## **SUBMITTAL DATA**



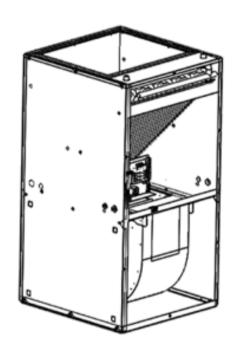
MODEL NO	VHB504A HYDRONIC	AIR HANDL	_ER
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JOB NAME:	LOCATION:		DATI	E <b>:</b>	
PURCHASER:	ENGINEER:				
SUBMITTED TO:	FOR:	REVIEW (	)	APPROVAL (	)

- CHOICE OF INDEPENDENT HEATING ( 8 SPEEDS) & INDEPENDENT COOLING ( 8 SPEEDS) Adjusted in 100 cfm increments
- BUILT-IN DEHUMIDIFICATION OPTION
- ZONING CAPABILITIES
- INTELLIGENT DHW PRIORITY
- HOT WATER COIL FREEZE PROTECTION BUILT-IN
- TO STAGE COOLING
- PREMIUM HOT WATER COIL
- INSULATED CABINET
- 24-HOUR PUMP CIRCULATION TIMER
- CONSTANT CFM ECM BLOWER WITH CONTINUOUS LOW SPEED FAN
- WARM UP & COOL DOWN OF HEATING COIL ON EVERY CALL FOR HEAT (P911)
- SUITABLE FOR LOW VELOCITY OR MID VELOCITY APPLICATIONS
- DYNAMIC CONTROL STRATEGY
- AHRI CERTIFIED CONDENSOR AND EVAPORATOR AVAILABLE

CFM	GPM	140*	160*	180*
900	3	42,720	55,160	67,640
	4	45,910	59,250	72,610
	5	47,960	61,860	75,790
1000	3	45,210	58,400	71,620
	4	48,930	63,160	77,430
	5	51,340	66,240	81,170
1100	3	47,450	61,310	75,210
	4	51,700	66,750	81,840
	5	54,480	70,310	86,170
1200	3	49,480	63,950	78,460
	4	54,240	70,050	85,910
	5	57,400	74,090	90,830
1300	3	51,320	66,340	81,400
	4	56,590	73,100	89,670
	5	60,120	77,620	95,170

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



SPECIFICATION	VALUE
Heating Capacities	50,000 BTU/h @ 3GPM @ 140F
Cooling Capacities	1 to 4 tons up to 0.7 " wc
	1 to 3 tons up to 1.4" wc
Airflow	1600 CFM up to 0.7" wc
	1200 CFM up to 1.4" wc
Dimensions	21 1/8" W x 22" D x 39 ¾" H
Power	120V-60-1
	6A
	15A fuse
Blower Motor	¾ HP − ECM fully variable
Control	Modulating, 1 and 2 stage
Compatibilities	Alizé and any type of A/C-HP
	Smart Duct w/ Smart Zoning System
	Any 1-2 stage thermostat and Dettson's
	communicating thermostat for Smart Duct
	System
Construction	Multiposition
	Cabinet: 22 Ga powder coated steel
	Inner panels 22 Ga galvanized steel
	Insulation ½" inside blower compartment and
	door
Certification	CSA (US & Canada)
	CSA-C22.2 No.236-05, 3rd Edition, Feb.2005 -
	Heating and Cooling Equipment
	UL 1995, 3rd Edition, Feb.2005 - Heating and
	Cooling Equipment
	NSF 372: Drinking Water Systems Components
	– Lead Content

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Features	V-series Hydromaxx	Notes
CFM Increments 720-1600 Heating & 300-500 cfm per ton Cooling speeds, adjust in 100 CFM increments	Yes	1
Switch 24V to Power Accessories	avail @ term	
Built in Dehumidification Option	Yes	2
Zoning Option	Yes	3,11
Intelligent DHW Priority	Yes	4
Hot Water Coil Freeze Protection Built-in	optional	
Two Stage Cooling	Yes	5
2 Stage or single Stage Heating	Yes	6
Premium Hot Water Coil	Yes	
Insulated Cabinet	Yes	
Standard Pump Included	yes	
Can operate STD Pump or EC	Yes	7,8
24 Hour Pump Circulation Timer	Yes	
Multi-Position	Yes	
Constant CFM ECM Blower with Continuouse Low Speed Fan	Yes	9,10
Warm Up & Cool Down of Heating Coil on Every Call for Heat	Yes	
Suitable for Low Velocity or Mid Velocity Applications	Yes	
Constant Pressure Technology	Yes	1
Warm Up & Cool Down of Heating Coil on Every Call for Heat	Yes	

- 1. Choose the required CFM independently for heating & cooling modes .
- 2. Removes humidity faster in colling modes, resulting in increased comfort.
- 3. Factory supplied option; field installed up to 4 zones.
- 4. Unit monitors length of DHW calls and takes action to maximize comfort when flow switch is installed.
- 5. 2 stage cooling, can operate more efficient A/C units.
- 6. Can operate in Full modulation, 3 stage or single stage heating mode.
- 7. Allows for the correct sizing of pump for the designed system.
- 8. Allows for choice of STD AC pump or ECM pump.
- 9. Motor automatically ramps up to provide Constant CFM as filters get dirty.
- 10. Continuous fan can operate at selected heat cfm or 1/2 of selected heat CFM.
- 11. Automatically adjusts air flow to compensate for opening and closing of the vents. Reduces noise & energy.









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