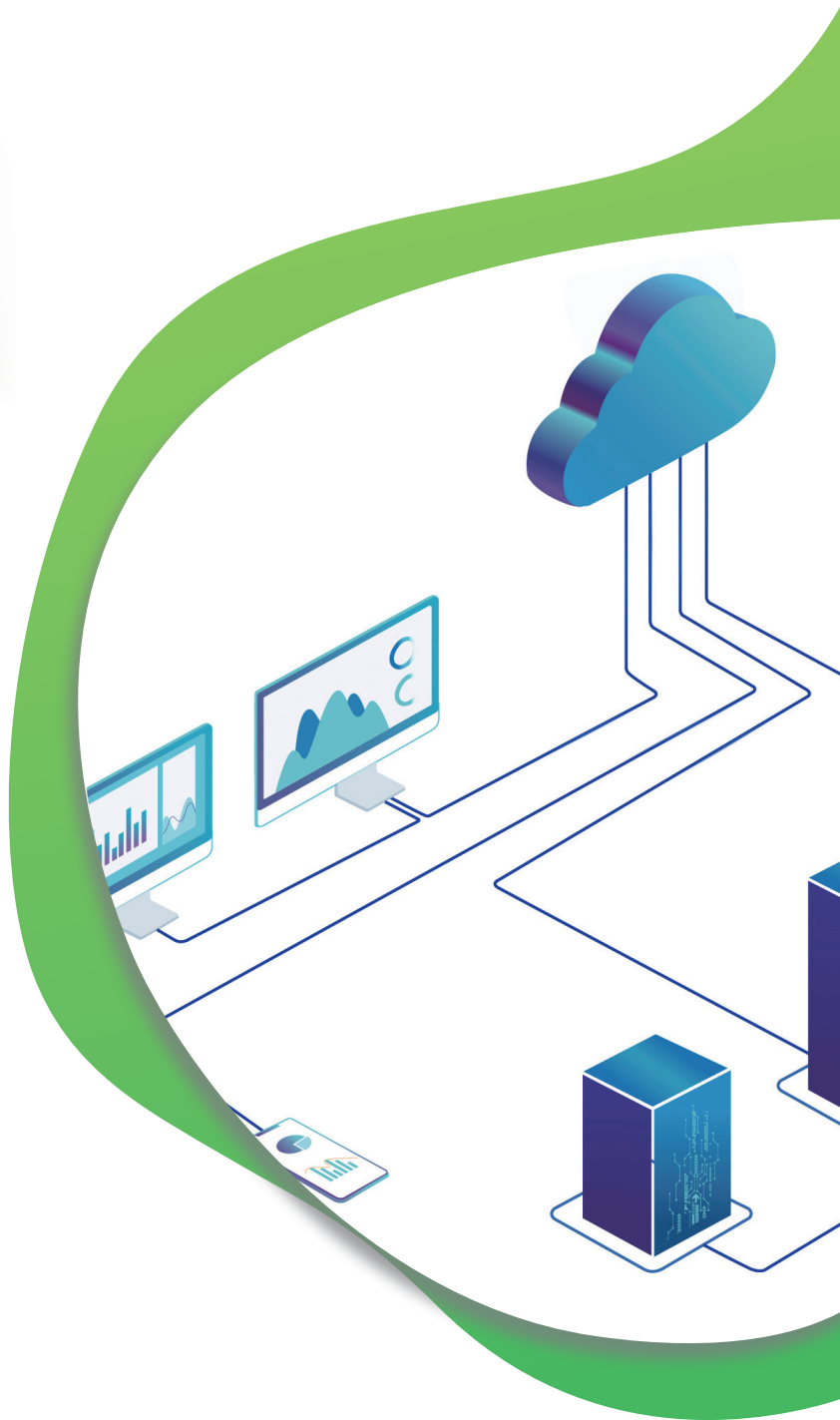
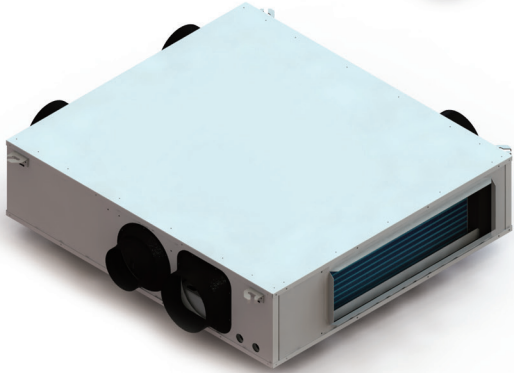


Integrated Dual Duct Heat Pump



MULTI MFG

iDDHP 2025-V1.0



Quality products; Sustainable solutions; Superior service

This document is dedicated to those looking for advanced and specialized solutions for heating, cooling, domestic hot water, air-conditioning, renewal and purification of air in the residential area.

Our systems are designed to increase the comfort level in the places where we live or work, including but not limited to single-family homes, multi-family facilities, hospitality, or other applicable installations.

Our double-duct heat pumps will provide year round comfort, focused on substantial energy savings, outside air for ventilation, and a reduction in CO2 emissions.

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ABOUT MFG

OUR BUSINESS PHILOSOPHY IS SIMPLE

Our success is entirely dependent on our ability to contribute to our customers' success.

WE STRIVE TO:

1. Manufacture the highest quality product available.
2. Design high efficiency product, with common sizes and styles that can be installed in retrofit or new construction projects.
3. Offer product with thorough and thoughtful design, with features that make it easier to install and service our product.
4. Provide the best customer service and customer support experience.

With our 25+ years' experience in the Multi-family Residential Industry, we integrate recommendations and ideas given to us by our Architects, Specifying Engineers and Mechanical Contractors into the design of our product. We listen to our customers and are constantly looking for ways to improve product for our industry.

Our goal is to manufacture the highest efficiency product, with the best customer service and product support.

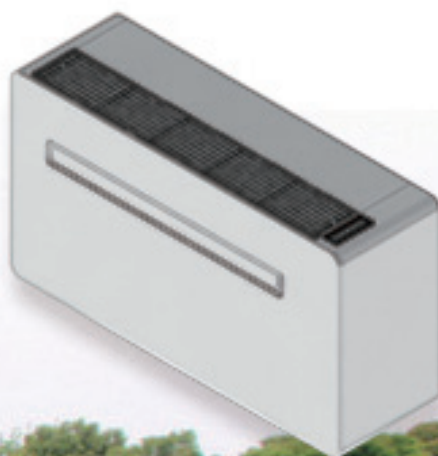
INTEGRATED DUAL DUCT HEAT PUMP



WALL MOUNTED

Wall Mounted units are slim and sleek. The Inspiron Air Double-Duct, wall Mounted heat pump can be located high or low on a wall using a factory-supplied bracket, making installation quick and simple. Special adapters enable the unit to be installed perpendicular to an outside wall, used with many louver styles, or even vented through an existing window frame with no construction required. An electronically controlled louver with an auto-swing function distributes airflow comfortably and uniformly throughout the space. Wall Mounted units are ideal for any area with free wall space. Our Wall Mounted unit is available with an optional ERV module. The powerful exhaust fan with 0.45" WC ESP enables flexibility in venting and high efficiency.

● MAIRHP-35-WM-ERV



● MAIRHP-35-WM



Supply air

Supply air is provided an electronically controlled louver that can be set at any angle or continuously swinging.

Return air

Return air from the space enters the unit through the integral grille located on top of the unit.

Outside air intake

The 8-inch round outside air intake connection can be ducted or used with an adapter with up to 0.5" WC external static pressure (combined between intake and exhaust). Use with any approved or custom louvers/ as long as they comply with the minimum requirements.

Outside air exhaust

The extremely powerful 1800 RPM ECM backward exhaust fan protrudes from the rear of the unit by 2-8" inches; this is designed to sit inside the duct or adapter. The fan's outside diameter is 11-inch, and there must be clearance around the fan so it does not vibrate against the duct when it is operating. We recommend a duct diameter of at least 8-inch. Use with any of the approved or custom louvers/as long as they comply with the minimum requirements.

Key Features

- Compact unit
- Easy to install
- Paintable sleek cabinet
- Electronically controlled air louver
- Auto-restart
- Washable filters
- 220V /1Ph /60Hz or 115V /1Ph /60Hz
- R32 refrigerant

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

- High wall
- Low wall
- Sidewall with adapter
- Multiple adapter options

Air flow

Dual 8" external vents.

Available 0.5" WC for external ducting, adapters, and louvers.

Included controls

Touch electronic wall-mounted control panel

Remote handset

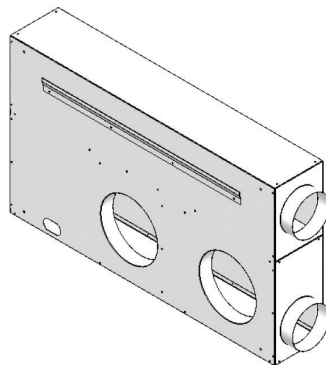
Options

- ① 900 or 1,800W electric heat
- ② With or without ERV
- ③ Smart touch electronic, wall-mounted control panel with remote diagnose via internet

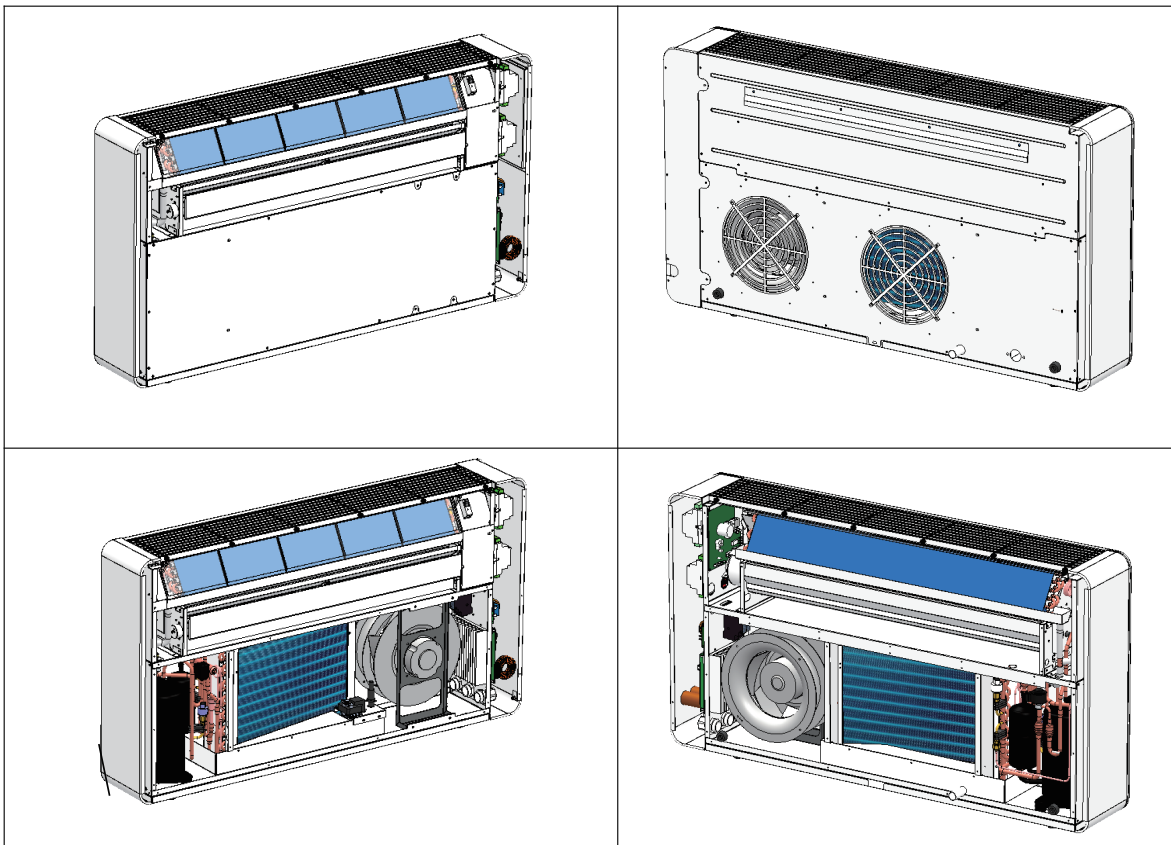
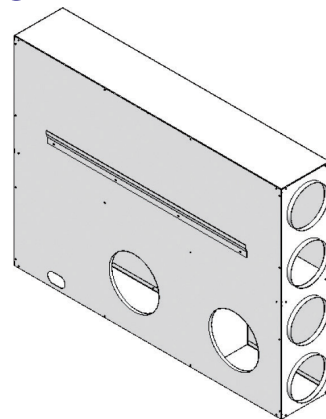
④ Rear wall vent kit



⑤ Side wall vent kit



⑥ Side back to back wall vent kit



Specifications

The total capacity and efficiency of the heat pump and the ERV cannot be used to heat/cool the room and is only shown to demonstrate the capacity and efficiency when compared to a system without an ERV. A percentage of the heat pump capacity is required to heat/cool the outdoor air, which is not recovered by the ERV.

ERV performance

General				
Flow type	counter flow enthalpy exchanger			
Material	Mold and bacteria resistant, washable polymer membrane.			
		30CFM	40CFM	80CFM
Efficiency of core in winter				
Sensible	%	81.40	77.50	72.80
Latent		68.50	62.30	56.40
Efficiency of core in summer				
Sensible	%	70.20	65.10	58.20
Latent		52.40	53.50	54.80
Filter				
Indoor air	Merv	Merv3/optional Merv13		
Outside air		Merv13		
Leakage				
Internal	W.C.	2.6% at 0.40"	2.4% at 0.40"	2.2% at 0.40"
External		2.8% at 1.0"	2.7% at 1.0"	2.5% at 1.0"

Cooling

Indoor: 80°F, W.B. 67°F; Outdoor: 95°F, W.B. 75°F

		30CFM	40CFM	80CFM
Heat pump				
Range	Btu/h	6500~12000		
Nominal		9600		
Input power	W	864		
Efficiency	EER	11.1		
	SEER	14.8		
ERV				
Sensible recovery	Btu/hr	440	700	1000
Latent recovery		300	500	660
Input power	W	24	36	70
Efficiency	EER	16.12	13.68	9.77
Combined Heat Pump + ERV				
Range	Btu/h	7240~12740	7700~13200	8160~13660
Nominal		10340	10800	11260
Input power	W	888	900	934
Efficiency	EER	11.6	12.0	12.05

Heating 47°

Indoor: 70°F, W.B. 60°F; Outdoor: 47°F, W.B. 43°F

		30CFM	40CFM	80CFM
Heat pump				
Range	Btu/hr	6760~12500		
Nominal		9400		
Input power	W	810		
Efficiency	COP	3.41		
ERV				
Recovery	Btu/hr	700	1100	1600
Input power	W	16	30	60
Efficiency	COP	12.82	10.75	7.82
Combined Heat Pump + ERV				
Range	Btu/h	7460~13200	7860~13600	8360~14100
Nominal		10100	10500	11000
Input power	W	826	840	870
Efficiency	COP	3.58	3.66	3.7

Specifications

Heating 13°F

Indoor: 70°F, W.B. 60°F; Outdoor: 13°F, W.B. 9°F

		30CFM	40CFM	80CFM
Heat pump				
Range	Btu/hr	4735~7600		
Nominal		5800		
Input power	W	750		
Efficiency	COP	2.26		
ERV				
Recovery	Btu/hr	1860	2960	4300
Input power	W	16	30	60
Efficiency	COP	34.07	28.92	21
Combined Heat Pump + ERV				
Range	Btu/h	6595~9460	7695~10560	9035~11900
Nominal		7660	8760	10100
Input power	W	766	780	810
Efficiency	COP	2.93	3.29	3.65

Fresh air Volume

Indoor	Type	ECM centrifugal
	CFM	200 - 450
	Available ESP	N/A
	Supply connection	Integrated
	Return connection	Integrated
	Speeds	High, Medium, Low and Auto
	Filter	Merv3
Fresh air intake	Type	ECM centrifugal
	CFM	30~80
	Connection	Integrated
	Speeds	High, Medium, Low and Auto
	Filter	MERV 13
Stale air intake	Type	ECM centrifugal
	CFM	30~80
	Connection	Integrated
	Speeds	High, Medium, Low and Auto
	Filter	MERV 3
outdoor	Type	ECM centrifugal
	CFM	400~650
	Available ESP	0.5
	Supply connection	8" round
	Return connection	8" round
	Speeds	Auto

Specifications

Electrical

General		220V	115V
Volt range		207~251	103~126
Hz/ phase		60/single	
Power supply		LCDI power cord	
Power factor		0.96	
Cooling (nominal)	A	5	10
Cooling (max)		5.5	11
Heating-heat pump only (nom.)		4.5	9
Heating - heat pump only (max)		5.2	10.4
Input power (standby)	W	10.8	
Input power (off mode)	W	1.7	
compressor	RLA	5.5	11
	LRA	9.3	18.6
Indoor ECM fan motor	W(max)	100	
	F.L.A	0.43	0.86
Fresh air intake ECM fan motor	W(max)	40	
	F.L.A	0.18	0.36
Stale air exhaust ECM fan motor	W(max)	0.18	
	F.L.A	41	82
outdoor ECM fan motor	W(max)	210	120
	F.L.A	0.91	5

Circuit breakers	V	220	115
MCA - heat pump only	A	10	20
Recommended breaker size		15	30
MOCP		20	40

Compressor		
Type		BLDC inverter
Refrigerant /pound	Type	R32 /1.55
Oil	OZ	21.87

Physical Data

Dimensions	With ERV	Net	49 5/16" W x 26" H x 14 13/16" D
		Gross	53 7/8" W x 29 1/16" H x 20" D
	W/O ERV	Net	49 5/16" W x 26" H x 7 13/16" D
		Gross	53" W x 29 1/16" H x 12 1/8" D
Weight	With ERV	Net	230 lbs
		Gross	240 lbs
	W/O ERV	Net	170 lbs
		Gross	180 lbs
Cabinet	Finish	RAL 9003 signal white	
	Material	Steel	

Dimensional drawings

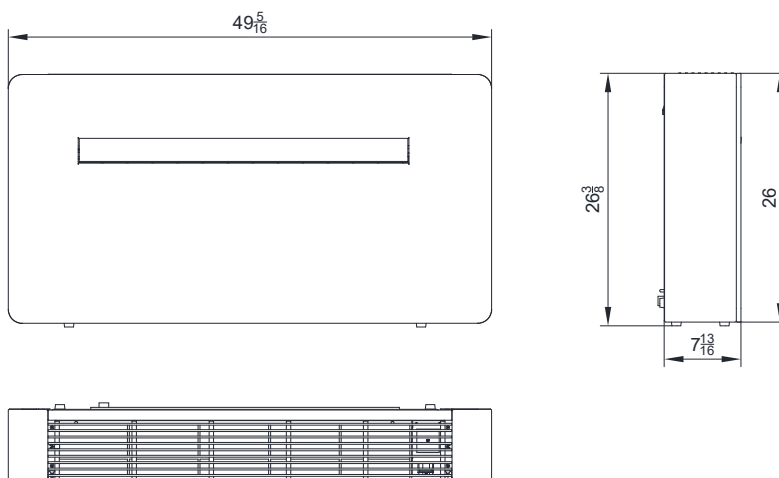
Sound Power Noise Level data

Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Power Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands								
11500	60.7	23.2	38.8	48.2	50.5	50.0	46.1	41.8	32.4	23.8
9500	56.9	19.5	34.7	46.2	47.6	46.7	41.7	36.7	27.5	29.2

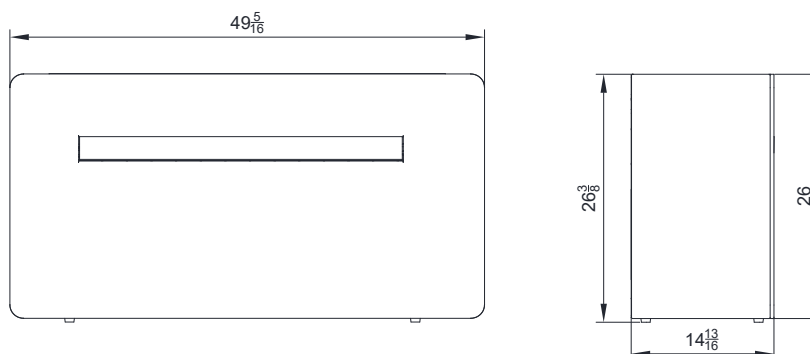
Sound Pressure Noise Level data

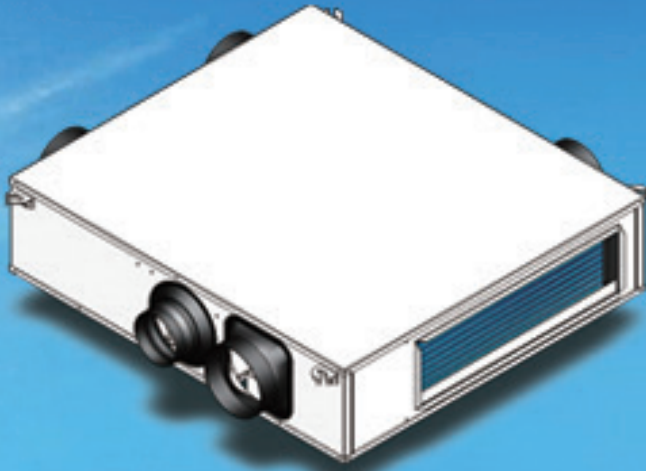
Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Pressure Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands under ESP:0.3 in.wg.								
11500	51.2	13.7	29.3	38.7	41.0	40.5	36.6	32.3	22.9	14.3
9500	47.4	10.0	25.2	36.7	38.1	37.2	32.2	27.2	18.0	19.7

MAIRHP-35 W/O ERV Dimensions



MAIRHP-35 With ERV Dimensions





CEILING DUCTED

Ceiling Ducted Overview

Ceiling Ducted can be discreetly installed above a ceiling and is ideal for single or multi-room applications. The return can be from the sides or the bottom for maximum flexibility. With up to 0.5" WC external static pressure, this unit can be used where ducting is required. Use with any interior grille and louver to provide additional design flexibility. A bathroom exhaust can connect to the dedicated stale air exhaust. Ceiling Ducted units are available with or without the integrated ERV.

- MAIRHP-35-CC
- MAIRHP-35-CC-ERV

Supply air

The rectangular 8" H x 27.6" W supply air connection is ideal for a supply grille or ducting, with up to 0.5" external static pressure (combined between return and supply).

Stale air exhaust

The six-inch round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.3" WC external static pressure. If configuring Ceiling Ducted with a bottom return, the stale air can also be pulled from the bottom return.

Outside air exhaust

The single 8" round outside air exhaust connection is for the condenser portion and the stale air exhaust. This can be ducted with up to 0.5" WC external static pressure (combined between intake and exhaust)

Return air - bottom option

The bottom 8" x 29.2" return is designed to be used with a ceiling-mounted return grille or an access panel with an integrated return grille

Return air - side options

The left and right side 8" round connection can be ducted to one or more rooms with up to 0.5" external static pressure (combined between return and supply). It can also be left open as a side plenum return. Duct both, leave both open or duct one, and leave one open to a plenum

Outside air intake

The single 8" round outside air intake connection provides air for the condenser portion and fresh air for ventilation. This can be ducted with up to 0.5" WC external static pressure (combined between intake and exhaust).

Key Features

- Compact unit
- Easy to install
- High ESP for internal and external ducting
- Electronically controlled air louver
- Bottom or sides return
- Bathroom exhaust connection
- Auto-restart
- Washable filters
- 220V /1Ph /60Hz or 115V /1Ph /60Hz
- R32 refrigerant

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

Ceiling concealed
Multiple adapter options

Air flow

Dual 8" external vents
Available 0.3" WC for internal ducting and louvers

Included controls

Remote handset
Touch electronic wall-mounted control panel

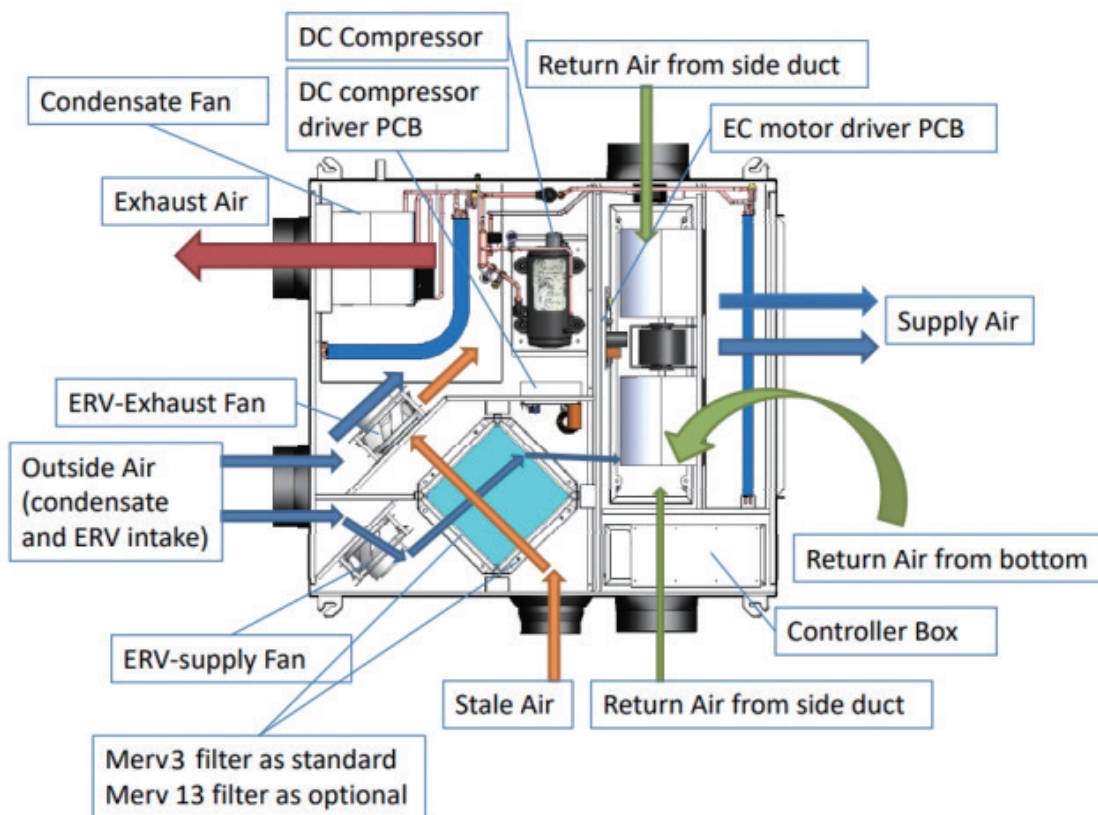


Options

- ① 900 or 1,800W electric heat
- ② With or without ERV
- ③ Smart touch electronic wall-mounted control panel with remote diagnose connected via internet
- ④ LLA Grille Kit

Optional controller

Smart touch electronic wall-mounted control panel with remote diagnose connected with via internet



Specifications

The total capacity and efficiency of the heat pump and the ERV cannot be used to heat/cool the room and is only shown to demonstrate the capacity and efficiency when compared to a system without an ERV. A percentage of the heat pump capacity is required to heat/cool the outdoor air, which is not recovered by the ERV.

ERV performance

General				
Flow type	counter flow enthalpy exchanger			
Material	Mold and bacteria resistant, washable polymer membrane.			
		45CFM	75CFM	100CFM
Efficiency of core in winter				
Sensible	%	86.7	85.2	83.1
Latent		72.5	65.1	60.3
Efficiency of core in summer				
Sensible	%	71.1	69.4	68.1
Latent		56.2	54.5	51.2
Filter				
Indoor air	Merv	Merv3/optional Merv13		
Outside air		Merv13		
Leakage				
Internal	W.C.	2.6% at 0.40"	2.4% at 0.40"	2.2% at 0.40"
External		2.8% at 1.0"	2.7% at 1.0"	2.5% at 1.0"

Cooling

Indoor: 80°F, W.B. 67°F; Outdoor: 95°F, W.B. 75°F

		45CFM	75CFM	100CFM
Heat pump				
Range	Btu/h	6500~12000		
Nominal		9600		
Input power	W	864		
Efficiency	EER	11.1		
	SEER	14.8		
ERV				
Sensible recovery	Btu/hr	755	1110	1420
Latent recovery		488	712	912
Input power	W	36	56	74
Efficiency	EER	34.5	32.53	31.53
Combined Heat Pump + ERV				
Range	Btu/h	7743~13243	8322~13822	8832~14332
Nominal		10843	11422	11932
Input power	W	900	920	938
Efficiency	EER	12.05	12.41	12.72

Heating 47°

Indoor: 70°F, W.B. 60°F; Outdoor: 47°F, W.B. 43°F

		50CFM	75CFM	100CFM
Heat pump				
Range	Btu/hr	6760~12500		
Nominal		9400		
Input power	W	810		
Efficiency	COP	3.41		
ERV				
Recovery	Btu/hr	1650	2500	3100
Input power	W	36	56	74
Efficiency	COP	13.48	13.19	12.31
Combined Heat Pump + ERV				
Range	Btu/h	8410~14150	9260~15000	9860~15600
Nominal		11050	11900	12500
Input power	W	846	866	884
Efficiency	COP	3.82	4.02	4.14

Specifications

Heating 13°F

Indoor: 70°F, W.B. 60°F; Outdoor: 13°F, W.B. 9°F

		50CFM	75CFM	100CFM
Heat pump				
Range	Btu/hr	4735~7600		
Nominal		5800		
Input power	W	750		
Efficiency	COP	2.26		
ERV				
Recovery	Btu/hr	3200	5100	6500
Input power	W	36	56	74
Efficiency	COP	26.35	26.55	25.98
Combined Heat Pump + ERV				
Range	Btu/h	7935~10800	9835~12700	11235~14100
Nominal		9000	10900	12300
Input power	W	786	806	824
Efficiency	COP	3.35	3.96	4.37

Fresh air Volume

Indoor	Type	ECM centrifugal
	CFM	300- 600
	Available ESP	0.3"WC
	Supply connection	8" H x 27.6" W
	Return connection	Two 8" round on sides or bottom 8" x 29.2"
	Speeds	High, Medium, Low and Auto
	Filter	Merv3
Fresh air intake	Type	ECM centrifugal
	CFM	40 - 100
	Speeds	High, Medium, Low and Auto
	Filter	MERV 13
Stale air intake	Type	ECM centrifugal
	CFM	40 - 100
	Connection	6.2" round
	Speeds	High, Medium, Low and Auto
	Filter	MERV 3
outdoor	Type	ECM centrifugal
	CFM	400 - 700
	Available ESP	0.5"WC
	Supply connection	8" round
	Return connection	8" round
	Speeds	Auto

Specifications

Electrical

General		220V	115V
Volt range		200~250	104~126V
Hz/ phase		60/single	
Power supply		LCDI power cord	
Power factor		0.96	
Cooling (nominal)	A	5.0	10
Cooling (max)		5.5	11
Heating-heat pump only (nom.)		4.5	9
Heating - heat pump only (max)		5.2	10.4
Input power (standby)	W	10.8	
Input power (off mode)	W	1.7	
compressor	RLA	5.5	11
	LRA	9.3	18.6
Indoor ECM fan motor	W(max)	100	
	F.L.A	0.43	0.86
Fresh air intake ECM fan motor	W(max)	40	
	F.L.A	0.18	0.36
Stale air exhaust ECM fan motor	W(max)	40	
	F.L.A	0.18	0.36
outdoor ECM fan motor	W(max)	210	
	F.L.A	0.91	1.82

Circuit breakers	V	220	115
MCA - heat pump only	A	10	20
Recommended breaker size		15	30
MOCP		20	40

Compressor		
Type		BLDC inverter
Refrigerant /pound	Type	R32 /1.55
Oil	OZ	21.8

Sound Power Noise Level data

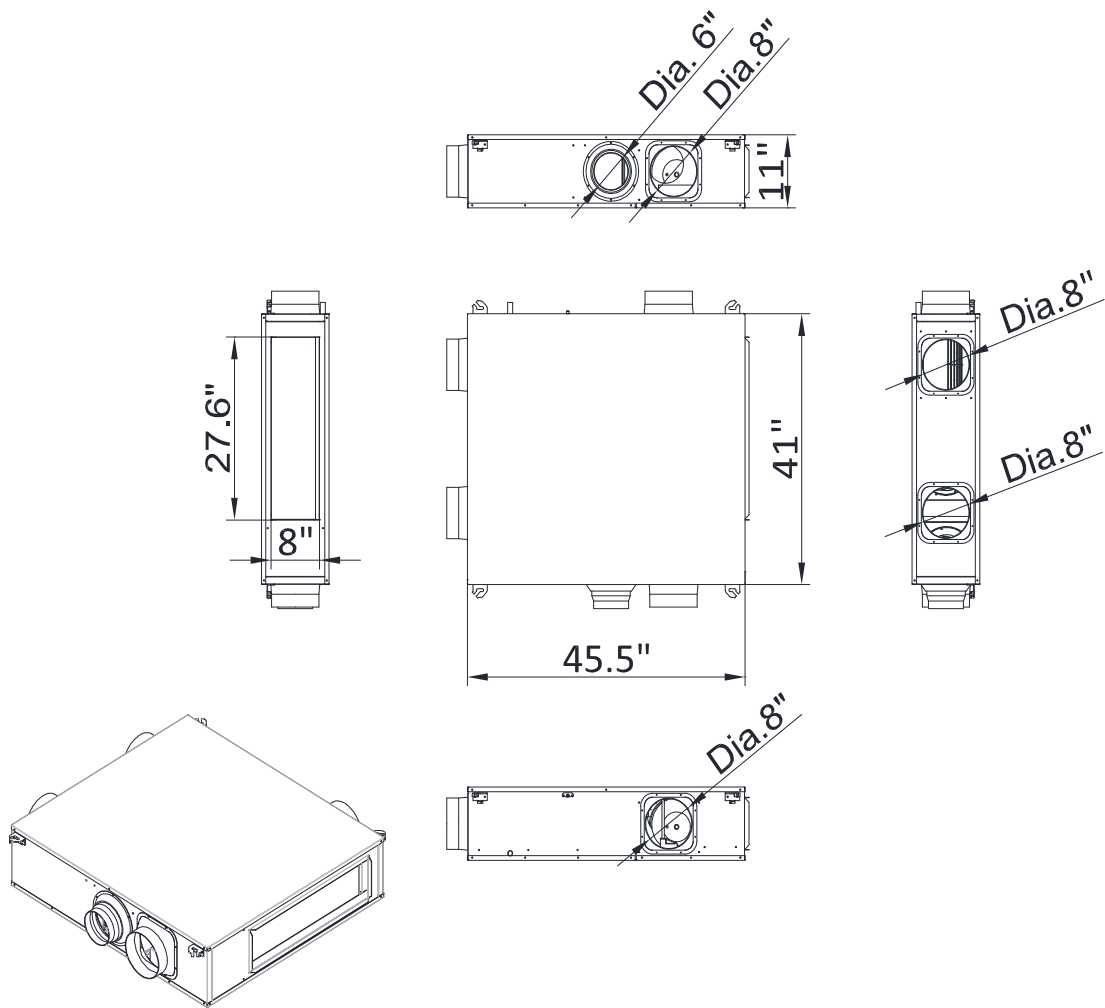
Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Power Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands								
12000	67.4	29.4	38.4	53.9	56.9	56.8	56.2	49.5	44.5	28.5
9600	57.4	41.7	32.2	44.5	48.3	48.3	44.7	36.3	32.3	21.4

Sound Pressure Noise Level data

Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Pressure Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands under ESP:0.3 in.wg.								
12000	58.4	20.4	29.4	44.9	47.9	47.8	47.2	40.5	35.5	19.5
9600	48.4	32.7	23.2	35.5	39.3	39.3	35.7	27.3	23.3	12.4

Dimensional drawings

MAIRHP-35-CC & MAIRHP-35-CC-ERV



CEILING SUSPENDED



Supply air

The supply air is through an electronically controlled louver that can be set at any angle or continuously swung.

Stale air exhaust

The six-inch round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.3" WC external static pressure. If configuring Ceiling Suspended with a bottom return, the stale air can also be pulled from the bottom return.

Outside air exhaust

The single 8" round outside air exhaust connection is for the condenser portion and the stale air exhaust. This can be ducted with up to 0.5" WC external static pressure (combined between intake and exhaust)

Return air - bottom option

The bottom 8" x 35-7/8" return is designed to be used with a ceiling-mounted return grille

Outside air intake

The single 8" round outside air intake connection provides air for the condenser portion and fresh air for the inside. This can be ducted with up to 0.5" WC external static pressure (combined between intake and exhaust).

Ceiling Suspended Overview

Ceiling Suspended unit is designed to be mounted below the ceiling. These units are ideal for retrofit applications where it is desirable to have the unit "out of reach" and when there is not enough space to locate above the ceiling. Ceiling Suspended units are suitable for dormitories, apartments, hospitality, or anywhere a ceiling-mounted unit is desired. Ceiling Suspended units are available with or without an integrated ERV and can be vented directly outside or through ductwork.

● MAIRHP-35-CS

● MAIRHP-35-CS-ERV

Key Features

Touch electronic wall-mounted control panel
Remote handset

Optional controllers

Compact unit
Easy to install
High ESP for external ducting
Electronically controlled air louver
Bottom or sides return
Bathroom exhaust connection
Auto-restart
Washable filters
220V /1Ph /60Hz or 115V /1Ph /60Hz
R32 refrigerant

Operation

Cool, heat, dehumidify, and auto
Selectable fan speeds, low, med, high and auto
Fresh air ERV - field configurable amount of fresh air

Mounting

Ceiling exposed
Multiple adapter options

Air flow

Dual 8" external vents

Included controls

Remote handset
Touch electronic wall-mounted control panel

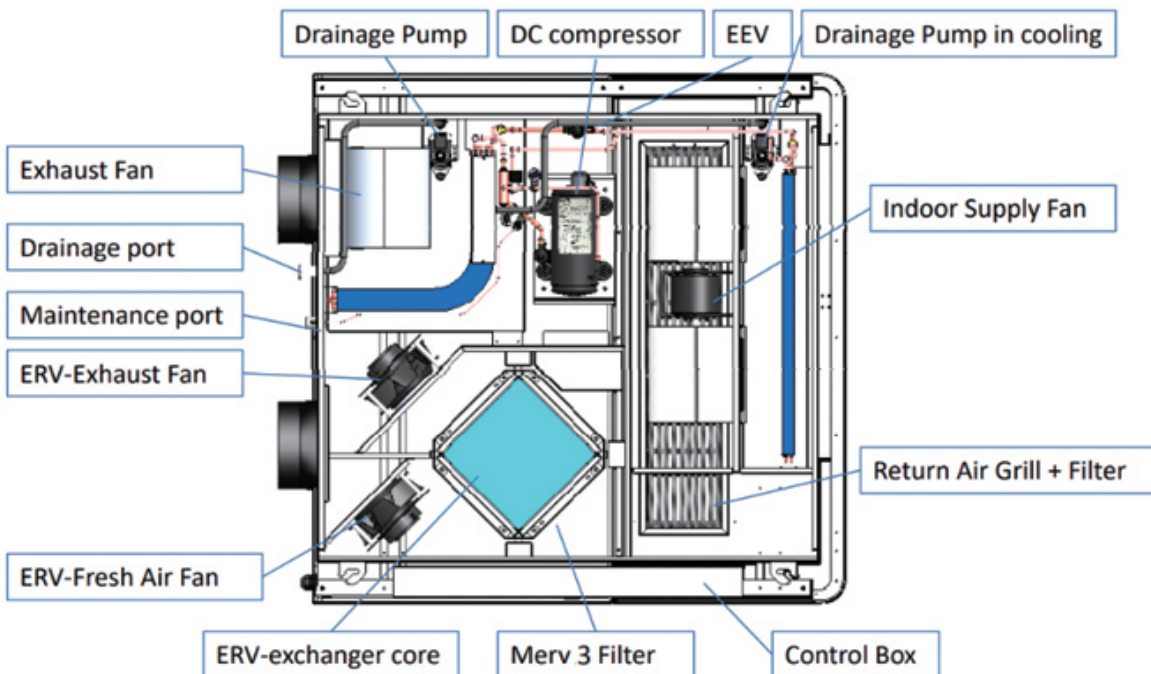


Options

- ① 900 or 1,800W electric heat
- ② With or without ERV
- ③ Smart touch electronic wall-mounted control panel with remote diagnose via internet
- ④ LLA Grille Kit

Optional controller

Smart touch electronic wall-mounted control panel with remote diagnose connected with via internet



Specifications

The total capacity and efficiency of the heat pump and the ERV cannot be used to heat/cool the room and is only shown to demonstrate the capacity and efficiency when compared to a system without an ERV. A percentage of the heat pump capacity is required to heat/cool the outdoor air, which is not recovered by the ERV.

ERV performance

General				
Flow type	counter flow enthalpy exchanger			
Material	Mold and bacteria resistant, washable polymer membrane.			
		45CFM	75CFM	100CFM
Efficiency of core in winter				
Sensible	%	86.7	85.2	83.1
Latent		72.5	65.1	60.3
Efficiency of core in summer				
Sensible	%	71.1	69.4	68.1
Latent		56.2	54.5	51.2
Filter				
Indoor air	Merv	Merv3/optional Merv13		
Outside air		Merv13		
Leakage				
Internal	W.C.	2.6% at 0.40"	2.4% at 0.40"	2.2% at 0.40"
External		2.8% at 1.0"	2.7% at 1.0"	2.5% at 1.0"

Cooling

Indoor: 80°F, W.B. 67°F; Outdoor: 95°F, W.B. 75°F

		45CFM	75CFM	100CFM
Heat pump				
Range	Btu/h	6500~12000		
Nominal		9600		
Input power	W	864		
Efficiency	EER	11.1		
	SEER	14.8		
ERV				
Sensible recovery	Btu/hr	755	1110	1420
Latent recovery		488	712	912
Input power	W	36	56	74
Efficiency	EER	34.5	32.53	31.53
Combined Heat Pump + ERV				
Range	Btu/h	7743~13243	8322~13822	8832~14332
Nominal		10843	11422	11932
Input power	W	900	920	938
Efficiency	EER	12.05	12.41	12.72

Heating 47°

Indoor: 70°F, W.B. 60°F; Outdoor: 47°F, W.B. 43°F

		50CFM	75CFM	100CFM
Heat pump				
Range	Btu/hr	6760~12500		
Nominal		9400		
Input power	W	810		
Efficiency	COP	3.41		
ERV				
Recovery	Btu/hr	1650	2500	3100
Input power	W	36	56	74
Efficiency	COP	13.48	13.19	12.31
Combined Heat Pump + ERV				
Range	Btu/h	8410~14150	9260~15000	9860~15600
Nominal		11050	11900	12500
Input power	W	846	866	884
Efficiency	COP	3.82	4.02	4.14

Specifications

Heating 13°F

Indoor: 70°F, W.B. 60°F; Outdoor: 13°F, W.B. 9°F

		50CFM	75CFM	100CFM
Heat pump				
Range	Btu/hr	4735~7600		
Nominal		5800		
Input power	W	750		
Efficiency	COP	2.26		
ERV				
Recovery	Btu/hr	3200	5100	6500
Input power	W	36	56	74
Efficiency	COP	26.35	26.55	25.98
Combined Heat Pump + ERV				
Range	Btu/h	7935~10800	9835~12700	11235~14100
Nominal		9000	10900	12300
Input power	W	786	806	824
Efficiency	COP	3.35	3.96	4.37

Fresh air Volume

Indoor	Type	ECM centrifugal
	CFM	300- 600
	Available ESP	0.3"WC
	Supply connection	8" H x 27.6" W
	Return connection	Two 8" round on sides or bottom 8" x 29.2"
	Speeds	High, Medium, Low and Auto
	Filter	Merv 3
Fresh air intake	Type	ECM centrifugal
	CFM	40 - 100
	Speeds	High, Medium, Low and Auto
	Filter	MERV 13
Stale air intake	Type	ECM centrifugal
	CFM	40 - 100
	Connection	6.2" round
	Speeds	High, Medium, Low and Auto
	Filter	MERV 3
outdoor	Type	ECM centrifugal
	CFM	400 - 700
	Available ESP	0.5"WC
	Supply connection	8" round
	Return connection	8" round
	Speeds	Auto

Specifications

Electrical

General		220V	115V
Volt range		200~250	104~126
Hz/ phase		60/single	
Power supply		LCDI power cord	
Power factor		0.96	
Cooling (nominal)	A	5.0	10.0
Cooling (max)		5.5	11.0
Heating-heat pump only (nom.)		4.5	9.0
Heating - heat pump only (max)		5.2	10.4
Input power (standby)	W	10.8	
Input power (off mode)	W	1.7	
compressor	RLA	5.5	11.0
	LRA	9.3	18.6
Indoor ECM fan motor	W(max)	100	
	F.L.A	0.43	0.86
Fresh air intake ECM fan motor	W(max)	40	
	F.L.A	0.18	0.36
Stale air exhaust ECM fan motor	W(max)	40	
	F.L.A	0.18	0.36
outdoor ECM fan motor	W(max)	210	
	F.L.A	0.91	1.82

Circuit breakers	V	220	115
MCA - heat pump only	A	10	20
Recommended breaker size		15	30
MOCP		20	40

Compressor			
Type		BLDC inverter	
Refrigerant /pound	Type	R32 /1.55	
Oil	OZ	21.8	

Sound Power Noise Level data

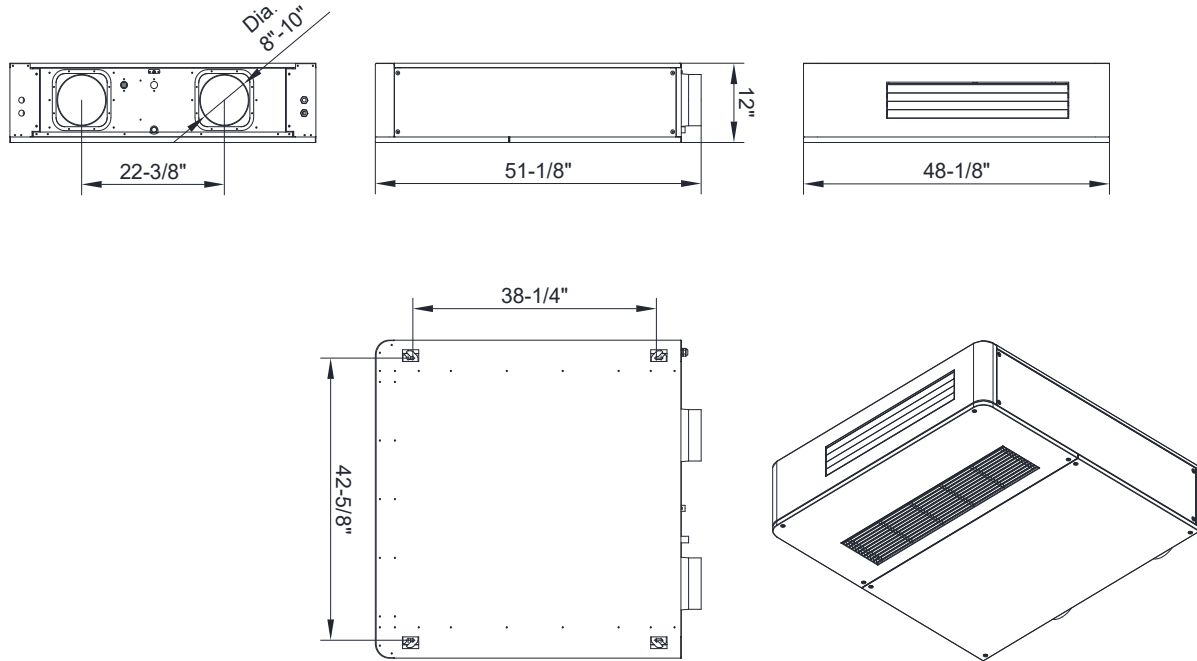
Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Power Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands								
12000	67.4	29.4	38.4	53.9	56.9	56.8	56.2	49.5	44.5	28.5
9600	57.4	41.7	32.2	44.5	48.3	48.3	44.7	36.3	32.3	21.4

Sound Pressure Noise Level data

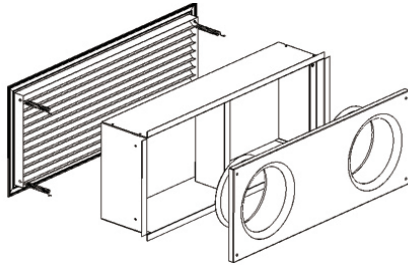
Unit Model: MAIRHP-35										
Rated Cooling Capacity	A weighted Sound Pressure Level	Octave-bands Frequency Hz								
		63	125	250	500	1K	2K	4K	8K	16K
Btu/Hr	dB(A)	Sound Power in 1/3 Octave-bands under ESP:0.3 in.wg.								
12000	58.4	20.4	29.4	44.9	47.9	47.8	47.2	40.5	35.5	19.5
9600	48.4	32.7	23.2	35.5	39.3	39.3	35.7	27.3	23.3	12.4

Specifications

MAIRHP-35-CS & MAIRHP-35-CS-ERV



LOUVERS FLANGED LOUVER ASSEMBLY



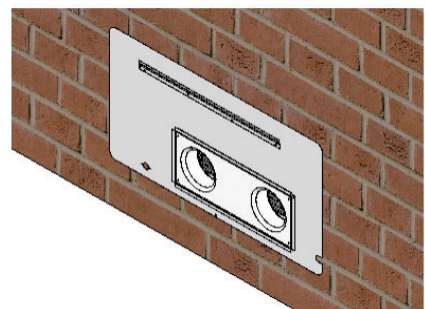
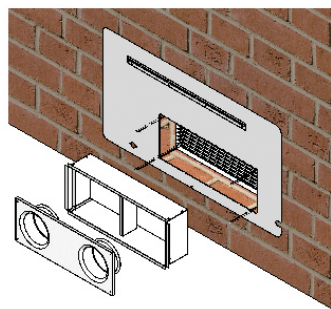
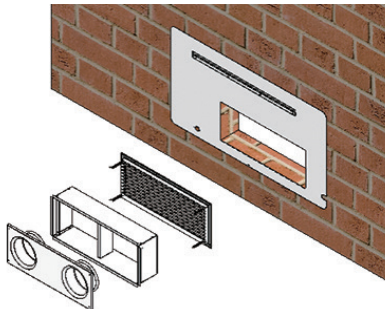
LLA-HORIZONTAL

·HORIZONTAL CONFIGURATION

Designed for use with the Inspiron Air series heat pumps, the standard flanged linear louver assembly offers clean architectural lines and excellent airflow performance. Our louvers are designed to prevent water penetration. The two-part optional assembly consisting of a plenum box and separate louver enables flexible and easy installation. Concealed screws on the side of the louver fasten to the plenum box, so no screws mar the front. Louver assembly can be finished in any custom color.

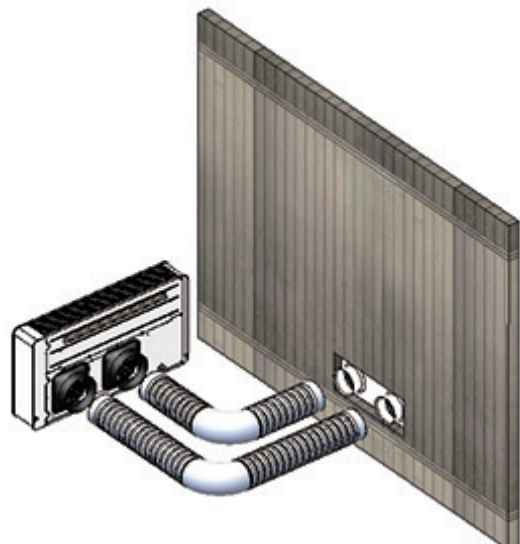
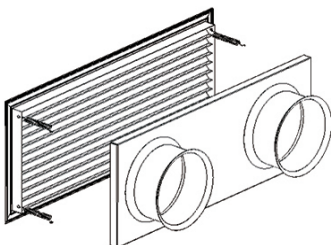
INSTALLING LLA GRILLE

- There are 3 parts to the LLA grill kit
- Put the intake grill through rectangular hole
- Connect 4-springs on the grill to middle part
- Using 4-screw connecting 2-round flanges with middle part



INSTALL UNIT WITH FLEXIBLE HOLES

- There are two parts for dual ducts
- Put the intake grill through rectangular hole
- Connecting 4-springs on the grill with 2-round flange
- Connection dual ducts with flexible ducting less than 3m (9.8 feet)





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MULTI MFG