

# Discharge & Return Air Grilles

## Aluminum, Wood, & Plastic Styles



Assorted aluminum, wood, and plastic grilles shown



**Marine Air discharge and return air grilles are available in a wide assortment of dimensions, styles, and materials to blend with any yacht's interior.**

The vanes of discharge grilles are secured in nylon bushings for easy dependable positioning. RA-type return air grilles have one row of fixed vanes. Wood return air grilles have a lint screen which can be removed for cleaning.

Round plastic discharge grilles are also offered in several colors with and without shut-off dampers.

Micro-Particle Anti-Allergenic air filters, designed to capture diesel smoke, dust, lint, bilge odors, and pet dander, are available for Marine Air A/C systems. These filters mount to the unit's evaporator coil and are eight times more efficient than standard filters. Due to the high efficiency of these new filters, they should be inspected and replaced at frequent intervals. When using a filter on the unit, do not also have a filter on the grille, as that would cause too much restriction of the airflow.

### Key Benefits

- Large selection and variety of grilles.
- Standard and custom materials complement all yacht interiors.
- Custom sizes available for any application.

### Wood Frame Grilles

- Pop out louver panels with return air grilles have easy-to-clean replaceable filters.
- Supply air grilles have double-deflection, moveable louvers available in anodized bronze or aluminum finish.

### Aluminum Grilles

- Supply air grilles have adjustable louvers to direct air flow.
- Return air grilles feature durable fixed-vane louvers.
- Return air grilles are supplied with or without filters depending on system requirements.
- Painted grilles are sprayed with polyurethane.
- Multiple colors.

## Grille Sizing Per Unit

Unit Capacity in BTU/hr	Return		Supply	
	Sq. In.	Sq. cm	Sq. In.	Sq. cm
4,000	64	412.9	32	206.5
5,000	64	412.9	32	206.5
6,000	70	451.6	35	225.8
7,000	80	516.2	45	290.3
9,000	98	632.3	49	316.1
10,000	100	645.2	60	387.1
12,000	130	838.8	70	451.6
16,000	160	1032.3	80	516.2
18,000	200	1290.4	100	645.2
24,000	240	1548.5	140	903.3
30,000	350	2258.2	170	1096.8
36,000	360	2322.7	196	1264.6
48,000	480	3097.0	256	1651.7

**Notes:**

- Supply and Return Air Grille minimums are required to achieve rated capacity.
- Custom sizes and custom painted grilles are available. Contact Marine Air Systems for pricing and availability.

## Product Characteristics

### Wood Frame Grilles

- Cut-out dimensions are the nominal grille size, i.e., a 10' X 5' VH requires a 10' x 5' (25.4cm x 12.7cm) cut out.
- Outside frame dimensions are 0.9375' ± 0.0625' (2.4cm ± 0.16cm) larger than nominal grille size, i.e., a 10' X 5' VH has overall dimensions of 10.9375' X 5.9375' (27.8cm x 15.1cm).
- Depth of grilles: VH is 1.375' (3.5cm), VML is 1.875' (4.8cm), RA is 0.875' (2.2cm), measured from back of frame.
- Frame (flange) dimensions are 0.563' (1.4cm) on all sides.

### Aluminum Grilles

- Cut-out dimensions for the TH, TV, and TRA style grilles are 0.375' (1.0cm) smaller than the nominal grille size, i.e., a 10' X 5' TH requires a 9.625' X 4.625' (24.4cm X 11.7cm) cut-out. The TRAF style grilles are 0.125' (0.3cm) smaller.
- Outside frame dimensions are 0.875' (2.2cm) larger than the nominal grille size, i.e., a 10' X 5' TH has overall dimensions of 10.875' X 5.875' (27.6cm x 14.9cm).
- Depth of grilles: TH and TRA are 0.875' (2.2cm), TRAF is 1' (2.5cm), measured from back of frame.
- Frame (flange) dimension is 0.625' (1.6cm) on all sides.

### Plastic Grilles (Circular)

- Depth of grilles: 2SA is 1.31' (3.3cm), 3SA is 2.16' (5.5cm), 4SA is 2.38' (6.0cm), measured from back of frame.
- Frame (flange) dimensions: 2SA is 2.75' (7.0cm), 3SA is 3.875' (9.8cm), 4SA is 5.50' (14.0cm), in diameter.
- Cut-out dimensions are 2.0' (5.1cm), 3.0' (7.6cm), and 4.0' (10.2cm) respectively, in diameter.
- A special adapter is available to use the 4SA with 3.0" (7.6cm) ducting.

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For all other areas visit our website to find your nearest distributor.

## Grille Dimensions

Wood Frame Grilles			
Supply Air, Primary		Supply Air, Secondary Closeable	
Model VH		Model VML	
7' X 7'	10' X 5'	4' X 4'	6' X 4'
12' X 5'	14' X 4'	8' X 4'	8' X 8'
14' X 5'	14' X 6'	10' X 4'	12' X 4'
16' X 4'			
Supply Air, Secondary		Return Air with Filter	
Model VH		Model RA	
4' X 4'	6' X 4'	7' X 7'	12' X 14'
8' X 4'	10' X 4'	8' X 8'	14' X 7'
12' X 4'		8' X 10'	14' X 10'
		11' X 8'	14' X 12'
		12' X 12'	16' X 9'
Plastic Grilles (Round and Closeable Supply Air Grilles)			
Model	2SA	3SA	4SA
Duct Size	2'	3'	4'
Aluminum Grilles			
Supply Air		Return Air	
Model TH	Model TV	Model TRAF (with Filter); Model TRA (without Filter)	
4' X 4'	10' X 4'	8' X 11'	14' X 7'
7' X 7'	12' X 3'	10' X 4'	14' X 10'
8' X 4'	12' X 4'	11' X 7'	14' X 12'
10' X 4'	12' X 5'	11' X 8'	16' X 9'
10' X 5'	12' X 6'	11' X 12'	20' X 5'
	14' X 4'	12' X 12'	22' X 7'
	14' X 5'		28' X 6'
	14' X 6'		
	14' X 7'		
	16' X 4'		
	18' X 3'		
	20' X 5'		
	24' X 3'		

**Note:**

- Multiply the dimensions above by 2.54 to calculate for centimeters.

Dealer:

