



VERTICAL WATER COOLED AIR CONDITIONERS

5 TO 25 TON CAPACITIES

Vertical self-contained water cooled air conditioning packages offer a complete line of unit options for indoor, floor mounted installations on high rise and single story building applications.

- Allows independent metering
- R410A refrigerant
- Onboard microprocessor control with diagnostics
- Single point power connection
- Stainless steel drain pan
- 18 gauge galvalume cabinets
- Acoustically insulated cabinet ensures quiet operation
- Forward curve DWDI belt drive centrifugal blower
- TEFC premium efficiency motors
- Filter drier and TX valve
- High low pressure cut outs
- Factory charged and run tested
- 1 Year parts warranty (extended compressor warranty available)
- ETI compliant to ANSI/UL 1995, Can/CSA-C22.2



>> LET US DESIGN ONE FOR YOU



“SPVWC”

COMMERCIAL VERTICAL WATER COOLED

Self-contained Air Conditioning Packages Belt Drive

Spinnaker Industries Inc. “SPVWC” vertical self-contained air conditioning packages offer a complete line of unit options for indoor, floor mounted installations on high rise and single story building applications.

Spinnaker Industries Inc. compact, indoor design protects against potential vandalism, weathering and eliminates the need for any unsightly exterior equipment.

Floor-by-floor installation provides independent zone and temperature control, eliminating many of the complications encountered with roof-top equipment. Renovation and restoration projects are simplified where roof load, cooling tower, and construction restrictions can present application problems.

Spinnaker’s SPVWC Water Cooled Indoor Vertical air conditioning design offers a high efficiency, quality engineered, quiet and dependable option to conventional rooftop equipment. The SPVWC has been designed to provide a solid answer for “NICHE” engineering requirements.

Spinnaker SPVWC Features and Benefits

- Ideal for tenant change/renovation.
- Protected from extreme weather conditions and vandalism.
- Convenient access to all parts and service needs, while running in place.
- Allows independent metering / temperature control.
- Convenient compact size fits through standard openings (33”).
- Sub-cooling built into draw thru condensing coil.
- 18 gauge galvalume evaporator and condensing cabinets which can be field-split if required.
- Convertible horizontal or vertical evaporator discharge.
- Static capability to suit various installation requirements using belt driven centrifugal blowers and adjustable pulleys.
- Available in 5-25 ton capacities; multiple voltages.
- Filter Drier and TX Valve.
- High efficiency compressor(s)
- 410A Refrigerant
- Stainless Steel Drain Pan
- On Board microprocessor control with diagnostics
- Compressor Anti Short Cycle Timer
- ETL compliant to ANSI/UL 1995, Can/CSA-C22.2

TYPICAL MECHANICAL SPECIFICATIONS

GENERAL

All Models 5-25 tons ship as factory-charged unitized packages. All units are designed for freestanding floor mounting and are shipped with vertical evaporator fan discharge as standard (down flow is optional) . Units are completely factory wired and piped. Dual circuit models feature internally manifolded condensers.

CABINET

All cabinets are completely constructed of 18 Ga. corrosion resistant "Galvalume" coated steel. The entire unit interior (both evaporator and compressor section) is insulated with 1/2' thick, 2 lb. density insulation. Service panels are equipped with lifting handles for ease of removal and handling. Duct flanges for return intake and evaporator discharge, are provided with the unit for field installation.

REFRIGERANT CIRCUITS

All models utilize "Scroll" type 410A hermetic compressors. Compressors are mounted on rubber isolators to minimize vibration transmission. Internal overload protection is provided. External high pressure and low pressure cutout switches are included in each compressor control circuit. The 5 ton units have a single refrigeration circuit. The 8 - 25 ton units feature two independent refrigeration circuits. Each refrigeration circuit includes an adjustable thermal expansion valve (with external equalizer), liquid line filter drier, and service gauge ports.

The evaporator coils are constructed of internally enhanced copper tubes mechanically bonded to rippled aluminum plate fins. The evaporator coil is employed in a draw-through configuration, and features inter-laced circuiting. Larger evaporator coil face areas minimize potential water carry-over. The high-efficiency tube-in-tube condensers feature a convoluted inner tube design for optimum performance. Standard models feature copper inner tube surrounded by a steel outer tube.

INDOOR FANS

Forward curved, double inlet and double width centrifugal blowers are used for evaporator air movement. Larger diameter wheels are employed to provide required airflow performance at minimum rpm and noise levels. Blower wheels are fabricated of galvanized steel. Blowers employ solid steel shafts, supported in permanently lubricated ball bearings. All blowers are belt driven and come with variable-pitch motor sheaves which allow for field adjustments of blower rpm/cfm.

ELECTRICAL/CONTROLS

All units are completely factory wired with all necessary controls. Manual reset protection is provided on evaporator blower motors. A manual reset circuit is also provided on each compressor control circuit in the event of high/low pressure cutout. A 24 volt control circuit, with an oversized transformer, is provided for field connection. Units are designed to operate with conventional thermostat control interface. Units include an on board microprocessor control with diagnostics. Compressor anti short cycle protection is standard.

FILTERS

All models are shipped with 2 inch thick MERV8 throw-away filters

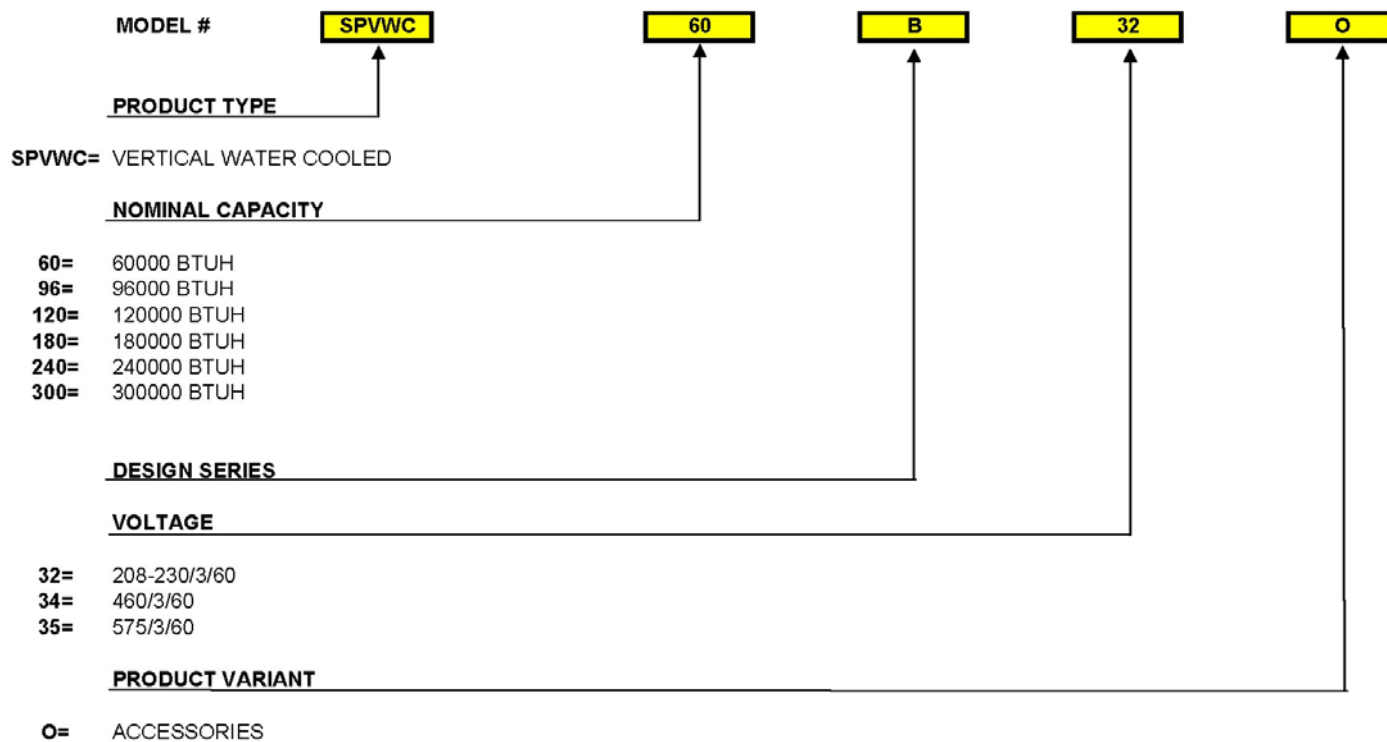
Extended Compressor Warranty

An optional, additional four year protection plan on the compressor is available at modest cost at the time of original unit sale only. This obligates Spinnaker Industries Inc. to replace f.o.b. factory, a defective compressor of equal capacity free of charge. No responsibility is assumed by Spinnaker Industries Inc. for refrigerant, labor, or freight to and from the factory.

Electrical Data

MODEL	SUPPLY	COMPRESSOR			EVAP FAN		MIN. CCT.	MAX FUSE
Series	VOLTAGE	QTY	RLA	LRA	HP	FLA	AMPACITY	CCT. BKR. AMP
60	208-230/3/60	1	17.6	123	1.0	3.5	25.5	35
	460/3/60	1	9.6	62	1.0	1.6	13.6	20
	575/3/60	1	6.2	40	1.0	1.3	9.2	15
96	208-230/3/60	2	13.7	83	1.5	5.5	36.3	50
	460/3/60	2	6.2	41	1.5	2.5	16.5	25
	575/3/60	2	4.8	33	1.5	2.0	12.8	20
120	208-230/3/60	2	17.6	123	2.0	6.6	46.3	70
	460/3/60	2	9.6	62	2.0	3.0	24.6	40
	575/3/60	2	6.1	40	2.0	2.4	18.0	25
180	208-230/3/60	2	25.0	164	3.0	8.8	65.0	100
	460/3/60	2	12.2	100	3.0	4.0	31.5	50
	575/3/60	2	8.9	78	3.0	3.4	23.6	35
240	208-230/3/60	2	30.1	225	5.0	13.9	81.6	125
	460/3/60	2	16.7	114	5.0	6.3	43.8	70
	575/3/60	2	12.2	80	5.0	5.0	32.5	50
300	208-230/3/60	2	33.3	239	7.5	20.5	95.4	150
	460/3/60	2	17.9	125	7.5	9.3	49.6	80
	575/3/60	2	12.8	80	7.5	7.5	36.3	60

Product Nomenclature



Model	60	96	120	180	240	300
Nominal cooling (Tons)	5	8	10	15	20	25
Cooling Performance						
GrossCooling Capacity (BTUH)	61500	99430	123400	192600	254900	303300
Design CFM	2000	3200	4000	6400	8000	10000
EER RATING	14.9	14.6	14.4	13.8	13.9	14.1
Compressor Type	Scroll					
Number Used	1	2	2	2	2	2
Evaporator Air Coil-Type	Enhanced Copper Tubes, Enhanced Aluminum Fins					
Face Area (sq ft)	4.44	7.02	8.55	12.83	16.44	20.58
Rows/FPI	3/11	3/10	3/12	3/12	3/12	4/10
Refrigerant Control	TX Valve					
Water Coil-Type	Co-axial					
Number Used / Tons Capacity	1/5	2/4	2/5	2 / 7.5	2/10	2 / 12.5
Nominal Water Flow Rate (GPM)	15	24	30	45	60	75
Water Connection Size (in)	1 FPT	1 1/4 FPT	1 1/4 FPT	1 1/2 FPT	2.0 FPT	2.0 FPT
Condensate Drain Connection Size (in)	3/4 FPT	3/4 FPT	1.0 FPT	1.0 FPT	1.0 FPT	1.0 FPT
Evaporator Fan Type	Centrifugal, Forward Curved					
Number Used	1	1	1	2	2	2
Drive	Adjustable V Belt					
Diameter x Width(in)	12x9	12x12	15x13	15x10	15x15	15x15
Motor HP (Standard / Oversized)	1.0 / 1.5	1.5 / 2.0	2.0 / 3.0	3.0 / 5.0	5.0 / 7.5	7.5 / 10.0
Filters						
Quantity-Size (in) 2" Thick :Disposable	2-24x18	2-24x24	2-30x24	4-16x24 2-16x20	6-18x25	8-20x20
Weight						
Shipping	675	865	1025	1400	1575	1875

Note:

- (1) Cooling performance is rated at 80°F entering dry bulb, 67°F wet bulb entering air temperature, CFM listed, 85°F entering 95°F leaving water temperature, and water flow rate listed.
- (2) Gross capacity does not included the effect of fan motor heat.

SPVWC-060 @ 2000 CFM Cooling Performance

SPVWC060		11 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	KW	TC	SC	KW	TC	SC	KW
62°F	75°F	57.9	45.6	3.57	54.8	44.4	4.21	50.9	42.5	5.10
	80°F	59.3	55.6	3.57	55.7	54.5	4.21	52.5	52.2	5.10
	85°F	62.5	62.4	3.59	61.3	61.2	4.28	58.7	58.6	5.14
67°F	75°F	65.1	39.0	3.65	61.0	38.0	4.28	59.6	36.4	5.14
	80°F	65.6	49.7	3.65	60.9	48.3	4.28	58.6	46.3	5.14
	85°F	65.6	59.6	3.65	61.0	58.6	4.28	59.8	56.2	5.14
72°F	75°F	69.4	29.4	3.72	65.0	28.2	4.34	60.6	24.4	5.22
	80°F	69.4	34.2	3.72	64.9	37.8	4.34	60.6	35.9	5.22
	85°F	69.4	48.7	3.72	65.0	47.9	4.55	60.6	45.7	5.22

SPVWC060		15 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	KW	TC	SC	KW	TC	SC	KW
62°F	75°F	58.6	45.9	3.55	53.2	42.7	4.14	55.1	45.6	4.99
	80°F	60.6	56.4	3.55	54.7	52.4	4.14	55.3	49.6	4.99
	85°F	63.3	63.3	3.58	57.8	57.6	4.16	55.8	55.7	4.99
67°F	75°F	65.6	39.3	3.60	61.5	36.5	4.19	57.0	34.6	5.02
	80°F	65.8	50.0	3.60	61.5	46.5	4.19	55.8	44.1	5.02
	85°F	65.6	60.7	3.60	61.5	56.5	4.19	57.6	53.5	5.02
72°F	75°F	70.4	29.1	3.65	65.6	24.4	4.23	60.7	38.0	5.06
	80°F	70.5	39.8	3.65	66.0	34.2	4.23	60.0	42.0	5.06
	85°F	70.3	49.7	3.65	66.1	44.3	4.23	61.0	42.7	5.06

SPVWC-096 @ 3200 CFM Cooling Performance

SPVWC096		17.5 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	94.3	72.9	5.75	88.2	71.0	7.31	82.2	67.9	9.35
	80°F	95.8	94.0	5.78	89.9	87.2	7.35	84.8	83.4	9.42
	85°F	101.0	99.8	5.83	98.9	97.9	7.39	94.8	93.6	9.48
67°F	75°F	106.0	62.4	5.73	98.2	60.8	7.29	96.3	58.1	9.31
	80°F	106.0	79.5	5.79	98.4	77.3	7.37	94.7	74.0	9.41
	85°F	106.0	95.3	5.84	98.8	93.7	7.44	96.6	89.8	9.50
72°F	75°F	112.0	47.1	5.88	104.6	45.1	7.38	97.9	39.0	9.40
	80°F	112.0	54.7	5.93	104.6	65.0	7.46	97.8	57.4	9.50
	85°F	112.0	77.9	5.99	104.6	76.6	7.53	97.9	73.0	9.59

SPVWC096		24 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	94.4	73.4	5.46	85.9	68.3	6.98	89.0	73.0	8.89
	80°F	97.6	90.2	5.48	88.4	83.8	7.02	89.3	79.4	8.92
	85°F	102.0	101.0	5.51	93.4	99.2	7.06	90.2	89.2	8.94
67°F	75°F	106.0	62.8	5.44	99.2	58.4	6.96	92.1	55.4	8.82
	80°F	106.3	80.0	5.50	99.4	74.4	7.02	90.2	70.6	8.91
	85°F	106.0	97.1	5.55	99.6	90.4	7.09	93.1	85.6	9.00
72°F	75°F	113.0	46.5	5.49	106.0	39.0	6.98	98.1	60.8	8.88
	80°F	113.0	63.7	5.55	107.0	54.7	7.05	98.1	67.2	8.97
	85°F	113.0	79.5	5.60	107.0	70.8	7.12	98.2	68.4	9.06

SPVWC-120 @ 4000 CFM Cooling Performance

SPVWC120		22 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	117.0	89.6	7.00	109.0	87.2	8.83	102.0	83.4	11.22
	80°F	119.0	116.0	7.03	111.0	107.0	8.88	106.0	102.0	11.31
	85°F	126.0	123.0	7.08	123.0	120.0	8.93	118.0	115.0	11.38
67°F	75°F	131.0	76.7	6.98	121.0	74.6	8.81	120.0	71.4	11.17
	80°F	132.0	97.7	7.05	122.0	94.9	8.91	118.0	90.9	11.30
	85°F	133.0	117.0	7.11	123.0	115.0	8.99	119.0	110.0	11.40
72°F	75°F	139.0	57.9	7.16	129.0	55.4	8.92	122.0	47.9	11.28
	80°F	140.0	67.2	7.22	130.0	74.3	9.01	122.0	70.5	11.40
	85°F	141.0	95.7	7.29	131.0	94.0	9.10	123.0	89.7	11.50

SPVWC120		30 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	117.0	90.2	6.57	107.0	83.9	8.36	110.0	89.6	10.58
	80°F	121.0	110.0	6.59	110.0	103.0	8.41	111.0	97.5	10.62
	85°F	126.0	124.0	6.63	116.0	113.0	8.45	112.0	109.0	10.64
67°F	75°F	130.0	77.2	6.55	123.0	71.7	8.33	114.0	68.0	10.50
	80°F	132.0	98.3	6.62	123.0	91.4	8.41	112.0	86.7	10.60
	85°F	132.0	119.0	6.68	124.0	110.0	8.49	116.0	105.0	10.70
72°F	75°F	140.0	57.1	6.60	131.0	47.9	8.36	122.0	74.6	10.57
	80°F	149.0	78.3	6.68	132.0	67.2	8.45	121.0	82.5	10.68
	85°F	142.0	97.7	6.74	133.0	86.9	8.53	122.0	83.9	10.80

SPVWC-180 @ 6000 CFM Cooling Performance

SPVWC180		33 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	191.0	154.0	11.60	170.0	147.0	14.20	159.0	134.0	17.70
	80°F	194.0	183.0	11.70	173.0	172.0	14.20	165.0	164.0	17.80
	85°F	203.0	201.0	11.70	191.0	190.0	14.30	185.0	184.0	17.90
67°F	75°F	203.0	121.0	11.60	188.0	126.0	14.10	187.0	124.0	17.60
	80°F	203.0	151.0	11.70	190.0	142.0	14.30	184.0	146.0	17.80
	85°F	203.0	182.0	11.80	192.0	172.0	14.40	185.0	176.0	17.90
72°F	75°F	217.0	91.0	11.90	200.0	93.4	14.30	190.0	76.9	17.80
	80°F	217.0	116.0	12.00	202.0	125.0	14.50	191.0	113.0	17.90
	85°F	217.0	141.0	12.10	204.0	158.0	14.60	192.0	144.0	18.10

SPVWC180		45 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	183.0	145.0	10.90	167.0	134.0	13.40	166.0	143.0	16.60
	80°F	189.0	177.0	10.95	172.0	165.0	13.50	167.0	164.0	16.70
	85°F	197.0	194.0	11.00	181.0	176.0	13.60	175.0	173.0	16.80
67°F	75°F	203.0	124.0	10.90	192.0	115.0	13.40	175.0	106.0	16.50
	80°F	206.0	158.0	11.00	193.0	147.0	13.50	175.0	140.0	16.70
	85°F	206.0	191.0	11.10	194.0	176.0	13.60	176.0	162.0	16.80
72°F	75°F	218.0	92.0	10.90	205.0	76.8	13.40	188.0	77.0	16.00
	80°F	220.0	126.0	11.10	206.0	108.0	13.50	189.0	100.0	16.80
	85°F	222.0	157.0	11.20	208.0	139.0	13.70	190.0	126.0	17.00

SPVWC-240 @ 8000 CFM Cooling Performance

SPVWC240		44 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	243.0	296.0	14.30	216.0	187.0	17.10	202.0	170.0	20.80
	80°F	247.0	233.0	14.40	220.0	218.0	17.20	210.0	208.0	21.00
	85°F	258.0	255.0	14.50	243.0	241.0	17.30	235.0	233.0	21.10
67°F	75°F	256.0	153.0	14.30	239.0	160.0	17.10	238.0	158.0	20.70
	80°F	258.0	178.0	14.40	242.0	169.0	17.30	234.0	184.0	21.00
	85°F	259.0	232.0	14.50	244.0	219.0	17.50	253.0	241.0	21.20
72°F	75°F	274.0	115.0	14.60	254.0	159.0	17.30	242.0	97.9	20.90
	80°F	275.0	147.0	14.70	257.0	189.0	17.50	243.0	144.0	21.20
	85°F	276.0	179.0	14.90	259.0	200.0	17.70	244.0	183.0	21.40

SPVWC240		60 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	232.0	185.0	13.70	212.0	170.0	16.50	211.0	181.0	20.20
	80°F	240.0	225.0	13.70	219.0	210.0	16.60	212.0	208.0	20.20
	85°F	250.0	246.0	13.80	230.0	224.0	16.70	223.0	220.0	20.30
67°F	75°F	258.0	157.0	13.60	244.0	146.0	16.40	224.0	136.0	20.00
	80°F	262.0	187.0	13.80	245.0	178.0	16.60	223.0	156.0	20.20
	85°F	264.0	245.0	13.90	247.0	186.0	16.70	225.0	212.0	20.40
72°F	75°F	273.0	116.0	13.80	261.0	97.7	16.00	239.0	97.8	20.10
	80°F	279.0	160.0	13.90	262.0	137.0	16.70	240.0	127.0	20.40
	85°F	282.0	199.0	14.00	264.0	176.0	16.80	241.0	159.0	20.60

SPVWC-300 @ 10000 CFM Cooling Performance

SPVWC300		55 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	300.0	242.0	18.40	267.0	231.0	20.90	250.0	210.0	25.00
	80°F	306.0	247.0	18.50	272.0	269.0	21.00	260.0	257.0	25.30
	85°F	319.0	315.0	18.70	301.0	298.0	21.20	291.0	288.0	25.40
67°F	75°F	317.0	189.0	18.40	296.0	198.0	20.90	294.0	195.0	24.90
	80°F	319.0	220.0	18.50	299.0	209.0	21.20	289.0	227.0	25.30
	85°F	321.0	287.0	18.70	302.0	271.0	21.40	313.0	298.0	25.40
72°F	75°F	339.0	142.0	18.80	314.0	234.0	21.20	299.0	121.0	25.10
	80°F	340.0	182.0	18.90	318.0	197.0	21.40	301.0	186.0	25.50
	85°F	342.0	222.0	19.20	321.0	248.0	21.60	302.0	226.0	25.80

SPVWC300		75 GPM								
		65°F EWT			85°F EWT			105°F EWT		
EWB	EDB	TC	SC	kW	TC	SC	kW	TC	SC	kW
62°F	75°F	287.0	229.0	17.60	262.0	210.0	20.50	261.0	224.0	24.20
	80°F	297.0	278.0	17.70	271.0	259.0	20.60	262.0	257.0	24.30
	85°F	309.0	286.0	17.80	285.0	277.0	20.70	276.0	272.0	24.40
67°F	75°F	319.0	194.0	17.50	302.0	181.0	20.40	276.0	168.0	24.00
	80°F	324.0	231.0	17.80	303.0	224.0	20.60	277.0	193.0	24.30
	85°F	327.0	303.0	17.90	306.0	230.0	20.70	278.0	262.0	24.50
72°F	75°F	337.0	124.0	17.80	323.0	121.0	19.90	296.0	121.0	24.20
	80°F	345.0	140.0	17.90	324.0	169.0	20.70	297.0	157.0	24.50
	85°F	349.0	225.0	18.00	327.0	214.0	20.80	298.0	197.0	24.80

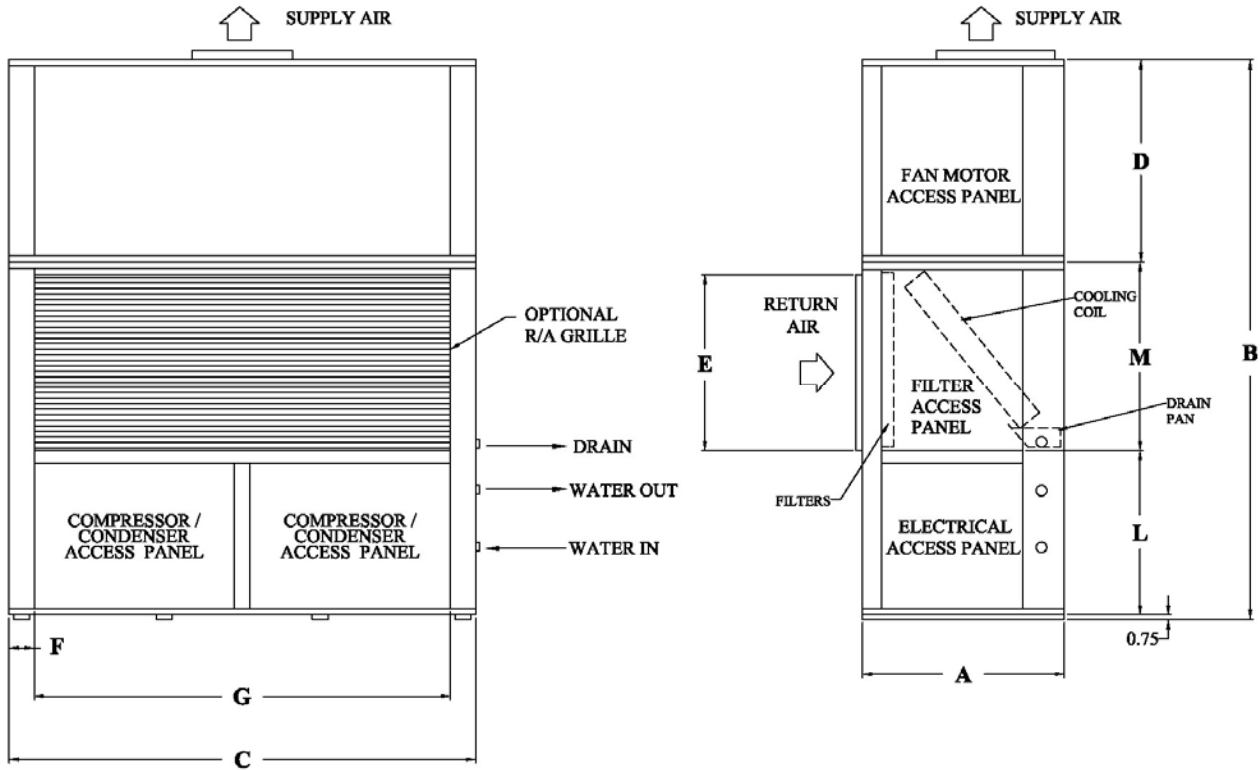
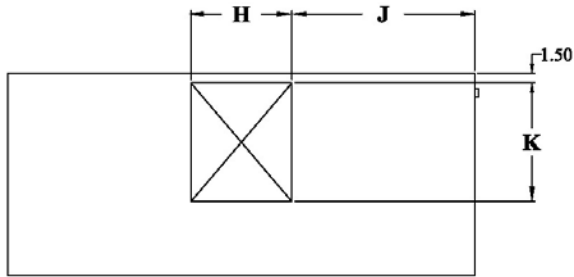
Evaporator Fan Performance

Model	Supply CFM	External Static Pressure (inches w.c)											
		0.2		0.4		0.6		0.8		1.0		1.2	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
60	1800	687	0.37	775	0.44	865	0.52	945	0.61	1009	0.67	1079	0.75
	2000	737	0.48	825	0.56	905	0.65	970	0.73	1041	0.81	1105	0.90
	2200	790	0.62	880	0.72	943	0.80	1014	0.89	1077	0.98	1141	1.08
96	3000	732	0.81	807	0.95	883	1.07	949	1.21	1016	1.34	1079	1.47
	3200	770	0.97	841	1.10	914	1.24	977	1.38	1043	1.52	1100	1.66
	3400	810	1.15	871	1.28	945	1.44	1006	1.58	1064	1.72	1127	1.88
120	3800	687	1.06	748	1.20	810	1.37	862	1.53	916	1.72	964	1.89
	4000	706	1.11	771	1.26	826	1.42	881	1.60	934	1.77	982	1.96
	4200	736	1.26	799	1.43	852	1.59	900	1.75	949	1.83	1000	2.02
180	6000	586	1.46	646	1.68	706	1.92	763	2.19	818	2.43	870	2.78
	6400	622	1.76	679	2.00	734	2.24	789	2.52	842	2.82	892	3.14
	6800	657	2.09	710	2.34	763	2.60	815	2.88	865	3.18	914	3.52
240	7400	667	1.80	735	2.09	796	2.40	850	2.73	903	3.10	957	3.40
	8000	700	2.20	770	2.51	830	2.85	885	3.20	934	3.55	982	3.91
	8600	749	2.70	810	3.00	860	3.35	912	3.70	962	4.05	1010	4.47
300	9300	690	2.70	750	3.08	810	3.50	864	3.74	915	4.10	963	4.47
	10000	745	3.30	807	3.80	857	4.15	910	4.50	955	4.90	1006	5.28
	10700	800	4.15	850	4.45	885	5.00	943	5.28	992	5.70	1038	6.10

Note:

1. At higher evaporator airflows and wet bulb conditions, condensate carry over may occur. Adjust airflow downward as necessary.
2. Values include pressure drop from wet coil and clean filters.
3. Shaded areas indicate oversize motors

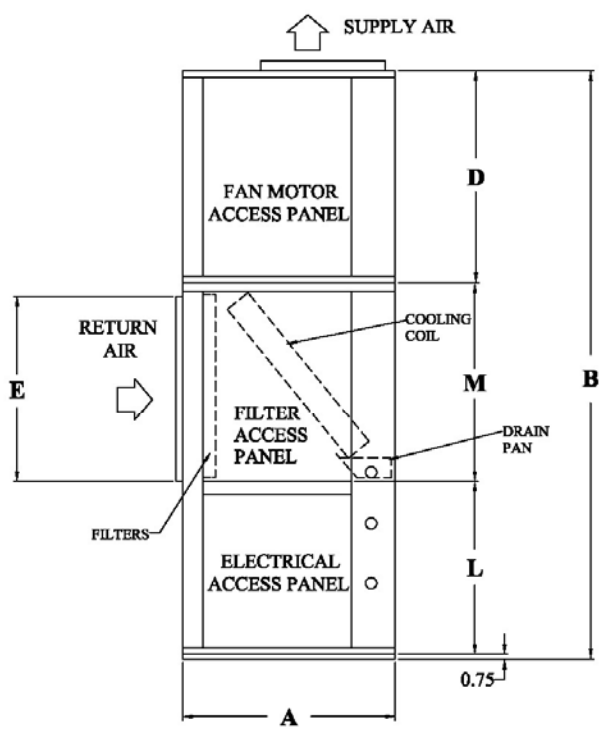
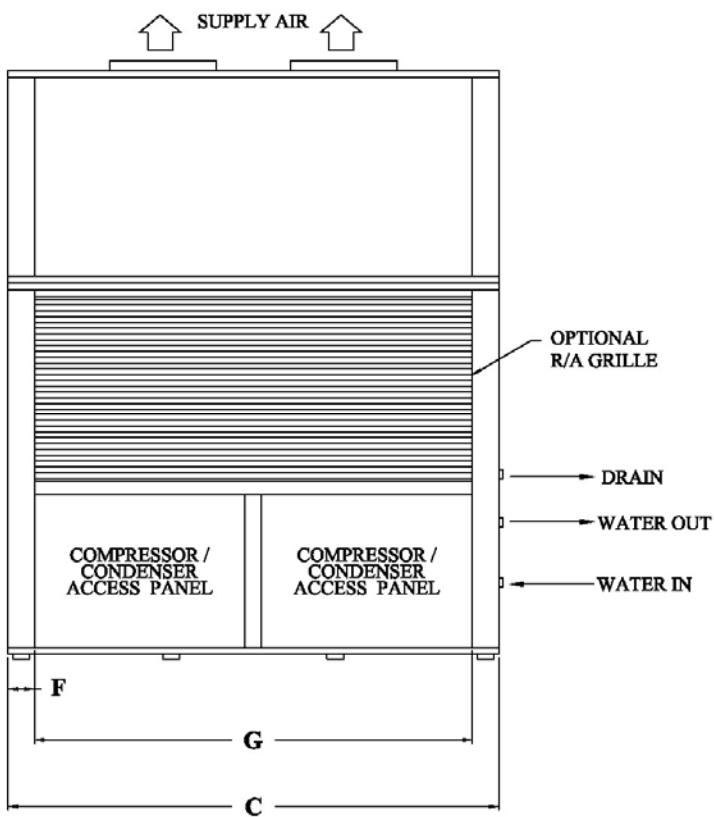
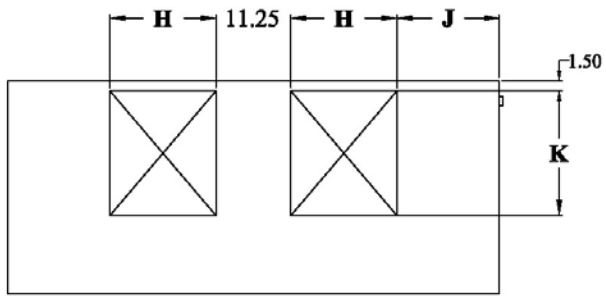
SPVWC 060, 096, 120 DIMENSIONAL DATA



UNIT	A	B	C	D	RETURN AIR			SUPPLY AIR			L	M
					E	F	G	H	J	K		
60	27.00	72.00	40.00	25.00	20.00	3.50	33.00	12.375	16.813	13.562	22.00	25.00
96	27.00	75.00	54.00	25.00	22.00	3.50	47.00	15.75	19.125	13.562	26.00	25.00
120	27.00	78.00	64.00	29.00	22.00	3.50	57.00	18.75	22.625	16.000	24.00	25.00

Dimensions shown in (inches)

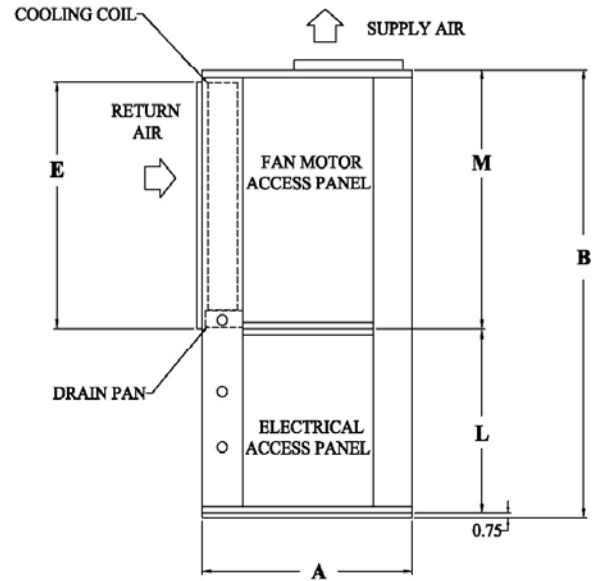
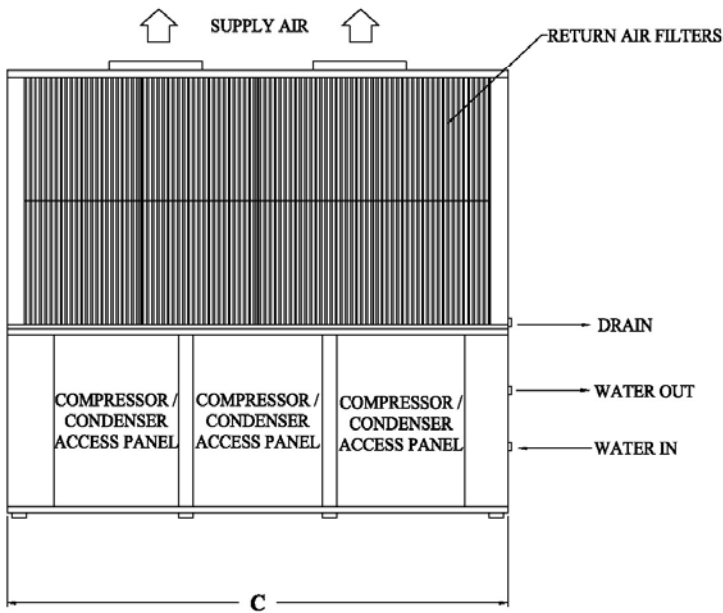
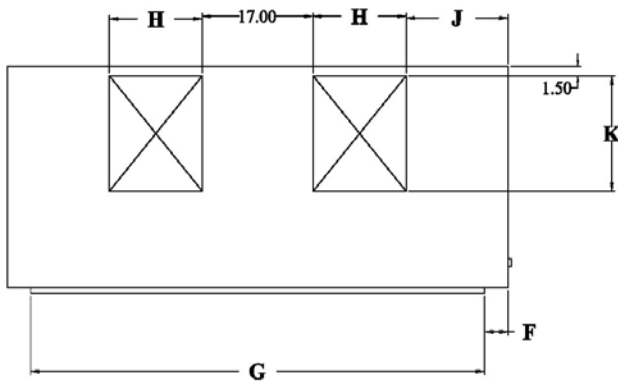
SPVWC 180 DIMENSIONAL DATA



UNIT	A	B	C	D	RETURN AIR			SUPPLY AIR			L	M
					E	F	G	H	J	K		
180	32.00	88.00	74.00	32.00	28.00	3.50	67.00	14.375	16.625	16.00	26.00	30.00

Dimensions shown in (inches)

SPVWC 240, 300 DIMENSIONAL DATA



UNIT	A	B	C	RETURN AIR			SUPPLY AIR		L	M
				E	F	G	H	J		
240	36.00	72.00	82.00	34.00	3.50	75.00	19.000	13.500	30.00	42.00
300	36.00	72.00	86.00	38.00	3.50	79.00	19.000	15.500	30.00	42.00

Dimensions shown in (inches)

OPTIONAL ACCESSORIES

FACTORY INSTALLED

Oversized Evaporator Fan Motors

Increased horsepower motors and drive components are available for those applications where external static pressure requirements exceed the capability of the standard motor.

Corrosion Resistant Coatings

Condenser and/or evaporator coils shall have ElectroFin baked flexible polymeric coating utilizing cathodic electro coat (e-coat) technology.

Water Side Economizer

Commercial Water Cooled Air Conditioners can achieve substantial operating cost reductions by utilizing the cooling effect made available by low temperature water. Spinnaker Industries Inc. Waterside Economizer package consists of a factory mounted water cooling coil, all necessary internal piping, a three-way motorized ball valve, and all necessary controls for unit operation from a conventional 24-Volt thermostat.

Condenser Pressure Control

Water regulating valves provide control of the quantity of condenser water supplied to the unit by sensing the condensing temperature. The factory installed Condenser Pressure Control option provides a regulating valve for each internal condenser water circuit. Standard Water Regulating Valves carry a 150 psig working pressure rating. The valve is installed inside of the unit cabinet.

Hot Gas Bypass

Adjustable hot gas regulator and all necessary piping shall be installed on the lead compressor circuit. Bypass capacity shall be minimum 50% of compress or capacity. The bypass valve opens at a preset suction pressure to prevent coil freeze-up at light evaporator load, or low airflow conditions. The use of the factory installed Condenser Pressure Control option is strongly recommended when Hot Gas Bypass is installed.

Extended Compressor Warranty

An optional, additional four year protection plan on the compressor is available at modest cost at the time of original unit sale only. This obligates Spinnaker Industries Inc. to replace f.o.b. factory, a defective compressor of equal capacity free of charge. No responsibility is assumed by Spinnaker Industries Inc. for refrigerant, labor, or freight to and from the factory.

FIELD INSTALLED

Hot Water & Steam Coils

Hydronic heating coils shall mount on the return air side of the cooling coil.

Return Air Grille

Available on 5-15 ton models only. Recommended for applications where return air is not ducted and air is drawn directly from the conditioned space.

Discharge Plenum

Plenums mount on top of the evaporator section, with fans arranged for vertical discharge. Double deflection grills shall allow air discharge in multiple directions.



LIMITED WARRANTY

COVERAGE AND TERMS

SPVWC Model Series units, and all related accessories as manufactured by Spinnaker Industries, are warranted to the original buyer to be free from defects in materials or workmanship provided that these units and accessories have been installed and maintained in accordance with instructions and operated under normal conditions. Spinnaker Industries sole obligation under this Limited Warranty is to repair or replace, at its opinion, free of charge to the customer (except as provided below), FOB factory, any part determined by Spinnaker Industries (in its sole discretion) to be defective. Warranty terms, from original ship date are as follows:

- ◆ All components (excluding filters and fan belts) 1 year from date of shipment

EXCLUSIONS

Spinnaker Industries Limited Warranty does not cover defects, reduced performance, or failure caused, directly or indirectly, by improper installation, abuse, misuse, misapplication, improper maintenance, lack of maintenance, negligence, accident, or normal deterioration, including wear and tear. This Limited Warranty shall not apply to items that require replacement due to normal wear i.e. fan drive belts, filters, etc., or to failures, defects, or reduced performance resulting, directly or indirectly, from use of its products exposed to corrosive gasses or liquids.

Warranty claims that are not supported with a copy of the original start up report will not be considered.

Spinnaker Industries Limited Warranty does not include costs for transportation (including, without limitation, freight and return freight charges, costs, and insurance), costs for removal or re-installation of parts or equipment, cranes and hoisting, premiums for overtime, labor for performing repairs or replacement made in the field, roofing contractors or any other sub trades. Spinnaker Industries is not responsible for damages occurring during transport of any product to or from its facilities.

RETURN PROCEDURE

To return defective parts under these warranty terms, please contact Spinnaker Industries at 1-800-932-6210 to confirm the ship to address. The serial number located on the rating label of the unit must be provided so that the original ship date of the unit can be verified. All defective parts must be authorized for return and shipped pre-paid to Spinnaker Industries for inspection. A purchase order must be received prior to shipment of repaired or replacement parts. Repaired or replacement parts will be invoiced and shipped collect FOB Factory. A credit will be issued only if the defective parts are deemed the responsibility of Spinnaker Industries. Spinnaker Industries is not responsible for any damage or loss occurring during shipment to or from Spinnaker Industries.

THE OBLIGATION AND LIABILITY OF Spinnaker Industries UNDER THIS LIMITED WARRANTY DOES NOT INCLUDE LOSSES, DIRECT OR INDIRECT, FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS LIMITED WARRANTY IS PROVIDED EXCLUSIVELY TO THE ORIGINAL BUYER OF PRODUCTS AND MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.