

Performance Data

## Coil Data: RBV Series

### COILS

Superior Rex offers hot water, chilled water, direct expansion, and standard single tube steam coils for specific application with all Vertical

Floor fan coil units. Strict on-site inspection before, during, and after installation guarantees the highest quality and performance available.

#### Standard Features

- » Cooling - 3 or 4 row chilled water or DX
- » Heating - 1 or 2 row hot water
- » Total rows of cooling and heating coils: RBV: 4 maximum,
- » ½" O.D. seamless copper tubes
- » 0.016" tube wall thickness
- » High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover
- » Left or right hand, same or opposite side connections
- » Manual air vents

#### Optional Features

- » Automatic air vents
- » Stainless steel coil casings
- » DX coils are heat pump compatible

Superior Rex offers fan coil rating and selection program, RAMP for complete unit, coil and sound selection. See your representative for more information.

### RBV NOMINAL COIL CONNECTION SIZES

Unit Size	Coil Type											
	Hot Water		Chilled Water		Steam		Refrigerant (DX)					
	1 Row	2 Row	3 Row	4 Row	1 Row	2 Row	2 Row		3 Row		4 Row	
							Liquid	Suction	Liquid	Suction	Liquid	Suction
02-12	5/8 [16]	5/8 [16]	5/8 [22]	5/8 [22]	5/8 [16]	5/8 [16]	3/8 [10]	5/8 [16]	3/8 [10]	5/8 [16]	3/8 [10]	5/8 [16]

**Notes:**

1. Connection sizes are for standard circuit coils. Consult factory for special applications.
2. See submittal drawings for connection locations
3. All dimensional data is outside diameter (O.D.), measured in inches [millimeters]

### RBV FACE AREA, FREE AREA AND FILTER SIZES

Unit Size	Coil Face Area	Discharge Grille Free Area	Filter Face Area	Nominal Filter Sizes
02	0.97 [.090]	0.47 [.044]	1.40 [.130]	9.25 X 21.75 X 1 [235 X 552 X 25.4]
03	1.25 [.116]	0.56 [.052]	1.65 [.154]	9.25 X 25.75 X 1 [235 X 654 X 25.4]
04	1.67 [.155]	0.66 [.061]	2.04 [.189]	9.25 X 31.75 X 1 [235 X 806 X 25.4]
06	2.36 [.219]	0.94 [.087]	2.68 [.249]	9.25 X 41.75 X 1 [235 X 1060 X 25.4]
08	2.50 [.023]	0.94 [.087]	2.79 [.260]	(2) 9.25 X 21.75 X 1 [235 X 552 X 25.4]
10	3.47 [.322]	1.31 [.122]	3.69 [.343]	(1) 9.25 X 25.75 X 1 [235 X 654 X 25.4] (1) 9.25 X 31.75 X 1 [235 X 806 X 25.4]
12	4.03 [.374]	1.50 [.139]	4.19 [.389]	(3) 9.25 X 21.75 X 1 [235 X 552 X 25.4]

**Notes:**

1. Face and free areas are in square feet [square meters]
2. Filter sizes are in inches [millimeters]



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#### RBV HEATING CAPACITY

Unit Type	Unit Size	Nom CFM	1 Row			2 Row		
			QS (MBH)	GPM	WPD	QS (MBH)	GPM	WPD
RBVR	02	239	7.8	0.4	0.45	13.2	0.7	0.39
	03	330	10.8	0.6	0.80	18.6	1.0	0.61
	04	503	13.2	0.7	0.24	26.9	1.4	1.39
	06	590	15.0	0.8	0.12	32.3	1.7	0.25
	08	693	9.0	0.5	0.01	38.1	2.0	0.34
	10	900	24.4	1.3	0.10	52.4	2.7	0.69
	12	954	31.6	1.6	0.18	52.3	2.7	0.14
RBVS	02	239	7.8	0.4	0.45	13.3	0.7	0.39
	03	345	11.1	0.6	0.84	19.0	1.0	0.64
	04	489	13.0	0.7	0.24	26.5	1.4	1.36
	06	599	19.1	1.0	0.93	32.6	1.7	0.71
	08	672	21.2	1.1	1.18	37.1	1.9	0.33
	10	967	25.5	1.3	0.11	54.4	2.8	0.74
	12	1031	33.0	1.7	0.2	55.1	2.8	0.16
RBVC	02	239	7.8	0.4	0.45	13.3	0.7	0.39
	03	345	11.1	0.6	0.84	19.0	1.0	0.64
	04	489	13.0	0.7	0.24	26.5	1.4	1.36
	06	599	19.1	1.0	0.93	32.6	1.7	0.71
	08	672	21.2	1.1	1.18	37.1	1.9	0.33
	10	967	25.5	1.3	0.11	54.4	2.8	0.74
	12	1031	33.0	1.7	0.2	55.1	2.8	0.16

Note: Based on 70°F DB EAT, 180°F EWT, 40°F temperature drop, high fan speed