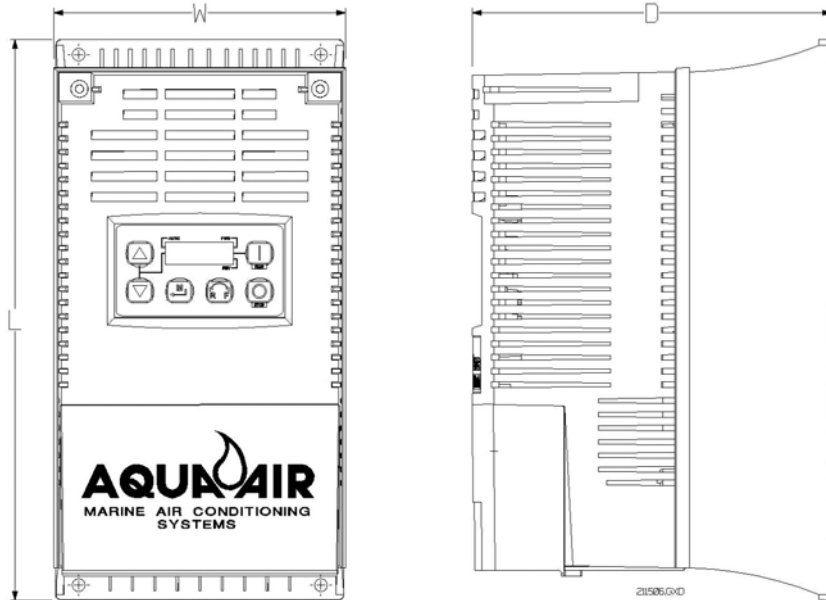


The **ESV Series** Variable Frequency Drive (VFD) modules are designed to operate with the Aqua-Air Alpha Series chillers in the 2-25 ton range. The purpose of the VFD is to eliminate the current spike produced by a compressor when it starts. The VFD starts the compressor by gradually increasing, in a linear manner, voltage and frequency to the compressor's motor. This keeps the amperage draw of the compressor, during starting, from ever exceeding its normal running amperage.

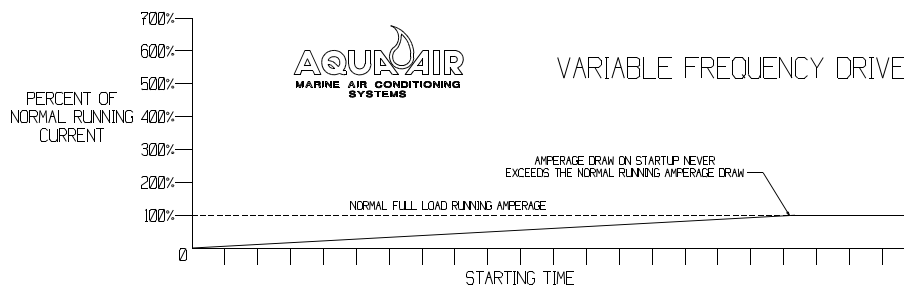
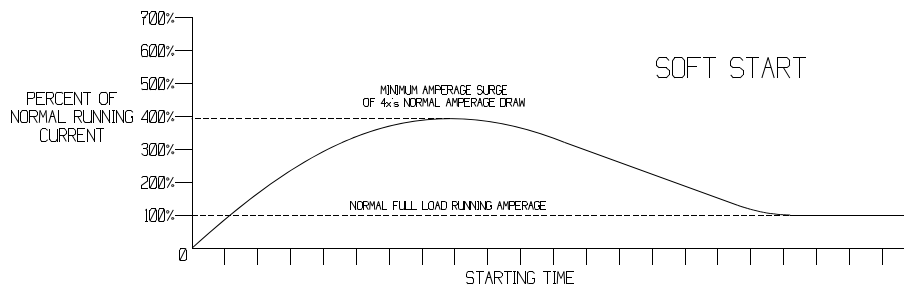
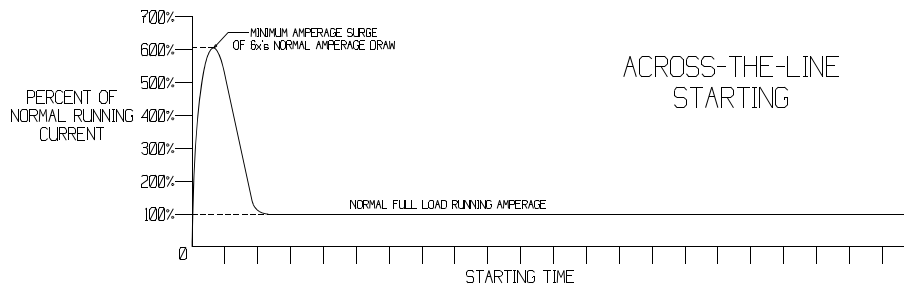
The ESV Series of VFD's are available in models that will accept voltages in the range from 200-240 volt, single or three phase, 50 or 60 cycles or 380-460 volt, three phase, 50 or 60 cycle. All chiller units that are used with the ESV modules must be equipped with three phase compressors.



MODEL NUMBER	POWER SUPPLY	HP	DIMENSIONS			WEIGHT
			L	W	D	
211506-07 211507-07	200-240 380-480	7.5	9-7/8" 250mm	5-1/8" 130mm	6-1/4" 160mm	6.0 lbs 2.0 kgs
211506-10 211507-10	200-240 380-480	10				
211506-15 211507-15	200-240 380-480	15	12-1/2" 318mm	7" 176mm	8-1/8" 205mm	13.6 lbs 6.2 kgs
211506-20 211507-20	200-240 380-480	20				
211507-30	380-480	30				

MODEL NUMBER	INPUT POWER SUPPLY	RATED OUTPUT CURRENT, AMPS	MAXIMUM CHILLER SIZE, TONS
211506-07 211507-07	240/1or3/50-60 380-480/3/50-60	23.0 12.6-11.0	4
211506-10 211507-10	240/1or3/50-60 380-480/3/50-60	29.0 16.1-14.0	6
211506-15 211507-15	240/1or3/50-60 380-480/3/50-60	42.0 24.0-21.0	10
211506-20 211507-20	240/1or3/50-60 380-480/3/50-60	54.0 31.0-27.0	15
211507-30	380-480/3/50-60	46.0-40.0	20

THE GRAPHS BELOW SHOW THE DIFFERENCE IN STARTING AMPERAGE DRAW BETWEEN A COMPRESSOR THAT IS STARTED
1) ACROSS-THE-LINE 2) WITH A SOFT START MODULE AND
3) WITH THE AQUA-AIR VARIABLE FREQUENCY DRIVE (VFD)



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AQUA-AIR MANUFACTURING, division of the James D. Nall Co., Inc.
1050 East 9th Street, Hialeah, Florida 33010 U.S.A.
Ph. 305-884-8363 Fax 305-883-8549 Email sales@aquair.com