



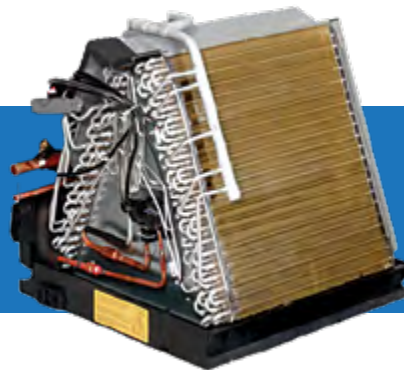
COMFORT AT ITS BEST

MAGICPRO SYSTEM



**NOVO
CLIMAT 2.0**

CENTRAL SYSTEM
EFFICIENT | FLEXIBLE | QUIET



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)*

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

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								
Outdoor Unit Model			DIRM-18MAGICPRO20-OU	DIRM-24MAGICPRO20-OU	DIRM-30MAGICPRO20-OU	DIRM-36MAGICPRO20-OU	DIRM-48MAGICPRO20-OU	DIRM-60MAGICPRO20-OU
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	25
Pipe connections 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 • 3/4	3/8 • 3/4	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						

**Two adaptors included: 1x solder 3/4 to flare 5/8 and 1x flare 3/4 to flare 5/8

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	Turbo • Hi • M • Lo	CFM	660 • 541 • 529 • 488	880 • 758 • 694 • 629	1100 • 894 • 805 • 711	1320 • 1082 • 970 • 864	1760 • 1282 • 1094 • 905	2195 • 1582 • 1358 • 1135
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	Liquid side • Gas side	mm	9.5 • 19	9.5 • 19	9.5 • 19	9.5 • 19	9.5 • 19	9.52 • 22
		inch	3/8 • 3/4	3/8 • 3/4	3/8 • 3/4	3/8 • 3/4	3/8 • 3/4	3/8 • 7/8
External Static Pressure (ESP)	inch wc		0.1	0.1	0.15	0.15	0.2	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

Model - Evaporator coil		DIRM-24MAGICPRO20-COIL	DIRM-36MAGICPRO20-COIL	DIRM-48MAGICPRO20-COIL
Cooling Capacity	BTU/h	24 000	36 000	46 000
Heating Capacity	BTU/h	25 000	39 000	51 000
Heating Capacity at 5 °F/-15 °C	BTU/h	20 000	32 000	40 000
SEER2	BTU/W	16.8	14.8	14.3
EER2	BTU/h / W	10.7	9.8	8.6
HSPF2 (region 4)	BTU/W	9.5	10	9
HSPF2 (region 5)	BTU/W	7.7	8	7.5
5 °F/-15 °C COP	Q/W	1.95	2	1.8
"Uncased Coil Dimension (W"D"H)"	inch	16 x 20 x 16.1	19.5 x 20 x 21.1	19.5 x 20 x 21.1
"Uncased Coil Dimension (W"D"H)"	mm	408 x 510 x 408	497 x 510 x 537	497 x 510 x 537
Refrigerant Piping Diameter	Liquid side • Gas side	inch (mm)	3/8 • 3/4 (9.5 • 19)	3/8 • 3/4 (9.5 • 19)

TXV factory installed



WARRANTY*



LIMITED
WARRANTY
COMPRESSOR



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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