



MAGICPRO
SYSTEM



CENTRAL SYSTEM

EFFICIENT | FLEXIBLE | QUIET

**COMFORT
AT ITS BEST**





COMFORT AT ITS BEST

The world is constantly evolving, so is the Direct Air branded home comfort and light commercial product offering. The **MAGIC PRO SYSTEM** is truly comfort at its best.

Our inverter central system provides installation flexibility, extreme energy efficiency, is exceptionally quiet, and just might be the most compact system on the market.

- **Up to 20 SEER and 10 HSPF**
- **Dual-fuel capable when matched with a gas furnace and evaporator.**
- **Superior low ambient heat output, 100% output at -15° C with a COP up to 2.0, 75% output at -25° C (model dependent)**

and much, much more, while not compromising on comfort.

Direct Air Magic Pro heat pumps can be matched with the Magic Pro System air handler, or an existing furnace and evaporator coil, saving you and your contractor time and money. Their compact size is designed to fit any unique home or business exterior. Their adjustable inverter modulates according to the actual needs of the living space, thus reducing energy consumption and also the noise level of the indoor and outdoor units.

FEATURES AND BENEFITS

- Up to 20 SEER and 10 HSPF
- Available in 1½, 2, 2½, 3, and 4-ton models (5-ton model coming soon)
- Supports heat pump and dual-fuel heating capabilities
- Superior low ambient heat output: 100% output at -15° C with COP up to 2 and 75% output at -25° C
- User-customizable set point for heat pump to auxiliary heat (gas or electric) change over temperatures
- Reduced replacement installation cost by using existing refrigerant lines and control wiring
- The Magic Pro System is compatible with most 24-Volt thermostats
- Smart diagnostics and adaptive control system



STANDARD FEATURES

- Multi position (up/down/left/right)
- Compatible with both 24V and Direct Air's RS485 (included) communication modes
- Direct Air's RS485 control allows the use of the modulating system to its full potential*
- Aluminum evaporator coil
- Equipped with optional auxiliary heat kit up to 20kW
- Compatible with most 4-ton condensing units already installed
- Variable speed with ECM motor
- Electronic expansion valve (EEV)

* Compatible with the installation of a complete Direct Air system (indoor and outdoor units) only



STANDARD FEATURES

- Compact size
- Reduced replacement installation cost by using existing refrigerant lines and wiring controls
- Intelligent diagnostic and adaptive control system
- Quiet Operation - inverter system running at significantly lower dB level
- Compatible with most furnaces and air handlers up to 4 tons already installed

COMPACT SIZE FITS ANY SPACE

Thinner design and lighter weight provide unmatched flexibility to fit in any unique home space

QUIET OPERATION SUITS ANY LIFESTYLE

DUAL FUEL COMPATIBILITY

For colder months or optimizing operational cost, **Magic Pro Systems** can be paired with existing gas furnaces to provide a reliable heat source under the most extreme climates.

100% heating output at -15° C
75% heating output at -25° C

| TECHNICAL SPECIFICATIONS | | | DIRM-18MAGICPRO20-OU | DIRM-24MAGICPRO20-OU | DIRM-30MAGICPRO20-OU | DIRM-36MAGICPRO20-OU | DIRM-48MAGICPRO20-OU | DIRM-60MAGICPRO20-OU |
|---|--|-------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Outdoor Unit Model | | | | | | | | |
| Capacity | | | 18K | 24K | 30K | 36K | 48K | 55K |
| Power Supply (rated) | V, Ph, Hz | | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| Minimum circuit ampacity | A | | 16 | 20.5 | 23 | 41 | 42 | 42 |
| Max Fuse | A | | 20 | 35 | 35 | 50 | 50 | 60 |
| Fan Motor | qty | | 1 | 1 | 1 | 2 | 2 | 2 |
| Cooling (Standard conditions) | Rated Capacity (range) | BTU/h | 18 000 (6 880 - 21 000) | 24 000 (6 400 - 27 000) | 30 000 (10 400 - 33 600) | 36 000 (12 000 - 47 400) | 47 000 (18 000 - 48 000) | 55 000 (14 000 - 56 000) |
| | SEER | BTU/W | 20 | 20 | 18 | 18 | 16 | 16.4 |
| Heating at 47 °F (8.3 °C) (Standard conditions) | Capacity (range) | BTU/h | 19 000 (2 800 - 21 000) | 24 000 (10 100 - 31 000) | 33 000 (12 000 - 37 000) | 40 000 (9 000 - 57 200) | 50 000 (20 000 - 55 000) | 50900 (13 400 - 69 000) |
| | COP | W/W | 3.59 | 3.45 | 3.48 | 3.45 | 3.00 | 3.50 |
| | HSPF (region 4) | BTU/W | 11 | 12 | 10.5 | 10.5 | 10 | 10.5 |
| | HSPF (region 5) | BTU/W | 9.0 | 10.0 | 8.4 | 8.5 | 8.5 | 8.6 |
| Heating at 5 °F (-15 °C) | Capacity | BTU/h | 18 000 | 24 000 | 28 500 | 43 300 | 47 000 | 50 900 |
| | COP | W/W | 1.90 | 1.80 | 1.95 | 1.80 | 1.88 | 1.92 |
| Outdoor Sound Level | | dB(A) | 58 | 64 | 61.5 | 64 | 64 | 63.5 |
| Dimensions | W × D × H | mm | 890 × 342 × 673 | 946 × 410 × 810 | 946 × 410 × 810 | 952 × 415 × 1333 | 952 × 415 × 1333 | 952 × 415 × 1333 |
| | | inch | 35 × 13.50 × 26.50 | 37.25 × 16.14 × 32 | 37.25 × 16.14 × 32 | 37.50 × 16.34 × 52.50 | 37.50 × 16.34 × 52.50 | 37.48 × 16.34 × 52.48 |
| Weight | Net • Gross | kg | 46.7 • 49.8 | 62 • 66 | 72.5 • 77 | 103 • 116 | 103 • 116 | 108.8 • 123.2 |
| | | lb | 102.95 • 109.79 | 136.69 • 145.50 | 159.83 • 169.75 | 227.07 • 255.73 | 227.07 • 255.73 | 239.86 • 271.61 |
| Refrigerant | Type / Charge | g | R410A / 2 300 | R410A / 2 900 | R410A / 3 800 | R410A / 4 700 | R410A / 4 800 | R410A / 4800.14 |
| | | oz | R410A / 81.13 | R410A / 102.32 | R410A / 134.04 | R410A / 165.79 | R410A / 169.31 | R410A / 169.32 |
| Refrigerant precharge | | ft | 25 | 25 | 25 | 25 | 25 | |
| Refrigerant Piping | Liquid Side • Gas Side | mm | 9.5 • 16 | 9.5 • 16 | 9.5 • 16 | 9.5 • 19 | 9.5 • 19 | 9.52 • 22 |
| | | inch | 3/8 • 5/8 | 3/8 • 5/8 | 3/8 • 5/8 | 3/8 • 3/4 | 3/8 • 3/4 | 3/8 • 7/8 |
| | Max. Pipe Length | m | 30 | 50 | 65 | 65 | 65 | 65 |
| | | ft | 98 | 164 | 213 | 213 | 213 | 213.25 |
| Max. Difference in Level | m | 20 | 25 | 30 | 30 | 30 | 30 | |
| | ft | 66 | 82 | 98 | 98 | 98 | 98.42 | |
| Operating Temperatures (range) | Cooling | °C | -30 - 50 | -15 - 50 | -15 - 50 | -15 - 50 | -15 - 50 | -15 - 50 |
| | | °F | -22 - 122 | 5 - 122 | 5 - 122 | 5 - 122 | 5 - 122 | 5 - 122 |
| | Heating | °C | -35 - 24 | -35 - 24 | -35 - 24 | -35 - 24 | -35 - 24 | -35 - 24 |
| | | °F | -31 - 75 | -31 - 75 | -31 - 75 | -31 - 75 | -31 - 75 | -31 - 75 |
| Certification | AHRI / ccASHP / NEEP / c ETL us / Intertek | | | | | | | |

| Indoor Unit Model | | DIRM-18MAGICPRO20-AH | DIRM-24MAGICPRO20-AH | DIRM-30MAGICPRO20-AH | DIRM-36MAGICPRO20-AH | DIRM-48MAGICPRO20-AH | DIRM-60MAGICPRO20-AH | |
|---|-------------------------------|----------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|
| Cooling (Standard conditions) | Rated Capacity (range) | BTU/h | 18 000 (6 880 - 21 000) | 24 000 (6 400 - 27 000) | 30 000 (10 400 - 33 600) | 36 000 (12 000 - 47 400) | 47 000 (18 000 - 48 000) | 55 000 (14 000 - 56 000) |
| | SEER | BTU/W | 20 | 20 | 18 | 18 | 16 | 16.4 |
| Heating at 47 °F (8.3 °C) (Standard conditions) | Capacity (range) | BTU/h | 19 000 (2 800 - 21 000) | 24 000 (10 100 - 31 000) | 33 000 (12 000 - 37 000) | 40 000 (9 000 - 57 200) | 50 000 (20 000 - 55 000) | 50900 (13 400 - 69 000) |
| | COP | W/W | 3.59 | 3.45 | 3.48 | 3.45 | 3.00 | 3.50 |
| | HSPF (region 5) | BTU/W | 9.0 | 10.0 | 8.4 | 8.5 | 8.5 | 8.6 |
| Heating at 5 °F (-15 °C) | Capacity | BTU/h | 19 000 | 24 000 | 28 500 | 43 300 | 47 000 | 50 900 |
| | COP | W/W | 1.90 | 1.80 | 1.95 | 1.80 | 1.88 | 1.92 |
| Indoor Air Flow | Hi • M • Lo | CFM | 576.47 • 529.41 • 488.24 | 758.82 • 694.12 • 629.41 | 894.12 • 805.88 • 711.76 | 1 082.35 • 970.59 • 864.71 | 1 282.35 • 1 094.12 • 905.88 | 1582.35 • 1358.82 • 1135.29 |
| Indoor Sound Level | Hi • M • Lo | dB(A) | 36 • 34 • 32 | 43 • 40.5 • 35 | 43 • 40 • 30.5 | 46.8 • 44 • 41.3 | 53 • 50 • 46 | 51 • 45.5 • 41.5 |
| Indoor Unit | Dimensions (W × D × H) | mm | 445 × 534 × 1143 | 445 × 534 × 1143 | 534 × 534 × 1245 | 534 × 534 × 1245 | 534 × 534 × 1245 | 534 × 622 × 1346 |
| | | inch | 17.5 × 21 × 45 | 17.5 × 21 × 45 | 21 × 21 × 49 | 21 × 21 × 49 | 21 × 21 × 49 | 21.02 × 24.49 × 52.99 |
| | Weight Net • Gross | kg | 48 • 58.7 | 48 • 58.7 | 58.5 • 70.3 | 58.5 • 70.3 | 59.0 • 70.8 | 73.8 • 86.5 |
| Refrigerant Piping Diameter | Liquid side • Gas side | mm | 106 • 129 | 106 • 129 | 129 • 155 | 129 • 155 | 130 • 156 | 162.70 • 190.70 |
| | | inch | 9.5 • 19 | 9.5 • 19 | 9.5 • 19 | 9.5 • 19 | 9.5 • 19 | 9.52 • 22 |
| External Static Pressure (ESP) | | inch wc | 3/8 • 3/4 | 3/8 • 3/4 | 3/8 • 3/4 | 3/8 • 3/4 | 3/8 • 3/4 | 3/8 • 7/8 |
| Control | Wireless remote controller | | Standard | Standard | Standard | Standard | Standard | Standard |
| | Programmable wired controller | | Standard | Standard | Standard | Standard | Standard | Standard |
| | Wi-Fi | | Optional | Optional | Optional | Optional | Optional | Optional |
| | 24-Volt ready | | Yes | Yes | Yes | Yes | Yes | Yes |



WARRANTY*



10
YEARS
LIMITED WARRANTY
COMPRESSOR



10
YEARS
WARRANTY
PARTS

* Residential installation: 10-year limited warranty on compressor and 10-year warranty on parts

Commercial installation: 5-year limited warranty on compressor and 1-year warranty on parts

Direct Air will replace any part found to be defective during this period. Labour costs are not covered by this warranty.

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