel Heat Pump Systems												
45MUHAQ24XX3	37MUHAQ18AA3	19	12.5	10.2	98.42'	16A / 20A	5.5A / 3.5A / 15A	11,928	16,514	19,261	17,916	14,214
45MUHAQ24XX3	37MUHAQ24AA3	18.7	12	10	164.04'	19A / 20A	5.5A / 3.5A / 15A	12,297	17,927	21,458	23,751	17,725
45MUHAQ36XX3	37MUHAQ30AA3	17.2	12.1	10.8	164.04'	29.5A / 30A	8A / 6A / 15A	18,551	27,252	33,236	32,779	20,649
45MUHAQ36XX3	37MUHAQ36AA3	18	12	10	246'	29A / 30A	8A / 6A / 15A	27,729	37,170	38,436	38,525	24,495
45MUHAQ60XX3	37MUHAQ48AA3	17.5	12	9.5	246'	38A / 40A	14.5 A / 10 A / 15 A	30,363	43,387	48,328	45,560	32,789
45MUHAQ60XX3	37MUHAQ60AA3	17.5	12	9.5	246'	40A / 40A	14.5 A / 10 A / 15 A	37,307	49,989	56,830	53,125	33,738
Essence AHU 1:1 Excel Heat Pump Systems												
45MUA AQ18XX3	37MUHAQ18AA3	19	12.5	9.8	98.42'	16A / 20A	5.5A / 4A / 15A	11,229	16,780	19,813	18,855	15,316
45MUA AQ24XX3	37MUHAQ24AA3	18.4	11.7	10	164.04'	19A / 20A	5.5A / 4A / 15A	12,099	17,309	22,891	25,051	16,371
45MUA AQ30XX3	37MUHAQ30AA3	16.9	11.7	10	164.04'	29.5A / 30A	8A / 6A / 15A	20,066	28,190	33,287	32,404	21,287
45MUA AQ36XX3	37MUHAQ36AA3	17.4	11.7	10.3	246'	29A / 30A	8A / 6A / 15A	27,944	35,662	41,538	36,996	24,959
45MUA AQ48XX3	37MUHAQ48AA3	16.5	10.5	9.5	246'	38A / 40A	14.5A / 11A / 15A	25,870	40,674	46,850	42,234	30,465
45MUA AQ60XX3	37MUHAQ60AA3	16	10	9	246'	40A / 40A	14.5A / 11A / 15A	30,882	46,714	54,228	50,848	34,671
18k/24k IDU Capacity select via dip switch and must match ODU size												
Essence AHU 1:1 Heat Pump Systems												
45MUA AQ18XX3	37MURAQ18AA3	18.8	11	9.2	98.42'	16A / 20A	5.5A / 4A / 15A		9,175	11,379	15,815	9,543
45MUA AQ24XX3	37MURAQ24AA3	18.2	11	9.7	164.04'	19A / 20A	5.5A / 4A / 15A		16,963	22,433	24,550	16,043
45MUA AQ30XX3	37MURAQ30AA3	17	10.8	8.5	164.04'	22.5A / 25A	8A / 6A / 15A		15,521	19,356	29,603	14,498
45MUA AQ36XX3	37MURAQ36AA3	16.2	10	8.7	246'	24A / 30A	8A / 6A / 15A		22,765	26,515	32,032	18,926
45MUA AQ48XX3	37MURAQ48AA3	16	10	8.5	246'	36A / 40A	14.5A / 11A / 15A		35,908	43,152	42,022	30,316
45MUA AQ60XX3	37MURAQ60AA3	15.2	8.7	8.4	246'	39A / 40A	14.5A / 11A / 15A		35,597	41,473	41,858	32,571

¹ Fan Coils (45MUHAQ & 45MUAQA) are powered separately from the outdoor units. Fan coil power can be powered by 115V-1Ph-60Hz or 208/230V-1Ph-60Hz. If using auxiliary electric heat, installation requires 208/230V-1Ph-60Hz power.

* Check AHRI Ratings for full compatibility of residential furnaces and fan coils with the 37MUHA/37MURA Heat Pumps

** Timely registration required for 10-year parts limited warranty. Limited warranty period is five years for parts if not registered within 90 days of installation except in jurisdictions where warranty benefits cannot be conditioned upon registration. Please see warranty certificate for further details and restrictions

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

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