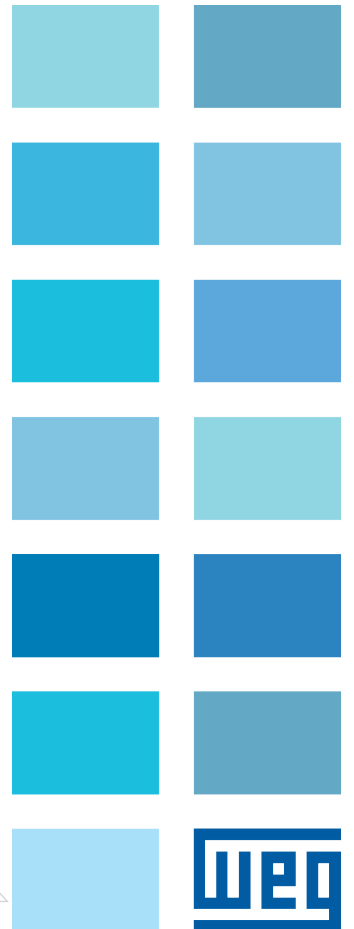
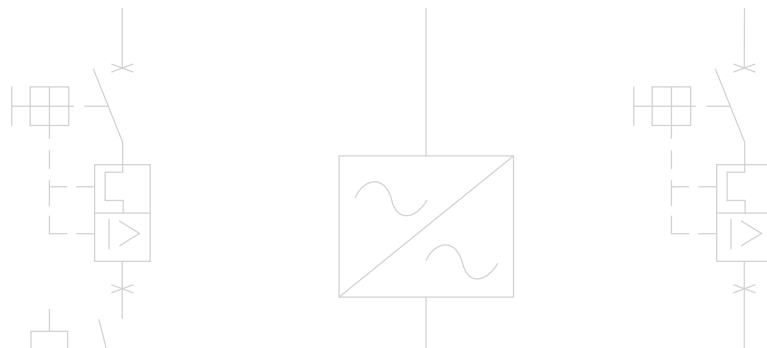


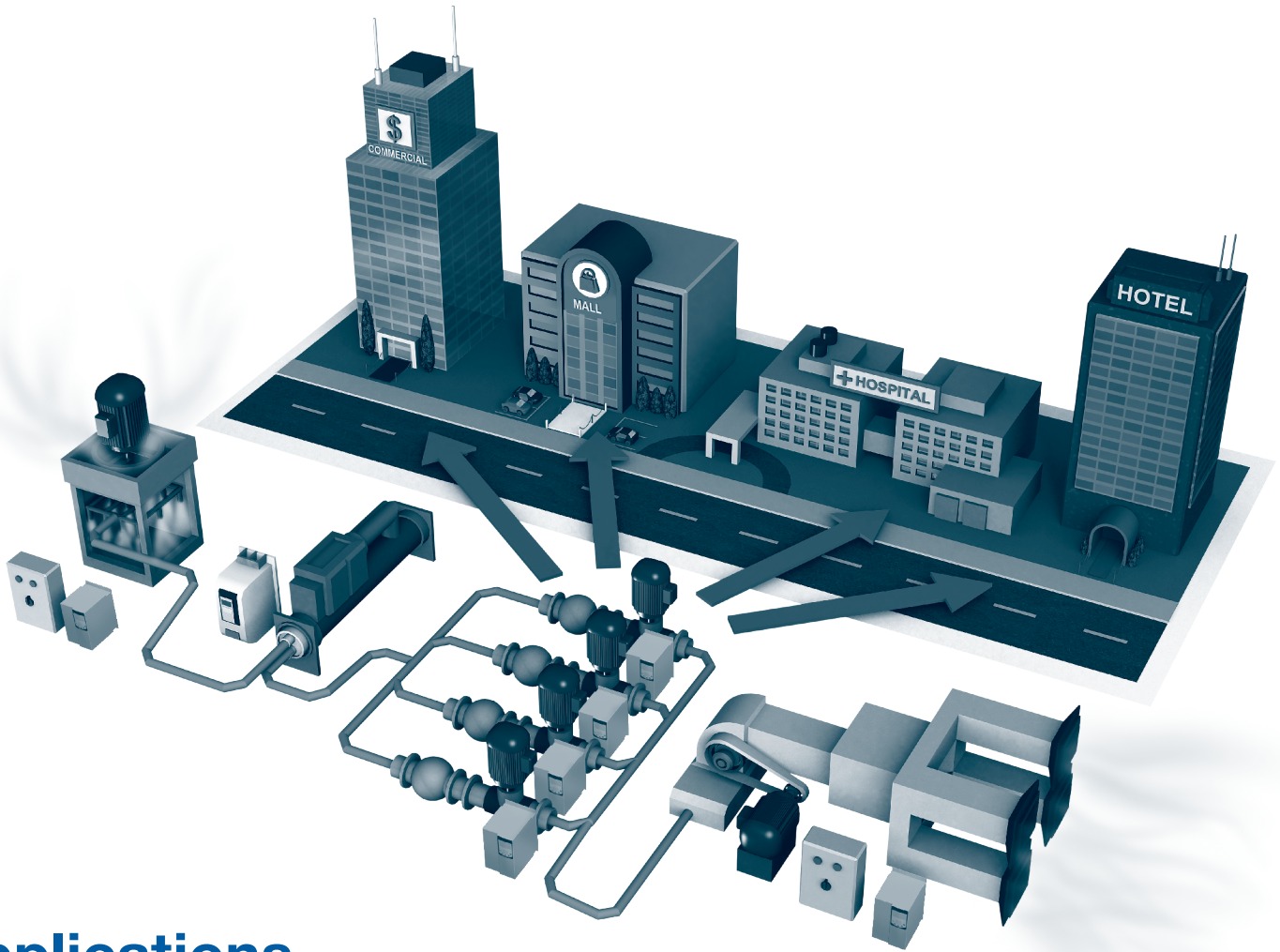
# HVAC-R Drive Products

Designed Especially for  
HVAC Systems



# WEG HVAC-R Products

WEG, a leading supplier of AC motor control technology and automation products, has enhanced the line of variable frequency drives for heating, ventilation, air conditioning and refrigeration. The WEG HVAC-R Portfolio of products is designed with the features and functions required for HVAC systems, with the same reliability, robustness and energy-efficient control known in our industrial lines. WEG now brings this technology to hospitals, airports, office buildings, hotels, shopping centers as well as other commercial and industrial facilities.



## Applications

- Hospitals
- Airports
- Shopping Malls
- Sports Facilities
- Schools and Universities
- Hotels and Restaurants
- Condominium and Residential
- Municipal and Commercial Buildings
- Chillers and Compressors
- Cooling Towers
- Boiler Circulation Pumps
- Chill Water Circulation Pumps
- Exhaust Fans
- Clean Room Air Handling
- Tunnel Ventilation

# WEG HVAC-R Products

## Drive Features

- RFI filter built-in for all frame sizes
- BACnet, Metasys N2 and Modbus-RTU embedded using the RS-485 port
- Thermal Management for drive fan control
- Soft PLC Function
- Process feedback in engineering units
- Direct/Reverse PID Control Selection
- Control Set point

## Performance Features

- Overload capacity: nominal 110% for 60sec. (150% peak)
- Adjustable accel/decel: 0.0 to 900.0 Sec.
- Controlled speed range: 1:20
- Critical frequency avoidance: 3 selectable, adjustable bands
- Torque-limiting: 30-180%
- Torque boost: full range, automatic
- Fault Auto-Reset with programmable time interval
- Feedback signal loss detection
- Serial communications loss detection
- “Up/Down” floating point control capability (PI)
- Sleep function
- Run-permissive input

## Drive and Motor Protection Features

- Current-limited stall prevention
- Heat sink over-temperature, speed fold-back
- Bi-directional start into rotating motor
- Optically-isolated controls
- Output short circuit protection: Phase-phase and phase-neutral
- Output Ground Fault Protection
- Electronic motor overload: UL
- Fault display: last 10 faults

## Control Features

**Power Saving Flux Optimization** - (Energy Saving Algorithm) Stator flux is controlled so that motor losses are reduced increasing motor efficiency

**Fire Mode** – Forces the drive to override its internal faults and protections, allowing the drive and motor to run during extreme conditions

**Dry Pump** – Monitors motor torque and prevents the pump from running with no load

**Sleep / Wake-Up Mode** – Prevents prolonged motor operation at low speeds for a programmable amount of time. Wake-up mode determines when the drive and motor resume normal operation

**Bypass function** – Allows the VFD to be by-passed and the motor to be run across the line

**Short Cycling Protection** – Prevents repetitive motor restarting after short periods of time

**Broken Belt Protection** – Monitors motor torque preventing it from running with no load in case of a broken belt or coupling

**Filter Maintenance Alarm** – A warning for filter maintenance is displayed on the keypad based on an adjustable time interval (time is programmed in the drive)

**PTC function** – Using drive I/O, PTC thermal sensors can be monitored to prevent motor overheating

**Main PID Controller** – Internal PID loops available for drive control



# CFW501 HVAC-R Drives

The WEG CFW501 series of variable frequency drives for heating, ventilation, air conditioning and refrigeration. was designed with the features and functions required for modern HVAC systems. The CFW501 is designed with the same reliability, robustness and energy-efficient control known in our industrial lines. WEG now brings this technology to office buildings, hospitals, airports, , hotels, shopping centers or other similar facilities.

## CFW501 Features

- CFW501 Ratings: 1/3-7 1/2 HP @ 230 Vac; 1/2-25 HP @ 480 Vac.
- Conformal Coated Circuit Boards - provides protection against dust, humidity, high temperature and chemicals
- Plenum Rated - Meets UL94 Requirements
- IP20 enclosure with NEMA 1 conversion kits available
- Harmonics - Meets IEC 61000-3-12 requirements
  - No line reactor required
  - No restrictions for installation, no minimum line impedance required
- Communications - BACnet MS/TP | Metasys N2 | Modbus-RTU native to the drive
- Heat sink and internal temperature monitoring provides protection for critical components such as IGBTs and circuit boards
- Fan operation is controlled based on the temperature of power modules
  - Reduces energy consumption when drive is not supplying power to the motor



**CFW501 HVAC-R Drive Family**



# CFW501

## IP20 Enclosure

Motor Voltage	ND / VT <sup>1</sup>		Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD <sup>4</sup>	Approx. Weight (lbs.)	List Price	Multiplier
	Motor HP <sup>2</sup>	Drive Amps <sup>3</sup>							
230 Vac	<b>Input Power Supply: Three-Phase 220-230 Vac without Dynamic Braking Transistor</b>								
	1/3	1.6	<a href="#">CFW501A01P6T2NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$563</b>	V3
	3/4	2.6	<a href="#">CFW501A02P6T2NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$601</b>	V3
	1 1/2	4.3	<a href="#">CFW501A04P3T2NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$652</b>	V3
	2	7.0	<a href="#">CFW501A07P0T2NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$736</b>	V3
	3	9.6	<a href="#">CFW501A09P6T2NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$804</b>	V3
	<b>Input Power Supply: Three-Phase 200-240 Vac with Dynamic Braking Transistor</b>								
	5	16.0	<a href="#">CFW501B16P0T2DB20C3</a>	Yes	B	7.9 x 4.0 x 6.3	2.7	<b>\$1,009</b>	V3
	7 1/2	24.0	<a href="#">CFW501C24P0T2DB20C3</a>	Yes	C	8.3 x 5.3 x 6.5	4.4	<b>\$1,552</b>	V3
	460 Vac	<b>Input Power Supply: Three-Phase 380-480 Vac without Dynamic Braking Transistor</b>							
1/2		1.0	<a href="#">CFW501A01P0T4NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$745</b>	V3
1		1.6	<a href="#">CFW501A01P6T4NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$761</b>	V3
1 1/2		2.6	<a href="#">CFW501A02P6T4NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$799</b>	V3
3		4.3	<a href="#">CFW501A04P3T4NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$917</b>	V3
5		6.1	<a href="#">CFW501A06P1T4NB20C3</a>	No	A	7.5 x 3.0 x 5.9	1.8	<b>\$1,051</b>	V3
<b>Input Power Supply: Three-Phase 380-480 Vac with Dynamic Braking Transistor</b>									
1 1/2		2.6	<a href="#">CFW501B02P6T4DB20C3</a>	Yes	B	7.9 x 4.0 x 6.3	2.7	<b>\$835</b>	V3
3		4.3	<a href="#">CFW501B04P3T4DB20C3</a>	Yes	B	7.9 x 4.0 x 6.3	2.7	<b>\$958</b>	V3
5		6.5	<a href="#">CFW501B06P5T4DB20C3</a>	Yes	B	7.9 x 4.0 x 6.3	2.7	<b>\$1,092</b>	V3
7 1/2		10.0	<a href="#">CFW501B10P0T4DB20C3</a>	Yes	B	7.9 x 4.0 x 6.3	2.7	<b>\$1,299</b>	V3
10		14.0	<a href="#">CFW501C14P0T4DB20C2</a>	Yes	C	8.3 x 5.3 x 6.5	4.4	<b>\$1,609</b>	V3
10		16.0	<a href="#">CFW501C16P0T4DB20C2</a>	Yes	C	8.3 x 5.3 x 6.5	4.4	<b>\$1,886</b>	V3
15		24.0	<a href="#">CFW501D24P0T4DB20C3</a>	Yes	D	12.1 x 7.1 x 6.6	9.5	<b>\$2,321</b>	V3
25		31.0	<a href="#">CFW501D31P0T4DB20C3</a>	Yes	D	12.1 x 7.1 x 6.6	9.5	<b>\$2,716</b>	V3

**Notes:**

- 1) VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
- 2) "HP" rating based on "average FLA values". Use as a guide only.
- 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
- 4) Dimensions are provided for estimating purposes only.

For other technical data please refer to WEG product manual.

# CFW701 HVAC-R Drives

The WEG CFW701 series of variable frequency drives for heating, ventilation, air conditioning and refrigeration. was designed with the features and functions required for modern HVAC systems. The CFW701 is designed with the same reliability, robustness and energy-efficient control known in our industrial lines. WEG now brings this technology to office buildings, hospitals, airports, hotels, shopping centers or other similar facilities.

## CFW701 Features

- CFW701 Ratings: 1½-75 HP @ 230 Vac; 2-175 HP @ 480 Vac; and 2-150 HP @ 575 Vac.
- Conformal Coated Circuit Boards - provides protection against dust, humidity, high temperature and chemicals
- NEMA 1 enclosure is standard, no additional hardware required
- Plenum Rated - Meets UL94 Requirements
- Harmonics - Meets IEC 61000-3-12 requirements with built-in DC link chokes
  - No line reactor required, provides line impedance equivalent of 6%
  - No restrictions for installation, no minimum line impedance required
- Communications - BACnet MS/TP | Metasys N2 | Modbus-RTU native to the drive
- Heat sink and internal temperature monitoring provides protection for critical components such as IGBTs and circuit boards
- Fan operation is controlled based on the temperature of power modules
  - Reduces energy consumption when drive is not supplying power to the motor
  - Fan operation hours are stored in the drive parameters and can be used for alarms or displaying fault messages
  - Easy fan removal and/or replacement for simplified maintenance



**CFW701 HVAC-R Drive Family**

# CFW701

## NEMA 1 Enclosure

Motor Voltage	ND / VT <sup>1</sup>		Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) HxWxD <sup>5</sup>	Approx. Weight (lbs.)	List Price	Multiplier	
	Motor HP <sup>2</sup>	Drive Amps <sup>3</sup>								
230 Vac	<b>Input Power Supply: Single-Phase 200-240 Vac with Dynamic Braking Transistor</b>									
	1 1/2	6.0	CFW701A06POS2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,370	V3	
	2	7.0	CFW701A07POS2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,430	V3	
	3	10	CFW701A10POS2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,510	V3	
	<b>Input Power Supply: Three-Phase 200-240 Vac with Dynamic Braking Transistor</b>									
	2	7.0	CFW701A07POT2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,350	V3	
	3	10	CFW701A10POT2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,410	V3	
	5	13	CFW701A13POT2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,440	V3	
	5	16	CFW701A16POT2DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,542	V3	
	7 1/2	24	CFW701B24POT2DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,020	V3	
	10	28	CFW701B28POT2DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,201	V3	
	10	34	CFW701B33P5T2DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,600	V3	
	15	45	CFW701C45POT2DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$2,900	V3	
	20	54	CFW701C54POT2DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$3,700	V3	
	25	70	CFW701C70POT2DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$4,880	V3	
	30	86	CFW701D86POT2DBN1C3	Yes	D	19.9 x 11.9 x 12.0	120.2	\$6,101	V3	
	40	105	CFW701D0105T2DBN1C3	Yes	D	19.9 x 11.9 x 12.0	120.2	\$8,100	V3	
	<b>Input Power Supply: Three-Phase 220-230 Vac without Dynamic Braking Transistor</b>									
	50	142	CFW701E0142T2NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$10,101	V3	
	60	180	CFW701E0180T2NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$12,999	V3	
	75	211	CFW701E0211T2NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$18,555	V3	
460 Vac	<b>Input Power Supply: Three-Phase 380-480 Vac with Dynamic Braking Transistor</b>									
	2	3.6	CFW701A03P6T4DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,350	V3	
	3	5.0	CFW701A05P0T4DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,444	V3	
	5	7.0	CFW701A07P0T4DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,510	V3	
	7 1/2	10	CFW701A10P0T4DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,600	V3	
	10	13.5	CFW701A13P5T4DBN1C3	Yes	A	12.1 x 5.8 x 9.0	13.9	\$1,711	V3	
	10	17	CFW701B17P0T4DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,055	V3	
	15	24	CFW701B24P0T4DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$2,455	V3	
	20	31	CFW701B31P0T4DBN1C3	Yes	B	13.9 x 7.5 x 9.0	24.1	\$3,450	V3	
	25	38	CFW701C38P0T4DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$3,888	V3	
	30	45	CFW701C45P0T4DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,000	V3	
	40	58.5	CFW701C58P5T4DBN1C3	Yes	C	17.7 x 8.7 x 11.5	44.6	\$5,800	V3	
	50/60	70.5	CFW701D70P5T4DBN1C3	Yes	D	19.9 x 11.9 x 12.0	120.2	\$6,888	V3	
	75	88	CFW701D88P0T4DBN1C3	Yes	D	19.9 x 11.9 x 12.0	120.2	\$8,100	V3	
	<b>Input Power Supply: Three-Phase 380-480 Vac without Dynamic Braking Transistor</b>									
	75	105	CFW701E0105T4NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$9,999	V3	
100/125	142	CFW701E0142T4NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$12,000	V3		
150	180	CFW701E0180T4NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$15,400	V3		
175	211	CFW701E0211T4NBN1C3	No	E <sup>4</sup>	26.6 x 13.2 x 14.1	143	\$18,787	V3		

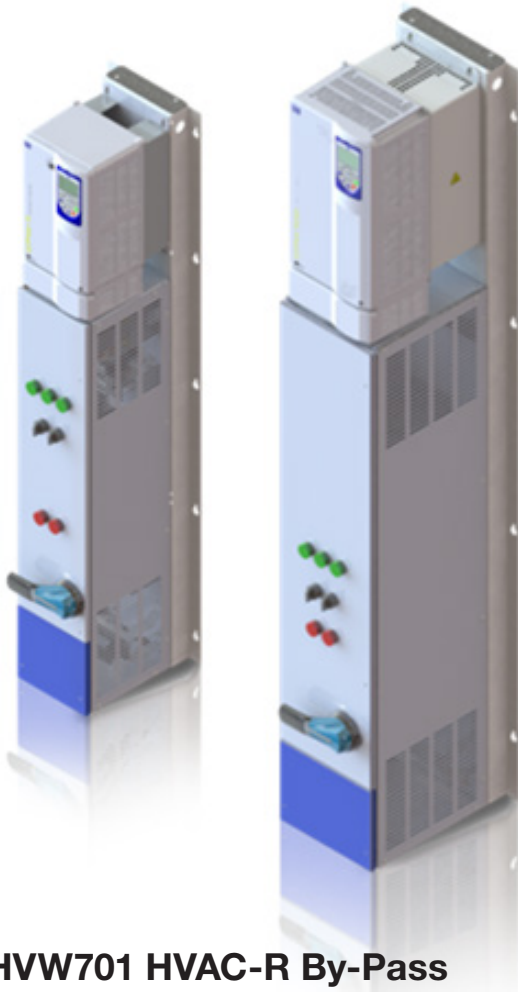
**Notes:**

- 1) VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
- 2) "HP" rating based on "average FLA values". Use as a guide only.
- 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
- 4) Maximum 45°C ambient temperature without derating
- 5) Dimensions are provided for estimating purposes only.

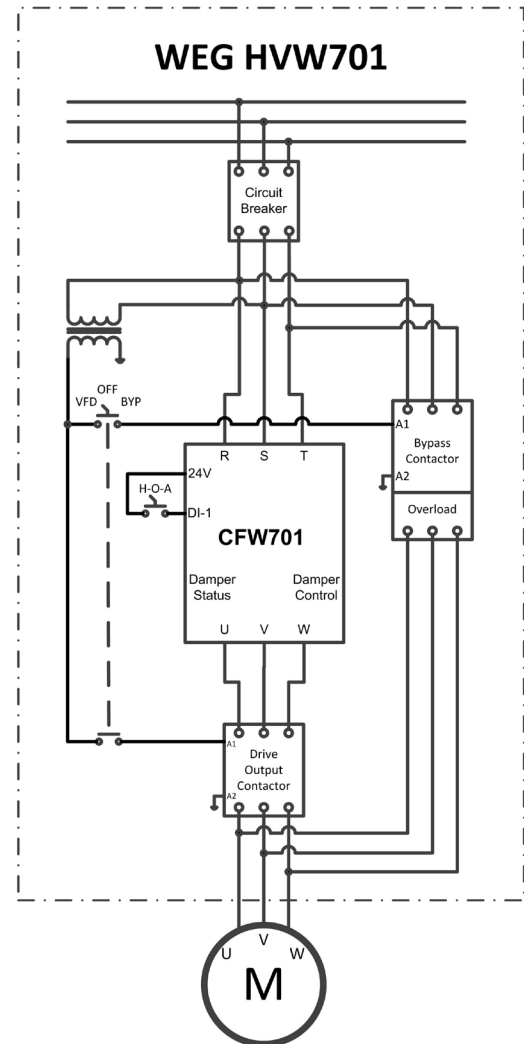
For other technical data please refer to WEG product manual.

# HVW701 HVAC-R By-Pass

The WEG HVW701 HVAC-R By-Pass system is comprised of the CFW701 Variable Frequency Drive with integral By-Pass. It is designed for heating, ventilation, air conditioning and refrigeration systems where continued operation is critical and space is at a premium. The HVW701 is designed to provide reliable and energy-efficient control for applications in office buildings, hospitals, airports, hotels, shopping centers or other similar facilities.



**HVW701 HVAC-R By-Pass**



**2-Contactor By-Pass Example**

## Available Configurations

### Frame A, B and C

- NEMA 1 with 3-Contactor By-Pass
- NEMA 1 with 2-Contactor By-Pass
- NEMA 1 with Circuit Breaker Only
- NEMA 1 with 3-Contactor By-Pass and 65kAIC CB
- NEMA 1 with 2-Contactor By-Pass and 65kAIC CB
- NEMA 1 with Circuit Breaker Only and 65kAIC CB

### Frame D and E

- NEMA 12 or 3R with 3-Contactor By-Pass
- NEMA 12 or 3R with 2-Contactor By-Pass
- NEMA 12 or 3R with Circuit Breaker Only



# HVW701

## HVAC Drive Panel - NEMA 1 Enclosure - 2-Contactor Bypass

Motor Voltage	ND / VT <sup>1</sup>		Catalog Number	Braking Transistor	Drive Frame Size	Enclosure Frame Size <sup>4</sup>	Dimensions (in.) HxWxD <sup>6</sup>	Approx. Weight (lbs.) <sup>6</sup>	List Price	Multiplier	
	Motor HP <sup>2</sup>	Drive Amps <sup>3</sup>									
230 Vac	<b>Input Power Supply: Three-Phase 220-240 Vac with Dynamic Braking Transistor</b>										
	2	7.0	<a href="#">HVW701A007DN01200000</a>	Yes	A	HV1	34.1 x 7.8 x 15	75	<b>\$2,851</b>	V3	
	3	10	<a href="#">HVW701A010DN01200000</a>	Yes	A	HV1	34.1 x 7.8 x 15	75	<b>\$2,859</b>	V3	
	5	13	<a href="#">HVW701A013DN01200000</a>	Yes	A	HV1	34.1 x 7.8 x 15	75	<b>\$2,888</b>	V3	
	5	16	<a href="#">HVW701A016DN01200000</a>	Yes	A	HV1	34.1 x 7.8 x 15	75	<b>\$2,920</b>	V3	
	7 1/2	24	<a href="#">HVW701B024DN01200000</a>	Yes	B	HV1	34.1 x 7.8 x 15	87	<b>\$3,247</b>	V3	
	10	28	<a href="#">HVW701B028DN01200000</a>	Yes	B	HV1	34.1 x 7.8 x 15	87	<b>\$3,556</b>	V3	
	10	33.5	<a href="#">HVW701B033DN01200000</a>	Yes	B	HV1	34.1 x 7.8 x 15	87	<b>\$3,832</b>	V3	
	15	45	<a href="#">HVW701C045DN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$4,185</b>	V3	
	20	54	<a href="#">HVW701C054DN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$5,280</b>	V3	
	25	70	<a href="#">HVW701C070DN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$6,349</b>	V3	
	30	86	<a href="#">HVW701D086DN01200000</a>	Yes	D	ED3	36 x 30 x 14	230	<b>\$7,422</b>	V3	
	40	105	<a href="#">HVW701D105DN01200000</a>	Yes	D	ED3	36 x 30 x 14	240	<b>\$11,404</b>	V3	
	<b>Input Power Supply: Three-Phase 220-240 Vac without Dynamic Braking Transistor</b>										
	50	142	<a href="#">HVW701E142DN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$14,011</b>	V3	
	60	180	<a href="#">HVW701E180DN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$14,344</b>	V3	
75	211	<a href="#">HVW701E211DN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$23,057</b>	V3		
460 Vac	<b>Input Power Supply: Three-Phase 460-480 Vac with Dynamic Braking Transistor</b>										
	2	3.6	<a href="#">HVW701A003GN01200000</a>	Yes	A	HV1	36 x 7.8 x 15	75	<b>\$2,576</b>	V3	
	3	5.0	<a href="#">HVW701A005GN01200000</a>	Yes	A	HV1	36 x 7.8 x 15	75	<b>\$2,584</b>	V3	
	5	7.0	<a href="#">HVW701A007GN01200000</a>	Yes	A	HV1	36 x 7.8 x 15	75	<b>\$2,759</b>	V3	
	7 1/2	10	<a href="#">HVW701A010GN01200000</a>	Yes	A	HV1	36 x 7.8 x 15	75	<b>\$3,120</b>	V3	
	10	13.5	<a href="#">HVW701A013GN01200000</a>	Yes	A	HV1	36 x 7.8 x 15	75	<b>\$3,196</b>	V3	
	10	17	<a href="#">HVW701B017GN01200000</a>	Yes	B	HV1	36 x 7.8 x 15	87	<b>\$3,280</b>	V3	
	15	24	<a href="#">HVW701B024GN01200000</a>	Yes	B	HV1	36 x 7.8 x 15	87	<b>\$3,868</b>	V3	
	20	31	<a href="#">HVW701B031GN01200000</a>	Yes	B	HV1	36 x 7.8 x 15	87	<b>\$4,557</b>	V3	
	25	38	<a href="#">HVW701C038GN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$5,433</b>	V3	
	30	45	<a href="#">HVW701C045GN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$6,134</b>	V3	
	40	58.5	<a href="#">HVW701C058GN01200000</a>	Yes	C	HV2	43.9 x 9 x 16	133	<b>\$6,286</b>	V3	
	50/60	70.5	<a href="#">HVW701D070GN01200000</a>	Yes	D	ED3	36 x 30 x 14	230	<b>\$8,118</b>	V3	
	75	88	<a href="#">HVW701D088GN01200000</a>	Yes	D	ED3	36 x 30 x 14	240	<b>\$11,587</b>	V3	
	<b>Input Power Supply: Three-Phase 460-480 Vac without Dynamic Braking Transistor</b>										
	75	105	<a href="#">HVW701E105GN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$22,622</b>	V3	
100/125	142	<a href="#">HVW701E142GN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$25,373</b>	V3		
150	180	<a href="#">HVW701E180GN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$30,944</b>	V3		
175	211	<a href="#">HVW701E211GN01200000</a>	No	E <sup>5</sup>	ED4	48 x 30 x 17.5	300	<b>\$34,303</b>	V3		

**Notes:**

- 1) CT = Constant Torque, 150% overload / 60 sec.; VT = Variable Torque (Quadratic Load), 110% overload / 60 sec.
  - 2) "HP" rating based on "average FLA values". Use as a guide only.
  - 3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.
  - 4) ED3 and ED4 enclosures are non-ventilated and wall-mounted
  - 5) Maximum 45°C ambient temperature without derating
  - 6) Dimensions and weights are for estimating purposes only. Only use "AS BUILT" drawings for construction.
- For other technical data please refer to WEG product manual.

# Best Partners for Your HVAC-R Applications

The future depends on conscientious and sustainable actions as the world grows and for this, modern and automated solutions are required. Technology is already part of our lives, and in order to produce the energy that powers all the innovations, somebody has to foot the bill. What are you doing to grow sustainably?



42% of the energy consumed worldwide today is used by industry.



68% of the energy used in industry is consumed by electric motors driven equipment.

Save even more energy by using the CFW701 HVAC Frequency Inverters together with WEG's Commercial HVAC Air Handling Motors. High starting torque makes these motors ideal for a wide range of applications.



Use energy in a responsible way

## Go Green!

Calculate the payback of the investment achieved by the use of frequency inverters on the website:  
<http://www.weg.net/green/us/save-money.html>

# The Best Partners for your HVAC-R Applications

## Optimal Warranty: 3 Years

- Thirty-six (36) month warranty when WEG motor is applied with WEG LV VFD and soft starters
- Go to [www.weg.net/us](http://www.weg.net/us) and click on optimal warranty for further information

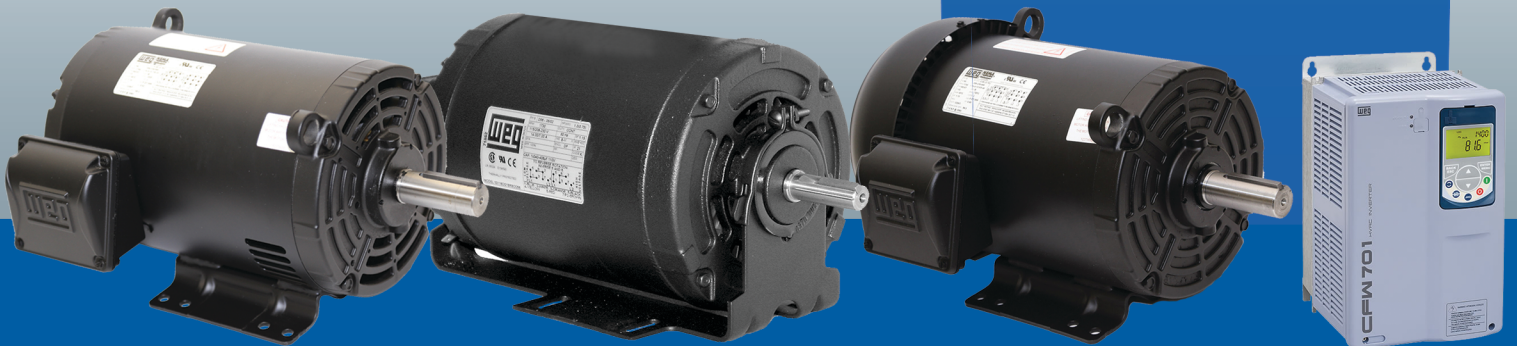
## Availability

- Wide range of CFW701 in stock
- 8 WEG warehouses in USA



## Cooling Tower Motors TEFC and TEAO

- 1.25 service factor
- Drain plugs in terminal box
- Multiple endbell drain plugs
- Internally and externally epoxy painted
- Double sealed bearings



## TEFC and ODP - Three Phase

- Excellent Thermal Performance
- Rotatable terminal box exceeds IP55
- Color coded leads for easy wiring
- Internal Aegis® SGR available
- Robust Feet design for tougher applications
- Suitable for VFD; NEMA MG1 part 31.4.4.2
- Robust eyebolts for easy lifting





WEG Electric Corp. offers the following products, and more! With a full range of IEC/NEMA Global Certifications and a full line of products, WEG can supply the right solution for your needs anywhere in the world. To learn more about WEG's products and solutions or to locate a Distributor near you, please call 1-800-ASK-4WEG or visit www.weg.net.

**Low Voltage Motors,  
Single and 3-Phase, 1/8 – 700HP**

- General Purpose Motors
- Explosion Proof Motors
- Crusher Duty Motors
- IEC Tru-Metric Motors
- Pump Motors including JP/JM
- P-Base Pump Motors
- Oil Well Pumping Motors
- Pool & Spa Motors
- Brake Motors
- Compressor Duty Motors
- Farm Duty Motors
- Poultry Fan Motors
- Auger Drive Motors
- IEEE 841 Motors
- Stainless Steel Wash Down Motors
- Saw Arbor Motors
- Cooling Tower Motors
- Commercial HVAC Motors
- Pad Mounted Motors
- Vector Duty Motors

**Large Electric Motors**

- Low Voltage 3-phase motors up to 2,500HP
- Motors up to 70,000HP and 13,200V
- Wound Rotor Systems (including starters) up to 70,000HP and 13,200V
- Synchronous Motors up to 70,000HP and 13,200V
- Explosion proof motors (Ex-d) up to 1,500kW and 11kV
- Ex-n, Ex-e, Ex-p motors

**Variable Frequency Drives**

- Low Voltage 1/4 to 2500HP, 230V – 480V
- Medium Voltage 500-8000HP
- Multi-pump systems
- NEMA 4X
- Dynamic braking resistors
- Line and load reactors
- Plug and play technology
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- PLC functions integrated
- Complete line of options and accessories

**Soft Starters**

- 3-1500HP
- Oriented start-up
- Built-in bypass contactor
- Universal source voltage (230-575V, 50/60Hz)
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- Complete Line of options and accessories
- MV Soft-starter 3.3kV, 41.6kV: up to 3500HP, Withdrawable Power Stacks, & 8x PT100 Temperature monitoring

**Controls**

- Mini – Contactors
- IEC Contactors
- Thermal Overload Relays
- Manual Motor Protectors
- Molded Case Circuit Breakers
- Smart Relays
- Enclosed Starters: combination & non-combination,
- Pushbuttons & Pilot Lights
- Timing & Motor Protection Relays
- Terminal Blocks

**Custom Panels**

- Custom configured to your specification.
- NEMA 1, 12, 3R, 4 and 4X cabinets
- Quick delivery of preconfigured drives and soft starters
- UL 508 certified
- Low Voltage (230-460)
- Made in the U.S.A.

**Generators**

- Brushless Synchronous Generators for diesel gen-sets up to 4,200kVA
- Hydro-generators up to 25,000kVA
- Turbo-generators up to 62,500kVA

**Power Transformers**

- Built and engineered in North America
- Voltages < 500kV
- Ratings 5-300MVA
- Station class, oil filled, round core, copper windings
- Special configurations and designs available!
- Ask your WEG Sales Representative for details.
- Designed, built, and engineered to ANSI standards.

**Custom Solution Package Sales**

- WEG can package any of its products for ease of sale! Enjoy a single point of contact for the entire package of products and assistance from quote through after-sales support. Ask your WEG Sales Representative for details.

Please contact your authorized distributor:



WEG Electric Corp.  
 6655 Sugarloaf Parkway  
 Duluth, GA 30097  
 Phone: 1-800-ASK-4WEG  
[www.weg.net](http://www.weg.net)