

*DesignLine***reemate**

HIGH EFFICIENCY THROUGH-THE-WALL INDOOR "MICRO" HEAT PUMP

Heating • Cooling • Dehumidification • Air Circulation



SIMPLICITY AT ITS BEST...

Simple to Design, Engineer, Install, and Maintain





✓ **Simple Installation - Compact Footprint Minimal Clearance Requirements**

✓ **Maximum Comfort with Minimal Architectural Impact**

✓ **Environmentally Friendly Design**

✓ **Wide Capacity Range (up to 12,000 BTU/h)**

✓ **Electric Heat Boost - 1kW/1000w (230v Unit Only)**



Standard Features

- 1,000 – 12,000 BTU/h
- Heat/Cool/Dehumidify/Circulate
- DC Inverter Compressor
- Variable Speed Fan
- R32 Refrigerant
- 115/1/60 (MHP10)
- 230/1/60 (MHP11) w/ 1kW/1000 Watt Electric Heat Boost
- 2.5 Pints/hr Dehumidification Capacity
- Silent Operation with “Quiet” Mode
- Self-Evaporative Function with Energy Saving Technology
- LED Operation Status Display
- On/Off Timer
- Remote Control
- WiFi Smart Life App
- Optional Wall Mount Control
- 7.25" (184 mm) Intake/Exhaust Hole Diameter
- 1-Year Parts and 3-Year Compressor Warranty



No Outdoor Unit!

- Space saving – no mechanical room, rooftop, or exterior equipment needed
- No line-sets
- Preserve aesthetics of building's facade
- Simplifies installation and reduces costs



Eco-friendly R32 Refrigerant

Next-gen R32 refrigerant offers increased efficiencies and greater capacities utilizing less overall total refrigerant volume.

- Zero Ozone Depletion Potential (ODP = 0)
- Low Global Warming Potential (GWP = 675)
- Meets AIM Act Regulations



Easy to Design, Install & Maintain

- No refrigeration handling required
- All refrigerant comes factory-sealed and remains self-contained within the unit
- No brazing, vacuuming, pressure testing, or leak detection
- Compact footprint with minimal clearance requirements



INSTALL VIDEO



Smart Life App

Smart Life is a secure smart device management app to control and manage smart home products easily and conveniently. Compatible with Android and Apple platforms.

The Perfect Roommate Does Exist.

Roommate units fit seamlessly into any décor and provide the ultimate application flexibility. Units are self-contained and easy to install while providing four seasons of whisper quiet comfort...with no refrigerant lines, no outside units, controlled from anywhere with built-in WiFi Smart Life app.



All season operation with heating, cooling, dehumidification and fresh air circulation.



Roommate can be configured by either remote control or using the Smart Life WIFI control app. Optional wall mount control available.



Units have a self-evaporative condensate removal system. (Units still require a condensate drain as a failsafe)



Aesthetically pleasing compact, durable design offers application flexibility with minimal side clearance. Units can be painted to match any décor.



High efficiency inverter compressor with variable speed fan for quiet comfort and extended equipment life.



Air is directed through an electronically controlled air louver for optimal distribution.

Applications

Office, hotel, apartment, or single-family dwellings

- Retrofit & New Construction
- Decarbonization Solution for Multi-Family Retrofits
- PTAC Replacement
- Buildings with Limited Outdoor Space or Exterior Façade Restrictions
- Residential Homeowner DIY Project
- 3-Season Rooms & Cottages





Wall Mount Control (Optional)

Basic control with color LCD display affords traditional "thermostat" functionality through a hard-wired wall-mounted control that mirrors the existing on-board, remote control and Smart Life wi-fi options.

Button Specification

Cooling		Dehumidification		Fan speed	
Heating		Swing		Sleep	
Child lock		Temperature setting		Timer	

Specifications

		Units	MHP10	MHP11
Cooling	Capacity Range	BTU/hr	1000-14,000	1000-14,000
	Efficiency Range	EER (BTU/W)	5-13	5-14
	Ambient Temp Range	°F (°C)	23-110 (-5-43)	23-110 (-5-43)
	Nominal Capacity*	BTU/hr	12,000	12,000
	Nominal Efficiency*	EER (BTU/W)	9.8	9.8
Heating	Capacity Range	BTU/hr	1,000-11,200	1000-11,200
	Efficiency Range	COP (W/W)	1.76-4.69	1.76-4.69
	Ambient Temp Range	°F (°C)	5 - 110 (-15 - 43)	6 - 110 (-15 - 43)
	Nominal Capacity**	BTU/hr	11,200	11,200/14,600***
	Nominal Efficiency**	COP (W/W)	3.5	3.5/2.4***
Electrical	Power	V/Ph/Hz	115/1/60	230/1/60
	Fan Motor Exhaust	A	0.88	0.44
	Fan Motor Supply	A	0.18	0.09
	Compressor Motor	A	6.2	3.1
	Electric Strip Heater	A	-	4.3
Refrigerant	Type		R32	
	Factory Charge	lbs. (kg)	0.55 (0.25)	
Fan	Quantity		1	
	Power Input	W	25	
	Type		Variable	
	High Speed (Heat/Cool)	CFM	282/311	
	Medium Speed (Heat/Cool)	CFM	247/277	
	Low Speed (Heat/Cool)	CFM	194/194	
Sound (@3meters)	Maximum	dBA	46	
Compressor	Type		Inverter	
	Speed Range	Hz	30-80	
	Brand		GMCC	
	Quantity		1	
Dimensions	Net Dimensions (D x W x H)	inch (cm)	8 x 40 x 23 (21 x 102 x 59)	
	Shipping Dimensions (D x W x H)	inch (cm)	13 x 44 x 26 (33 x 112 x 66)	
	Net Weight	lbs. (kg)	94 (43)	
	Shipping Weight	lbs. (kg)	107 (49)	

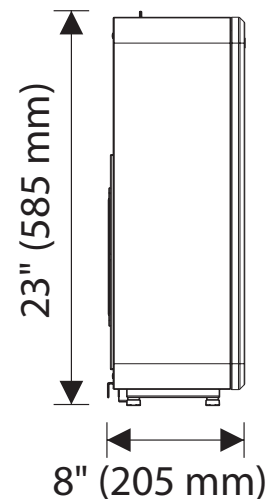
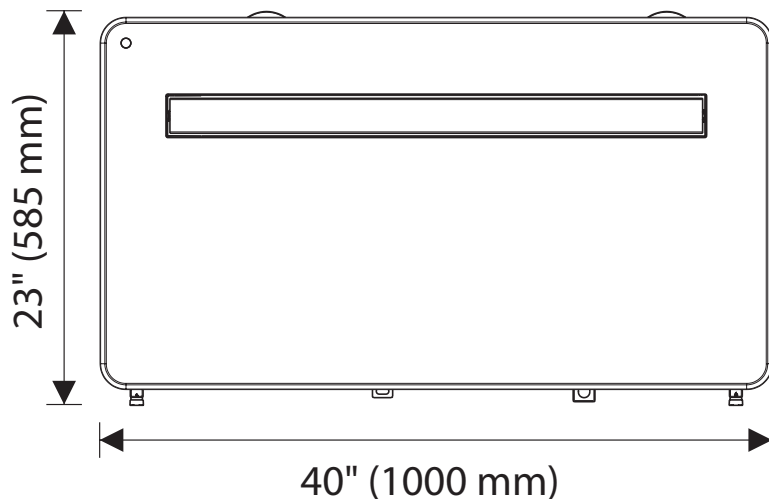
* 95°F outdoor air temperature, 80°F entering room air

** 47°F outdoor air temperature, 70°F entering room air

*** Performance with 1kW electric strip heater engaged

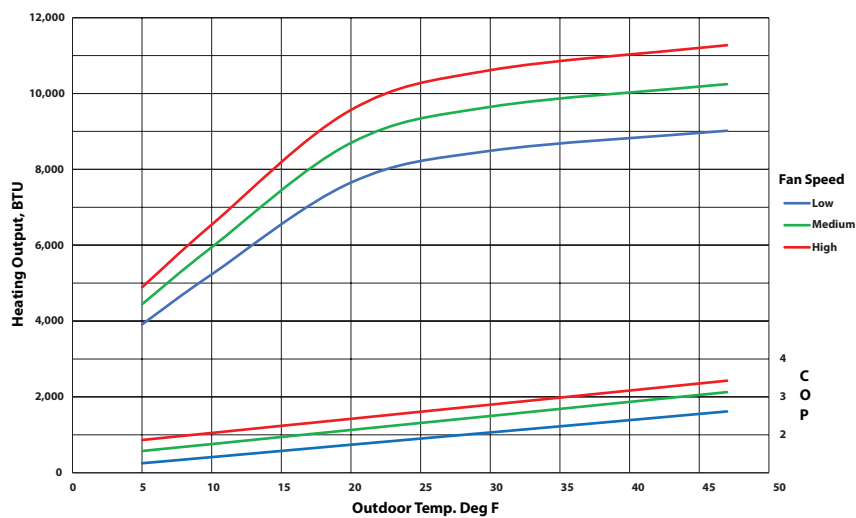


Dimensions

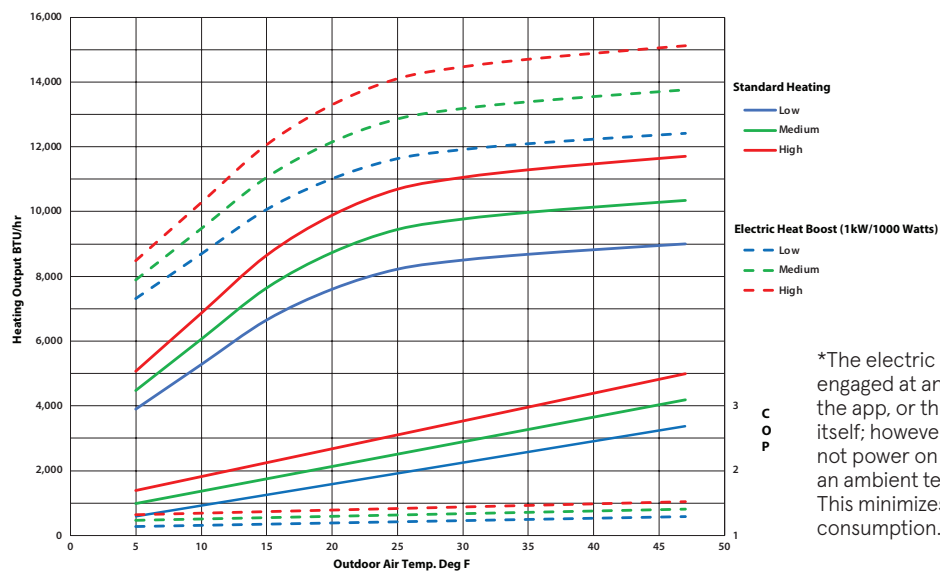


Performance

Heating Performance MHP10

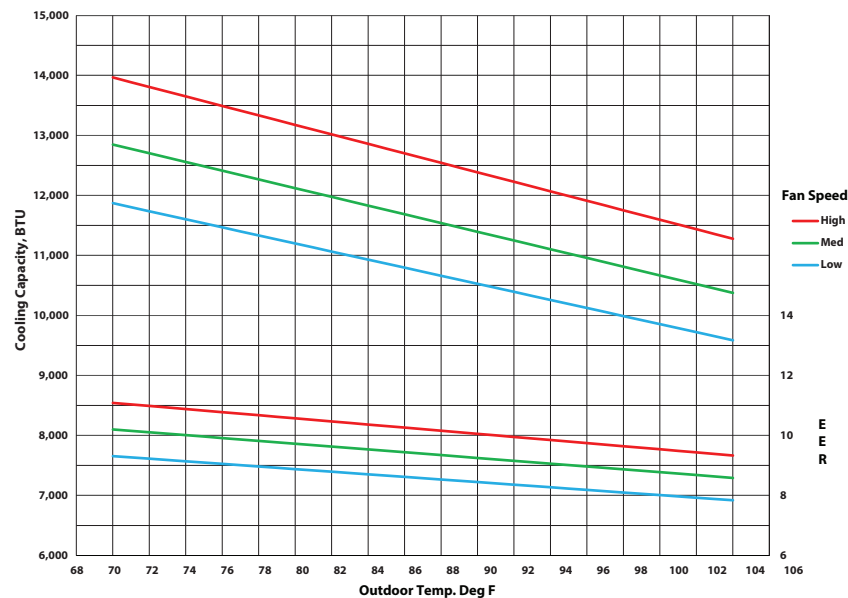


Heating Performance MHP11*



*The electric heat boost may be engaged at any time via the remote, the app, or the controls on the unit itself; however, the electric strip will not power on until the unit detects an ambient temperature below 60°F. This minimizes unnecessary electrical consumption.

Cooling Performance MHP10/MHP11

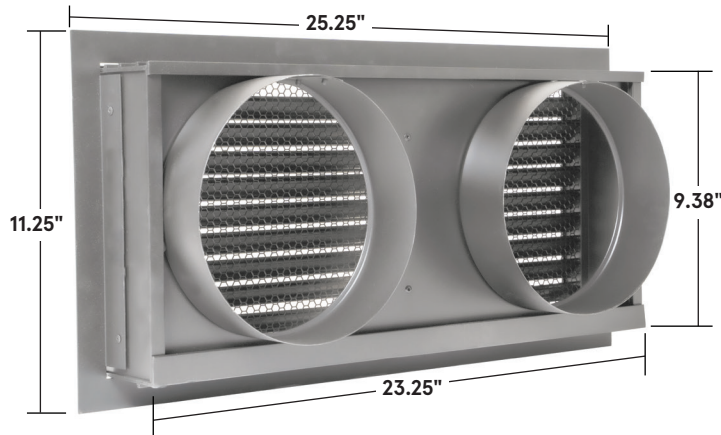


Alternate External Venting

Approved for the DesignLine Roommate thru-the-wall heat pump as alternates to the standard round louver set ups, while improving overall architectural appearance in commercial settings.

Louvers are available in both flanged and concealed flange configurations and are made of heavy duty extruded aluminum and designed to maintain a water-tight seal in any application.

EXH7 – Concealed Flange (45W51-DL0092-10)

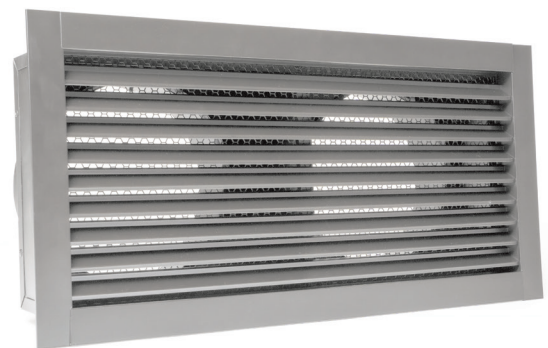
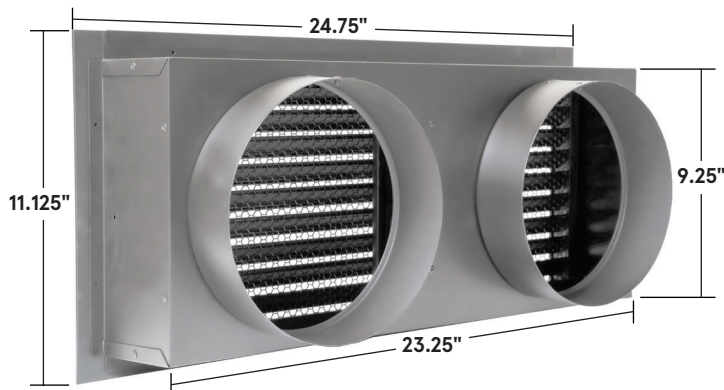


Rough Opening – 23.5"W x 9.63"H
Centers – 14"

Features & Benefits

- **Top External Rain Hood:** Prevents water intrusion between the louver and exterior wall surface.
- **Bottom External Drip Edge:** Additional protection from water intrusion between the louver and exterior wall surface.
- **Internal Water Stop:** Prevents water intrusion from entering the wall assembly from inside the louver configuration itself.
- **Custom Colors Available – Consult Factory**

FLH7 – Standard Flange (45W51-DL0091-10)

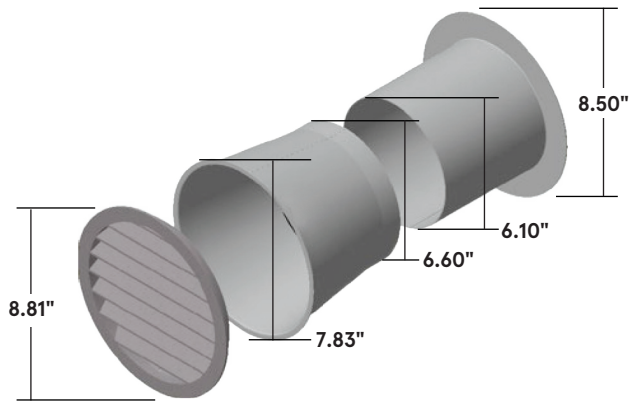


Rough Opening – 23.5"W x 9.75"H
Centers – 14"

Features & Benefits

- **Bottom Internal Drip Edge:** Additional protection from water intrusion between the louver and exterior wall surface.
- **Internal Water Stop:** Prevents water intrusion from entering the wall assembly from inside the louver configuration itself.
- **Pitched Base:** 5° pitched based at the bottom of the plenum box allows for removal of any interior water further preventing any water build-up internally.
- **Custom Colors Available – Consult Factory**

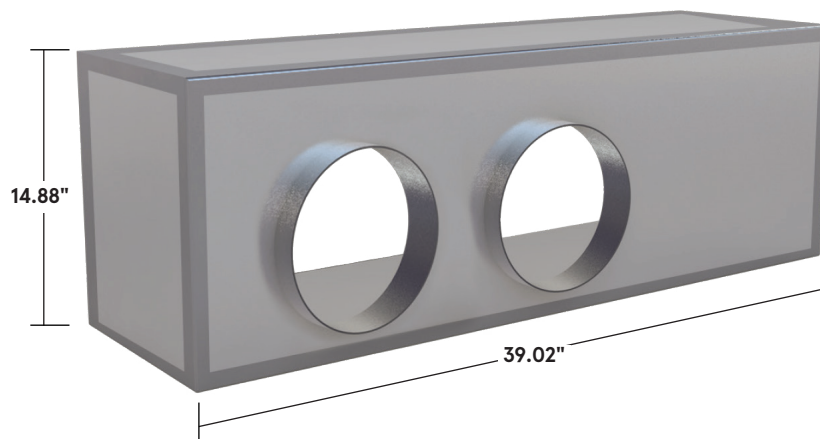
RLA6 Louver Assembly (45W51-DL0094-10)



3-part sleeved assembly with both outer and inner tapered sleeves designed more a maximum depth adjustability of 2.5". Sleeve configurations are available in 3 different lengths to fit most wall thicknesses. Exterior louver assembly is made from durable cast aluminum and fits seamlessly to the tapered sleeve mechanism.

Installation consists of installing the outer sleeve/louver onto the wall and insulating accordingly around the taper of the out sleeve and corresponding insert sleeve and secured with hardware screws securing the wall between the flanges.

PTAC Adaptor (45W51-DL0093-10)



Custom order adapters designed to mount Roommate units in existing PTAC wall sleeves. Due to the variables in PTAC wall sleeves, adapters can be fully customized and are considered a special-order item. Adapters are designed to fill PTAC openings with minimal, to no external renovations, while providing an airtight seal for optimum efficiency.

Product Development and continuous improvement are at DesignLine's core. As such, there may be changes or modifications to products, without notice. In addition, the information and specifications presented in this document are provided as is, without guarantee or warranty of any kind, expressed or implied.



DesignLine

260 North Elm Street
Westfield, MA 01085
Tel: (413) 564-5545

7555 Tranmere Drive
Mississauga, Ontario L5S 1L4 Canada
Tel: (905) 670-5888

www.designlinehvac.com

 A MESTEK COMPANY