

Quick Reference Guide

EZ-Fit w/ ERW Series Technical Data



MODEL KEY	
Model	Unit Configuration
VZW	EZ-Fit w/ ERW Water-Cooled
VZWH	Water Source Heat Pump

- Compact Footprint
- Exhaust & Intake Fans
- All Sections Fit Through 36" Door
- Ships Fully Charged & Knocked Down

Modular DOAS Air Conditioning System

The VariCool EZ-Fit is a self-contained, modular air conditioning system for use with floor-by-floor variable air volume applications. It is engineered and manufactured specifically for installation in renovation and retrofit projects and provides the ultimate **All-Indoor Solution** for challenging HVAC applications.

The VariCool EZ-Fit design consists of three distinct sections that easily mate to form a system module. The module consists of a fan section, evaporator coil section and condensing section. Single modules are available in 3,000–10,000 CFM and dual modules from 11,000–21,000 CFM sizes. Dual modules together form systems as large as 28,000 CFM of cooling.

Sections are assembled during manufacturing and evacuated, charged, tested, and then separated for shipment of individual sections. The use of resealable refrigerant fittings allow the unit to be shipped split without losing the charge. All module sections are joined together using innovative 3D-Intelliclamp connectors which ensure perfect component alignment. The result is a lower installed cost without any sacrifice of system reliability.

FEATURES

- 3,000 –10,000 CFM (Single Module)
- 11,000 –21,000 CFM (Dual Module)
- Water-Cooled or Water Source Heat Pump
- Dual Scroll Compressors/Module
- Interlaced Evaporator Coils
- Premium Efficiency Motors
- Double Sloped Stainless Steel Drain Pan
- Hot Gas Bypass (each circuit)
- Lift Off Hinged Panels
- Belt Drive Airfoil DWDI Blower with Backward Inclined Blades (12–25 Ton Modules)
- ECM Fans
- Microprocessor Control
- 3D-Intelliclamp Cabinet Section Connectors



Contact:
www.level-solutions.com
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Quick Reference

Nominal Tons	Total MBH	Sensible MBH	SUPPLY CFM	EXH. CFM	GPM	WHEEL EAT	WHEEL LAT	REF SYS CAP @ 55 LAT	TOTAL CAP @ 55 LAT	NOTES
*** SINGLE MODULE ***										
10	245.5	129.6	3000	3000	30	95.0 / 78.0	78.8 / 65.6	8.1	20.5	10-15T Cabinet
12	327.3	172.8	4000	4000	36	95.0 / 78.0	79.9 / 67.0	12.5	27.3	10-15T Cabinet
15	409.1	216.0	5000	5000	45	95.0 / 78.0	81.5 / 68.4	17.7	34.1	10-15T Cabinet
20	490.9	259.2	6000	6000	60	95.0 / 78.0	79.9 / 66.9	18.6	40.9	20-25T Cabinet
25	572.8	302.4	7000	7000	75	95.0 / 78.0	81.1 / 68.1	24.2	47.7	20-25T Cabinet
25	654.6	345.6	8000	8000	75	95.0 / 78.0	80.7 / 67.7	26.7	54.5	30-35T BOX, 25T COMPS
30	736.4	388.8	9000	9000	90	95.0 / 78.0	81.2 / 68.1	31.1	61.4	30-35T Cabinet
35	818.2	432.0	10000	10000	105	95.0 / 78.0	81.6 / 68.6	36.1	68.2	30-35T Cabinet
*** DUAL MODULE ***										
30	900.0	475.2	11000	11000	90	95.0 / 78.0	79.6 / 66.6	33.1	75.0	40-50T DUAL Cabinet, 30T DUAL COMPS
40	981.9	518.4	12000	12000	120	95.0 / 78.0	79.9 / 66.9	37.2	81.8	40-50T DUAL Cabinet
40	1063.7	561.6	13000	13000	120	95.0 / 78.0	80.1 / 67.2	41.4	88.6	40-50T DUAL Cabinet
50	1145.5	604.8	14000	14000	150	95.0 / 78.0	81.1 / 68.1	48.4	95.5	40-50T DUAL Cabinet
50	1227.3	648.0	15000	15000	150	95.0 / 78.0	81.4 / 68.4	53.2	102.3	40-50T DUAL Cabinet
50	1309.1	691.2	16000	16000	150	95.0 / 78.0	80.7 / 67.7	53.4	109.1	60-70T DUAL Cabinet, 50T DUAL COMPS
60	1391.0	734.4	17000	17000	180	95.0 / 78.0	80.9 / 67.9	57.7	115.9	60-70T DUAL Cabinet
60	1472.8	777.6	18000	18000	180	95.0 / 78.0	81.2 / 68.1	62.2	122.7	60-70T DUAL Cabinet
70	1554.6	820.8	19000	19000	210	95.0 / 78.0	81.4 / 68.4	67.3	129.6	60-70T DUAL Cabinet
70	1636.4	864.0	20000	20000	210	95.0 / 78.0	81.6 / 68.6	72.2	136.4	60-70T DUAL Cabinet
70	1718.2	907.2	21000	21000	210	95.0 / 78.0	81.8 / 68.8	77.0	143.2	60-70T DUAL Cabinet

Water-Cooled Entering Water Temperature 85°
 Nominal 3.0 GPM/Ton

Total and sensible capacities are per module

Basic Unit Dimensions (Contact Factory for Additional Sizes)

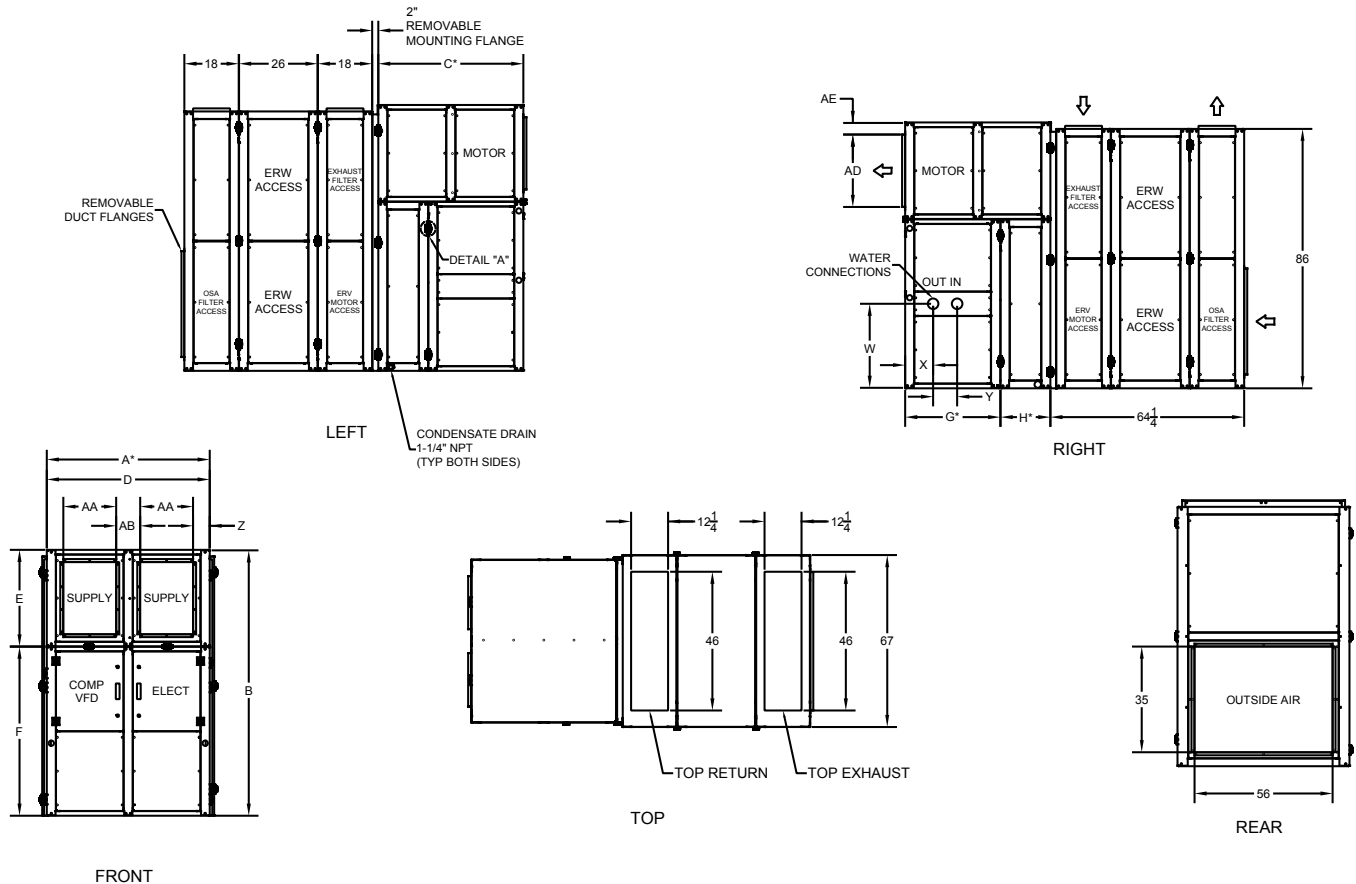
	Tons	A*	B	C*	D	E	F	G*	H*	V1	V2
Single Module	12-15	55-1/2	88-1/8	49-5/8	54	32	56	32-1/4	17-1/4	5	7
	20-25	65-1/2	93-1/8	52-1/8	64	34	59	34-3/4	17-1/4	5	7
	30	70-1/2	105-1/8	58-1/8	34 ea.	34	71	34-3/4	23-1/4	5	7
	35	77-1/2	105-1/8	60-1/8	37-1/2 ea.	34	71	34-3/4	25-1/4	5	7
	40	77	112	59-1/2	38 ea.	34	78	34-1/2	25	5	7
	45	77	112	59-1/2	38 ea.	34	78	34-1/2	25	5	7
Dual Module	24-30	110-1/2	88-1/8	49-5/8	54	32	56	32-1/4	17-1/4	5	7
	40-50	130-1/2	93-1/8	52-1/8	64	34	59	34-3/4	17-1/4	5	7
	60	140-1/2	105-1/8	58-1/8	34 ea.	34	71	34-3/4	23-1/4	5	7
	70	154-1/2	105-1/8	60-1/8	37-1/2 ea.	34	71	34-3/4	25-1/4	5	7
	80	80	112	59-1/2	38 ea.	34	78	34-1/2	25	5	7
	90	80	112	59-1/2	38 ea.	34	78	34-1/2	25	5	7

Notes:

1. UNIT IS COMPRISED OF (6) SECTIONS
2. DIMENSIONS NOTED WITH * INCLUDED HARDWARE
3. UNIT MUST BE INSTALLED ON HOUSE KEEPING PAD TO ACCOMMODATE HEIGHT OF THE CONDENSATE DRAIN TRAP
4. 3D INTELLICLAMP REMOVABLE AND/OR SPLITTABLE IF NEEDED DURING INSTALLATION

SERVICE CLEARANCE:

- UNIT LEFT-24"
- UNIT RIGHT-24"
- UNIT FRONT-36"
- ERW LEFT-72"
- ERW RIGHT-72"





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Product Features

The VariCool® EZ-Fit w/ERW is a self-contained air conditioning system for use with floor-by-floor variable air volume applications. The EZ-Fit w/ ERW was designed and engineered specifically for installation in renovation and retrofit applications. The modular, multi-piece construction allows easy access through standard doorways and elevators preserving the building's architectural integrity.

It also eliminates unnecessary construction, saving both time and money. The unit is shipped fully charged with refrigerant eliminating brazing, evacuation and charging in the field. All components are pre-wired for reduced installation time and expense without sacrificing reliability. The VariCool® EZ-Fit w/ ERW can be tailored with options for your unique application.

- Self-Contained Water-Cooled and Chilled Water Units
- Modular Construction (Shipped in 3 or more Sections)
- 12, 15, 20, 25, 30, 35, 40 and 45 Ton Modules (other sizes available, contact factory)
- Modules can be combined for applications up to 90 Tons – Capabilities can exceed 100 tons
- 3D-Intelliclamps for perfect section alignment
- Indoor Configuration with Compact Footprint and Vertical Design
- R-410A, Factory Charged Unit
- Resealable Refrigerant Fittings
- Functionally Run Tested at the Factory
- Heavy-Gauge Sheet Metal Panels
- 1" High Density Thermal / Acoustical Insulation
- Lift Off Hinged Access Doors with Tool Operated Latches
- Air Discharge Top (Optional Air Paths Available)
- Right or left hand water connections
- Single water connection for single or dual modules
- Water Inlet and Outlet connections utilize Grooved End Couplings
- DWDI Centrifugal Fans with Airfoil Backward Inclined Blades (12-25 Ton Modules)
- Pillow Block Bearings with 200,000 Hour Life Expectancy (L50) (12-25 Ton Modules, DWDI Blowers)
- ECM Fans (30, 35, 40 and 45 Ton Modules)
- Premium Efficiency Motor
- Factory Installed VFD
- 2 Scroll Compressors / Module
- Aluminum Fin / Copper Tube Evaporator Coil, Draw Through Design
- Interlaced Evaporator Coil
- Double-Sloped Stainless Steel IAQ Drain Pan
- Co-axial Counter Flow Heat Exchangers
- Maximum Operating Pressure (MOP) Externally Equalized Balance Port TXV's
- Filter Drier & Sight Glass with Moisture Indication on Each Circuit
- High and Low Refrigerant Pressure Safety Switches
- Hot Gas Bypass (each circuit)
- Manual Hot Gas Bypass Shutoff Valves
- 2-Way Electronic Head Pressure Control Valves
- 24 Volt Control Circuits
- Single-Point Power Connection (Up to 4 compressors, some electric heat requires second power supply)
- Marvel™ Premium Microprocessor Controls
- Dirty Filter Switch
- Drain Pan Overflow Switch
- Loss of Air Flow Switch



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