

AIREDALE

air conditioning for every environment

Steam/Hot Water Unit Heaters

12,600 – 952,000 BTU/h

12,600 – 952,000 BTU/h



> **Steam/Hot Water Unit Heaters**

Airedale steam/hot water unit heaters are ideal for institutional, commercial, and industrial applications. Available for horizontal, vertical, or high velocity horizontal air delivery, the units install quickly, easily and at low cost because they are lightweight, yet ruggedly constructed to handle rigorous conditions.

Coil tubes are copper with optional fin spacing available for low outlet temperatures. For environments with high steam pressure up to 250 psig or water temperatures up to 400°F, cupro-nickel coil tubes are available.

Standard units include a totally-enclosed motor with thermal overload protection paired with a carefully selected fan and venturi fan-shroud to reduce noise levels to a satisfactory minimum. A number of adjustable air-deflector blades or assemblies are available to permit maximum air direction control. Casing parts are coated with an attractive and durable gray-green, baked-on, polyester powder coat paint finish.

www.airedaleusa.com

Horizontal Air Delivery Models WTC and WSC



Model WSC



Model WTC

Standard Features

- > Squared corners for a clean, smooth appearance.
- > WTC models have malleable iron top and bottom supply and return connections.
- > WSC models have cast bronze side supply and return connections for low clearance applications.
- > A two piece casing for quick access to coil.
- > An electrical junction box for easy electrical connections.
- > Durable gray-green, baked-on, polyester powder coat paint finish.
- > Totally enclosed motors with thermal overload protection.
- > Low outlet temperature models for higher steam pressures or dirty atmospheres.
- > Listed by the Canadian Standards Association and CRN registered heat exchanger.



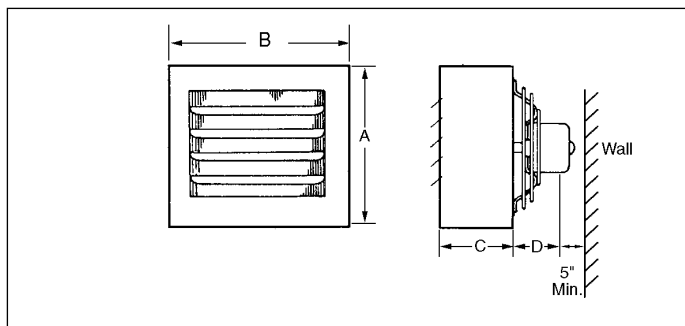
Performance Data - Steam and Hot Water

Model Number	▲ Motor HP	Standard Models							Low-Outlet Temperature Models						
		Steam (2# Steam, 60°F Ent. Air)		Hot Water (200°F In, 180°F Out, 60°F Ent. Air)			Max. Mtg. Height (Ft)	Heat Throw @ Max. Mtg. Height (Ft)	Steam (2# Steam, 60°F Entering Air)						
		Btu/Hr	Final Air Temp. (°F)	Btu/Hr	Water Flow (GPM)	Final Air Temp. (°F)			CFM	Model Number	Btu/Hr	CFM	Final Air Temp. (°F)	Max. Mtg. Height (Ft)	Heat Throw @ Max. Mtg. Height (Ft)
WTC/WSC 18	1/60	18,000	107	12,600	1.3	93	340	8	17	WTC/WSC 18L	15,900	364	100	9	20
WTC/WSC 24	1/25	24,000	119	16,200	1.7	100	370	9	18	WTC/WSC 24L	19,300	435	100	11	21
WTC/WSC 33	1/25	33,000	108	21,700	2.3	91	630	10	21	WTC/WSC 33L	29,500	695	99	12	24
WTC/WSC 47	1/12	47,000	119	30,900	3.2	98	730	12	28	WTC/WSC 47L	32,000	855	94	14	32
WTC/WSC 63	1/12	63,000	111	45,600	4.7	97	1120	14	29	WTC/WSC 63L	52,500	1170	101	16	33
WTC/WSC 86	1/8	86,000	118	60,200	6.3	101	1340	15	31	WTC/WSC 86L	61,500	1510	97	17	36
WTC/WSC 108	1/8	108,000	109	83,700	8.7	98	2010	17	31	WTC/WSC 108L	86,500	2150	97	19	36
WTC/WSC 121	1/5	121,000	122	93,000	9.7	107	1775	16	25	WTC/WSC 121L	88,000	2070	98	18	29
WTC/WSC 165	1/3	165,000	106	130,900	13.6	96	3240	19	40	WTC/WSC 165L	143,000	3480	97	21	45
WTC/WSC 193	1/3	193,000	121	143,000	14.9	105	2900	18	38	—	—	—	—	—	
WTC/WSC 258	1/2	258,000	111	201,900	21	100	4560	19	44	WTC/WSC 258L	190,000	4655	98	22	51
WTC/WSC 290	1/2	290,000	117	228,600	23.8	105	4590	20	46	WTC/WSC 290L	207,000	5040	94	23	53
WTC/WSC 340	1/2	340,000	120	271,100	28.2	108	5130	20	46	WTC/WSC 340L	255,000	5575	102	23	53

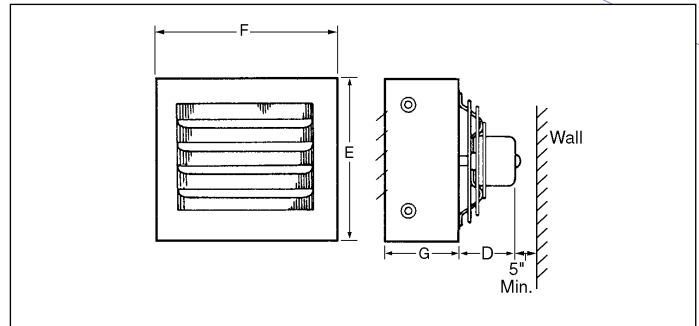
▲ Applies to most popular motor.

Dimensions (Inches)

Model WTC



Model WSC



Model Number	A	B	C	D ▲	E	F	G
WTC/WSC 18 & 20	12-3/8	13	6	5	11-1/2	13	6
WTC/WSC 33 & 47	16-3/8	17-1/2	8-3/4	6	15	17-1/2	8-3/4
WTC/WSC 63 & 86	20-7/16	21-1/2	8-3/4	7-3/4	18-1/2	21-1/2	8-3/4
WTC/WSC 108 & 121	24-7/16	25-1/2	9-1/2	6-3/4	22-1/2	25-1/2	9-1/2
WTC/WSC 165 & 193	30-1/2	30-1/2	9-1/4	8-1/2	26-1/2 / 30-1/2	29-1/2 / 32-1/2	9-1/4
WTC/WSC 258 & 298	38-1/2	38-1/2	12-1/2	10	38-1/2	38-1/2	12-1/2
WTC/WSC 340	38-1/2	44-1/2	12-1/2	10	38-1/2	44-1/2	12-1/2

Vertical Air Delivery Models WVC and WVN



Model WVC and WVN

Standard Features

- > WVC models have copper tubes, WVN models have copper/nickel tubes.
- > All units provided with outlet fan guard.
- > Motor cooling cone shields motor from heat for longer life.
- > Optional air deflectors, Cone Jet, Truncone and Louvers for a variety of heat throw patterns.
- > An electrical junction box for easy electrical connections.
- > Durable gray-green, baked-on, polyester powder coat paint finish.
- > All units are listed by the Canadian Standards Association and CRN registered heat exchanger.



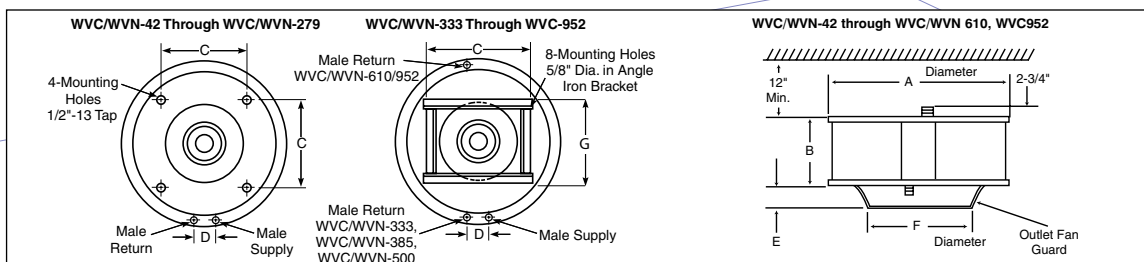
Performance Data - Steam and Hot Water

Model Number	▲ Motor HP	Standard Models						Low-Outlet Temperature Models							
		Steam (2# Steam, 60°F Ent. Air)		Hot Water (200°F In, 180°F Out, 60°F Ent. Air)		CFM	*Max. Mtg. Height (Ft)	*Heat Spread @ Max. Mtg. Height (Ft)	Steam (2# Steam, 60°F Entering Air)						
		Btu/Hr	Final Air Temp. (°F)	Btu/Hr	Water Flow (GPM)				Final Air Temp. (°F)	Model Number	Btu/Hr	CFM	Final Air Temp. (°F)	*Max. Mtg. Height (Ft)	*Heat Spread @ Max. Mtg. Height (Ft)
WVC/WVN 42	1/30	42,000	103	30,100	3.1	90	950	15	11	WVC/WVN 42L	33,000	960	94	17	13
WVC/WVN 59	1/30	59,000	111	42,600	4.4	96	1155	19	14	WVC/WVN 59L	44,000	1190	96	22	16
WVC/WVN 78	1/15	78,000	109	57,000	5.9	95	1590	20	15	WVC/WVN 78L	62,000	1740	95	26	19
WVC/WVN 95	1/15	95,000	118	69,300	7.2	101	1665	20	15	WVC/WVN 95L	71,000	1760	99	26	19
WVC/WVN 139	1/5	139,000	112	106,600	11.1	99	2660	24	18	WVC/WVN139L	103,000	2860	95	31	23
WVC/WVN 161	1/3	161,000	115	123,200	12.8	101	2945	27	20	WVC/WVN 161L	127,000	3400	96	35	26
WVC/WVN 193	1/3	193,000	116	147,200	15.3	101	3500	30	22	WVC/WVN 193L	149,000	3710	99	36	27
WVC/WVN 212	1/3	212,000	120	161,700	16.8	104	3610	30	22	WVC/WVN 212L	163,000	3830	102	36	27
WVC/WVN 247	1/2	247,000	111	188,700	19.7	98	4820	34	26	WVC/WVN 247L	190,000	5110	96	42	32
WVC/WVN 279	1/2	279,000	111	212,600	22.2	98	5460	37	30	WVC/WVN 279L	215,000	5790	96	45	36
WVC/WVN 333	3/4	333,000	116	260,100	27.1	102	5980	37	30	WVC/WVN 333L	256,000	6340	100	45	36
WVC/WVN 385	1	385,000	110	302,100	31.5	98	7680	36	30	WVC/WVN 385L	296,000	8140	95	43	36
WVC/WVN 500	1-1/2	500,000	108	391,700	40.8	96	10,390	44	37	WVC/WVN 500L	385,000	11,000	94	54	45
WVC/WVN 610	1-1/2	610,000	112	450,400	46.9	97	11,750	43	36	WVC/WVN 610L	470,000	12,400	97	52	44
WVC 952	2	952,000	139	721,600	75.2	120	12,170	45	56	WVC 952L	733,300	12,940	115	61	68

▲ Applies to most popular motor.

*Vertical types equipped with cone jet deflector.

Dimensions (Inches)



① Model Number	A	B	C	D	E	F	G	Fan Dia.	Male Conn. NPT		Approx. Shipping Wt. Lbs.
									Top	Bottom	
WVC/WVN-42 (L)	24-3/4	3-5/8	11-3/8	2-1/8	4-3/8	14-1/2	-	14	1-1/4	1-1/4	36
WVC/WVN-59 (L)	24-3/4	5-1/8	11-3/8	2-1/8	4-3/8	14-1/2	-	14	1-1/4	1-1/4	42
WVC/WVN-78 (L)	24-3/4	6-5/8	11-3/8	2-1/8	2-5/8	16-1/2	-	16	1-1/4	1-1/4	46
WVC/WVN-95 (L)	24-3/4	8-1/8	11-3/8	2-1/8	2-5/8	16-1/2	-	16	1-1/4	1-1/4	48
WVC/WVN-139 (L)	34-3/4	6-7/8	18-3/8	2-1/8	3	19-1/2	-	19	1-1/2	1	70
WVC/WVN-161 (L)	34-3/4	8-3/8	18-3/8	2-1/8	3	19-1/2	-	19	1-1/2	1	80
WVC/WVN-193 (L)	34-3/4	9-7/8	18-3/8	2-1/8	3	19-1/2	-	19	1-1/2	1	86
WVC/WVN-212 (L)	34-3/4	12-7/8	18-3/8	2-1/2	3	19-1/2	-	19	2	1-1/4	94
WVC/WVN-247 (L)	34-3/4	12-7/8	18-3/8	2-1/2	3	21-1/2	-	21	2	1-1/4	108
WVC/WVN-279 (L)	34-3/4	14-3/4	18-3/8	2-1/2	3	21-1/2	-	21	2	1-1/4	112
WVC/WVN-333 (L)	43-1/4	14-1/2	24	2-7/8	3-1/8	22-1/2	18-1/5	22	2-1/2	1-1/2	166
WVC/WVN-385 (L)	43-1/4	14-1/2	24	2-7/8	3-1/2	27-1/2	18-1/5	27	2-1/2	1-1/2	168
WVC/WVN-500 (L)	43-1/4	19	24	2-7/8	3-1/2	27-1/2	18-1/5	27	2-1/2	1-1/2	360
WVC/WVN-610 (L)	51-1/2	19-1/8	24	—	3-3/4	30-1/2	31-3/8	30	2-1/2	1-1/2	450
WVC-952 (L)	53-3/4	21-1/4	30	—	3-1/2	31	30	30	3	3	487

① Suffix "L" indicates low outlet temperature model, WVC model has copper tubes, WVN model has cupro/nickel tubes.

High Velocity Horizontal Air Delivery Models WPC and WPN



Model WPC and WPN

Standard Features

- > WPC models have copper tubes, WPN models have copper/nickel tubes.
- > High capacity models with powerful, high velocity air delivery.
- > All units provided with horizontal air deflector blades.
- > Ideal for blanketing large frequently opened doors with heated air.
- > Distributes heat over a wide area — can often replace several smaller units.
- > An electrical junction box for easy electrical connections.
- > Durable grey-green, baked on, polyester powder coat paint finish.
- > All units are listed by the Canadian Standards Association and CRN registered heat exchanger.



Performance Data - Steam and Hot Water

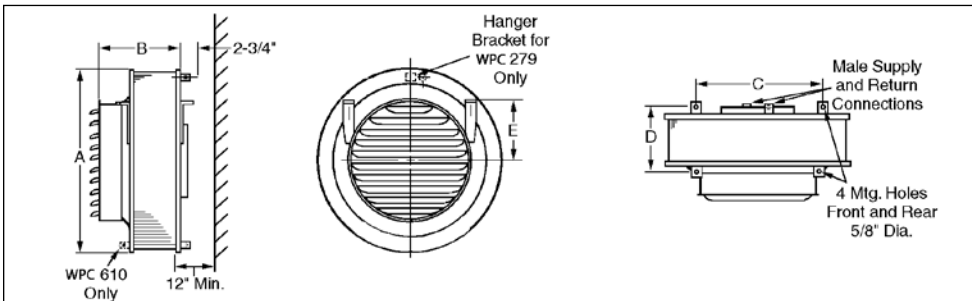
Model Number	▲ Motor HP	Standard Models								Low-Outlet Temperature Models					
		Steam (2# Steam, 60°F Ent. Air)		Hot Water (200°F In, 180°F Out, 60°F Ent. Air)			CFM	Max. Mtg. Height (Ft)	Heat Throw @ Max. Mtg. Height (Ft)	Steam (2# Steam, 60°F Entering Air)					
		Btu/Hr	Final Air Temp. (°F)	Btu/Hr	Water Flow (GPM)	Final Air Temp. (°F)				Model Number	Btu/Hr	CFM	Final Air Temp. (°F)	Max. Mtg. Height (Ft)	Heat Throw @ Max. Mtg. Height (Ft)
WPC/WPN 279	1/2	279,000	111	192,300	20.0	94	5460	16	100	—	—	—	—	—	
WPC/WPN 333	3/4	333,000	116	238,500	24.8	99	5980	17	108	—	—	—	—	—	
WPC/WPN 385	1	385,000	110	276,100	28.8	95	7680	17	115	—	—	—	—	—	
WPC/WPN 500	1-1/2	500,000	108	358,000	37.3	93	10,390	18	128	—	—	—	—	—	
WPC/WPN 610	1-1/2	610,000	112	450,400	46.9	97	11,750	20	140	WPC/WPN 610L	470,000	12400	97	22	154
WPC 952	2	952,000	139	721,600	75.2	120	12,170	21	145	—	—	—	—	—	

▲ Applies to most popular motor.

Dimensions (Inches)

① Model Number	A	B	C	D	E	Fan Diameter	Male Conn. NWPC		Approx. Shipping Wt. (Lb.)
							Top	Bottom	
WPC/WPN 279	34-3/4	22-5/8	25-1/4	16-3/4	16-3/4	21	2	1-1/4	122
WPC/WPN 333	43-1/4	23-7/8	30	15-3/4	14-3/8	22	2-1/2	1-1/2	176
WPC/WPN 385	43-1/4	25-3/4	30	15-3/4	14-3/8	27	2-1/2	1-1/2	184
WPC/WPN 500	43-1/4	29	30	20-1/4	14-3/8	27	2-1/2	1-1/2	376
WPC/WPN 610(L)	51-1/2	29-5/8	30	20-3/8	21	30	2-1/2	1-1/2	472
WPC 952	53-3/4	29-5/8	30	23-1/8	26-7/8	30	3	3	487

① Dimensions shown are for Standard and Low Outlet Temperature models. Suffix "L" indicates low outlet temperature model only. WPC model has copper tubes, WPN models have cupro/nickel tubes.



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