

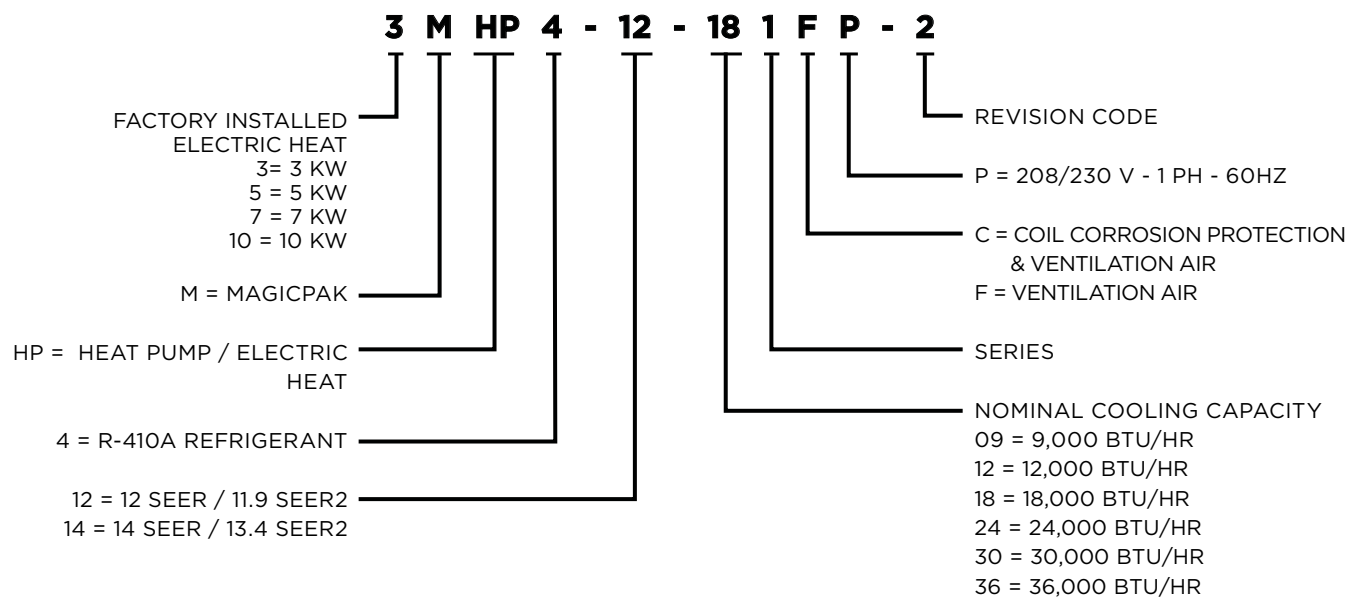
HEAT PUMP /
ELECTRIC HEAT
PACKAGED UNIT



FORM NO. MHP4-100 (10/2022)



MODEL NUMBER GUIDE



* Check that equipment complies with all applicable building codes, laws, and regulations for its intended use prior to installation.

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APPLICATIONS

- MagicPak units are designed for use in all multifamily applications, such as: apartments, condominiums, student housing and senior living
- Installation in conditioned and non-conditioned mechanical spaces

UNIT APPROVALS

ETL (INTERTEK)

- Design certified by ETL (Intertek) to latest edition of UL 1995
- Certified for the U.S. and Canada
- Certified for less than 1.4% cabinet air leakage using ASHRAE Standard 193
- Factory-installed electric heaters are ETL listed for the U.S. and Canada
- Rated with a 5kA Short Circuit Current Rating (SCCR) in accordance with RMS Symmetrical per UL 508A
- Refer to Unit Electrical and Physical Data table for additional details

AHRI/DOE

- Certified to AHRI Standard 210/240-2008; refer to the AHRI Directory for AHRI certificates
- Rated and tested in accordance with DOE test procedures (latest edition) and Federal Trade Commission (FTC) labeling regulations

CORROSION PROTECTION

- Epoxy coating is specifically designed for use on HVAC type coils and demonstrates 6800+ hours of Sea Water Acetic Acid Testing (SWAAT) per ASTM G85:A3

SOUND RATING

- Outdoor sound level measurements tested per ANSI/AHRI Standard 270
- Refer to Outdoor Sound Rating & Cabinet Air Leakage table for additional details

ALUMINUM LOUVER - PAINT SPECS

- Standard and impact-resistant louvers meet AAMA 2605 specifications

WARRANTY

COMPRESSOR

- Five (5) years limited parts warranty

ALL OTHER COVERED COMPONENTS

- Refer to Equipment Limited Warranty for additional details

STANDARD FEATURES

AIRFLOW CHOICE

- Factory shipped ready for top supply and return duct connections
- Return air may be brought in through the optional front return opening
NOTE: If ductwork is attached to the optional front return opening, provisions to service unit filter must be provided
NOTE: Filter may need to be relocated to a suitable location outside the cabinet for ease of service
- Ducted or free/non ducted return configuration, which may utilize the top or front as return points
- Front access panel doubles as cover for top return (except 3.0 ton)

ELECTRICAL CONNECTIONS & GAUGE PORTS

- Line voltage knockouts (two concentric) to accommodate field required wire size
- Thermostat connections are located at the top of the cabinet
- Two gauge ports are located within the lower compartment of the unit
- Refer to Unit Dimension figure for additional details

CABINET

- Embossed galvanized steel cabinet
- Indoor section of the cabinet insulated with 0.5 in. dual density fiberglass insulation
- Outdoor section of the cabinet insulated with 0.5 in. weather-resistant polystyrene insulation

INTERNAL FILTER

- Tool-less filter access
- Factory-installed 1 in. filter rack with washable filter
- Field-supplied filters up to MERV 6 can typically be installed in the filter slot internal to unit in lieu of washable filter, when proper duct design is applied
- If a higher resistance filter is field installed in the unit, the added resistance must be included in the external static pressure and must not exceed 0.5 in. w.c. including ductwork
- Refer to Factory Filter Size and Pressure Drop and Blower Performance tables for additional details

VENTILATION AIR

- Units are outfitted with ventilation air openings and are shipped with the openings sealed
- Refer to Ventilation Air Capability table and Optional Field-Installed Accessories section for additional details
- Check that equipment complies with all applicable building codes, laws, and regulations for its intended use prior to installation

REFRIGERATION SYSTEM

- Factory charged with R-410A refrigerant
- Factory sealed and tested
- Refer to Unit Electrical and Physical Data table for additional details

Indoor and Outdoor Coils

- Copper tube with aluminum fin coils

High Pressure Switch

- Shuts off unit if abnormal operating conditions cause the refrigerant discharge pressure to rise above acceptable levels

Low Pressure Switch

- Provides loss of charge protection by shutting off unit if refrigerant liquid pressure falls below acceptable levels

Reversing Valve

- Reverses the direction of refrigerant flow within the unit's refrigeration circuit, to change between cooling and heating operation
- Reverses refrigerant flow direction during heat pump defrost cycles to clear outdoor coil of frost buildup

Defrost Control

- Factory mounted sensor determines when defrost cycle starts and ends
- Anti-short cycle, timed-off control (field-adjustable to 30-90 minutes) is incorporated in the control board
- The time between defrost cycles is preset at 90-minute intervals at the factory, but can be field adjusted to 30 or 60 minutes

Low Ambient Operation

- Units are not equipped with low ambient compressor cutoffs and can be safely operated to -5°F outdoor ambient temperatures
- Refer to Extended Heating Performance Data tables for performance data starting at 0°F outdoor ambient temperature

TRANSFORMER

- Rated for 40VA
- Factory wired for 230/240V power supply, and includes field selectable terminal for 208V
- Converts line voltage to 24V for the thermostat and control circuits within the unit

SUPPLY AIR BLOWER**Constant Torque ECM Blower Motor**

- Motor provides specified air volume at 0.1 in. - 0.5 in. w.c. external static pressure
- Blower assembly is easily removed for servicing
- Refer to Blower Performance tables for additional details

Electronic Blower Control

- Dedicated blower speed taps for continuous fan, cooling, and heating operation are programmed for optimal airflow and controlled by 24V thermostat signals
- Blower speed adjustment is easily accomplished by speed tap selection
- Fixed blower delays have been selected to enhance comfort
- Refer to Blower Performance tables for additional details

OUTDOOR FAN

- Heavy duty, fully enclosed and weatherproof
- Aluminum fan blades

CONDENSATE MANAGEMENT**Primary Drain Pan**

- Antimicrobial protection: drain pan is injected with an antibacterial agent that destabilizes the membrane of microorganism cells, disrupting the cellular function of odor-causing mold and bacteria so that they can no longer grow or reproduce

Overflow Protection

- Indoor drain pan overflow switch monitors the condensate level in primary drain pan
- Prevents unit from running if water is sensed

Secondary Drain Pan

- Polypropylene wall sleeve base is specifically designed to direct rain water out of the building and in the event of any restriction in the primary drain will act as a redundant overflow protection

OPTIONS & ACCESSORIES**FACTORY-INSTALLED OPTIONS****ELECTRIC HEAT**

- Mounted internal to unit cabinet
- Multiple kW sizes available; must specify the electric heating element size (3kW to 10kW)
- Optional two stage electric heat wiring on 7 & 10kW. In order to utilize this option, it will require a thermostat with single stage cooling and two stage heating
- Compatible with 208V, 230V and 240V
- Helix wound nichrome heating elements exposed directly into the air stream resulting in instant heat transfer and low element temperatures
- Cutoff limit control provides positive protection in case of excessive temperatures
- Refer to Rated Cooling & Heating Performance table for additional details

CORROSION PROTECTION

- Epoxy coated indoor and outdoor coils

FIELD-INSTALLED ACCESSORIES

WALL SLEEVES & LOUVERS

- Units must be installed with approved wall sleeve and louver accessories for safe operation and are required for all installations
- Larger height wall sleeves may be used on smaller tonnage equipment to maintain a uniform wall opening on the building façade
- Refer to Wall Sleeves and Louvers table for additional details

WALL SLEEVES (ASLEEVE)

- Penetrates the building envelope and creates a path for condenser air intake and exhaust
- Provides a sealed connection to the unit and a secure attachment foundation for the louvers
- Available in 6 in. to 12 in. depths

WALL SLEEVE EXTENSION (ASLEEVEEXT4)

- Provides an additional 4 in. of depth to the wall sleeve, for a maximum depth of 16 in.

LOUVERS

Polypropylene Louvers (ALVRP)

- Constructed from durable, corrosion-resistant plastic
- Available in four standard colors

Aluminum Louvers (ALVRAL)

- Constructed with 6063-T6 grade aluminum
- Available in anodized clear coat, primer (to be painted in the field), standard paint colors and custom colors with paint matching*

Impact-Resistant Aluminum Louvers (ALVRALC)

- Impact and wind load certified up to 186 MPH, risk categories III and IV, and wind exposures C and D
 - ALVRALC-1 & ALVRALC-2: FBC Notice of Acceptance (NOA) 20-0909.03
 - ALVRALC-3, -4 & -7: FBC Notice of Acceptance (NOA) 21-1216.11
- Constructed with 6063-T6 grade aluminum
- Available in anodized clear coat, primer (to be painted in the field), standard paint colors and custom colors with paint matching*

CRANKCASE HEATER (ACASE841)

- Warms compressor crankcase to limit migration of liquid refrigerant back to compressor during off cycle
- Available for models with scroll compressors
- Refer to Crankcase Heater table for additional details

SHORT CIRCUIT CURRENT RATING KIT (ASCCR)

- Provides 200kA of SCCR protection
- Refer to SCCR Accessory table for additional details

FILTERS

- Field-supplied filters up to MERV 6 can typically be installed in the filter slot internal to unit

NOTE: Use of paper frame **not** recommended

VENTILATION DAMPERS

- Check that the equipment complies with all applicable building codes, laws, and regulations for its intended use prior to installation

Motorized Damper w/ Controller (AVADAMP1)

- Utilizes a ventilation air control module that is field programmable to assist with meeting ASHRAE 62.2 requirements
- Once programmed with values for ventilation air amounts, the control module opens the damper in response to thermostat inputs and monitors the run time
- Upon meeting the ventilation air needs, the control module will close the damper until the start of the next cycle
- If, during an observation period it is determined that thermostat operation alone may not provide the desired ventilation air, the control module can independently operate the unit's indoor blower, in continuous fan mode, and open the damper to aid in providing ventilation air needs

Motorized Damper w/ Field-Supplied Relay (AVADAMP2)

- Opens ventilation air damper during indoor blower operation and closes during blower off periods
- Requires field-supplied and installed current sensing relay to detect indoor blower operation

THERMOSTAT

- Required for all installations (field-supplied)
- Units are individually controlled with conventional 24V thermostat
- Thermostat must be capable of:
 - Single stage cooling, single stage heat pump operation (compressor heating), and single stage electric heat (3 and 5 kW)
 - Single stage cooling, single stage heat pump operation (compressor heating), and two stage electric heat (7 and 10 kW)
- Refer to Unit Electrical and Physical Data table for additional details

* Certain exclusions apply. Refer to louver manufacturer's literature and warranty documentation.

UNIT ELECTRICAL AND PHYSICAL DATA (208/230 Volt - 1 Phase - 60HZ)¹

Model	MCA ²				MOCP ³				Default SCCR (kA) ⁴	Compressor		Outdoor Fan				Indoor Blower			R-410A Refrigerant Charge (oz)	Approx. Shipping Weight (lbs)
	Circuit 1 ⁵		Circuit 2 ⁵		Circuit 1 ⁵		Circuit 2 ⁵			Rated Load Amps (RLA)	Locked Rotor Amps (LRA)	Dia. (in)	Nominal RPM	Rated Load Amps (RLA)	Rated HP	Wheel D x W (in.)	Rated Load Amps (RLA)	Rated HP		
	208V	230V	208V	230V	208V	230V	208V	230V												
3MHP4-12-091*P	23.0	25.5	---	---	25	30	---	---	5	4.4	21	16	1100	0.9	1/8	9 x 6	0.4	1/3	44	192
5MHP4-12-091*P	28.4	31.8	---	---	30	35	---	---												
3MHP4-12-121*P	24.2	26.7	---	---	25	30	---	---	5	5.1	27	16	1125	0.9	1/8	9 x 6	0.6	1/3	44	202
5MHP4-12-121*P	29.6	32.9	---	---	30	35	---	---												
3MHP4-12-181*P	26.6	29.1	---	---	30	30	---	---	5	6.7	37.5	16	1125	0.9	1/8	9 x 6	1	1/3	70	219
5MHP4-12-181*P	32.0	35.3	---	---	35	40	---	---												
7MHP4-12-181*P	42.8	47.8	---	---	45	50	---	---												
10MHP4-12-181*P	10.3	10.3	43.3	50.0	15	15	45	50												
5MHP4-12-241*P	37.4	40.8	---	---	40	45	---	---	5	10	52	18	1100	1.6	1/4	9 x 6	1.6	1/3	83	268
7MHP4-12-241*P	48.3	53.3	---	---	50	60	---	---												
10MHP4-12-241*P	15.8	15.8	43.3	50.0	25	25	45	50												
5MHP4-12-301*P	41.9	45.2	---	---	50	50	---	---	5	13.4	72.5	18	1100	1.6	1/4	10 x 8	1.8	1/2	78	271
7MHP4-12-301*P	20.2	20.2	32.5	37.5	30	30	35	40												
10MHP4-12-301*P	20.2	20.2	43.3	50.0	30	30	45	50												
5MHP4-14-361*P	45.6	48.9	---	---	50	50	---	---	5	14.7	75	18	1060	2.8	1/3	10 x 8	2.8	1/2	91	299
7MHP4-14-361*P	23.9	23.9	32.5	37.5	35	35	35	40												
10MHP4-14-361*P	23.9	23.9	43.3	50.0	35	35	45	50												

¹ Acceptable voltage range 197 - 253V² MCA = Minimum Circuit Ampacity³ MOCP = Maximum Over Current Protection⁴ SCCR = Short Circuit Current Rating; refer to SCCR Accessory table, up to 200kA⁵ Circuits 1 and 2 are independent sets of power wires being run to the unit, each backed by an independent circuit breaker. Units with dual circuits use Circuit 2 exclusively to power electric heaters. Refer to wiring diagram for additional details.

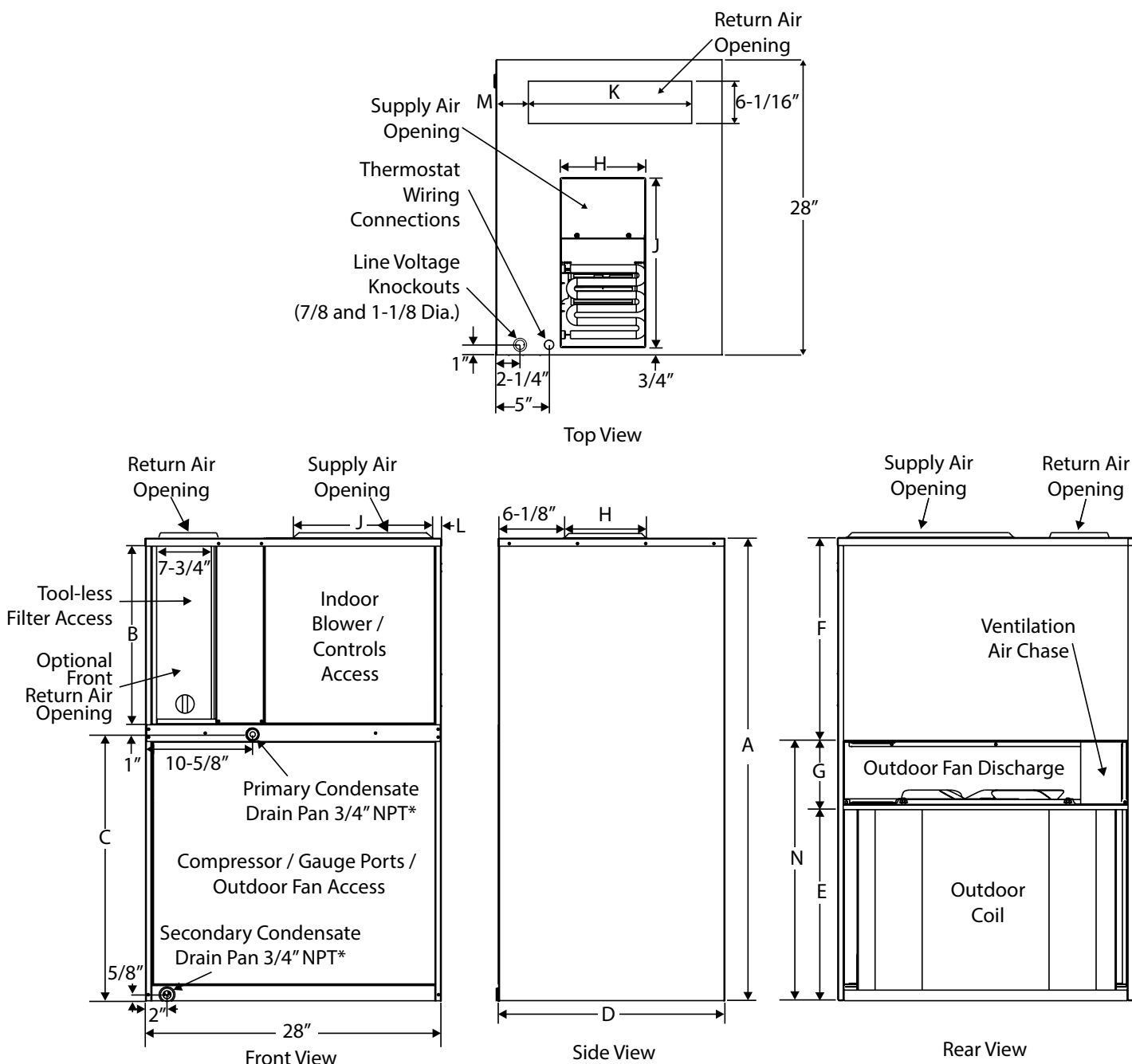
NOTE: Units are rated at 208/230V, but MOCP & MCA values are calculated at 240V

NOTE: The 7.2 and 10 kW heats strips offer a W1 and W2 thermostat connection. Taking advantage of the two heat strip circuits requires a 3-stage thermostat (Y for heat pump, W1 for electric heat stage 1, and W2 for electric heat stage 2). If a 2-stage thermostat is used, "pigtail" W1 and W2 wires together when connecting the thermostat wires at the unit.

UNIT DIMENSIONS (IN.)

Model	A	B*	C	D	E	F	G	H	J	K	L	M	N
*MHP4-12-091*P *MHP4-12-121*P	43-7/8	16-7/8	25-1/4	21-1/2	18-5/8	19-1/4	6	8	16	17-1/16	3/4	2-1/4	24-5/8
*MHP4-12-181*P	47-7/8	18-7/8	27-1/4	21-1/2	20-5/8	21-1/4	6	8	16	17-1/16	3/4	2-1/4	26-5/8
*MHP4-12-241*P	55-7/8	22-7/8	31-1/4	24-3/8	24-5/8	25-1/4	6	8	16	22-7/16	3/4	1	30-5/8
*MHP4-12-301*P	55-7/8	22-7/8	31-1/4	24-3/8	24-5/8	25-1/4	6	11-3/8	10-7/16	22-7/16	3-3/4	1	30-5/8
*MHP4-14-361*P	67-7/8	26-7/8	35-1/4	24-3/8	28-5/8	29-1/4	10	11-3/8	10-7/16	22-7/16	3-3/4	1	38-5/8

* Dimension B represents the height of the optional front return air duct opening



* Provisions must be made to properly drain condensate from the primary and secondary drain pans.

MINIMUM CLEARANCES

Accessibility Clearances

The front of the unit must be accessible for service. A minimum clearance of 30" in front of unit is required for service.

If the unit is enclosed, a door or access panel aligned with the front of the unit is the preferred method of providing access. The door or access panel opening must be a minimum of 30" wide (centered on the unit) and be as tall as the unit.

IMPORTANT

The unit must be installed with approved wall sleeve and louver accessories for safe operation. Improper installations could result in property damage, personal injury, or death.

Supply Duct Clearances

Minimum Clearances to Combustible Materials ¹		
Front	Sides	Top
0"	0"	0"

¹ Accessibility clearances take precedence

Unit Clearances

Return Duct Configuration	Unit Height	Minimum Clearances ¹	
		Front	Sides ³
Ducted Top Opening	All	See Note 2	1"
Ducted Front Opening ⁵	All	See Note 2 & 4	1"
Non-Ducted/ Free Return	43"	4"	1"
	48" - 68"	5"	1"

¹ Accessibility clearances take precedence

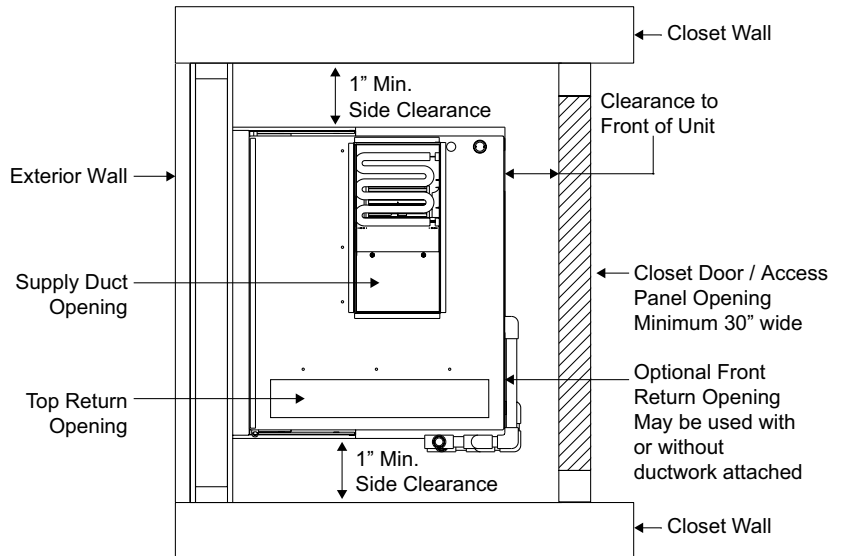
² Clearance must accommodate field-installed condensate drain line / drain trap

³ Additional clearance required if field-installed condensate drain line/drain trap is routed alongside unit

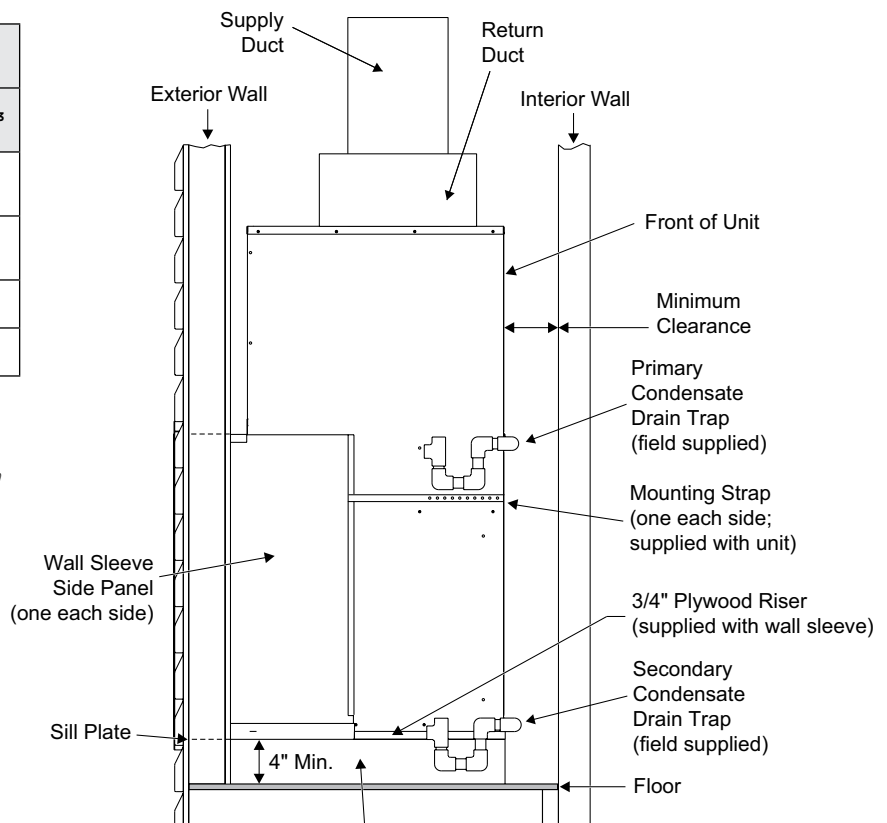
⁴ Consult local codes for other clearance requirements

⁵ If ductwork is attached to the optional front return opening, provisions to service unit filter must be provided

Top View



Side View



Platform (field supplied) - Unit must be supported by platform, which must be level with sill plate of opening in exterior wall.

OUTDOOR SOUND RATING & CABINET AIR LEAKAGE

Model	Outdoor Sound Rating (dBA) ¹	Cabinet Air Leakage (%) ²
*MHP4-12-091*P	73	1.4
*MHP4-12-121*P	73	1.4
*MHP4-12-181*P	73	1.4
*MHP4-12-241*P	79	1.4
*MHP4-12-301*P	79	1.4
*MHP4-14-361*P	79	1.4

¹ Per ANSI / AHRI Standard 270

² Per ASHRAE Standard 193

FACTORY FILTER SIZE (IN.) AND PRESSURE DROP (IN. W.C.)

Model	Filter Size	Supply Airflow (CFM)											
		200	300	400	500	600	700	800	900	1000	1100	1200	1300
*MHP4-12-091*P *MHP4-12-121*P	18 x 20 x 1	0.01	0.01	0.01	0.02	0.03	0.04	---	---	---	---	---	---
*MHP4-12-181*P	20 x 20 x 1	---	0.01	0.01	0.02	0.02	0.03	0.04	---	---	---	---	---
*MHP4-12-241*P *MHP4-12-301*P	24 x 22 x 1	---	---	---	0.01	0.01	0.02	0.03	0.03	0.04	0.05	---	---
*MHP4-14-361*P	28 x 22 x 1	---	---	---	---	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04

Performance based on factory-provided washable filter installed in the unit. If a higher resistance filter is field installed in the unit, the added resistance must be included in the external static pressure and must not exceed 0.5 in. w.c. including ductwork.

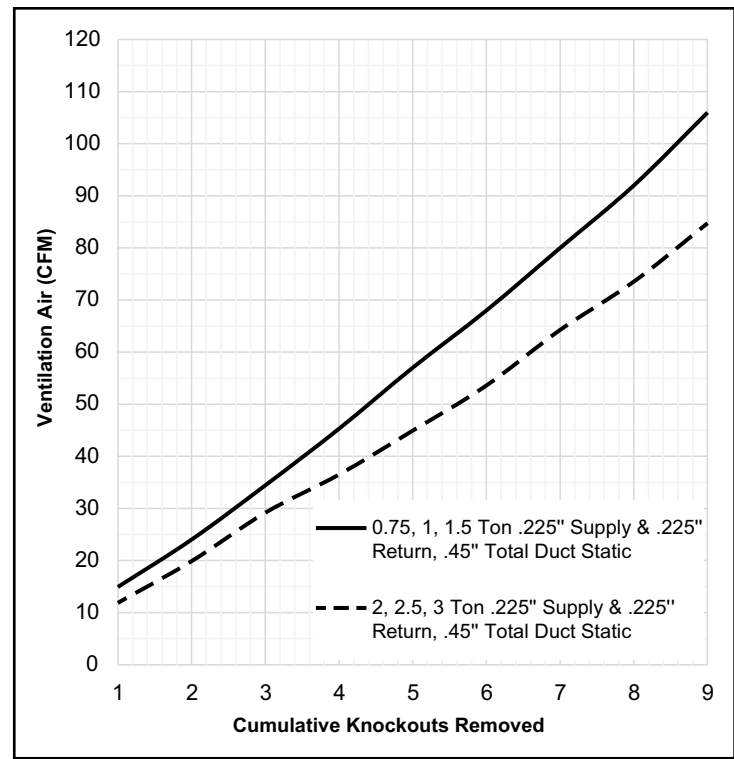
VENTILATION AIR CAPABILITY

Chart and figure below show the amount of ventilation air as a function of unit tonnage and total External Static Pressure (supply and return).

Ventilation Air (CFM) *						
	Cumulative Knockouts Removed	Total External Static Pressure (supply + return) **				
		0.1	0.2	0.3	0.4	0.5
0.75, 1.0, 1.5 TON	# 1 Only	7	9	12	15	18
	#1 thru #2	10	15	20	24	28
	#1 thru #3	12	18	25	32	38
	#1 thru #4	18	28	36	45	54
	#1 thru #5	23	35	46	57	69
	#1 thru #6	27	41	54	67	80
	#1 thru #7	32	48	63	78	93
	#1 thru #8	37	55	73	90	107
	#1 thru #9	41	61	80	100	118
2.0, 2.5, 3.0 TON	# 1 Only	21	20	19	17	16
	#1 thru #2	28	27	25	24	22
	#1 thru #3	35	33	32	30	28
	#1 thru #4	45	42	40	38	35
	#1 thru #5	55	52	49	46	43
	#1 thru #6	66	62	59	55	52
	#1 thru #7	79	75	71	66	62
	#1 thru #8	91	86	81	76	71
	#1 thru #9	105	99	94	88	82

* Assumes proper speed tap adjustments to maintain nominal supply air CFM

** Assumes equal supply and return static pressures



WALL SLEEVES & LOUVERS

Wall Sleeves		Louvers			Model						Dimensions (in.)			
											Wall Sleeve	Wall Opening		
Wall Sleeve	Wall Sleeve Extension	Polypropylene Louvers	Aluminum Louvers	Impact Louvers	*MHP4-12-091*P	*MHP4-12-121*P	*MHP4-12-181*P	*MHP4-12-241*P	*MHP4-12-301*P	*MHP4-14-361*P	Height (A)	Height (B)	Depth (C)	
													Sleeve Only	Sleeve Plus Extension
ASLEEVE6-1	---	ALVRP***-1	ALVRAL-1^	ALVRALC-1^	●	●	●				29	29-1/8	6	---
ASLEEVE8-1	---	ALVRP***-1	ALVRAL-1^	ALVRALC-1^	●	●	●				29	29-1/8	8	---
ASLEEVE10-1	ASLEEVEEXT4-1	ALVRP***-1	ALVRAL-1^	ALVRALC-1^	●	●	●				29	29-1/8	10	14
ASLEEVE12-1	ASLEEVEEXT4-1	ALVRP***-1	ALVRAL-1^	ALVRALC-1^	●	●	●				29	29-1/8	12	16
ASLEEVE6-2	---	ALVRP***-2	ALVRAL-2^	ALVRALC-2^				●	●		32-3/4	32-7/8	6	---
ASLEEVE8-2	---	ALVRP***-2	ALVRAL-2^	ALVRALC-2^				●	●		32-3/4	32-7/8	8	---
ASLEEVE10-2	ASLEEVEEXT4-2	ALVRP***-2	ALVRAL-2^	ALVRALC-2^				●	●		32-3/4	32-7/8	10	14
ASLEEVE12-2	ASLEEVEEXT4-2	ALVRP***-2	ALVRAL-2^	ALVRALC-2^				●	●		32-3/4	32-7/8	12	16
ASLEEVE6-2	---	ALVRP***-2	ALVRAL-7^	ALVRALC-7^	○	○	○				32-3/4	32-7/8	6	---
ASLEEVE8-2	---	ALVRP***-2	ALVRAL-7^	ALVRALC-7^	○	○	○				32-3/4	32-7/8	8	---
ASLEEVE10-2	ASLEEVEEXT4-2	ALVRP***-2	ALVRAL-7^	ALVRALC-7^	○	○	○				32-3/4	32-7/8	10	14
ASLEEVE12-2	ASLEEVEEXT4-2	ALVRP***-2	ALVRAL-7^	ALVRALC-7^	○	○	○				32-3/4	32-7/8	12	16
ASLEEVE6-5	---	ALVRP***-3	---	---	○	○	○	○	○	●	45	45-1/8	6	---
ASLEEVE8-5	---	ALVRP***-3	---	---	○	○	○	○	○	●	45	45-1/8	8	---
ASLEEVE10-5	ASLEEVEEXT4-3	ALVRP***-3	---	---	○	○	○	○	○	●	45	45-1/8	10	14
ASLEEVE12-5	ASLEEVEEXT4-3	ALVRP***-3	---	---	○	○	○	○	○	●	45	45-1/8	12	16
ASLEEVE6-5	---	---	ALVRAL-3^	ALVRALC-3^	○	○	○				45	45-1/8	6	---
ASLEEVE8-5	---	---	ALVRAL-3^	ALVRALC-3^	○	○	○				45	45-1/8	8	---
ASLEEVE10-5	ASLEEVEEXT4-3	---	ALVRAL-3^	ALVRALC-3^	○	○	○				45	45-1/8	10	14
ASLEEVE12-5	ASLEEVEEXT4-3	---	ALVRAL-3^	ALVRALC-3^	○	○	○				45	45-1/8	12	16
ASLEEVE6-5	---	---	ALVRAL-4^	ALVRALC-4^				○	○	●	45	45-1/8	6	---
ASLEEVE8-5	---	---	ALVRAL-4^	ALVRALC-4^				○	○	●	45	45-1/8	8	---
ASLEEVE10-5	ASLEEVEEXT4-3	---	ALVRAL-4^	ALVRALC-4^				○	○	●	45	45-1/8	10	14
ASLEEVE12-5	ASLEEVEEXT4-3	---	ALVRAL-4^	ALVRALC-4^				○	○	●	45	45-1/8	12	16

Note: Wall Sleeve and Louver size must be coordinated

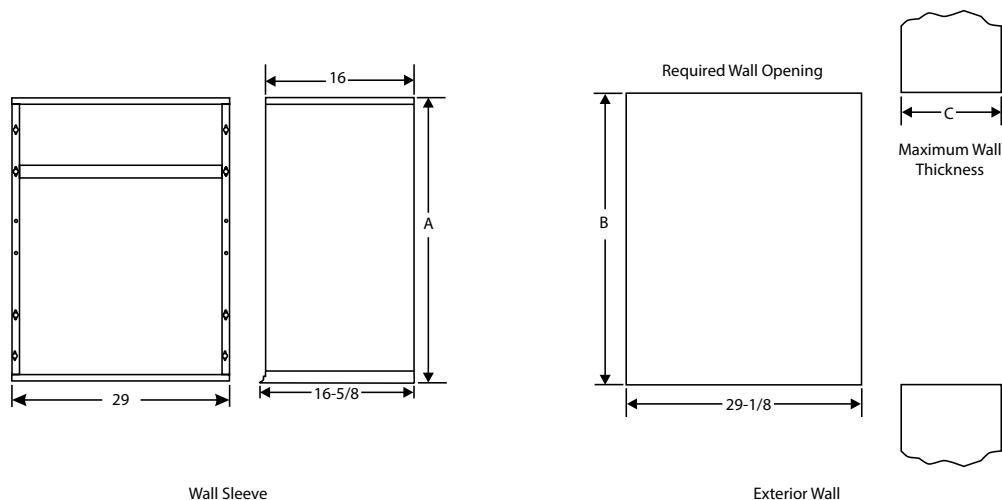
*** Louver colors: WHT = white, SAN = sandstone, BGE = beige, TPST = taupestone

^ -P: Option to paint standard, aluminum, and impact-resistant louver

• Wall sleeve and louver sizes equal to the required wall opening dimensions for the unit size

◦ Optional: Wall sleeves and louvers can be oversized to maintain a uniform appearance

WALL SLEEVE & WALL OPENING DIMENSIONS (IN.)



SCCR ACCESSORY

Model	Kit ¹
3MHP4-12-091*P	ASCCR2
5MHP4-12-091*P	ASCCR3
3MHP4-12-121*P	ASCCR2
5MHP4-12-121*P	ASCCR3
3MHP4-12-181*P	ASCCR2
5MHP4-12-181*P	ASCCR3
7MHP4-12-181*P	ASCCR4
10MHP4-12-181*P	ASCCR6
5MHP4-12-241*P	ASCCR4
7MHP4-12-241*P	ASCCR5
10MHP4-12-241*P	ASCCR7
5MHP4-12-301*P	ASCCR4
7MHP4-12-301*P	ASCCR8
10MHP4-12-301*P	ASCCR7
5MHP4-14-361*P	ASCCR4
7MHP4-14-361*P	ASCCR9
10MHP4-14-361*P	ASCCR10

¹ Per UL 508A, 200kA RMS Symmetrical

CRANKCASE HEATER

Model	Kit
*MHP4-12-091*P	N/A
*MHP4-12-121*P	
*MHP4-12-181*P	
*MHP4-12-241*P	ACASE841
*MHP4-12-301*P	
*MHP4-14-361*P	

RATED COOLING & HEATING PERFORMANCE

Model	Cooling				Heating		Electric Heat					
	Net Capacity (Btu/hr)	Efficiency		S/T [^]	47°F		240V		230V		208V	
		SEER / EER	SEER2 / EER2		Net Capacity (Btu/hr)	Efficiency (HSPF / HSPF2)	kW	BTU/hr	kW	BTU/hr	kW	BTU/hr
3MHP4-12-091*P	8,600 / 8,600	12.0 / 11.0	11.9 / 10.5	0.79	8,600	7.4 / 6.3	3.60	12,284	3.31	11,281	2.70	9,226
5MHP4-12-091*P							4.80	16,378	4.41	15,042	3.61	12,302
3MHP4-12-121*P	12,000 / 12,000	12.5 / 11.0	11.9 / 10.5	0.79	11,400	7.4 / 6.3	3.60	12,284	3.31	11,281	2.70	9,226
5MHP4-12-121*P							4.80	16,378	4.41	15,042	3.61	12,302
3MHP4-12-181*P	16,500 / 16,500	12.0 / 11.0	11.9 / 10.0	0.77	16,200	7.4 / 6.3	3.60	12,284	3.31	11,281	2.70	9,226
5MHP4-12-181*P							4.80	16,378	4.41	15,042	3.61	12,302
7MHP4-12-181*P [†]							7.20	24,567	6.61	22,563	5.41	18,453
10MHP4-12-181*P [†]							9.60	32,757	8.82	30,084	7.21	24,604
5MHP4-12-241*P	22,800 / 22,800	13.0 / 11.0	11.9 / 10.5	0.76	22,800 / 22,200	7.4 / 6.3	4.80	16,378	4.41	15,042	3.61	12,302
7MHP4-12-241*P [†]							7.20	24,567	6.61	22,563	5.41	18,453
10MHP4-12-241*P [†]							9.60	32,757	8.82	30,084	7.21	24,604
5MHP4-12-301*P	27,600 / 26,600	12.5 / 11.0	11.9 / 10.0	0.75	26,200 / 25,400	7.4 / 6.3	4.80	16,378	4.41	15,042	3.61	12,302
7MHP4-12-301*P [†]							7.20	24,567	6.61	22,563	5.41	18,453
10MHP4-12-301*P [†]							9.60	32,757	8.82	30,084	7.21	24,604
5MHP4-14-361*P	34,600 / 33,200	14.0 / 11.0	13.4 / 11.0	0.75	32,400 / 31,000	8.0 / 6.7	4.80	16,378	4.41	15,042	3.61	12,302
7MHP4-14-361*P [†]							7.20	24,567	6.61	22,563	5.41	18,453
10MHP4-14-361*P [†]							9.60	32,757	8.82	30,084	7.21	24,604

[^] Not a rated value

[†] Two-stage heat available for 7kW and 10kW units

S/T = ratio of sensible to total cooling load

For most up to date ratings and values, please view AHRI listing

EXTENDED HEATING PERFORMANCE DATA (HEAT PUMP ONLY)

Model	Outdoor Temperature - DB / WB (°F)									
	0 / 0		17 / 15		35 / 33		47 / 43		62 / 56	
	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)
*MHP4-12-091*P	3,600	0.68	5,200	0.71	7,200	0.74	8,600	0.76	10,300	0.79
*MHP4-12-121*P	6,200	0.98	6,800	0.93	9,500	0.98	11,400	1.01	13,800	1.05
*MHP4-12-181*P	7,100	1.19	9,200	1.28	13,500	1.38	16,200	1.44	19,600	1.52
*MHP4-12-241*P	9,800	1.91	14,000	1.95	19,300	2.00	22,800	2.02	27,100	2.06
*MHP4-12-301*P	11,700	2.02	16,400	2.18	22,100	2.27	26,200	2.33	31,300	2.40
*MHP4-14-361*P	16,700	2.40	20,400	2.69	27,600	2.80	32,400	2.88	38,400	2.97

NOTE: Values based on 0.1" w.c. external static pressure

EXTENDED HEATING PERFORMANCE DATA (HEAT PUMP ONLY)

Model	Outdoor Temperature - DB / WB (°F)									
	0 / 0		17 / 15		35 / 33		47 / 43		62 / 56	
	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)	Net Capacity (Btu/hr)	System Power Input (kW)
*MHP4-12-091*P	3,600	0.69	5,200	0.72	7,200	0.75	8,600	0.77	10,300	0.80
*MHP4-12-121*P	6,200	1.00	6,800	0.95	9,500	1.00	11,400	1.03	13,800	1.07
*MHP4-12-181*P	7,100	1.22	9,200	1.31	13,500	1.41	16,200	1.47	19,600	1.55
*MHP4-12-241*P	9,500	1.93	13,600	1.97	18,800	2.02	22,200	2.04	26,400	2.08
*MHP4-12-301*P	11,300	2.06	15,900	2.22	21,400	2.31	25,400	2.37	30,300	2.44
*MHP4-14-361*P	16,000	2.45	19,500	2.74	26,400	2.85	31,000	2.93	36,700	3.02

NOTE: Values based on 0.3" w.c. external static pressure for *MHP4-12-091*P, *MHP4-12-121*P, *MHP4-12-181*P, *MHP4-12-241*P, *MHP4-12-301*P, and 0.5" w.c. external static pressure for *MHP4-14-361*P

COMBINED EXTENDED HEATING PERFORMANCE DATA (HEAT PUMP + ELECTRIC HEAT) ¹

Tonnage	Model	Outdoor Temperature - DB / WB (°F)							
		17 / 15				35 / 33			
		208V		230V		208V		230V	
		Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)
0.75	3MHP4-12-091*P	14,300	3.41	16,400	4.02	16,300	3.44	18,400	4.05
	5MHP4-12-091*P	17,400	4.32	20,200	5.12	19,400	4.35	22,200	5.15
1.0	3MHP4-12-121*P	15,900	3.63	18,000	4.24	18,600	3.68	20,700	4.29
	5MHP4-12-121*P	19,000	4.54	21,800	5.34	21,700	4.59	24,500	5.39
1.5	3MHP4-12-181*P	18,300	3.98	20,400	4.59	22,500	4.08	24,700	4.69
	5MHP4-12-181*P	21,400	4.89	24,200	5.69	25,600	4.99	28,500	5.79
	7MHP4-12-181*P	27,500	6.69	31,700	7.89	31,800	6.79	36,000	7.99
	10MHP4-12-181*P	33,700	8.49	39,200	10.10	37,900	8.59	43,500	10.20
2.0	5MHP4-12-241*P	26,100	5.56	29,000	6.36	31,400	5.61	34,300	6.41
	7MHP4-12-241*P	32,300	7.36	36,500	8.56	37,500	7.41	41,800	8.61
	10MHP4-12-241*P	38,400	9.16	44,000	10.77	43,700	9.21	49,300	10.82
2.5	5MHP4-12-301*P	28,500	5.79	31,400	6.59	34,100	5.88	37,100	6.68
	7MHP4-12-301*P	34,600	7.59	38,900	8.79	40,300	7.68	44,600	8.88
	10MHP4-12-301*P	40,800	9.39	46,400	11.00	46,400	9.48	52,100	11.09
3.0	5MHP4-14-361*P	32,400	6.30	35,400	7.10	39,600	6.41	42,600	7.21
	7MHP4-14-361*P	38,600	8.10	42,900	9.30	45,700	8.21	50,100	9.41
	10MHP4-14-361*P	44,700	9.90	50,400	11.51	51,900	10.01	57,600	11.62

¹ Combined performance of Heat Pump operation (compressor) plus Electric Heat (including second-stage electric heat on 7.5 & 10kW).

COMBINED EXTENDED HEATING PERFORMANCE DATA (HEAT PUMP + ELECTRIC HEAT) ¹

Tonnage	Model	Outdoor Temperature - DB / WB (°F)							
		47 / 43				62 / 56			
		208V		230V		208V		230V	
		Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)	Combined Heating Capacity (Btu/hr)	Combined System Power Input (kW)
0.75	3MHP4-12-091*P	17,700	3.46	19,800	4.07	19,400	3.49	21,500	4.10
	5MHP4-12-091*P	20,800	4.37	23,600	5.17	22,400	4.40	25,300	5.20
1.0	3MHP4-12-121*P	20,500	3.71	22,600	4.32	22,800	3.75	25,000	4.36
	5MHP4-12-121*P	23,500	4.62	26,400	5.42	25,900	4.66	28,800	5.46
1.5	3MHP4-12-181*P	25,200	4.14	27,400	4.75	28,600	4.22	30,800	4.83
	5MHP4-12-181*P	28,300	5.05	31,200	5.85	31,700	5.13	34,600	5.93
	7MHP4-12-181*P	34,400	6.85	38,700	8.05	37,800	6.93	42,100	8.13
	10MHP4-12-181*P	40,600	8.65	46,200	10.26	44,000	8.73	49,600	10.34
2.0	5MHP4-12-241*P	34,800	5.63	37,800	6.43	39,100	5.67	42,100	6.47
	7MHP4-12-241*P	41,000	7.43	45,300	8.63	45,200	7.47	49,600	8.67
	10MHP4-12-241*P	47,100	9.23	52,800	10.84	51,400	9.27	57,100	10.88
2.5	5MHP4-12-301*P	38,200	5.94	41,200	6.74	43,200	6.01	46,300	6.81
	7MHP4-12-301*P	44,300	7.74	48,700	8.94	49,400	7.81	53,800	9.01
	10MHP4-12-301*P	50,500	9.54	56,200	11.15	55,500	9.61	61,300	11.22
3.0	5MHP4-14-361*P	44,300	6.49	47,400	7.29	50,300	6.58	53,400	7.38
	7MHP4-14-361*P	50,500	8.29	54,900	9.49	56,400	8.38	60,900	9.58
	10MHP4-14-361*P	56,600	10.09	62,400	11.70	62,600	10.18	68,400	11.79

¹ Combined performance of Heat Pump operation (compressor) plus Electric Heat (including second-stage electric heat on 7.5 & 10kW).

EXTENDED COOLING PERFORMANCE DATA

Tonnage	Model	Indoor Temp DB/WB (°F)	Outdoor Temperature - DB (°F)														
			65			85			95			105			115		
			Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)
0.75	*MHP4-12-091*P	85/72	10,800	0.64	0.62	9,900	0.68	0.72	9,400	0.70	0.77	8,700	0.74	0.85	8,000	0.77	0.94
		80/67	10,200	0.70	0.61	9,100	0.76	0.72	8,600	0.79	0.77	7,900	0.82	0.84	7,200	0.85	0.91
		75/63	9,500	0.74	0.61	8,400	0.79	0.72	7,900	0.82	0.77	7,100	0.86	0.83	6,400	0.90	0.89
		75/57	8,800	1.00	0.61	7,700	1.00	0.71	7,200	1.00	0.76	6,700	1.00	0.83	6,100	1.00	0.89
1.0	*MHP4-12-121*P	85/72	15,100	0.64	0.82	13,700	0.67	1.01	13,000	0.69	1.10	12,000	0.73	1.21	11,000	0.76	1.32
		80/67	14,100	0.72	0.82	12,700	0.77	1.00	12,000	0.79	1.09	11,000	0.83	1.19	9,900	0.86	1.29
		75/63	13,300	0.74	0.82	11,800	0.79	0.99	11,000	0.81	1.07	9,900	0.86	1.17	8,800	0.90	1.27
		75/57	12,100	1.00	0.81	10,800	1.00	0.98	10,200	1.00	1.06	9,300	1.00	1.16	8,500	1.00	1.26
1.5	*MHP4-12-181*P	85/72	21,200	0.60	1.14	19,300	0.65	1.38	18,400	0.67	1.50	16,900	0.72	1.64	15,400	0.77	1.78
		80/67	19,900	0.67	1.13	18,000	0.74	1.38	17,000	0.77	1.50	15,300	0.82	1.63	13,600	0.86	1.77
		75/63	18,800	0.72	1.13	16,800	0.77	1.36	15,800	0.80	1.48	14,000	0.85	1.61	12,200	0.90	1.74
		75/57	17,100	1.00	1.13	15,300	1.00	1.36	14,400	1.00	1.47	13,300	1.00	1.60	12,100	1.00	1.74
2.0	*MHP4-12-241*P	85/72	27,900	0.60	1.54	25,800	0.65	1.89	24,700	0.67	2.06	23,000	0.70	2.28	21,400	0.73	2.50
		80/67	26,200	0.67	1.55	23,900	0.73	1.90	22,800	0.76	2.07	20,900	0.80	2.29	19,000	0.84	2.50
		75/63	24,800	0.71	1.55	22,400	0.76	1.88	21,200	0.79	2.05	19,100	0.84	2.26	17,100	0.88	2.48
		75/57	22,700	1.00	1.55	20,300	1.00	1.88	19,200	1.00	2.04	17,700	1.00	2.26	16,200	1.00	2.49
2.5	*MHP4-12-301*P	85/72	33,000	0.64	1.92	31,700	0.66	2.37	31,100	0.67	2.59	29,200	0.69	2.90	27,300	0.71	3.20
		80/67	32,000	0.70	1.91	29,500	0.73	2.35	28,200	0.75	2.56	26,600	0.78	2.85	25,100	0.80	3.13
		75/63	31,100	0.72	1.90	28,800	0.76	2.33	27,700	0.78	2.54	25,400	0.81	2.83	23,200	0.84	3.11
		75/57	27,900	1.00	1.87	26,600	1.00	2.30	25,900	1.00	2.51	24,000	1.00	2.80	22,100	1.00	3.10
3.0	*MHP4-14-361*P	85/72	41,300	0.63	2.27	38,400	0.66	2.80	36,900	0.67	3.06	34,500	0.70	3.37	32,200	0.72	3.68
		80/67	39,200	0.69	2.25	36,100	0.73	2.77	34,600	0.75	3.04	32,000	0.78	3.34	29,500	0.81	3.64
		75/63	37,300	0.72	2.25	33,800	0.76	2.75	32,100	0.78	2.99	29,500	0.81	3.29	27,000	0.84	3.59
		75/57	33,900	1.00	2.25	31,100	1.00	2.73	29,700	1.00	2.97	27,600	1.00	3.27	25,500	1.00	3.58

NOTE: Values based on 0.1" w.c. external static pressure

EXTENDED COOLING PERFORMANCE DATA

Tonnage	Model	Indoor Temp DB/WB (°F)	Outdoor Temperature - DB (°F)														
			65			85			95			105			115		
			Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)	Net Capacity (Btu/hr)	S/T	System Power Input (kW)
0.75	*MHP4-12-091*P	85/72	10,800	0.61	0.63	9,900	0.65	0.73	9,400	0.67	0.78	8,700	0.71	0.86	8,000	0.74	0.95
		80/67	10,200	0.69	0.62	9,100	0.74	0.73	8,600	0.77	0.78	7,900	0.81	0.85	7,200	0.85	0.92
		75/63	9,500	0.71	0.62	8,400	0.77	0.73	7,900	0.80	0.78	7,100	0.86	0.84	6,400	0.92	0.90
		75/57	8,800	1.00	0.62	7,700	1.00	0.72	7,200	1.00	0.77	6,700	1.00	0.84	6,100	1.00	0.90
1.0	*MHP4-12-121*P	85/72	15,100	0.58	0.84	13,700	0.60	1.03	13,000	0.61	1.12	12,000	0.64	1.23	11,000	0.67	1.34
		80/67	14,100	0.64	0.84	12,700	0.68	1.02	12,000	0.70	1.11	11,000	0.73	1.21	9,900	0.76	1.31
		75/63	13,300	0.68	0.84	11,800	0.72	1.01	11,000	0.74	1.09	9,900	0.77	1.19	8,800	0.80	1.29
		75/57	12,100	1.00	0.83	10,800	1.00	1.00	10,200	1.00	1.08	9,300	1.00	1.18	8,500	1.00	1.28
1.5	*MHP4-12-181*P	85/72	20,600	0.62	1.17	18,700	0.66	1.41	17,900	0.68	1.53	16,400	0.73	1.67	14,900	0.77	1.81
		80/67	19,300	0.69	1.16	17,500	0.74	1.41	16,500	0.77	1.53	14,900	0.83	1.66	13,200	0.88	1.80
		75/63	18,200	0.73	1.16	16,300	0.79	1.39	15,300	0.82	1.51	13,600	0.87	1.64	11,800	0.92	1.77
		75/57	16,600	1.00	1.16	14,900	1.00	1.39	14,000	1.00	1.50	12,900	1.00	1.63	11,700	1.00	1.77
2.0	*MHP4-12-241*P	85/72	27,900	0.61	1.57	25,800	0.66	1.92	24,700	0.68	2.09	23,000	0.72	2.31	21,400	0.75	2.53
		80/67	26,200	0.68	1.58	23,900	0.74	1.93	22,800	0.77	2.10	20,900	0.82	2.32	19,000	0.87	2.53
		75/63	24,800	0.71	1.58	22,400	0.78	1.91	21,200	0.81	2.08	19,100	0.86	2.29	17,100	0.91	2.51
		75/57	22,700	1.00	1.58	20,300	1.00	1.91	19,200	1.00	2.07	17,700	1.00	2.29	16,200	1.00	2.52
2.5	*MHP4-12-301*P	85/72	31,100	0.63	1.96	29,900	0.65	2.41	29,300	0.66	2.63	27,500	0.68	2.94	25,800	0.70	3.24
		80/67	30,200	0.68	1.95	27,800	0.71	2.39	26,600	0.73	2.60	25,100	0.76	2.89	23,700	0.79	3.17
		75/63	29,300	0.71	1.94	27,200	0.74	2.37	26,100	0.76	2.58	24,000	0.80	2.87	21,900	0.83	3.15
		75/57	26,300	1.00	1.91	25,100	1.00	2.34	24,400	1.00	2.55	22,600	1.00	2.84	20,800	1.00	3.14
3.0	*MHP4-14-361*P	85/72	39,600	0.63	2.33	36,800	0.64	2.86	35,400	0.65	3.12	33,100	0.67	3.43	30,900	0.68	3.74
		80/67	37,600	0.68	2.31	34,600	0.71	2.83	33,200	0.72	3.10	30,700	0.74	3.40	28,300	0.76	3.70
		75/63	35,800	0.71	2.31	32,400	0.73	2.81	30,800	0.74	3.05	28,300	0.77	3.35	25,900	0.79	3.65
		75/57	32,500	1.00	2.31	29,800	1.00	2.79	28,500	1.00	3.03	26,500	1.00	3.33	24,500	1.00	3.64

NOTE: Values based on 0.3" w.c. external static pressure for *MHP4-12-091*P, *MHP4-12-121*P, *MHP4-12-181*P, *MHP4-12-241*P, *MHP4-12-301*P, and 0.5" w.c. external static pressure for *MHP4-14-361*P

BLOWER PERFORMANCE

- Performance based on factory-provided washable filter installed in the unit.
- If a higher resistance filter is field installed in the unit, the added resistance must be included in the external static pressure and must not exceed 0.5 in. w.c. including ductwork
- Refer to Factory Filter Size and Pressure Drop table for additional details

SUPPLY AIRFLOW PERFORMANCE AS A FUNCTION OF EXTERNAL STATIC PRESSURE																		
Tonnage	Model	Indoor Blower Speed	0.1" w.c.			0.2" w.c.			0.3" w.c.			0.4 "w.c.			0.5" w.c.			
			SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP	
0.75	*MHP4-12-091*P	TAP 1 (FAN)		365	28	0.04	330	31	0.04	275	35	0.05	225	38	0.05	180	41	0.05
		TAP 2 (COOL / HP)		375	28	0.04	325	32	0.04	275	35	0.05	N/A	N/A	N/A	N/A	N/A	N/A
		TAP 3 (COOL / HP) [†]		N/A	N/A	N/A	N/A	N/A	N/A	350	38	0.05	320	42	0.06	280	46	0.06
		3 kW	TAP 4 (HEAT)*	515	55	0.07	485	58	0.08	450	62	0.08	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	600	73	0.10	570	78	0.10	545	84	0.11	515	88	0.12	475	92	0.12
		5 kW	TAP 4 (HEAT)*	570	69	0.09	545	73	0.10	515	77	0.10	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	660	92	0.12	635	98	0.13	605	104	0.14	580	109	0.15	550	114	0.15
1.0	*MHP4-12-121*P	TAP 1 (FAN)		365	28	0.04	330	31	0.04	275	35	0.05	225	38	0.05	180	41	0.05
		TAP 2 (COOL / HP)		490	50	0.07	460	55	0.07	420	59	0.08	N/A	N/A	N/A	N/A	N/A	N/A
		TAP 3 (COOL / HP) [†]		N/A	N/A	N/A	500	59	0.08	470	63	0.08	440	68	0.09	410	72	0.10
		3 kW	TAP 4 (HEAT)*	515	55	0.07	485	58	0.08	450	62	0.08	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	600	73	0.10	570	78	0.10	545	84	0.11	515	88	0.12	475	92	0.12
		5 kW	TAP 4 (HEAT)*	570	69	0.09	545	73	0.10	515	77	0.10	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	660	92	0.12	635	98	0.13	605	104	0.14	580	109	0.15	550	114	0.15
1.5	*MHP4-12-181*P	TAP 1 (FAN)		365	32	0.04	335	35	0.05	280	39	0.05	235	42	0.06	175	46	0.06
		TAP 2 (COOL / HP)		615	103	0.14	590	108	0.14	555	112	0.15	530	117	0.16	500	121	0.16
		TAP 3 (COOL / HP) [†]		705	118	0.16	680	124	0.17	650	129	0.17	620	135	0.18	595	140	0.19
		3 kW	TAP 4 (HEAT)*	615	93	0.12	590	97	0.13	555	101	0.14	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	715	127	0.17	685	134	0.18	655	140	0.19	630	146	0.20	600	151	0.20
		5 kW	TAP 4 (HEAT)*	665	110	0.15	635	114	0.15	605	118	0.16	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	750	148	0.20	725	154	0.21	700	160	0.21	675	166	0.22	650	171	0.23
		7 kW	TAP 4 (HEAT)*	725	137	0.18	705	144	0.19	675	150	0.20	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	800	200	0.27	780	205	0.27	755	209	0.28	725	213	0.29
		10 kW	TAP 4 (HEAT)*	750	148	0.20	725	154	0.21	700	161	0.22	N/A	N/A	N/A	N/A	N/A	N/A
TAP 5 (HEAT)	N/A		N/A	N/A	N/A	N/A	N/A	805	224	0.30	780	228	0.31	750	232	0.31		
2.0	*MHP4-12-241*P	TAP 1 (FAN)		460	43	0.06	420	47	0.06	380	51	0.07	350	54	0.07	290	59	0.08
		TAP 2 (COOL / HP)		815	150	0.20	785	161	0.22	760	165	0.22	740	172	0.23	715	178	0.24
		TAP 3 (COOL / HP) [†]		855	124	0.17	830	132	0.18	795	139	0.19	775	145	0.19	750	150	0.20
		5 kW	TAP 4 (HEAT)*	800	146	0.20	775	152	0.20	750	157	0.21	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	905	201	0.27	880	207	0.28	855	212	0.28	825	216	0.29	800	219	0.29
		7 kW	TAP 4 (HEAT)*	855	174	0.23	830	179	0.24	800	183	0.25	N/A	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	930	231	0.31	900	235	0.32	875	239	0.32	850	243	0.33
		10 kW	TAP 4 (HEAT)*	855	174	0.23	830	179	0.24	800	183	0.25	N/A	N/A	N/A	N/A	N/A	N/A
TAP 5 (HEAT)	N/A		N/A	N/A	930	231	0.31	900	235	0.32	875	239	0.32	850	243	0.33		

N/A: Do not operate unit using this blower speed at this external static pressure.

[†] As shipped speed for Cooling and Heat Pump operation. Blower speed must be field adjusted to Speed Tap 2 for lower duct static applications.

* As shipped speed for Heating operation. Blower speed must be field adjusted to Speed Tap 5 for higher duct static applications.

SCFM = standard cubic feet per minute

BLOWER PERFORMANCE CONTINUED

- Performance based on factory-provided washable filter installed in the unit.
- If a higher resistance filter is field installed in the unit, the added resistance must be included in the external static pressure and must not exceed 0.5 in. w.c. including ductwork
- Refer to Factory Filter Size and Pressure Drop table for additional details

SUPPLY AIRFLOW PERFORMANCE AS A FUNCTION OF EXTERNAL STATIC PRESSURE																	
Tonnage	Model	Indoor Blower Speed	0.1" w.c.			0.2" w.c.			0.3" w.c.			0.4 "w.c.			0.5" w.c.		
			SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP	SCFM	Watts	HP
2.5	*MHP4-12-301*P	TAP 1 (FAN)	590	43	0.06	535	48	0.06	430	55	0.07	380	60	0.08	315	65	0.09
		TAP 2 (COOL / HP)	1040	161	0.22	1005	169	0.23	970	177	0.24	935	185	0.25	900	193	0.26
		TAP 3 (COOL / HP) [†]	N/A	N/A	N/A	1030	162	0.22	1005	171	0.23	980	180	0.24	955	189	0.25
		5 kW	TAP 4 (HEAT)*	1075	151	0.2	1040	159	0.21	1005	168	0.23	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1100	205	0.27	1065	216	0.29	1025	225	0.30
		7 kW	TAP 4 (HEAT)*	1075	151	0.2	1040	159	0.21	1005	168	0.23	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1100	205	0.27	1065	216	0.29	1025	225	0.30
		10 kW	TAP 4 (HEAT)*	1075	151	0.2	1040	159	0.21	1005	168	0.23	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1100	205	0.27	1065	216	0.29	1025	225	0.30
3.0	*MHP4-14-361*P	TAP 1 (FAN)	680	61	0.08	630	68	0.09	575	74	0.10	525	79	0.11	460	86	0.12
		TAP 2 (COOL / HP)	1235	260	0.35	1200	272	0.36	1165	284	0.38	1135	295	0.40	1100	305	0.41
		TAP 3 (COOL / HP) [†]	N/A	N/A	N/A	N/A	N/A	N/A	1105	263	0.35	1075	272	0.36	1045	282	0.38
		5 kW	TAP 4 (HEAT)*	1240	232	0.31	1205	248	0.33	1170	262	0.35	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1260	315	0.42	1230	328	0.44	1200	338	0.45
		7 kW	TAP 4 (HEAT)*	1240	232	0.31	1205	248	0.33	1170	262	0.35	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1260	315	0.42	1230	328	0.44	1200	338	0.45
		10 kW	TAP 4 (HEAT)*	1240	232	0.31	1205	248	0.33	1170	262	0.35	N/A	N/A	N/A	N/A	N/A
			TAP 5 (HEAT)	N/A	N/A	N/A	N/A	N/A	1260	315	0.42	1230	328	0.44	1200	338	0.45

N/A: Do not operate unit using this blower speed at this external static pressure.

[†] As shipped speed for Cooling and Heat Pump operation. Blower speed must be field adjusted to Speed Tap 2 for lower duct static applications.

* As shipped speed for Heating operation. Blower speed must be field adjusted to Speed Tap 5 for higher duct static applications.

SCFM = standard cubic feet per minute



215 Metropolitan Drive | West Columbia, SC 29170
800-448-5872
Product Support 866-282-7257
www.magic-pak.com

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