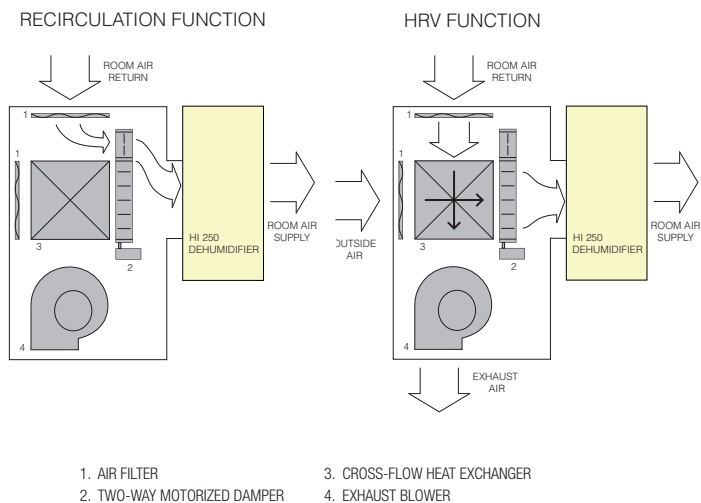


AIR-MAGIC HRV500 (AM1690) HEAT RECOVERY VENTILATION FOR NTD500 UNIT

The air magic HRV500 units HRV function is related to the combination of the air magic HRV500 with the air magic NTD500 and the recovery unit is powered and controlled by the electronic board on the dehumidifier. Connecting the HRV module upstream from the dehumidifier air return (the unit is reversible to exchange the room air return and exhaust way) creates a compact air treatment station with heat recovery from the exhaust air. The dehumidifier itself reduces internal air moisture, but this add-on module also allows a supply of make-up clean outside air. Air ventilation can be total or partial (with recirculation) by manually adjusting the damper to the appropriate opening. HRV function is activated by specific bus command (Monobus) with RS485 serial connection, also be activated by closing the dry contact [HRV].



OPERATING SCHEME



OPERATING FUNCTIONS

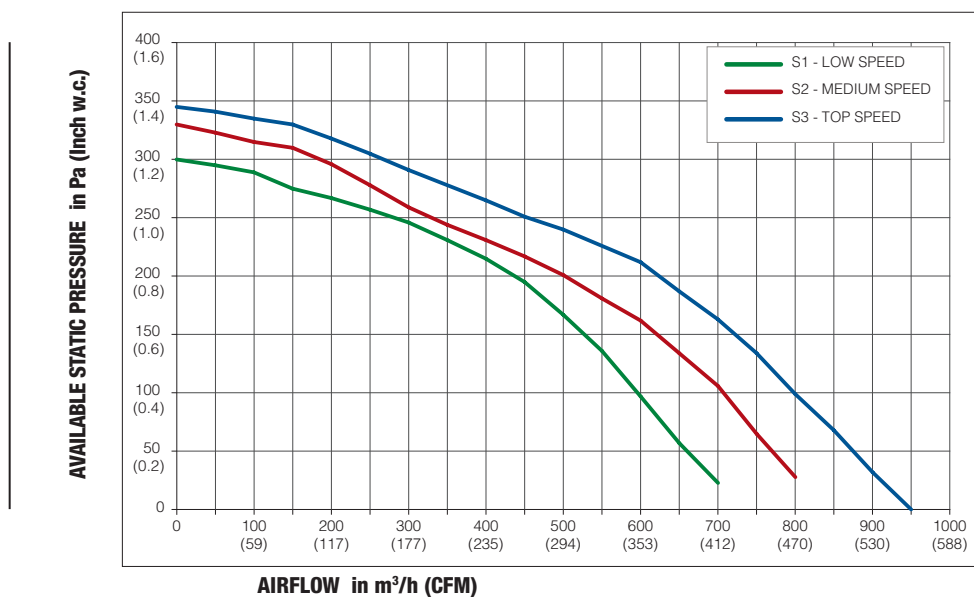
- **Recirculation Function**

In recirculation mode, the two-way motorized damper excludes the cross-flow heat exchanger allowing you to dehumidify the air supply without making the ventilation

- **HRV Function**

In HRV mode, the two-way motorized damper diverts the flow to the cross-flow heat exchanger allowing the entry of fresh air from the outside and recovering 58% of the heat of the exhaust air with primary / exhaust ratio 1/1 and up to 67% with primary / exhaust ratio 0.75/1

AVAILABLE STATIC PRESSURE (ASP) CURVES NTD500+HRV500



TECHNICAL SPECIFICATIONS

THERMAL SPECIFICATION	Heat recovery efficiency whit primary / exhaust ratio 1/1	%	57
	Heat recovery efficiency whit primary / exhaust ratio 0.75/1	%	70
	Maximum heat absorbed ¹	Btu/h	6820.4
	Nominal Airflow	CFM	470
	Max. available static pressure speed 3	inch of w.c.	0.72
	Ventilation head loss	inch of w.c.	0.3
	Recirculation head loss	inch of w.c.	0.2
	Sound power level	dB(A)	39
	Sound pressure level at 3.28 ft.	dB(A)	36

¹ At the following conditions: external temperature air at 32°F room supply air temperature at 68°F and outlet air flow equal to inlet

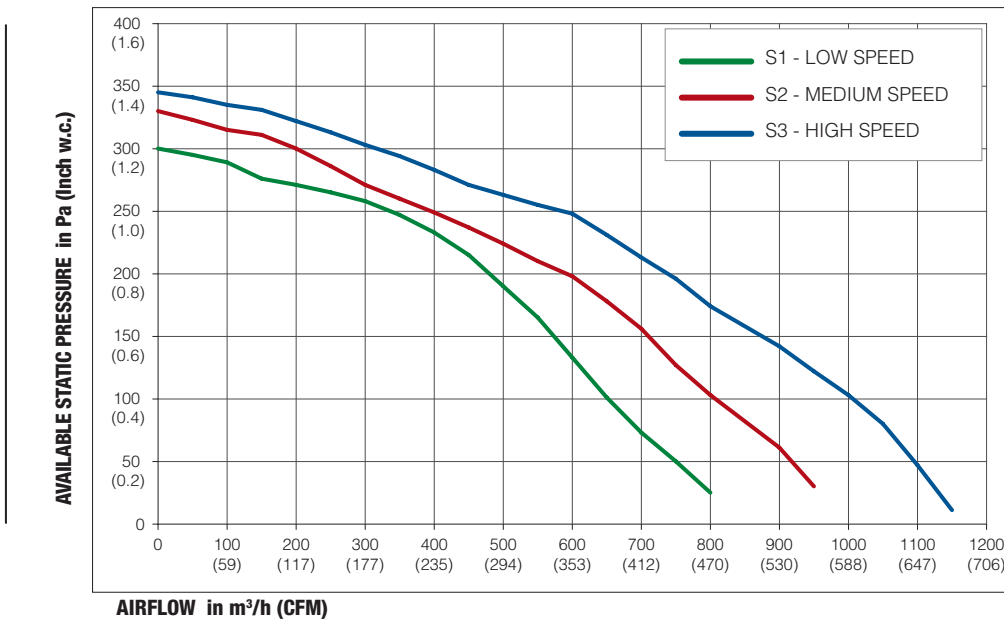
ELECTRICAL SPECIFICATION	Rated power consumption ¹	W	180
	Max. power consumption (blower speed 3)	W	200
	Rated Amps absorbed ¹	Amps	1.7
	Max. Amps. absorbed	Amps	1.9
	Dust and water protection rating		IP 44
	Power supply	VAC / Ph / Hz	110 / 1+N / 60

¹ At the following conditions: external temperature air at 32°F room supply air temperature at 68°F and outlet air flow equal to inlet

DIMENSIONS AND WEIGHTS	Height	inch	13.90
	Width	inch	25.75
	Depth	inch	38.74
	Weight	lbs.	99.20

BOX CONTENTS	HRV500, Installation kit and user's manual
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AVAILABLE STATIC PRESSURE (ASP) CURVES HRV500



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