

Direct Expansion Air Handlers

With Quiet & Efficient Blowers

Photo courtesy of Cruisers Yachts



E9FDZ/1-HV DX
air handler shown

The Marine Air Direct Expansion Air Handler has a compact modular design. For maximum efficiency, the plenum chambers are increased and the coils have enhanced fins and rifled tubing. The unit also offers easy disassembly for access to components.

The air handler's centrifugal blowers are quiet and efficient with fully insulated housings. For installation flexibility, the blower rotates to horizontal or vertical positions. Thermoplastic mounting rings enable easy installation of ducting or transition boxes.

The condensate drain pan includes two ½" FPT drain hook-ups, and it is insulated to prevent sweating.

As with all Marine Air products, quality is assured. Each unit is pre-charged, test-run in all operating modes, and leak-checked at the factory prior to shipping. All surface components are constructed of or coated with materials resistant to fire and corrosion. Charge Guard® protection provides sealed access ports that ensure environmental protection and system integrity. All Direct Expansion Air Handlers meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

Key Benefits

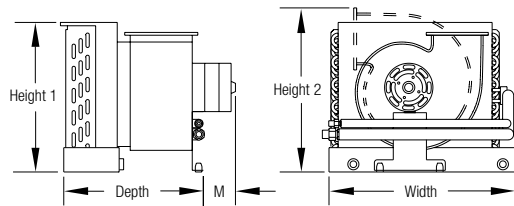
- Models available in 4K, 6K, 9K, 12K, and 16K BTU/hr (115V and 230V), as well as 18K, and 24K BTU/hr (230V only).
- Compact modular design with increased efficiency.
- Easy disassembly for component access.
- Quiet, efficient blowers rotate to vertical or horizontal positions.
- Insulated drain pan prevents sweating and includes two ½" FPT drain hook-ups.
- Factory pre-charged, tested, and leak-checked prior to shipping.
- Meets or exceeds all applicable standards and regulations.

Technical Specifications for Direct Expansion Air Handlers

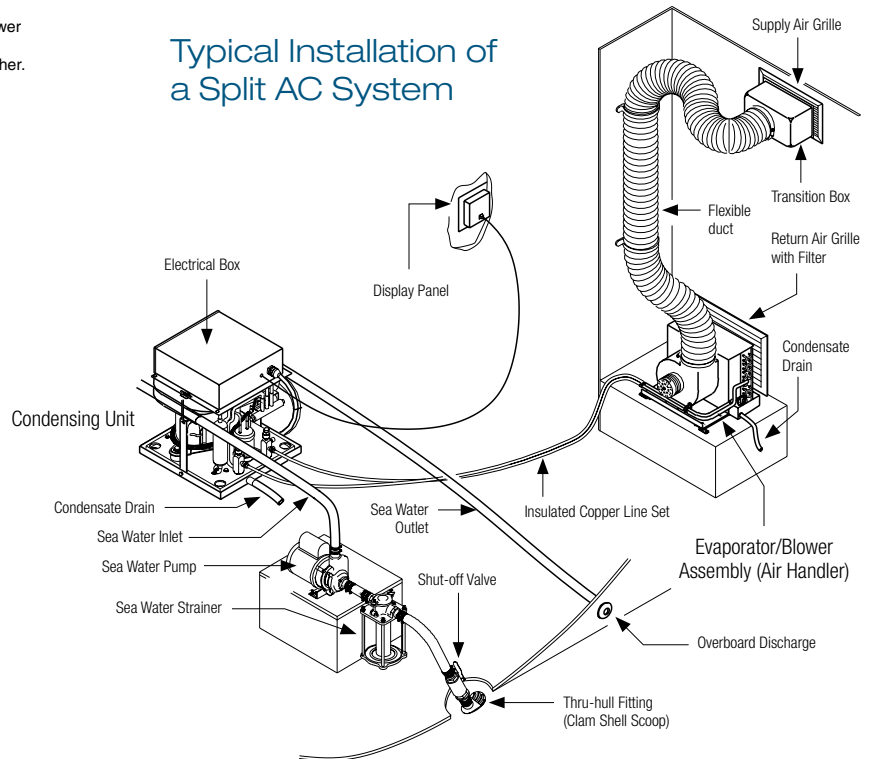
Model ⁽¹⁾⁽²⁾	E4FD/1		E6FD/1		E9FD/1		E12FD/1		E16FD/1		E18FDZ/1	E24FDZ/1
Capacity in BTU/hr / KCAL/hr	4,000/1,008		6,000/1,512		9,000/2,268		12,000/3,024		16,000/4,032		18,000/4,536	24,000/6,048
Voltage (VAC) ⁽³⁾ @ 50-60 Hz/1Ph	115	230	115	230	115	230	115	230	115	230	230	230
Full Load Amps (FLA) Blower	1.00	0.86	1.90	0.83	3.37	1.55	3.37	1.55	3.30	1.80	1.80	0.80
Kilo-Volt-Amps (KVA)	0.12	0.19	0.22	0.19	0.39	0.36	0.39	0.36	0.38	0.41	0.41	0.18
Max. Circuit Breaker (Amps)	5	5	5	5	5	5	5	5	5	5	5	5
Min. Circuit Ampacity (Amps)	2	2	3	2	5	2	5	2	5	3	3	1
Height H1 ⁽³⁾ (in/mm)	9.75/248		10.80/274		10.50/267		12.80/325		12.80/325		16.50/419	16.50/419
Height H2 ⁽⁴⁾ (in/mm)	10.70/272		13.00/330		13.00/330		13.75/349		14.00/356		N/A	N/A
Depth (in/mm)	10.10/257		11.40/290		9.80/249		10.40/264		11.90/302		13.70/348	15.60/396
Width (in/mm)	11.40/290		13.20/335		14.50/368		14.50/368		14.50/368		21.25/540	21.25/540
Motor Overhang (M) (in/mm)	2.10/53		2.50/64		2.90/74		2.90/74		3.30/84		3.30/84	4.00/102
Min. Duct Size Diameter	4"		5"		6"		6"		7"		7"	8"
Refrigerant Connections	1/4" X 3/8"		1/4" X 3/8"		1/4" X 3/8"		1/4" X 3/8"		1/4" X 1/2"		1/4" X 1/2"	3/8" X 5/8"
Net Weight (lb/kg)	12.3/5.6		15.4/7.0		18.5/8.4		20.5/9.3		21.5/9.8		32.0/14.5	46.0/21.0
Gross Weight (lb/kg)	20.8/9.5		24.1/11.0		27.0/12.2		29.0/13.2		30.1/13.7		42.0/19.0	54.0/24.5

Notes:

- ⁽¹⁾ Add a "Z" after the "D" in the model number for 230V units.
- ⁽²⁾ Add 2"/5.1cm to height dimension to allow for duct ring (not included) when blower is installed in its vertical position.
- ⁽³⁾ Height 1 is measured to top of evaporator or blower discharge, whichever is higher.
- ⁽⁴⁾ Height 2 is with blower rotated in field.



Typical Installation of a Split AC System



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