



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		0.1	0.15	0.15	0.15	0.24	
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*

* 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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