



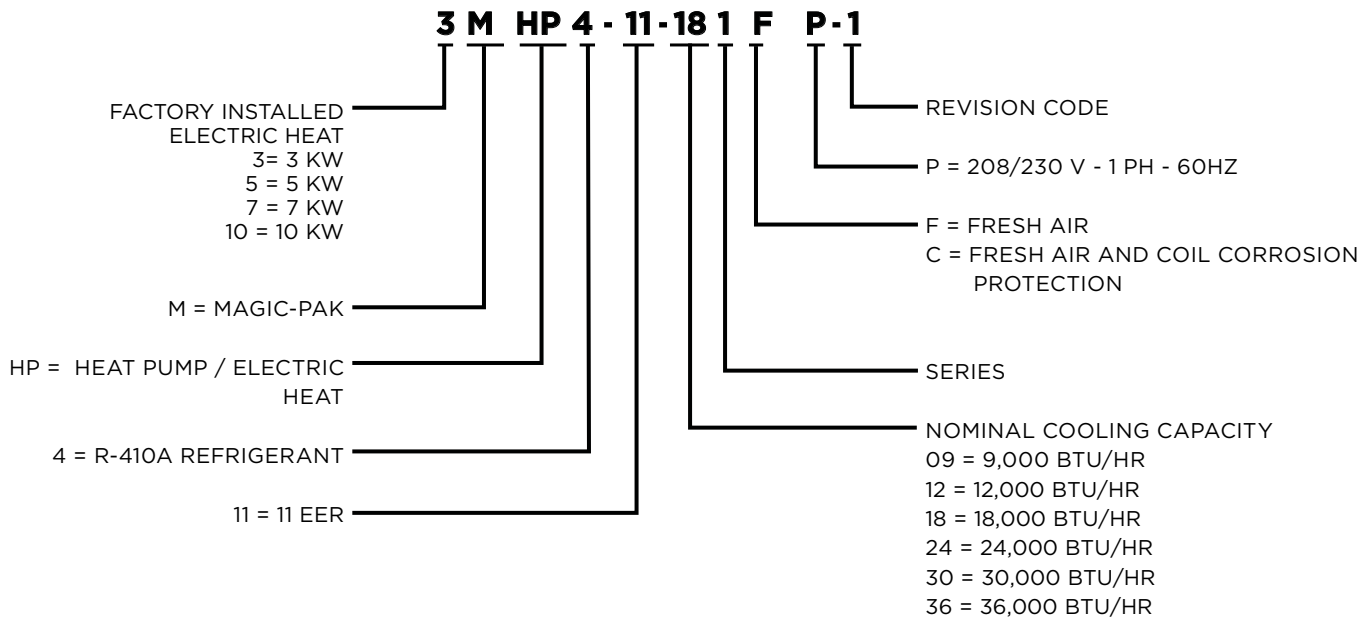
ELECTRIC HEAT PUMP
PACKAGED UNITS

M-SERIES™
MHP4

FORM NO. MHP4-100 (07/2019)



MODEL NUMBER GUIDE



FEATURES AND BENEFITS

WARRANTY

Compressor

Five year limited warranty in all residential and commercial applications.

All other covered components

Five year limited warranty in all residential and commercial applications.

APPROVALS

Units are design certified by ETL Intertek to latest edition of UL 1995 and ANSI Z21.47.

AHRI Certified to AHRI Standard 390 for Single Packaged Vertical units (SPVAC & SPVHP).

Cooling system rated according to DOE test procedures, and are certified by AHRI.

Units are ETL certified for the U.S. and Canada.

Units are ETL Intertek 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 and are rated and tested according to DOE test procedures and FTC labeling regulations.

Each unit undergoes a full run test operated at the factory before shipment ensuring dependable operation at start-up.

Products using impact resistant louvers are certified to Miami-Dade County standards (TAS 201, TAS 202, and TAS 203) and carry a Notice of Acceptance (N.O.A.) number of 18-0522.03.

Equipment is wind load certified in accordance with the 2017 Florida Building Code wind load calculations up to 186 MPH, risk categories III and IV, and wind exposures C and D.

APPLICATIONS

Designed for installation in conditioned and non-conditioned mechanical spaces within residential and commercial multifamily structures including apartments, condominiums, student and senior housing, and hotels.

REFRIGERATION SYSTEM

R-410A Refrigerant

Optimized design with 11 EER cooling efficiency/3.3 COP heat pump efficiency. Factory charged with refrigerant.

See Specifications table.

Indoor and Outdoor Coils

Copper tube with aluminum fin coils.

Available with Climate Guard™ epoxy coated indoor and outdoor coils.

Anti-Microbial Indoor Coil Drain Pan

Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage.

Overflow Protection

Includes an evaporator drain pan overflow switch. Monitors condensate level in drain pan, shuts down unit if drain becomes clogged.

Outdoor Coil Fan

Weather protected heavy duty outdoor coil fan motor with aluminum fan blades for long life. Internally mounted. Totally enclosed weatherproof motor.

Reversing Valve (heat pump only)

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.

High Pressure Switch

Shuts off unit if abnormal operating conditions cause the refrigerant discharge pressure to rise above setting.

Loss of Charge Switch

Provides loss of charge protection by shutting off unit if refrigerant liquid pressure falls below setting.

Secondary Drain Pan

Polypropylene unit base provides redundant overflow protection.

SUPPLY AIR BLOWER

ECM Constant Torque Blower Motor

Electrically efficient motor for reduced electrical consumption. Motor provides specified air volume delivery from 0 through 0.50 in. w.g. duct static range. Blower speed adjustment is easily accomplished by speed tap wiring selection. Motor is resiliently mounted for quiet operation. Blower assembly is easily removed for servicing. See Blower Performance tables.

INDOOR AIR QUALITY**Ventilation Air (MHP and MCE only)**

All units come with ventilation air capabilities meeting the volume requirements as shown in the latest edition of ASHRAE 62.2

Units are shipped with ventilation air closed and are manually adjusted during installation.

Optional Motorized Damper (MHP and MCE only)

Optional motorized ventilation air dampers automatically open and close when the blower runs.

Optional Ventilation Air Control

Controls offer the ability to schedule the amount of ventilation air and ensures the operation meets ASHRAE 62.2 requirements for intermittent ventilation air. See Ventilation Air tables.

Internal Filter

Units ship with a 1 in. thick filter from the factory and units have a factory installed 1 in. filter rack. Factory filters are washable.

ELECTRIC HEAT (3 TO 10KW)

Factory installed and internal to unit cabinet.

Multiple kW sizes available.

Compatible with 208 thru 230 voltages.

Helix wound nichrome heating elements exposed directly in air stream resulting in instant heat transfer, low element temperatures and long service life.

Cutoff limit control provides positive protection in case of excessive temperatures.

CONTROLS**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. Fixed blower delays have been selected to enhance comfort.

Defrost Control

Defrost control furnished as standard equipment.

Gives a defrost cycle for every 30, 60 or 90 minutes (adjustable) of compressor "on" time at outdoor coil temperatures below freezing.

Remote mounted sensor determines when defrost cycle is required and also when to terminate cycle.

Anti-short cycle, timed-off control incorporated into the board.

24 Volt Transformer

40VA transformer furnished and factory installed in control area. Factory wired for 230V applications, optional terminal for 208V applications.

CABINET

Conditioned areas insulated with 0.5 in. insulation to minimize heat loss and reduce operating sound levels. Polystyrene insulation in outdoor section of cabinet is weather resistant and provides reduced sound levels. Embossed steel cabinet for maximum durability.

Easy forward-facing service access.

Pre-bent duct flange connections.

Tool-less filter access.

Airflow Choice

Units are factory shipped ready for top supply and return duct connections.

Heat pump and cooling only models have the option of a free return configuration which may utilize the top return duct connection point, or the optional front return.

Electrical Inlets and Service Valves

Field wiring inlets are located on the top of the cabinet. See Dimension drawing.

Gauge ports located inside compressor service compartment of the cabinet.

OTHER ACCESSORIES**Wall Sleeves**

Required for all installations. Wall sleeves penetrate the building envelope and create a path for condenser air intake and exhaust, as well as flue gas exhaust on gas heating models. The wall sleeves complete the building envelope by creating a seal to the equipment and provides a secure attachment foundation for external louvers. Wall sleeves are available in a minimum depth of 6 in. and a maximum depth of 12 in.

Wall sleeve bases are polypropylene and specifically designed to act as a drain pan to direct rain water out of the building as well as handle any overflow from condensation generated by the condensing section of the system (in the event of a clogged primary drain). Larger height wall sleeves may be used on smaller tonnage equipment to maintain a consistent louver size on the building's façade. Refer to the application guide and wall sleeve installation instructions.

Architectural Aluminum Louver

Louvers are required for all installations. Aluminum louvers offer a more robust grill on the building's façade and a wider range of standard colors. Louvers are painted with 70% flouropolymer and meets AAMA 2605 specifications, and carry a 20 year paint warranty*. Custom color matching is also available. 6063-T6 grade aluminum is used.

Architectural Polypropylene Louver (¾ thru 2½ ton)

Louvers are required for all installations. Polypropylene louvers are constructed from durable, corrosion resistant plastic and are available in four colors to compliment any architectural design.

Impact Resistant Aluminum Louver

Impact resistant aluminum louvers offer the most protection for a structure and used for areas that will experience extreme winds. Certified to Miami-Dade County building standards, the louvers are ideal for hurricane prone areas. Impact louvers are available in a wide range of standard colors. Louvers are painted with 70% flouropolymer and meets AAMA 2605 specifications, and carry a 20 year paint warranty. Custom color matching is also available. 6063-T6 grade aluminum is used. Miami-Dade NOA# 18-0522.03. See application guide for details.

** Certain exclusions apply. Refer to louver manufacture's warranty documentation.*

ELECTRICAL AND PHYSICAL DATA (208/230V - 1 PHASE - 60 HZ)¹

| Model | Minimum Circuit Ampacity | | | | MOCP ² | | | | Compressor | | Outside Fan | | | Indoor Blower | | | R-410A Refrigerant Charge (oz) | Approx. Shipping Weight (lbs) | |
|-----------------|--------------------------|------|-----------|------|-------------------|------|-----------|------|-----------------|-------------------|-------------|-------------|-----------------|---------------|-------------------|-----------------|--------------------------------|-------------------------------|----------|
| | Circuit 1 | | Circuit 2 | | Circuit 1 | | Circuit 2 | | Rated Load Amps | Locked Rotor Amps | Dia. (in.) | Nominal RPM | Rated Load Amps | Rated HP | Wheel D x W (in.) | Rated Load Amps | | | Rated HP |
| | 208V | 230V | 208V | 230V | 208V | 230V | 208V | 230V | | | | | | | | | | | |
| 3MHP4-11-091*P | 23.0 | 25.5 | -- | -- | 25 | 30 | -- | -- | 3.5 | 21.0 | 16 | 1,100 | 0.9 | 1/8 | 9 x 6 | 2.8 | 1/3 | 44 | 192 |
| 5MHP4-11-091*P | 28.4 | 31.8 | -- | -- | 30 | 35 | -- | -- | | | | | | | | | | | |
| 3MHP4-11-121*P | 24.2 | 26.7 | -- | -- | 25 | 30 | -- | -- | 5.0 | 27.0 | 16 | 1,125 | 0.9 | 1/8 | 9 x 6 | 2.8 | 1/3 | 52 | 202 |
| 5MHP4-11-121*P | 29.6 | 32.9 | -- | -- | 30 | 35 | -- | -- | | | | | | | | | | | |
| 3MHP4-11-181*P | 26.6 | 29.1 | -- | -- | 30 | 30 | -- | -- | 6.5 | 37.5 | 16 | 1,125 | 0.9 | 1/8 | 9 x 6 | 2.8 | 1/3 | 80 | 219 |
| 5MHP4-11-181*P | 32.0 | 35.3 | -- | -- | 35 | 40 | -- | -- | | | | | | | | | | | |
| 7MHP4-11-181*P | 42.8 | 47.8 | -- | -- | 45 | 50 | -- | -- | | | | | | | | | | | |
| 10MHP4-11-181*P | 10.3 | 10.3 | 43.3 | 50.0 | 15 | 15 | 45 | 50 | | | | | | | | | | | |
| 5MHP4-11-241*P | 37.4 | 40.8 | -- | -- | 40 | 45 | -- | -- | 10.1 | 52.0 | 18 | 1,100 | 0.9 | 1/4 | 9 x 6 | 4.1 | 1/3 | 82 | 268 |
| 7MHP4-11-241*P | 48.3 | 53.3 | -- | -- | 50 | 60 | -- | -- | | | | | | | | | | | |
| 10MHP4-11-241*P | 15.8 | 15.8 | 43.3 | 50.0 | 25 | 25 | 45 | 50 | | | | | | | | | | | |
| 5MHP4-11-301*P | 41.9 | 45.2 | -- | -- | 50 | 50 | -- | -- | 15.0 | 72.5 | 18 | 1,100 | 1.6 | 1/4 | 10 x 8 | 4.1 | 1/2 | 60 | 271 |
| 7MHP4-11-301*P | 20.2 | 20.2 | 32.5 | 37.5 | 30 | 30 | 35 | 40 | | | | | | | | | | | |
| 10MHP4-11-301*P | 20.2 | 20.2 | 43.3 | 50.0 | 30 | 30 | 45 | 50 | | | | | | | | | | | |
| 5MHP4-11-361*P | 44.4 | 47.7 | -- | -- | 50 | 50 | -- | -- | 14.7 | 75.0 | 18 | 1,100 | 1.6 | 1/4 | 10 x 8 | 4.1 | 1/2 | 102 | 298 |
| 7MHP4-11-361*P | 22.7 | 22.7 | 32.5 | 37.5 | 35 | 35 | 35 | 40 | | | | | | | | | | | |
| 10MHP4-11-361*P | 22.7 | 22.7 | 43.3 | 50.0 | 35 | 35 | 45 | 50 | | | | | | | | | | | |

¹ Acceptable voltage range 197-253 V² MOCP = Maximum Overcurrent Protection

PERFORMANCE

| Model | Electric Heat @ 240V | | Cooling | | | | | Heating | | | | |
|-----------------|----------------------|--------|-----------------------|------------------|------|----------------|---|-----------------------|------------------|-----------------------|------------------|----------------|
| | kW | Btu/hr | Net Capacity (Btu/hr) | Efficiency (EER) | S/T | Airflow (SCFM) | Outdoor Sound Rating (dBa) ¹ | 47°F | | 17°F | | Airflow (SCFM) |
| | | | | | | | | Net Capacity (Btu/hr) | Efficiency (COP) | Net Capacity (Btu/hr) | Efficiency (COP) | |
| 3MHP4-11-091*P | 3.6 | 12,275 | 8,600 | 11.1 | 0.79 | 350 | 73 | 8,600 | 3.3 | 5,200 | 2.0 | 350 |
| 5MHP4-11-091*P | 4.8 | 16,375 | | | | | | | | | | |
| 3MHP4-11-121*P | 3.6 | 12,275 | 12,000 | 11.0 | 0.79 | 475 | 73 | 11,400 | 3.3 | 6,800 | 2.0 | 475 |
| 5MHP4-11-121*P | 4.8 | 16,375 | | | | | | | | | | |
| 3MHP4-11-181*P | 3.6 | 12,275 | 17,000 | 11.0 | 0.77 | 600 | 73 | 16,200 | 3.3 | 9,200 | 2.0 | 600 |
| 5MHP4-11-181*P | 4.8 | 16,375 | | | | | | | | | | |
| 7MHP4-11-181*P | 7.2 | 24,550 | | | | | | | | | | |
| 10MHP4-11-181*P | 9.6 | 32,750 | | | | | | | | | | |
| 5MHP4-11-241*P | 4.8 | 16,375 | 22,800 | 11.0 | 0.76 | 800 | 79 | 22,800 | 3.3 | 14,000 | 2.0 | 800 |
| 7MHP4-11-241*P | 7.2 | 24,550 | | | | | | | | | | |
| 10MHP4-11-241*P | 9.6 | 32,750 | | | | | | | | | | |
| 5MHP4-11-301*P | 4.8 | 16,375 | 28,200 | 11.0 | 0.75 | 1,025 | 79 | 26,200 | 3.3 | 16,400 | 2.0 | 1,025 |
| 7MHP4-11-301*P | 7.2 | 24,550 | | | | | | | | | | |
| 10MHP4-11-301*P | 9.6 | 32,750 | | | | | | | | | | |
| 5MHP4-11-361*P | 4.8 | 16,375 | 34,600 | 11.3 | 0.75 | 1,200 | 79 | 32,400 | 3.3 | 20,400 | 2.0 | 1,200 |
| 7MHP4-11-361*P | 7.2 | 24,550 | | | | | | | | | | |
| 10MHP4-11-361*P | 9.6 | 32,750 | | | | | | | | | | |

¹ Per ANSI / AHRI Standard 270

ELECTRIC HEAT DATA

| Model | Input Voltage | | | | | | | | |
|-------|---------------|--------|-------|------|--------|-------|------|--------|-------|
| | 240 | | | 230 | | | 208 | | |
| | kW | Btu/hr | Amps | kW | Btu/hr | Amps | kW | Btu/hr | Amps |
| 3kW | 3.60 | 12,284 | 15.00 | 3.31 | 11,281 | 14.38 | 2.70 | 9,226 | 13.00 |
| 5kW | 4.80 | 16,378 | 20.00 | 4.41 | 15,042 | 19.17 | 3.61 | 12,302 | 17.33 |
| 7kW | 7.20 | 24,567 | 30.00 | 6.61 | 22,563 | 28.75 | 5.41 | 18,453 | 26.00 |
| 10kW | 9.60 | 32,757 | 40.00 | 8.82 | 30,084 | 38.33 | 7.21 | 24,604 | 34.67 |

BLOWER PERFORMANCE (208 OR 230V)

| AIRFLOW PERFORMANCE AS A FUNCTION OF EXTERNAL STATIC PRESSURE | | | | | | | | | | | | | | | | | |
|---|---------------------|---------------|-------|------|-----------|-------|------|-----------|-------|------|-----------|-------|------|-----------|-------|------|------|
| 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 | |
| *MHP4-11-09†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)† | 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) | N/A | N/A | N/A | N/A | N/A | N/A | 395 | 54 | 0.07 | 370 | 58 | 0.08 | 330 | 62 | 0.08 | |
| | 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 |
| *MHP4-11-12†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)† | 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) | N/A | N/A | N/A | 555 | 77 | 0.10 | 525 | 82 | 0.11 | 495 | 86 | 0.12 | 460 | 91 | 0.12 | |
| | 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 |
| *MHP4-11-18†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)† | 615 | 103 | 0.14 | 590 | 108 | 0.14 | 555 | 112 | 0.15 | 530 | 117 | 0.16 | 500 | 121 | 0.16 | |
| | TAP 3 (COOL) | 700 | 135 | 0.18 | 670 | 141 | 0.19 | 640 | 146 | 0.20 | 615 | 151 | 0.20 | 590 | 157 | 0.21 | |
| | 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) | 825 | 194 | 0.26 | 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) | | 860 | 213 | 0.29 | 832 | 219 | 0.29 | 805 | 224 | 0.30 | 780 | 228 | 0.31 | 750 | 232 | 0.31 | |
| *MHP4-11-24†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)† | 815 | 150 | 0.20 | 785 | 161 | 0.22 | 760 | 165 | 0.22 | 740 | 172 | 0.23 | 715 | 178 | 0.24 | |
| | TAP 3 (COOL) | 885 | 201 | 0.27 | 860 | 208 | 0.28 | 835 | 213 | 0.29 | 805 | 217 | 0.29 | 785 | 220 | 0.30 | |
| | 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) | 955 | 227 | 0.30 | 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) | 955 | 227 | 0.30 | 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 operation. Blower speed must be field adjusted to Speed Tap 3 for higher duct static applications.

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

BLOWER PERFORMANCE CONTINUED (208 OR 230V)

| AIRFLOW PERFORMANCE AS A FUNCTION OF EXTERNAL STATIC PRESSURE | | | | | | | | | | | | | | | | | |
|---|---------------------|---------------|-------|------|-----------|-------|------|-----------|-------|------|-----------|-------|------|-----------|-------|------|------|
| 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 | |
| *MHP4-11-301*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)† | 1040 | 161 | 0.22 | 1005 | 169 | 0.23 | 970 | 177 | 0.24 | 935 | 185 | 0.25 | 900 | 193 | 0.26 | |
| | TAP 3 (COOL) | 1135 | 201 | 0.27 | 1105 | 211 | 0.28 | 1070 | 220 | 0.30 | 1040 | 229 | 0.31 | 1010 | 237 | 0.32 | |
| | 5 kW | TAP 4 (HEAT)* | 1075 | 151 | 0.20 | 1040 | 159 | 0.21 | 1005 | 168 | 0.23 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | TAP 5 (HEAT) | 1165 | 181 | 0.24 | 1135 | 193 | 0.26 | 1100 | 205 | 0.27 | 1065 | 216 | 0.29 | 1025 | 225 | 0.30 |
| | 7 kW | TAP 4 (HEAT)* | 1075 | 151 | 0.20 | 1040 | 159 | 0.21 | 1005 | 168 | 0.23 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | TAP 5 (HEAT) | 1165 | 181 | 0.24 | 1135 | 193 | 0.26 | 1100 | 205 | 0.27 | 1065 | 216 | 0.29 | 1025 | 225 | 0.30 |
| | 10 kW | TAP 4 (HEAT)* | 1075 | 151 | 0.20 | 1040 | 159 | 0.21 | 1005 | 168 | 0.23 | N/A | N/A | N/A | N/A | N/A | N/A |
| TAP 5 (HEAT) | | 1165 | 181 | 0.24 | 1135 | 193 | 0.26 | 1100 | 205 | 0.27 | 1065 | 216 | 0.29 | 1025 | 225 | 0.30 | |
| *MHP4-11-361*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)† | 1235 | 260 | 0.35 | 1200 | 272 | 0.36 | 1165 | 284 | 0.38 | 1135 | 295 | 0.40 | 1100 | 305 | 0.41 | |
| | TAP 3 (COOL) | 1315 | 304 | 0.41 | 1280 | 316 | 0.42 | 1250 | 330 | 0.44 | 1215 | 342 | 0.46 | 1180 | 354 | 0.47 | |
| | 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 | N/A |
| | | TAP 5 (HEAT) | 1340 | 283 | 0.38 | 1290 | 300 | 0.40 | 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 | N/A |
| | | TAP 5 (HEAT) | 1340 | 283 | 0.38 | 1290 | 300 | 0.40 | 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 | N/A |
| TAP 5 (HEAT) | | 1340 | 283 | 0.38 | 1290 | 300 | 0.40 | 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 operation. Blower speed must be field adjusted to Speed Tap 3 for higher duct static applications.

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

HEATING PERFORMANCE EXTENDED RATINGS

| 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) |
| *MHP4-11-091*P | N/A | N/A | 5,100 | 0.71 | 7,200 | 0.74 | 8,600 | 0.76 | 10,300 | 0.79 |
| *MHP4-11-121*P | N/A | N/A | 6,600 | 0.93 | 9,500 | 0.98 | 11,400 | 1.01 | 13,800 | 1.05 |
| *MHP4-11-181*P | N/A | N/A | 9,400 | 1.28 | 13,500 | 1.38 | 16,200 | 1.44 | 19,600 | 1.52 |
| *MHP4-11-241*P | N/A | N/A | 14,200 | 1.95 | 19,300 | 2.00 | 22,800 | 2.02 | 27,100 | 2.06 |
| *MHP4-11-301*P | N/A | N/A | 16,000 | 2.18 | 22,100 | 2.27 | 26,200 | 2.33 | 31,300 | 2.40 |
| *MHP4-11-361*P | N/A | N/A | 20,400 | 2.69 | 27,600 | 2.80 | 32,400 | 2.88 | 38,400 | 2.97 |

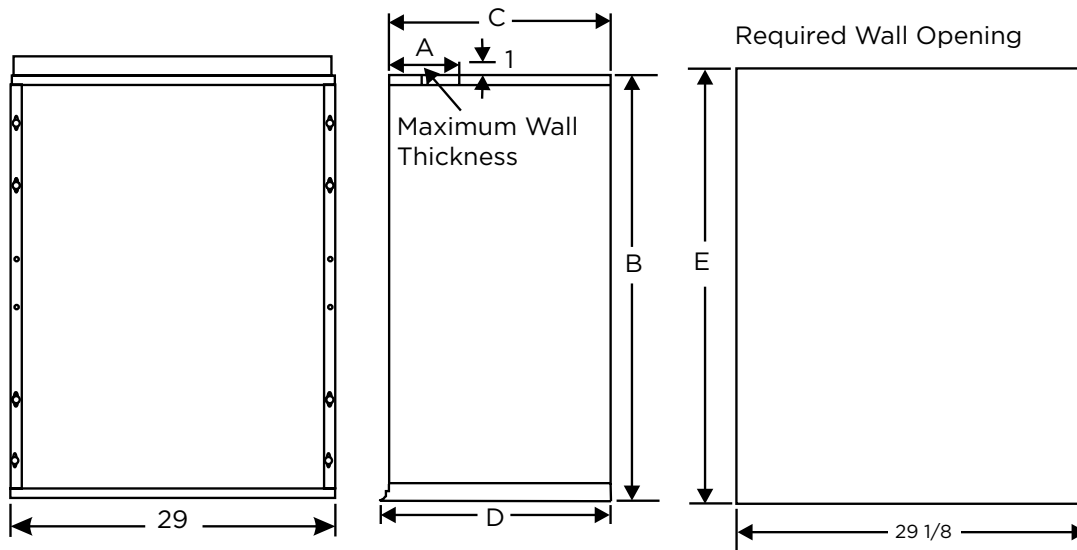
COOLING PERFORMANCE EXTENDED RATINGS

| 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) |
| *MHP4-11-091*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 |
| *MHP4-11-121*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 |
| *MHP4-11-181*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 |
| *MHP4-11-241*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 |
| *MHP4-11-301*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 |
| *MHP4-11-361*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 |

OUTDOOR VENTILATION AIR - AUXILIARY PANEL

| | | Nominal Indoor Airflow | Number of Openings | | | | | | | | |
|-------------------------------|--------------|------------------------|--------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | | #1 Only | #1 and #2 | #1 thru #3 | #1 thru #4 | #1 thru #5 | #1 thru #6 | #1 thru #7 | #1 thru #8 | #1 thru #9 |
| Outdoor Ventilation Air (CFM) | *MHP4-11-09* | 350 | 6 | 10 | 17 | 23 | 31 | 35 | 41 | 46 | 50 |
| | *MHP4-11-12* | 475 | 11 | 17 | 22 | 28 | 34 | 41 | 49 | 56 | 60 |
| | *MHP4-11-18* | 600 | 13 | 21 | 26 | 35 | 42 | 49 | 56 | 64 | 73 |
| | *MHP4-11-24* | 800 | 18 | 24 | 32 | 41 | 50 | 57 | 68 | 78 | 90 |
| | *MHP4-11-30* | 1,025 | 20 | 28 | 36 | 45 | 55 | 66 | 80 | 88 | 100 |
| | *MHP4-11-36* | 1200 | 23 | 31 | 41 | 49 | 60 | 72 | 86 | 98 | 112 |

ACCESSORIES DIMENSIONS (IN.)



ACCESSORIES

| Accessory | | Nomenclature | Magic-Pak Unit | | | | | | Dimensions (in) | | | | |
|--------------------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----|--------|--------|--------|
| | | | *MHP4-11-091*P | *MHP4-11-121*P | *MHP4-11-181*P | *MHP4-11-241*P | *MHP4-11-301*P | *MHP4-11-361*P | A | B | C | D | E |
| 6" Wall Sleeve Kit | for 29" Louver | ASLEEVE6-1 | • | • | • | | | 6 | 29 | 16 | 16-5/8 | 29-1/8 | |
| | for 33" Louver | ASLEEVE6-2 | • | • | • | • | • | 6 | 32-3/4 | 16 | 16-5/8 | 32-7/8 | |
| | for 45" Louver | ASLEEVE6-5 | • | • | • | • | • | • | 6 | 45 | 16 | 16-5/8 | 45-1/8 |
| 8" Wall Sleeve Kit | for 29" Louver | ASLEEVE8-1 | • | • | • | | | 8 | 29 | 16 | 16-5/8 | 29-1/8 | |
| | for 33" Louver | ASLEEVE8-2 | • | • | • | • | • | 8 | 32-3/4 | 16 | 16-5/8 | 32-7/8 | |
| | for 45" Louver | ASLEEVE8-5 | • | • | • | • | • | • | 8 | 45 | 16 | 16-5/8 | 45-1/8 |
| 10" Wall Sleeve Kit | for 29" Louver | ASLEEVE10-1 | • | • | • | | | 10 | 29 | 16 | 16-5/8 | 29-1/8 | |
| | for 33" Louver | ASLEEVE10-2 | • | • | • | • | • | 10 | 32-3/4 | 16 | 16-5/8 | 32-7/8 | |
| | for 45" Louver | ASLEEVE10-5 | • | • | • | • | • | • | 10 | 45 | 16 | 16-5/8 | 45-1/8 |
| 12" Wall Sleeve Kit | for 29" Louver | ASLEEVE12-1 | • | • | • | | | 12 | 29 | 16 | 16-5/8 | 29-1/8 | |
| | for 33" Louver | ASLEEVE12-2 | • | • | • | • | • | 12 | 32-3/4 | 16 | 16-5/8 | 32-7/8 | |
| | for 45" Louver | ASLEEVE12-5 | • | • | • | • | • | • | 12 | 45 | 16 | 16-5/8 | 45-1/8 |
| Thru-The-Wall-Sleeve-Kit | | ASLEEVE-3 | • | • | | | | N/A | 45 | 16 | 16-5/8 | 45-1/8 | |

ACCESSORIES CONTINUED

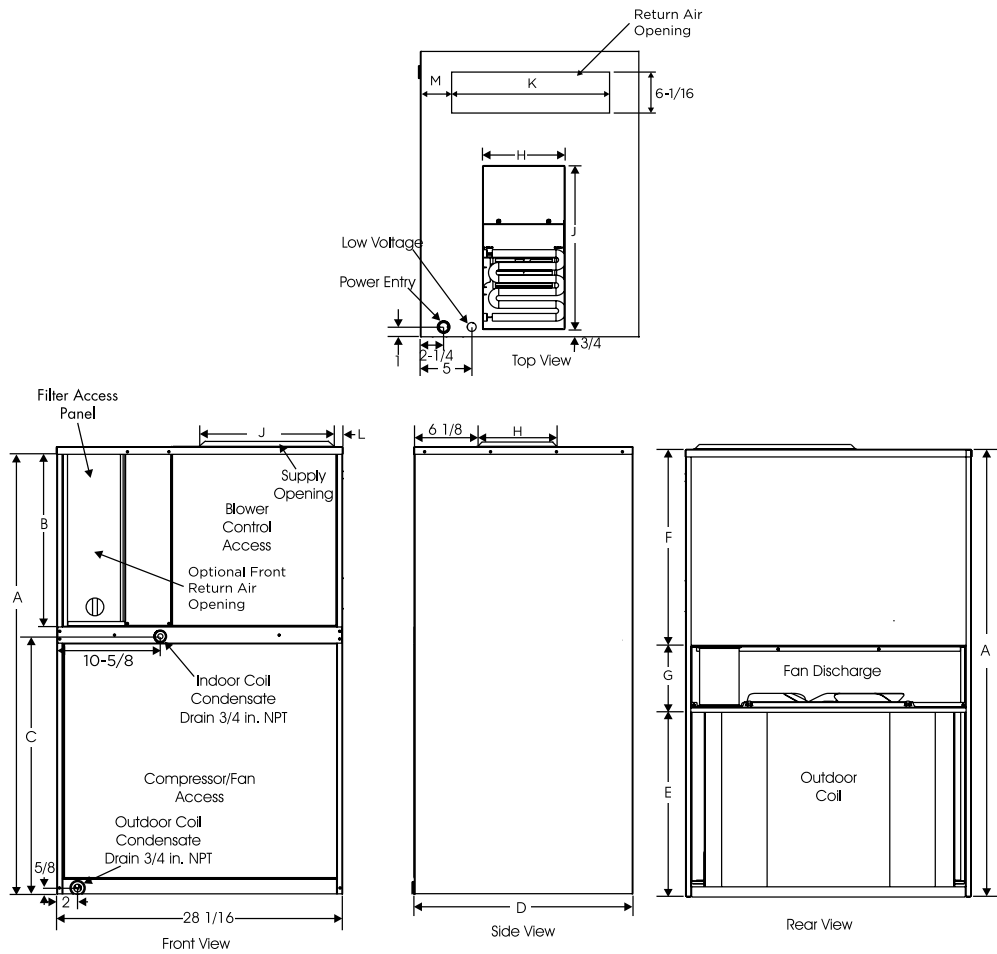
| Accessory | | Nomenclature | Magic-Pak Unit | | | | | |
|-----------------------|---|--------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | *MHP4-11-091*P | *MHP4-11-121*P | *MHP4-11-181*P | *MHP4-11-241*P | *MHP4-11-301*P | *MHP4-11-361*P |
| Polypropylene Louvers | Polypropylene Louver Kit - White (29" Height) | ALVRPWHT-1 | • | • | • | | | |
| | Polypropylene Louver Kit - White (33" Height) | ALVRPWHT-2 | • | • | • | • | • | |
| | Polypropylene Louver Kit - Sandstone (29" Height) | ALVRPSAN-1 | • | • | • | | | |
| | Polypropylene Louver Kit - Sandstone (33" Height) | ALVRPSAN-2 | • | • | • | • | • | |
| | Polypropylene Louver Kit - Beige (29" Height) | ALVRPBGE-1 | • | • | • | | | |
| | Polypropylene Louver Kit - Beige (33" Height) | ALVRPBGE-2 | • | • | • | • | • | |
| | Polypropylene Louver Kit - Taupestone (29" Height) | ALVRPTPST-1 | • | • | • | | | |
| | Polypropylene Louver Kit - Taupestone (33" Height) | ALVRPTPST-2 | • | • | • | • | • | |
| Aluminum Louvers | Extruded Aluminum Louver Kit (29" Height) | ALVRAL-1 | • | • | • | | | |
| | Extruded Aluminum Louver Kit - Custom Color (29" Height) | ALVRAL-1P | • | • | • | | | |
| | Extruded Aluminum Louver Kit (33" Height) | ALVRAL-2 | • | • | • | • | • | |
| | Extruded Aluminum Louver Kit - Custom Color (33" Height) | ALVRAL-2P | • | • | • | • | • | |
| | Extruded Aluminum Louver Kit (45" Height) | ALVRAL-3 | • | • | • | | | |
| | Extruded Aluminum Louver Kit - Custom Color (45" Height) | ALVRAL-3P | • | • | • | | | |
| | Extruded Aluminum Louver Kit (45" Height) | ALVRAL-4 | | | | • | • | • |
| | Extruded Aluminum Louver Kit - Custom Color (45" Height) | ALVRAL-4P | | | | • | • | • |
| Impact Rated Louvers | Extruded Aluminum Louver Kit - Impact Rated (29" Height) | ALVRALC-1 | • | • | • | | | |
| | Extruded Aluminum Louver Kit - Impact Rated / Custom Color (29" Height) | ALVRALC-1P | • | • | • | | | |
| | Extruded Aluminum Louver Kit - Impact Rated (33" Height) | ALVRALC-2 | • | • | • | • | • | |
| | Extruded Aluminum Louver Kit - Impact Rated / Custom Color (33" Height) | ALVRALC-2P | • | • | • | • | • | |

UNIT FILTER SIZE

| Model | Filter Dimensions |
|----------------|-------------------|
| *MHP4-11-091*P | 18 X 20 X 1 |
| *MHP4-11-121*P | |
| *MHP4-11-181*P | 20 X 20 X 1 |
| *MHP4-11-241*P | 24 X 22 X 1 |
| *MHP4-11-301*P | |
| *MHP4-11-361*P | 28 X 22 X 1 |

DIMENSIONS (IN.)

| Model | A | B | C | D | E | F | G | H | J | K | L | M |
|----------------------------------|--------|--------|--------|--------|--------|--------|----|--------|---------|---------|-------|-------|
| *MHP4-11-091*P *MHP4-11-121*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 |
| *MHP4-11-181*P | 47-7/8 | 18-7/8 | 27-1/4 | 21-1/2 | 20-5/8 | 21-1/4 | 6 | 8 | 16 | 19-1/16 | 3/4 | 2-1/4 |
| *MHP4-11-241*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 |
| *MHP4-11-301*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 |
| *MHP4-11-361*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 |



215 Metropolitan Drive | West Columbia, SC 29170
800-448-5872
Product Support 866-282-7257

All specifications and illustrations subject to change without notice and without incurring obligations.