

# Variable Frequency Drive

## **VFD** (ABB ACH550)

### **Description**

The ABB ACH550 Drive is a full featured, industrial type variable frequency drive (VFD) programmed specifically to control and adjust the speed of fans and ventilators operating on 3-phase voltage. The VFD includes a removable keypad, built-in mounting brackets and a removable front cover to access control terminals. The built-in LCD display indicates various parameters including motor frequency, amperage and alarm conditions.

The ABB ACH550 Drive is used with ENERVEX's CASV™ and CASI™, Chimney Automation Systems, MDVS™, Mechanical Dryer Venting Systems, MCAS™, Modulating Combustion Air Systems, MBES™, Modulating Building Exhaust Systems and MFES™, Multiple Fireplace Exhaust Systems.

ACH550 Drives are available from 1.5 HP through 20 HP in 200 VAC and 1.5 HP through 30 HP in 400 VAC Input Classes (see back for detailed specifications).

The VFD is pre-programmed by ENERVEX for its specific application. If program changes are necessary, the settings can be adjusted using the VFD keypad panel.

### **Material**

The frame is made of aluminum while the cover is PC/ABS plastic. The enclosure is UL Type 1 and NEMA 1 rated.

### **Maintenance**

No special maintenance is required.

### **Approvals**

Tested and listed to UL and cUL standards.  
CE compliant.

### **Warranty**

2-year factory warranty.



Specifications are subject to change without notice.

**Volko Supply**  
[www.enervexfansource.com](http://www.enervexfansource.com)  
**800 685 8263**

## Specifications

Frequency Reference Signal	0-10 VDC
Input Signal	Start/Stop, multistep speed setting
Ambient Temperature for Transportation and Storage	-24 to 130°F (-40 to 70°C)
Ambient Temperature for Operation	11 to 102°F (-15 to 50°C)
Acceleration Time	0.1 to 1800 seconds
Protective Functions	Drive overheating, external fault, CPU malfunction, motor overload, memory error, undervoltage, overvoltage, communication error, ground fault
Communication	Embedded Fieldbus supporting Modbus RTU (EIA-485), Johnson Controls N2; Siemens Building Technology FLN (P1); BACnet (MS/TP)

## Drive Ratings and Dimensions

200 Volt Class Input													
Item No.	HP	Max. Output Current (50°C)	Power Supply	Weight		Height (H1)		Height (H2)		Width (W)		Depth (D)	
				Lbs	kg	in	mm	in	mm	in	mm	in	mm
EXH0401	1.5	5.9	3x200-240	14.3	6.5	14.53	369	12.99	3300	4.92	125	8.35	212
EXH0402	2.0	6.8		14.3	6.5	14.53	369	12.99	3300	4.92	125	8.35	212
EXH0403	3.0	10.8		14.3	6.5	14.53	369	12.99	3300	4.92	125	8.35	212
EXH0404	5.0	15.3		14.3	6.5	14.53	369	12.99	3300	4.92	125	8.35	212
EXH0405	7.5	21.6		19.8	9.0	18.46	469	16.93	430	4.92	125	8.74	222
EXH0406	10.0	27.9		19.8	9.0	18.46	469	16.93	430	4.92	125	8.74	222
EXH0407	15.0	41.4		35.2	16.0	22.95	583	19.29	490	7.99	203	9.09	231
EXH0408	20.0	53.1		35.2	16.0	22.95	583	19.29	490	7.99	203	9.09	231
400 Volt Class Input													
EXH0421	1.5	3.0	3x380-480	14.3	6.5	14.53	369	12.99	330	4.92	125	8.35	212
EXH0422	2.0	3.7		14.3	6.5	14.53	369	12.99	330	4.92	125	8.35	212
EXH0423	3.0	6.2		14.3	6.5	14.53	369	12.99	330	4.92	125	8.35	212
EXH0424	5.0	7.9		14.3	6.5	14.53	369	12.99	330	4.92	125	8.35	212
EXH0425	7.5	10.8		14.3	6.5	14.53	369	12.99	330	4.92	125	8.35	212
EXH0426	10.0	13.5		19.8	9.0	18.46	469	16.93	430	4.92	125	8.74	222
EXH0427	15.0	20.7		19.8	9.0	18.46	469	16.93	430	4.92	125	8.74	222
EXH0428	20.0	27.9		35.2	16.0	22.95	583	19.29	490	7.99	203	9.09	231
EXH0429	25.0	34.2		35.2	16.0	22.95	583	19.29	490	7.99	203	9.09	231



Volko Supply

[www.enervexfansource.com](http://www.enervexfansource.com)

800 685 8263

ENERVEX Inc.  
1685 Bluegrass Lakes Pkwy.  
Alpharetta, GA 30004

P: 770.587.3238  
F: 770.587.4731  
T: 800.255.2923  
info@enervex.com  
www.enervex.com

**ENERVEX**<sup>®</sup>  
GREEN BEFORE GREEN WAS IN

