

CLIMATE

EMERALD CONDENSING UNITS

This condenser has reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side. Vibration-isolating compressor mounting system reduces noise and vibration. Pair this with a Dometic Emerald TurboVap R-410A evaporator.

SQUARE CHASSIS

EASY INSTALLATION

3 MOUNTING OPTIONS

ADAPTABLE

ECO-FRIENDLY

R-410A REFRIGERANT



115V/60Hz/1-Ph
230V/60Hz/1-Ph or 3-Ph
220-240V/50Hz/1-Ph
460V/60Hz/3-Ph
380V/50Hz/3-Ph



6,000 - 72,000 BTU

Mobile living made easy.

 **DOMETIC**

INNOVATIVE CHASSIS CONQUERS INSTALLATION CHALLENGES

Model ¹	DEU6			DEU8			DEU10			DEU12			DEU16		
Capacity (BTU/h) ²	6000			8000			10000			12000			16000		
Voltage (V)	115	230	240	115	230	240	115	230	240	115	230	240	115	230	240
Cycle (Hz) ³ /Phase (Ph)	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1
Full Load Amps (FLA) Cool (A)	3.8	1.8	2.4	4.2	2.4	2.4	5.6	2.6	2.8	7.6	3.4	2.79	8.8	4.3	3.9
Full Load Amps (FLA) Heat (A)	5.1	2.44	3.3	5.8	3.3	3.3	7.7	3.6	3.8	9.8	4.5	3.81	12	5.8	5.3
Locked Rotor Amps (LRA) (A)	36	17.5	17.7	36	17.7	17.7	42	22	21	58	28	21	62	34	22
Max. Circuit Breaker (A)	15	10	–	15	10	10	25	15	10	30	15	10	40	15	–
Min. Circuit Ampacity (A)	11	7	6	11	6	6	15	9	8	18	10	8	23	11	10
Refrigerant Type	R410A			R410A			R410A			R410A			R410A		
Max. Height (in/mm) ⁴	12/305			12/305			13/331			13/331			14.1/359		
Width (in/mm) ⁴	13.3/338			13.3/338			13.3/338			13.3/338			13.3/338		
Depth-Without Elec. Box (in/mm)	13.3/338			13.3/338			13.3/338			13.3/338			13.3/338		
Depth-With Elec. Box (in/mm)	15.1/384			15.1/384			15.1/384			15.1/384			15.1/384		
Seawater Inlet Connection (in/mm)	0.625/16			0.625/16			0.625/16			0.625/16			0.625/16		
Seawater Connection Type	cupronickel tube			cupronickel tube			cupronickel tube			cupronickel tube			cupronickel tube		
Refrigerant Line Connection-Discharge (in)	1/4			1/4			1/4			1/4			1/4		
Refrigerant Line Connection-Suction (in)	3/8			3/8			3/8			3/8			1/2		
Net Weight (lbs/kg) ⁵	43/20	43/20	42.05/19	43/20			45/20	44.25/20	45/20	47/21			49/22	50.5/23	50/23
Gross Weight (lbs/kg) ⁵	50/23	50/23	49.5/22	50/23			52/24	50.5/23	52/24	54/24			56/26	57/26	56/26
Height-Electrical Box (in/mm)	8.75/223			8.75/223			8.75/223			8.75/223			8.75/223		
Width-Electrical Box (in/mm)	6.5/166			6.5/166			6.5/166			6.5/166			6.5/166		
Depth-Electrical Box (in/mm)	2.63/67			2.63/67			2.63/67			2.63/67			2.63/67		

¹ To complete the model numbers for a specific voltage/cycle/phase, add a ‘-410’, then ‘1161’ for 115V/60Hz/1-Phase, ‘-2251’ for 220-240V/50Hz/1-Phase, or ‘-2361’ for 230V/60Hz/1-Phase (e.g. ‘DEU12-410 2361’).

² BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat mode.

³ 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate says otherwise.

⁴ All dimensions ± 0.30 in/8 mm.

⁵ All weights ± 10%.

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CHALLENGES



DEU24				DEU30		DEU36					DEU48					DEU60			DEU72		
24000				30000		36000					48000					60000			72000		
230	240	230	380	230	240	230	240	230	460	380	230	240	230	460	380	230	230	460	230	380	460
60/1	50/1	60/3	50/3	60/1	50/1	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	60/3	60/3	60/3	50/3	60/3
6.3	6.4	4.5	2.7	7.3	7.9	9.1	9.4	6.3	3.3	4.44	11.9	12.08	8.23	5.95	5.29	13.56	10.18	5.25	11.2	7.17	5.58
7.8	8	6.2	3.6	9.2	9.9	11.5	12	8.3	4.2	5.88	15.8	17.95	10.89	7.42	6.6	20.15	12.7	6.6	14.82	8.94	7.56
43	46	55.4	28	54	67	74	67	71	38	45	105	115	95	70	60	150	120	60	123	87	70
30	30	20	15	35	40	45	40	35	15	20	75	70	49	30	–	80	55	30	60	42	30
17	18	14	10	22	23	26	25	20	10	13	43	41	28	19	17	48	33	17	34	24	19
R410A				R410A		R410A					R410A					R410A			R410A		
18/458				18/458		18/458					18.5/470					20/508			20/508		
16/407				16/407		16/40					16/407					16/407			16/407		
16/407				16/407		16/407					16/407					16/407			16/407		
18.8/478				18.8/47		18.8/478					18.8/478					18.8/478			18.8/478		
0.625/16				0.625/16		0.625/16					0.625/16					0.625/16			0.625/16		
cupronickel tube				cupronickel tube		cupronickel tube					cupronickel tube					cupronickel tube			cupronickel tube		
3/8				3/8		3/8					3/8					3/8			3/8		
5/8				3/4		3/4					3/4					3/4			3/4		
98.5/45	104/47	100/45	100/45	102.25/46		114.5/52	118/54	102/46	116/53	116/53	122/55	135/61	135/61	135/61	135/61	155/70			165/75		
129/59	133/60	132/60	132/60	133.5/61		147/67	149.5/68	130/59	148/67	148/67	153/69	150/68	150/68	150/68	150/68	170/77			181/82		
13.25/337				13.25/337		13.25/337					13.25/337					13.25/337			13.25/33		
7.75/197				7.75/197		7.75/197					7.75/197					7.75/197			7.75/197		
3.75/96				3.75/96		3.75/96					3.75/96					3.75/96			3.75		

INNOVATIVE CHASSIS CONQUERS INSTALLATION CHALLENGES



1. SQUARE CHASSIS AND COMPOSITE DRAIN PAN

Compact base fits in more spaces



2. EASY ACCESS

Easy maintenance access from any side



3. VIBRATION ISOLATION

Minimize noise and vibration

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EMERALD CONDENSING UNITS

This condenser has a reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side. Vibration-isolating compressor mounting system reduces noise and vibration. Pair this with a Dometic Emerald TurboVap R-410A evaporator. The 6k BTU through 16K BTU is now available in dual frequency (50/60hz).

SQUARE CHASSIS
EASY INSTALLATION

DUAL FREQUENCY
ACCEPTS 50 OR 60 HZ

QUIET OPERATION
MINIMAL VIBRATION



115V/50 - 60Hz/1-Ph
230V/50 - 60Hz/ 1-Ph or 3-Ph
220 - 240V/ 50Hz/ 1-Ph
460V/ 60Hz/3-Ph
380V/ 50Hz/ 3-Ph



6,000 - 72,000 BTU

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INNOVATIVE CHASSIS CONQUERS INSTALLATION CHALLENGES



The Emerald design increases cooling and heating capacities while reducing amperage. Emerald condensers can be installed quickly and easily. The drain, seawater and refrigerant connections are conveniently located to overcome installation challenges thus reducing installation time by up to fifteen minutes. The electrical box can be easily removed and located up to 5 ft. (1.5 m) away, further reducing the size of the unit while making the system more accessible. The reversing valve, pressure switches and service ports are centrally located, high on the unit for access from any side.

After listening to boat builders, global service teams and boat owners, Dometic engineers designed the innovative Emerald Condenser series to harness and maximize the impressive performance of R-410A refrigerant while meeting all international

Model	DEG6			DEG8			DEG10			DEG12			DEG16		
Capacity (BTU/h) ²	6000			8000			10000			12000			16000		
Voltage (V)	115	230	230	115	230	230	115	230	230	115	230	230	115	230	230
Cycle (Hz) ³ / Phase (Ph)	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1
Full Load Amps (FLA) Cool (A)	3.5	1.6	1.5	4.2	2.2	2.4	6.0	2.6	2.6	6.6	3.2	3.9	8.7	4.7	4.1
Full Load Amps (FLA) Heat (A)	5.0	2.2	2.0	5.6	3.0	3.0	7.9	3.5	3.3	9.1	4.5	4.7	11.8	6.2	5.4
Locked Rotor Amps (LRA) (A)	25.5	10.0	10.9	28.0	15.0	16.8	40	22	24	51	30	33	61	27	30
Max. Circuit Breaker (A)	18	9	8	21	12	12	27	15	15	35	17	16	44	23	21
Min. Circuit Breaker (A)	10	5	4	12	7	7	16	9	8	20	10	9	25	13	12
Refrigerant Type	R410A			R410A			R410A			R410A			R410A		
Seawater Inlet Connection (in/mm)	0.625/16			0.625/16			0.625/16			0.625/16			0.625/16		
Seawater Connection Type	cupronickel tube			cupronickel tube			cupronickel tube			cupronickel tube			cupronickel tube		
Refrigerant Line Connection- Discharge (in)	1/4			1/4			1/4			1/4			1/4		
Refrigerant Line Connection- Suction (in)	3/8			3/8			3/8			3/8			1/2		
Net Weight (lbs/kg) ⁴	43/20	43/20	42.05/19	43/20			45/20	44.25/20	45/20	47/21			49/22	50.5/23	50/23
Gross Weight (lbs/kg) ⁴	50/23	50/23	49.5/22	50/23			52/24	50.5/23	52/24	54/24			56/26	57/26	56/26

¹ For dual frequency units 6K through 16K, to complete the model numbers for a specific voltage/cycle/phase, add a '-410', then '1171' for 115V/50-60Hz/1-Phase, or '-2371' for 230V/50-60Hz/1-Phase (e.g. 'DEG12-410 2371'). For ranges 24K through 72K, add a '-410', '-2251' for 220-240V/50Hz/1-Phase, or '-2361' for 230V/60Hz/1-Phase (e.g. 'DEU24-410 2361').

² BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat mode.

³ For ranges 24K through 72K, 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate says otherwise.

⁴ All weights ± 10%.

Mobile living made easy.



clean air standards. The compact design of the Emerald series incorporates built-in vibration-isolating mounts, two large drain connections and numerous mounting options for installation to a smooth deck, stringer or existing rack. The incorporated lifting handles and smooth bottom allow for easy lifting and quick placement of the unit. The molded composite no-rust drain pan is shaped to provide positive drainage even when the boat lists or pitches. The amount of standing water in the drain pan is reduced by up to 85%, which is 8 times less than a typical drain pan.

BENEFITS OF THE EMERALD CONDENSING UNIT

- DEG6K through 16K operates at 50 or 60Hz; lower voltage units will run 100-120 volts
- 50/60Hz and higher voltage units will run 200-240 volts 50/60Hz
- Split-gas system confines compressor noise to the engine room and places quiet evaporating units in living areas
- Square chassis for easy installation in tight spaces. Reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side
- Rust-free composite drain pan
- Reconfigurable chassis allows optimal drain connections
- Compressor vibration-isolation mounts minimize noise and vibration
- Built-in refrigerant line filter drier protects the compressor from moisture and contaminants

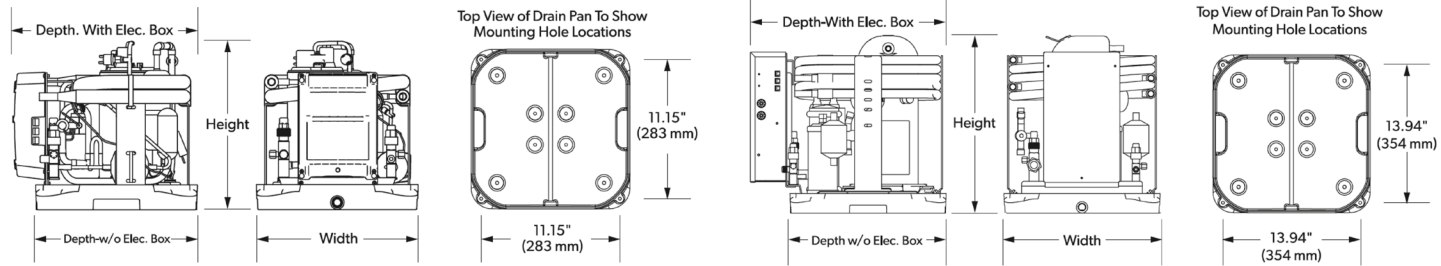
DEU24				DEU30		DEU36					DEU48					DEU60					DEU72		
24000				30000		36000					48000					60000					72000		
230	240	230	380	230	240	230	240	230	460	380	230	240	230	460	380	230	240	230	380	460	230	380	460
60/1	50/1	60/3	50/3	60/1	50/1	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	50/3	60/3	60/3	50/3	60/3
6.3	6.4	4.5	2.7	7.3	7.9	9.1	9.4	6.3	3.3	4.44	11.9	12.08	8.23	5.95	5.29	13.56	14.40	10.18	5.58	5.25	11.2	7.17	5.58
7.8	8	6.2	3.6	9.2	9.9	11.5	12	8.3	4.2	5.88	15.8	17.95	10.89	7.42	6.6	20.15	21.40	12.7	7.6	6.6	14.82	8.94	7.56
43	46	55.4	28	54	67	74	67	71	38	45	105	115	95	70	60	150	130	120	70	60	123	87	70
30	30	20	15	35	40	45	40	35	15	20	75	70	49	30	—	80	80	55	30	30	60	42	30
17	18	14	10	22	23	26	25	20	10	13	43	41	28	19	17	48	50	33	20	17	34	24	19
R410A				R410A		R410A					R410A					R410A					R410A		
0.625/16				0.625/16		0.625/16					0.625/16					0.625/16					0.625/16		
cupronickel tube				cupronickel tube		cupronickel tube					cupronickel tube					cupronickel tube					cupronickel tube		
3/8				3/8		3/8					3/8					3/8					3/8		
5/8				3/4		3/4					3/4					3/4					3/4		
98.5/45	104/47	100/45	100/45	102.25/46	114.5/52	118/54	102/46	116/53	116/53	122/55	135/61	135/61	135/61	135/61		155/70					165/75		
129/59	133/60	132/60	132/60	133.5/61	147/67	149.5/68	130/59	148/67	148/67	153/69	150/68	150/68	150/68	150/68		170/77					181/82		

INNOVATION CHASSIS CONQUERS INSTALLATION CHALLENGES



DEG6-16 DIMENSIONS

DEU24-72 DIMENSIONS



Model	DEG6	DEG8	DEG10	DEG12	DEG16	DEU24	DEU30	DEU36	DEU48	DEU60	DEU72
Max Height (in/mm) ¹	12/305	12/305	13/331	13/331	14.1/359	18/458	18/458	18/458	18.5/470	20/508	20/508
Width (in/mm) ¹	13.3/338	13.3/338	13.3/338	13.3/338	13.3/338	16/407	16/407	16/407	16/407	16/407	16/407
Depth Without Elec. Box (in/mm)	13.3/338	13.3/338	13.3/338	13.3/338	13.3/338	16/407	16/407	16/407	16/407	16/407	16/407
Depth With Elec. Box (in/mm)	15.1/384	15.1/384	15.1/384	15.1/384	15.1/384	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478
Height Electrical Box (in/mm)	8.75/223	8.75/223	8.75/223	8.75/223	8.75/223	13.25/337	13.25/337	13.25/337	13.25/337	13.25/337	13.25/337
Width Electrical Box (in/mm)	6.5/166	6.5/166	6.5/166	6.5/166	6.5/166	7.75/197	7.75/197	7.75/197	7.75/197	7.75/197	7.75/197
Depth Electrical Box (in/mm)	2.63/67	2.63/67	2.63/67	2.63/67	2.63/67	3.75/96	3.75/96	3.75/96	3.75/96	3.75/96	3.75/96

¹ All dimensions ± 0.30 in/8mm.



1. SQUARE CHASSIS AND COMPOSITE DRAIN PAN

Compact base fits in more spaces.



2. EASY ACCESS

East maintenance access from any side.



3. VIBRATION ISOLATION

Less vibration for quieter operation.