

13SEER-R22



DESCRIPTION

The 13 SEER Series unit is the outdoor air conditioning element in a versatile climate-control system designed to create perfect comfort. It is constructed with a matching indoor coil component from Midea Unitary Products. This multi-functional, high-efficiency system meets all of your needs while offering industry-leading quality and unmatched value.

FEATURES

- The compressor is protected against high/low pressure and temperatures by a factory-installed high/ low pressure switch and a temperature sensor which protects the compressor if undesirable operating conditions occur.
- The factory-installed discharge muffler helps insure quiet and stable operation.
- The low-pressure service valve provides easy access for service and installation.
- The factory-installed accumulator protects the compressor against liquid slugging.
- Crankcase heater that can protect the compressor from low ambient temperatures or refrigerant migration.
- High condenser coil temperature protection (127° F)
- High-quality condenser coils with inner-groove copper pipe and high-efficiency aluminum fin which absorbs the condensation water for maximum heat exchange.
- Anti-rust: painted galvanized steel cabinet, 1000 hours' salt spray test
- The operating ambient temperature range is : AC 64–109° F; HP 14–109° F

Due to continuous product improvement, specifications are subject to change without notice. Visit us at www.midea.com or www.mideaaircon.com

WARRANTY

2-Year "No hassle" exchange for customer 3–5-Year for compressor 5-Year for parts





MIDEA CONDENSING UNIT NOMENCLATURE



Physical and Electrical Data:

MODEL		MOVA-18C-M13T	MOVA-18H-M13T	MOVA-24C-M13T	MOVA-24H-M13H	
Unit Supply Voltage		208/230V,60HZ,1Ph				
Normal Voltage Range		187~ 253V				
Max Circuit Ampacity		8.9	8.9	9.4	12.6	
Max. Overcurrent Device Amps		15	15	15	20	
Compressor Type		Rotary	Rotary	Rotary	Rotary	
	Rated Load Amps	6.65	6.65	7.0	9.6	
Compressor	Locked Rotor Amps	28.6	28.6	29.6	56	
Crankcase Heater		N/A	30	N/A	30	
Fan Motor Amps	Rated Load	0.61	0.61	0.61	0.61	
Fan Diameter Inches		18-7/8	18-7/8	18-7/8	18-7/8	
	Rated HP	1/12	1/12	1/12	1/12	
Ean Motor	Nominal RPM	1075	1075	1075	1075	
Fair Woldi	Nominal CFM	1581	1581	1581	1581	
Coil	Face Area Sq. Ft.	10.15	10.15	10.15	10.15	
Coll	Fin / Inches	20	20	20	20	
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	
Vapor Line Set OD (Field Installed)		3/4	3/4	3/4	3/4	
Unit Charge (Lbs Oz.)		6llbs 3oz	6lbs 3oz	7lbs 15oz	6lbs 3ozs	
Charge Per Foot, Oz/ft.		0.7	0.7	0.7	0.7	

MODEL		MOVA-30C-M13H	MOVA-30H-M13T	MOVA-36C-M13	MOVA-36H-M13	MOVA-42C-M13	MOVA-42H-M13		
Unit Supply Voltage		208/230V,60HZ,1Ph							
Normal Voltage Range		187 ~ 253V							
Max Circuit Ampacity		13.0	15.0	19.4	19.4	22.5	22.4		
Max. Overcurr	ent Device Amps	20	25	30	30	35	35		
Compre	essor Type	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll		
	Rated Load Amps	9.6	11.2	14.7	14.7	16.5	16.5		
Compressor	Locked Rotor Amps	56	45	83	83	95	95		
Crankca	ase Heater	N/A	30	N/A	30	N/A	30		
Fan Motor Amps	Rated Load	0.96	0.96	0.96	0.96	1.67	1.67		
Fan Diameter Inches		23-5/8	23-5/8	23-5/8	23-5/8	23	23		
	Rated HP	1/6	1/6	1/6	1/6	1/3	1/3		
Ean Motor	Nominal RPM	825	825	825	825	1075	1075		
Fail Motor	Nominal CFM	3246	3246	3246	3246	4219	4219		
Coil	Face Area Sq. Ft.	13.7	13.7	13.7	13.7	15.7	15.7		
	Fin / Inches	20	20	20	20	20	20		
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8		
Vapor Line Set OD (Field Installed)		3/4	3/4	3/4	3/4	3/4	3/4		
Unit Charge (Lbs Oz.)		8lbs 6oz	6lbs 13oz	7lbs 8oz	7lbs 11oz	8lbs 3oz	9lbs 1oz		
Charge Per Foot, Oz/ft.		0.7	0.7	0.7	0.7	0.7	0.7		

Physical and Electrical Data(be continued)

MODEL		MOVA-48C-M13	MOVA-48H-M13	MOVA-60C-M13	MOVA-60H-M13			
Unit Supply Voltage		208/230V,60HZ,1Ph						
Normal Voltage Range		208V,230V						
MaxCircuit Ampacity		24.6	24.6	33	33			
Max. Overcurrent Device Amps		40	40	50	40			
Compre	essor Type	Scroll	Scroll	Scroll	Scroll			
	Rated Load Amps	18.3	18.3	25	25			
Compressor	Locked Rotor Amps	109	109	148	148			
Crankcase Heater		N/A	30	N/A	30			
Fan Motor Amps	Rated Load	1.67	1.67	1.67	1.67			
Fan Diameter Inches		23	23	23-5/8	23-5/8			
	Rated HP	1/3	1/3	1/3	1/3			
Ean Motor	Nominal RPM	1075	1075	1075	1075			
Fair Wotor	Nominal CFM	4386	4386	4269	4269			
Coil	Face Area Sq. Ft.	17.5	17.5	18.6	18.6			
	Fin / Inches	20	20	20	20			
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8			
Vapor Line Set OD (Field Installed)		7/8	7/8	7/8	7/8			
Unit Charge (Lbs Oz.)		9lbs 15oz	9lbs 9oz	10lbs 9oz	9lbs 15oz			
Charge Per Foot, Oz/ft.		0.7	0.7	0.7	0.7			

Accessories

Thermostat--- Compatible thermostat controls are available through accessory sourcing. Filter drier--- Absorbs non-condensables from the refrigerant.Recommended for all systems.

Sound Power Rating

UNIT MODEL	dB (A)
18	59
24	59
30	63
36	63
42	67
48	67
60	66



Typical Installation





BASE PAN (BOTTOM VIEW) DO NOT OBSTRUCT DRAIN HOLES (SHADED)

RECOMMENDED ELEVATED INSTALLATION

Typical Field Wiring and Wiring diagram















Electrical Data:

Model	Min. Circuit Ampacity(A)	Maximum Circuit Protector(A)
MOVA-18C-M13T	8.9	15
MOVA-24C-M13T	9.5	15
MOVA-30C-M13H	13.0	20
MOVA-36C-M13	19.4	30
MOVA-42V-M13	22.4	35
MOVA-48C-M13	24.6	40
MOVA-60C-M13	33.0	50
MOVA-18H-M13T	8.9	15
MOVA-24H-M13H	12.6	20
MOVA-30H-M13T	15.0	25
MOVA-36H-M13	19.4	30
MOVA-42H-M13	22.4	35
MOVA-48H-M13	24.6	40
MOVA-60H-M13	33.0	50