HIGH STATIC FAN COIL UNITS

Standard Chilled Water Applications

TECHNICAL CATALOGUE (DUCTED TYPE)
SCA-WG SERIES

COOLING CAPACITY RANGE:
11,533 TO 64,828 BTU/HR (4ROWS)

GIBCA GROUP

CLASSIFIED INSULATION & FILTER MEDIA

CONTENTS

General Specifications of cool wave HIGH STATIC Chilled Water Fan Coil Units

Structure: Made from 0.8 mm thick (22gauge) galvanized (G90) steel sheet. All parts in direct contact with the air conditioned air are insulated thermally and acoustically with 6 mm thick closed cell foam insulation.

The insulation is UL listed.

Optionally the panels can be polyester powder coated to RAL 9002(min 75 micron).

Drain pan: Made from 0.8 mm thick galvanized (G90) steel sheet, polyester powder coated for corrosion resistance as standard. Stainless steel drain pan can be provided as an option. Drain connection is ¾"steel pipe without thread for all units. Drain pipe exists on left and right side of the unit plugged with rubber cup. GI Extended drain pan can be provided as an option and is insulated with 6mm closed cell foam insulation covered with aluminum foil for protection.

Heat Exchanger: Made from 3/8" plain copper tubes, mechanically expanded into saw type aluminium fins. Heat Exchangers are specifically designed for STANDARD chilled water applications(7C WATER IN-12C WATER OUT) . Heat Exchangers are leak tested at 450 psi and maximum working pressure should be 250psi. Heat Exchangers are provided with manual air vent. Headers are made from copper with brass MPT for water connection.

Water connections can be left (left coil) or right (right coil) of the unit looking at the air outlet.

Fan: Fans are double inlet double width (DIDW), centrifugal type, forward curved, statically and dynamically balanced, horizontally oriented with galvanized steel impeller in galvanized steel casing.

Fan Motor: Motors are of PSC type, with built-in thermal overload cut out and permanently sealed and lubricated ball bearings. Motors are provided with 5-speeds. Factory pre-selected and pre-wired to the terminal block are 3 speeds for high, medium and low. The selection must not be changed without consulting the factory and considering the actual operating ESP. The insulation class is B and IP23.

Air Filter: The filters are factory installed aluminum type, 12.5 mm thick, permanent and washable. There is a flange built in the fan coil in case the air return need to be ducted. The filter media is UL listed.

The Units are constructed with special design for low height application above the false ceiling . Units are with Ceiling anchoring slots for easy fixing and leveling of the unit.

The bottom panel at the fan deck side can be removed for easy access and maintenance, while the fan deck can be easily removed from the unit for repair or maintenance.

Performance data are based on actual working conditions considering the extra pressure drop from the wet coil.

TECHNICAL DATA

NOMINAL VALUES

SYSTEM CURVE		ESP-50 Pa at Medium Speed					
AIR INLET (DBT/WBT)		(27.0°C/19.0°C) (80.6°F/66.2°F)					
WATER INLET/OUTLET		(7°C / 12°C) (44.6°F/53.6°F)					
UNIT MODEL			SCA 09 WG-4R	SCA 012 WG-4R	SCA 15 WG-4R	SCA 018 WG-4R	SCA 024 WG-4R
AIR FLOW	HIGH	m^3/h	519	611	883	1317	1458
		cfm	*305*	*359*	*519*	*775*	*858*
	MEDIUM	m^3/h	451	531	777	1216	1346
		cfm	*265*	*312*	*457*	*715*	*792*
	LOW	m^3/h	406	478	671	1064	1178
		cfm	*239*	*281*	*395*	*626*	*693*
TOTAL CAPACITY	HIGH	kw	3.38	4.13	5.68	7.93	9.1
		btu/h	*11533*	*14092*	*19380*	*27057*	*31049*
	MEDIUM	kw	3.03	3.7	5.16	7.5	8.59
		btu/h	*10338*	*12624*	*17606*	*25590*	*29309*
	LOW	kw	2.78	3.41	4.6	6.81	7.79
		btu/h	*9485*	*11635*	*15695*	*23236*	*26579*
SENSIBLE CAPACITY	HIGH	kw	2.5	3	4	5.8	6.6
		btu/h	*8530*	*10236*	*13648*	*19790*	*22519*
	MEDIUM	kw	2.2	2.6	3.7	5.4	6.2
		btu/h	*7506*	*8871*	*12624*	*18425*	*21154*
	LOW	kw	2	2.4	3.3	4.9	5.6
		btu/h	*6824*	*8189*	*11260*	*16719*	*19107*
WATER PRESSURE DROP	HIGH	kpa	12.7	20.2	20	36.5	31.3
		ft.w.g	*4*	*7*	*7*	*12*	*10*
	MEDIUM	kpa	10.5	16.7	16.9	33	28.34
		ft.w.g	*4*	*6*	*6*	*11*	*9*
	LOW	kpa	9.1	14.5	13.8	27.9	23.83
		ft.w.g	*3*	*5*	*5*	*9*	*8*
COIL DATA	TUBE SIZE	Inch/mm	COPPER (3/8") / (9.53) OD				
	FIN MATERIAL		ALUMINIUM				
	LENGTH	mm	550	650	650	900	900
	HEIGHT	mm	200	200	250	200	250
	ROWS / FPI	No.	4/11	4/11	4/11	4/11	4/11
FAN	TYPE		FORWARD CURVED CENTRIFUGAL				
	SIZE (DIA x W)	mm	160X200	180X200	180X200	160X200	180X200
	QTY	No.	1	1	1	2	2
FAN MOTOR	TYPE/IP/CLASS		PSC / IP23 / B				
	POWER SUP.	V/PH/HZ	220-240 / 1 / 50				
	RPM	H / M / L	1150/1000/900	1150/1000/900	1250/1100/950	1300/1200/1050	1300/1200/1050
CAPACITOR		µf	3	3	5	5	7.5
MAX POWER INPUT		watt	115	160	196	249	350
F L A		Amps	0.55	0.75	0.9	1.16	1.6
SHAFT POWER	HIGH	watt	33	61	88	115	179
	MEDIUM		22	40	60	90	141
	LOW		16	29	39	61	94
INPUT POWER	HIGH	watt	72	122	163	217	320
	MEDIUM		53	88	122	187	277
	LOW		42	70	87	138	201
NET DIMENSIONS	LENGTH	mm	750	850	850	1100	1100
	WIDTH		600	600	600	600	600
	HEIGHT		300	300	300	300	300
SHIPPING DIMENSIONS	LENGTH	mm	910	1010	1010	1260	1260
	WIDTH		700	700	700	700	700
	HEIGHT		350	350	350	350	350
WEIGHT	Net/Shipping	kgr	30/33	35/38	38/41	43/47	48/52
CONNECTIONS		WATER	3/4" MPT BRASS				
		DRAIN	3/4" GI				
AIR FILTER		TYPE	1" THICK, PERMANENTLY WASHABLE ALUMINIUM MEDIA				

NOTE: DUE TO OUR CONTINUOUS IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TECHNICAL DATA

NOMINAL VALUES

SYSTEM CURVE		ESP-50 Pa at Medium Speed				
AIR INLET (DBT/WBT)		(27.0°C/19.0°C) (80.6°F/66.2°F)				
WATER INLET/OUTLET		(7°C / 12°C) (44.6°F/53.6°F)				
UNIT MODEL			SCA 030 WG-4R	SCA 036 WG-4R	SCA 048 WG-4R	SCA 060 WG-4R
AIR FLOW	HIGH	m^3/h	1845	2152	2933	3238
		cfm	*1085*	*1266*	*1725*	*1905*
	MEDIUM	m^3/h	1614	1986	2707	2998
		cfm	*949*	*1168*	*1592*	*1764*
	LOW	m^3/h	1430	1738	2369	2638
		cfm	*841*	*1022*	*1394*	*1552*
TOTAL CAPACITY	HIGH	kw	11.29	12.73	17.06	19
		btu/h	*38521*	*43435*	*58209*	*64828*
	MEDIUM	kw	10.27	12.04	16.14	18
		btu/h	*35041*	*41080*	*55070*	*61416*
	LOW	kw	9.4	10.95	14.7	16.5
		btu/h	*32073*	*37361*	*50156*	*56298*
SENSIBLE CAPACITY	HIGH	kw	8.2	9.3	12.5	14
		btu/h	*27978*	*31732*	*42650*	*47768*
	MEDIUM	kw	7.4	8.8	11.8	13.2
		btu/h	*25249*	*30026*	*40262*	*45038*
	LOW	kw	6.8	7.9	10.7	12
		btu/h	*23202*	*26955*	*36508*	*40944*
WATER PRESSURE DROP	HIGH	kpa	49.8	39.9	38.8	50
		ft.w.g	*17*	*13*	*13*	*17*
	MEDIUM	kpa	42.13	36.18	35.21	45.6
		ft.w.g	*14*	*12*	*12*	*15*
	LOW	kpa	36.1	30.6	29.8	39
		ft.w.g	*12*	*10*	*10*	*13*
COIL DATA	TUBE SIZE	Inch/mm	COPPER (3/8") / (9.53) OD			
	FIN MATERIAL		ALUMINIUM			
	LENGTH	mm	1000	1100	1200	1300
	HEIGHT	mm	250	250	300	300
	ROWS / FPI	No.	4/11	4/11	4/11	4/11
FAN	TYPE		FORWARD CURVED CENTRIFUGAL			
	SIZE (DIA x W)	mm	200X190-1	200X190-1	200X190-3	200X190-3
	QTY	No.	2	2	2	2
FAN MOTOR	TYPE/IP/CLASS		PSC / IP23 / B			
	POWER SUP.	V/PH/HZ	220-240 / 1 / 50			
	RPM	H / M / L	1200/1050/930	1300/1200/1050	1300/1200/1050	1350/1250/1100
CAPACITOR		µf	7.5	10	20	20
MAX POWER INPUT		watt	386	543	900	929
F L A		Amps	1.8	2.5	4.1	4.3
SHAFT POWER	HIGH	watt	205	270	455	539
	MEDIUM		137	212	358	428
	LOW		95	142	240	292
INPUT POWER	HIGH	watt	353	450	711	829
	MEDIUM		260	389	615	724
	LOW		197	284	450	539
NET DIMENSIONS	LENGTH	mm	1200	1300	1400	1500
	WIDTH		600	600	620	620
	HEIGHT		300	300	350	350
SHIPPING DIMENSIONS	LENGTH	mm	1360	1460	1560	1660
	WIDTH		700	700	720	720
	HEIGHT		350	350	400	400
WEIGHT	Net/Shipping	kgr	52/56	55/59	65/70	70/75
CONNECTIONS		WATER	3/4" MPT BRASS		1" MPT BRASS	
		DRAIN	3/4" GI			
AIR FILTER		TYPE	1" THICK, PERMANENTLY WASHABLE ALUMINIUM MEDIA			

NOTE: DUE TO OUR CONTINUOUS IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TECHNICAL DATA

SYSTEM CURVE			ESP-50 Pa at Medium Speed				
AIR INLET (DBT/WBT)			(24.4°C/17.2°C) (76°F/63°F)				
WATER INLET/OUTLET			(7°C / 12°C) (44.6°F/53.6°F)				
UNIT MODEL			SCA 09 WG-4R	SCA 012 WG-4R	SCA 015 WG-4R	SCA 018 WG-4R	SCA 024 WG-4R
AIR FLOW	HIGH	m^3/h	526	620	891	1333	1485
		cfm	*309*	*365*	*524*	*784*	*874*
	MEDIUM	m^3/h	457	539	784	1230	1371
		cfm	*269*	*317*	*461*	*724*	*806*
	LOW	m^3/h	412	485	677	1077	1199
		cfm	*242*	*285*	*398*	*634*	*705*
TOTAL CAPACITY	HIGH	kw	2.5	3.13	4.25	6	6.92
		btu/h	*8530*	*10680*	*14501*	*20472*	*23611*
	MEDIUM	kw	2.23	2.81	3.86	5.68	6.54
		btu/h	*7609*	*9588*	*13170*	*19380*	*22314*
	LOW	kw	2.05	2.58	3.44	5.16	5.93
		btu/h	*6995*	*8803*	*11737*	*17606*	*20233*
SENSIBLE CAPACITY	HIGH	kw	1.98	2.5	3.4	4.8	5.5
		btu/h	*6756*	*8530*	*11601*	*16378*	*18766*
	MEDIUM	kw	1.75	2.17	3	4.5	5.2
		btu/h	*5971*	*7404*	*10236*	*15354*	*17742*
	LOW	kw	1.6	2	2.7	4.1	4.7
		btu/h	*5459*	*6824*	*9212*	*13989*	*16036*
WATER PRESSURE DROP	HIGH	kpa	7.47	12.43	12.03	22.4	19.38
		ft.w.g	*2*	*4*	*4*	*7*	*6*
	MEDIUM	kpa	6.12	10.27	10.1	20.24	17.53
		ft.w.g	*2*	*3*	*3*	*7*	*6*
	LOW	kpa	5.25	8.36	8.3	17.13	14.75
		ft.w.g	*2*	*3*	*3*	*6*	*5*
COIL DATA	TUBE SIZE	Inch/mm	COPPER (3/8") / (9.53) OD				
	FIN MATERIAL		ALUMINIUM				
	LENGTH	mm	550	650	650	900	900
	HEIGHT	mm	200	200	250	200	250
	ROWS / FPI	No.	4/11	4/11	4/11	4/11	4/11
FAN	TYPE		FORWARD CURVED CENTRIFUGAL				
	SIZE (DIA x W)	mm	160X200	180X200	180X200	160X200	180X200
	QTY	No.	1	1	1	2	2
FAN MOTOR	TYPE/IP/CLASS		PSC / IP23 / B				
	POWER SUP.	V/PH/HZ	220-240 / 1 / 50				
	RPM	H / M / L	1150/1000/900	1150/1000/900	1250/1100/950	1300/1200/1050	1300/1200/1050
CAPACITOR		µf	3	3	5	5	7.5
MAX POWER INPUT		watt	115	160	196	249	350
F L A		Amps	0.55	0.75	0.9	1.16	1.6
SHAFT POWER	HIGH	watt	34	61	88	116	180
	MEDIUM		22	40	60	91	142
	LOW		16	29	39	61	95
INPUT POWER	HIGH	watt	74	122	163	219	321
	MEDIUM		53	88	122	189	279
	LOW		42	70	87	138	204
NET DIMENSIONS	LENGTH	mm	750	850	850	1100	1100
	WIDTH		600	600	600	600	600
	HEIGHT		300	300	300	300	300
SHIPPING DIMENSIONS	LENGTH	mm	910	1010	1010	1260	1260
	WIDTH		700	700	700	700	700
	HEIGHT		350	350	350	350	350
WEIGHT	Net/Shipping	kgr	30/33	35/38	38/41	43/47	48/52
CONNECTIONS		WATER	3/4" MPT BRASS				
		DRAIN	3/4" GI				
AIR FILTER		TYPE	1" THICK, PERMANENTLY WASHABLE ALUMINIUM MEDIA				
NOTE: DUE TO OUR CONTINUOUS IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.							

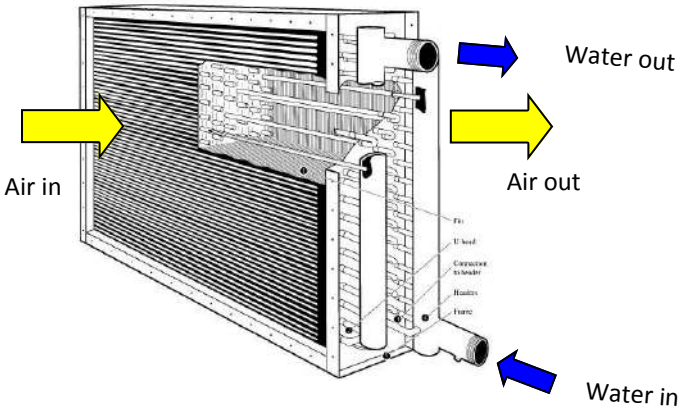
TECHNICAL DATA

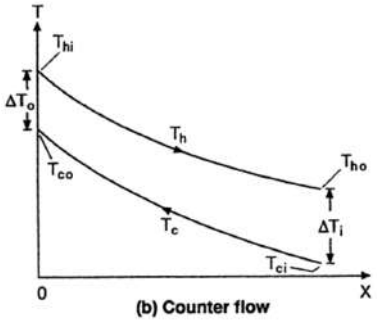
SYSTEM CURVE		ESP-50 Pa at Medium Speed				
AIR INLET (DBT/WBT)		(24.4°C/17.2°C) (76°F/63°F)				
WATER INLET/OUTLET		(7°C / 12°C) (44.6°F/53.6°F)				
UNIT MODEL			SCA 030 WG-4R	SCA 036 WG-4R	SCA 048 WG-4R	SCA 060 WG-4R
AIR FLOW	HIGH	m^3/h	1868	2254	2969	3278
		cfm	1099	1326	1746	1928
	MEDIUM	m^3/h	1635	2081	2741	3035
		cfm	962	1224	1612	1785
	LOW	m^3/h	1448	1821	2398	2671
		cfm	852	1071	1411	1571
TOTAL CAPACITY	HIGH	kw	8.6	9.86	12.88	14.43
		btu/h	29343	33642	43947	49235
	MEDIUM	kw	7.84	9.34	12.2	13.69
		btu/h	26750	31868	41626	46710
	LOW	kw	7.19	8.51	11.12	12.54
		btu/h	24532	29036	37941	42786
SENSIBLE CAPACITY	HIGH	kw	6.9	7.9	10.4	11.6
		btu/h	23543	26955	35485	39579
	MEDIUM	kw	6.2	7.5	9.8	10.96
		btu/h	21154	25590	33438	37396
	LOW	kw	5.6	6.8	8.9	9.95
		btu/h	19107	23202	30367	33949
WATER PRESSURE DROP	HIGH	kpa	30.1	25.43	23.66	30.87
		ft.w.g	10	9	8	10
	MEDIUM	kpa	26.21	23.13	21.5	28.17
		ft.w.g	9	8	7	9
	LOW	kpa	22.49	19.64	18.27	24.11
		ft.w.g	8	7	6	8
COIL DATA	TUBE SIZE	Inch/mm	COPPER (3/8") / (9.53) OD			
	FIN MATERIAL		ALUMINIUM			
	LENGTH	mm	1000	1100	1200	1300
	HEIGHT	mm	250	250	300	300
	ROWS / FPI	No.	4/11	4/11	4/11	4/11
FAN	TYPE		FORWARD CURVED CENTRIFUGAL			
	SIZE (DIA x W)	mm	200X190-1	200X190-1	200X190-3	200X190-3
	QTY	No.	2	2	2	2
FAN MOTOR	TYPE/IP/CLASS		PSC / IP23 / B			
	POWER SUP.	V/PH/HZ	220-240 / 1 / 50			
	RPM	H / M / L	1200/1050/930	1300/1200/1050	1300/1200/1050	1350/1250/1100
CAPACITOR		µf	7.5	10	20	20
MAX POWER INPUT		watt	386	543	900	929
F L A		Amps	1.8	2.5	4.1	4.3
SHAFT POWER	HIGH	watt	206	277	460	545
	MEDIUM		138	218	362	433
	LOW		96	146	242	295
INPUT POWER	HIGH	watt	355	462	719	838
	MEDIUM		262	400	622	733
	LOW		199	292	454	545
NET DIMENSIONS	LENGTH	mm	1200	1300	1400	1500
	WIDTH		600	600	620	620
	HEIGHT		300	300	350	350
SHIPPING DIMENSIONS	LENGTH	mm	1360	1460	1560	1660
	WIDTH		700	700	720	720
	HEIGHT		350	350	400	400
WEIGHT	Net/Shipping	kgr	52/56	55/59	65/70	70/75
CONNECTIONS		WATER	3/4" MPT BRASS		1" MPT BRASS	
		DRAIN	3/4" GI			
AIR FILTER		TYPE	1" THICK, PERMANENTLY WASHABLE ALUMINIUM MEDIA			
NOTE: DUE TO OUR CONTINUOUS IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.						

PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 09 WG-4R	H	519	27	47.2	6	11	641.6	11.9	89.99	3740	15.27	0.7
		519			6.5	11.5	611.1	12.4	89.34	3561	13.97	0.71
		519			7	12	579.7	13	88.62	3378	12.69	0.72
		519			7.5	12.5	547.4	13.5	87.82	3188	11.43	0.73
		519			8	13	514.1	14.1	86.92	2994	10.2	0.75
	M	451			6	11	575	11.5	90.84	3352	12.6	0.69
		451			6.5	11.5	547.7	12.1	90.19	3192	11.52	0.7
		451			7	12	519.7	12.6	89.48	3028	10.47	0.71
		451			7.5	12.5	490.9	13.2	88.69	2859	9.43	0.73
		451			8	13	461	13.8	87.79	2685	8.41	0.74
	L	406			6	11	528.6	11.3	91.41	3081	10.86	0.69
		406			6.5	11.5	503.7	11.8	90.77	2935	9.94	0.7
		406			7	12	477.9	12.4	90.06	2784	9.03	0.71
		406			7.5	12.5	451.4	13	89.27	2629	8.14	0.72
		406			8	13	423.8	13.5	88.37	2468	7.25	0.74
	H	526	24.4	49	6	11	496.3	12	88.04	2893	9.72	0.76
		526			6.5	11.5	463.3	12.6	87.09	2700	8.58	0.77
		526			7	12	429	13.2	86.01	2499	7.47	0.79
		526			7.5	12.5	392.8	13.9	84.71	2288	6.37	0.81
		526			8	13	356.3	14.5	83.32	2075	5.34	0.84
	M	457			6	11	444.2	11.7	88.79	2589	7.99	0.75
		457			6.5	11.5	414.4	12.3	87.83	2415	7.05	0.77
		457			7	12	383.2	13	86.71	2233	6.12	0.79
		457			7.5	12.5	350.1	13.6	85.35	2039	5.2	0.81
		457			8	13	315.2	14.4	83.73	1835	4.31	0.84
	L	412			6	11	408.2	11.5	89.28	2379	6.89	0.75
		412			6.5	11.5	380.5	12.2	88.31	2218	6.06	0.76
		412			7	12	351.4	12.8	87.14	2047	5.25	0.78
		412			7.5	12.5	320.2	13.5	85.71	1865	4.44	0.81
		412			8	13	287.2	14.3	84.02	1672	3.66	0.84

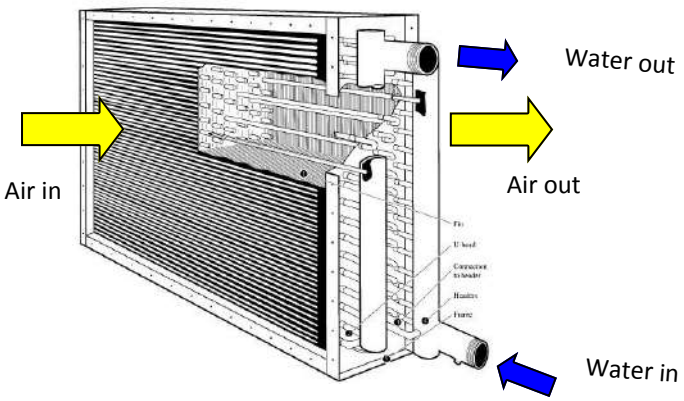


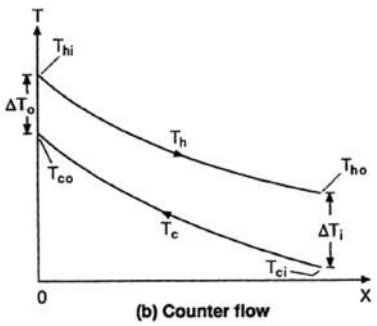


PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 012 WG-4R	H	611	27	47.2	6	11	779.8	11.5	90.87	4546	24.16	0.69
		611			6.5	11.5	744.4	12	90.28	4338	22.19	0.7
		611			7	12	708.1	12.6	89.63	4125	20.24	0.71
		611			7.5	12.5	670.9	13.1	88.93	3908	18.34	0.72
		611			8	13	632.7	13.6	88.15	3684	16.49	0.74
	M	531			6	11	699	11.1	91.71	4075	19.92	0.69
		531			6.5	11.5	667.6	11.7	91.14	3890	18.31	0.7
		531			7	12	635.3	12.2	90.52	3702	16.73	0.71
		531			7.5	12.5	602.1	12.7	89.82	3507	15.16	0.72
		531			8	13	568	13.3	89.05	3308	13.63	0.73
	L	478			6	11	642.9	10.9	92.29	3748	17.2	0.69
		478			6.5	11.5	614.1	11.4	91.74	3579	15.8	0.69
		478			7	12	584.6	11.9	91.12	3406	14.44	0.7
		478			7.5	12.5	554.3	12.5	90.44	3229	13.11	0.72
		478			8	13	522.9	13	89.67	3045	11.78	0.73
	H	620	24.4	49	6	11	613.2	11.6	89.24	3574	15.82	0.75
		620			6.5	11.5	575.6	12.1	88.44	3354	14.1	0.76
		620			7	12	536.8	12.7	87.52	3127	12.43	0.78
		620			7.5	12.5	496.4	13.3	86.46	2891	10.79	0.8
		620			8	13	454.2	13.9	85.21	2645	9.2	0.83
	M	539			6	11	550.1	11.2	90.05	3207	13.07	0.74
		539			6.5	11.5	516.5	11.8	89.25	3010	11.65	0.76
		539			7	12	481.7	12.4	88.33	2806	10.27	0.77
		539			7.5	12.5	445.4	13	87.26	2594	8.91	0.79
		539			8	13	407.2	13.7	85.99	2372	7.59	0.82
	L	485			6	11	505.9	11	90.6	2949	11.27	0.74
		485			6.5	11.5	475	11.6	89.81	2768	10.06	0.75
		485			7	12	442.9	12.2	88.89	2580	8.86	0.77
		485			7.5	12.5	409.3	12.8	87.81	2384	7.68	0.79
		485			8	13	373.9	13.5	86.5	2178	6.53	0.82



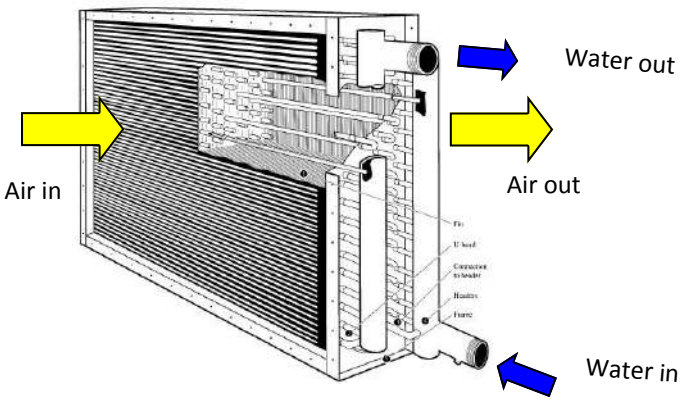


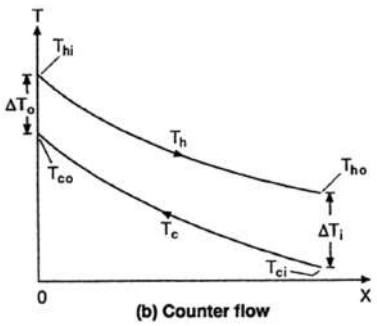
(b) Counter flow

PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 015 WG-4R	H	883	27	47.2	6	11	1075.9	12.1	89.59	6272	24.02	0.7
		883			6.5	11.5	1025.7	12.6	88.96	5977	21.99	0.71
		883			7	12	974.3	13.1	88.28	5677	20.02	0.72
		883			7.5	12.5	921.7	13.6	87.53	5369	18.1	0.73
		883			8	13	867.5	14.2	86.69	5052	16.2	0.75
	M	777			6	11	976.5	11.7	90.44	5692	20.24	0.69
		777			6.5	11.5	931.4	12.2	89.83	5428	18.57	0.7
		777			7	12	885	12.8	89.16	5156	16.9	0.71
		777			7.5	12.5	837.5	13.3	88.42	4878	15.28	0.73
		777			8	13	788.5	13.8	87.59	4592	13.69	0.74
	L	671			6	11	871.2	11.3	91.33	5078	16.55	0.69
		671			6.5	11.5	831.3	11.8	90.74	4845	15.19	0.7
		671			7	12	790.2	12.4	90.08	4604	13.84	0.71
		671			7.5	12.5	748.1	12.9	89.35	4357	12.52	0.72
		671			8	13	704.6	13.5	88.54	4104	11.24	0.74
	H	891	24.4	49	6	11	837.4	12.1	87.94	4881	15.44	0.76
		891			6.5	11.5	784.6	12.6	87.09	4572	13.72	0.77
		891			7	12	729.8	13.2	86.12	4252	12.03	0.79
		891			7.5	12.5	673.2	13.8	85	3921	10.4	0.81
		891			8	13	613.8	14.4	83.68	3574	8.81	0.84
	M	784			6	11	760.3	11.8	88.74	4432	13.02	0.75
		784			6.5	11.5	712.5	12.3	87.89	4152	11.57	0.77
		784			7	12	662.8	12.9	86.92	3861	10.15	0.78
		784			7.5	12.5	611.1	13.5	85.79	3560	8.77	0.81
		784			8	13	556.8	14.2	84.43	3243	7.42	0.83
	L	677			6	11	678.5	11.4	89.58	3955	10.66	0.75
		677			6.5	11.5	635.6	12	88.72	3704	9.47	0.76
		677			7	12	591.1	12.6	87.74	3444	8.3	0.78
		677			7.5	12.5	544.7	13.2	86.59	3173	7.16	0.8
		677			8	13	495.4	13.9	85.18	2885	6.04	0.83

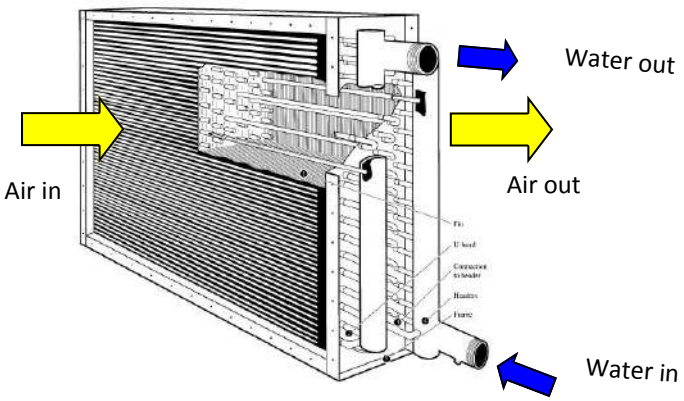


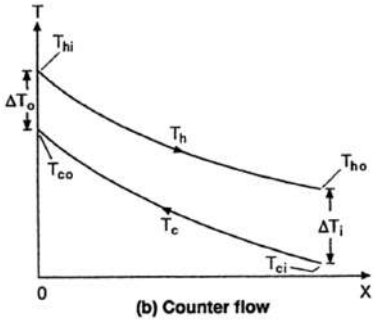


PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 018 WG-4R	H	1317	27	47.2	6	11	1503	12.9	87.78	8761	43.74	0.71
		1317			6.5	11.5	1433.1	13.3	87.16	8351	40.08	0.72
		1317			7	12	1361.6	13.8	86.48	7933	36.5	0.73
		1317			7.5	12.5	1288.5	14.3	85.75	7505	33.01	0.74
		1317			8	13	1213.5	14.8	84.94	7067	29.59	0.76
	M	1216			6	11	1420.1	12.6	88.42	8278	39.58	0.7
		1216			6.5	11.5	1354.4	13.1	87.8	7893	36.28	0.71
		1216			7	12	1287.2	13.6	87.13	7500	33.06	0.73
		1216			7.5	12.5	1218.5	14.1	86.4	7098	29.92	0.74
		1216			8	13	1148	14.6	85.6	6685	26.83	0.75
	L	1064			6	11	1288.9	12.2	89.43	7513	33.38	0.7
		1064			6.5	11.5	1229.7	12.7	88.82	7166	30.6	0.71
		1064			7	12	1169.3	13.2	88.17	6813	27.91	0.72
		1064			7.5	12.5	1107.4	13.7	87.45	6451	25.28	0.73
		1064			8	13	1044.1	14.2	86.66	6080	22.71	0.75
	H	1333	24.4	49	6	11	1177.7	12.6	86.36	6865	28.46	0.77
		1333			6.5	11.5	1104.9	13.1	85.55	6439	25.35	0.78
		1333			7	12	1030.1	13.7	84.65	6001	22.33	0.8
		1333			7.5	12.5	952.8	14.2	83.62	5550	19.39	0.82
		1333			8	13	872.9	14.8	82.44	5083	16.56	0.85
	M	1230			6	11	1113	12.4	86.97	6488	25.76	0.76
		1230			6.5	11.5	1044.5	12.9	86.16	6087	22.96	0.78
		1230			7	12	974.1	13.5	85.26	5675	20.24	0.8
		1230			7.5	12.5	901.2	14	84.23	5250	17.58	0.82
		1230			8	13	825.9	14.6	83.05	4809	15.02	0.84
	L	1077			6	11	1011.9	12.1	87.93	5899	21.8	0.76
		1077			6.5	11.5	949.9	12.6	87.13	5536	19.42	0.77
		1077			7	12	886.2	13.1	86.23	5163	17.13	0.79
		1077			7.5	12.5	820.2	13.7	85.2	4778	14.89	0.81
		1077			8	13	751.8	14.3	84.01	4378	12.73	0.83



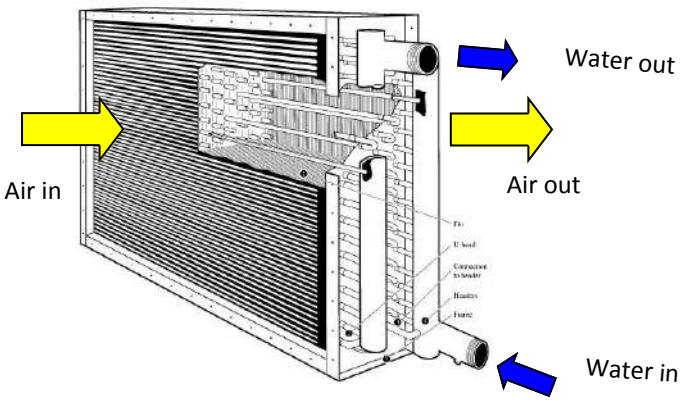


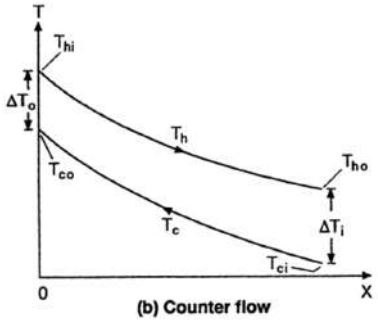
(b) Counter flow

PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 024 WG-4R	H	1458	27	47.2	6	11	1722.9	12.5	88.75	10043	37.57	0.7
		1458			6.5	11.5	1643.2	12.9	88.13	9576	34.42	0.71
		1458			7	12	1562	13.4	87.46	9100	31.37	0.72
		1458			7.5	12.5	1478.8	13.9	86.74	8614	28.4	0.74
		1458			8	13	1393.5	14.4	85.94	8115	25.48	0.75
	M	1346			6	11	1625.4	12.2	89.34	9475	33.9	0.7
		1346			6.5	11.5	1550.7	12.7	88.73	9037	31.08	0.71
		1346			7	12	1474.4	13.2	88.08	8590	28.34	0.72
		1346			7.5	12.5	1396.4	13.7	87.36	8134	25.66	0.73
		1346			8	13	1316.4	14.2	86.57	7666	23.06	0.75
	L	1178			6	11	1471.8	11.8	90.28	8579	28.45	0.7
		1178			6.5	11.5	1404.9	12.3	89.69	8188	26.13	0.7
		1178			7	12	1336.4	12.8	89.05	7786	23.83	0.72
		1178			7.5	12.5	1266.2	13.3	88.34	7376	21.6	0.73
		1178			8	13	1194.3	13.9	87.56	6955	19.42	0.74
	H	1485	24.4	49	6	11	1357.4	12.3	87.23	7912	24.67	0.76
		1485			6.5	11.5	1273.9	12.8	86.42	7424	21.98	0.78
		1485			7	12	1188.2	13.4	85.52	6923	19.38	0.79
		1485			7.5	12.5	1099.4	13.9	84.49	6404	16.84	0.82
		1485			8	13	1007.6	14.5	83.3	5868	14.39	0.84
	M	1371			6	11	1281.8	12.1	87.8	7472	22.31	0.76
		1371			6.5	11.5	1203.1	12.6	87	7011	19.88	0.77
		1371			7	12	1122.4	13.2	86.1	6539	17.53	0.79
		1371			7.5	12.5	1038.8	13.7	85.07	6051	15.24	0.81
		1371			8	13	952.1	14.3	83.88	5545	13.02	0.84
	L	1199			6	11	1161.4	11.8	88.71	6770	18.75	0.75
		1199			6.5	11.5	1090.6	12.3	87.91	6356	16.72	0.77
		1199			7	12	1017.8	12.8	87.02	5930	14.75	0.78
		1199			7.5	12.5	942.3	13.4	85.99	5489	12.83	0.8
		1199			8	13	863.9	14	84.8	5031	10.98	0.83



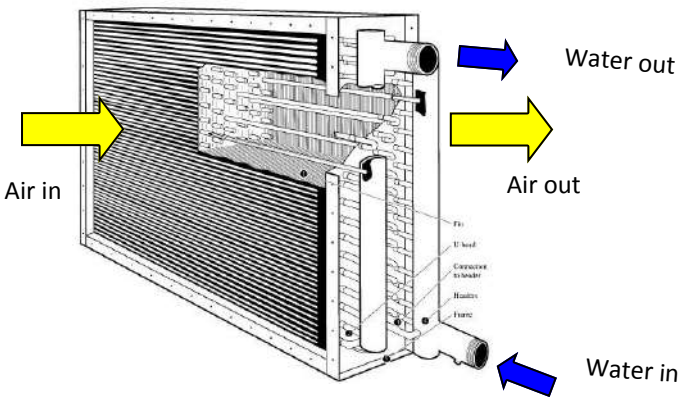


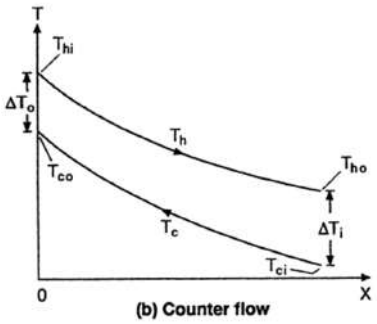
(b) Counter flow

PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 030 WG-4R	H	1845	27	47.2	6	11	2134.3	12.7	88.16	12441	59.49	0.71
		1845			6.5	11.5	2036.6	13.2	87.55	11869	54.56	0.72
		1845			7	12	1937.1	13.6	86.91	11286	49.78	0.73
		1845			7.5	12.5	1835.4	14.1	86.2	10691	45.12	0.74
		1845			8	13	1731.4	14.6	85.44	10083	40.59	0.75
	M	1614			6	11	1939.5	12.3	89.21	11305	50.26	0.7
		1614			6.5	11.5	1851.8	12.7	88.62	10792	46.17	0.71
		1614			7	12	1762.1	13.2	87.98	10266	42.13	0.72
		1614			7.5	12.5	1670.5	13.7	87.29	9730	38.22	0.73
		1614			8	13	1576.8	14.2	86.54	9182	34.41	0.75
	L	1430			6	11	1774.6	11.9	90.09	10344	42.97	0.7
		1430			6.5	11.5	1695.1	12.4	89.52	9879	39.5	0.71
		1430			7	12	1614	12.9	88.9	9403	36.11	0.72
		1430			7.5	12.5	1530.6	13.4	88.22	8916	32.76	0.73
		1430			8	13	1445.5	13.9	87.48	8418	29.52	0.74
	H	1868	24.4	49	6	11	1681.9	12.5	86.84	9804	39.1	0.76
		1868			6.5	11.5	1580.5	13	86.07	9211	34.91	0.78
		1868			7	12	1476.7	13.5	85.22	8604	30.87	0.8
		1868			7.5	12.5	1369.8	14	84.25	7979	26.94	0.82
		1868			8	13	1259.7	14.6	83.15	7336	23.17	0.84
	M	1635			6	11	1531.1	12.1	87.84	8925	33.14	0.76
		1635			6.5	11.5	1439.6	12.6	87.08	8390	29.61	0.77
		1635			7	12	1345.8	13.1	86.24	7841	26.21	0.79
		1635			7.5	12.5	1249.3	13.7	85.28	7277	22.92	0.81
		1635			8	13	1149.3	14.2	84.18	6693	19.71	0.83
	L	1448			6	11	1402.3	11.8	88.7	8174	28.38	0.75
		1448			6.5	11.5	1319.3	12.3	87.96	7689	25.4	0.77
		1448			7	12	1233.8	12.8	87.12	7188	22.49	0.78
		1448			7.5	12.5	1145.8	13.4	86.17	6674	19.68	0.8
		1448			8	13	1054.5	14	85.06	6141	16.94	0.83

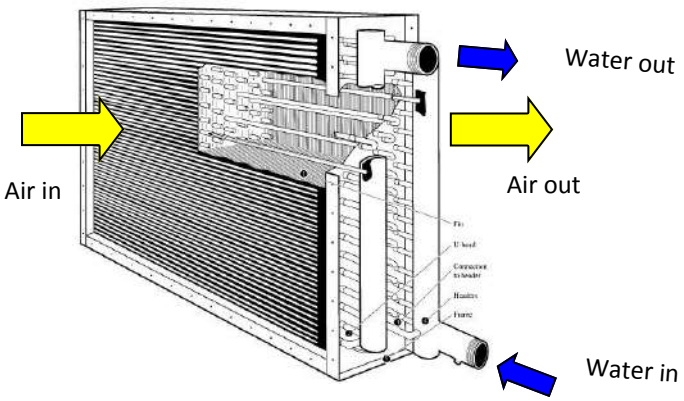


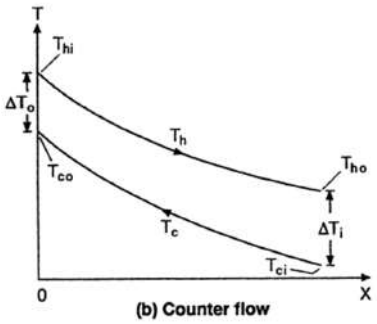


PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 036 WG-4R	H	2152	27	47.2	6	11	2411.9	13.1	87.29	14059	47.85	0.71
		2152			6.5	11.5	2299.3	13.5	86.66	13400	43.83	0.72
		2152			7	12	2184.4	14	85.98	12727	39.91	0.73
		2152			7.5	12.5	2067	14.5	85.25	12040	36.09	0.75
		2152			8	13	1946.5	15	84.44	11335	32.34	0.76
	M	1986			6	11	2279.8	12.8	87.95	13289	43.33	0.71
		1986			6.5	11.5	2174.1	13.3	87.32	12670	39.71	0.72
		1986			7	12	2066	13.7	86.65	12037	36.18	0.73
		1986			7.5	12.5	1955.6	14.2	85.93	11391	32.74	0.74
		1986			8	13	1842.3	14.7	85.12	10729	29.35	0.76
	L	1738			6	11	2072.1	12.4	88.99	12079	36.63	0.7
		1738			6.5	11.5	1976.7	12.8	88.38	11520	33.58	0.71
		1738			7	12	1879.4	13.3	87.72	10950	30.62	0.72
		1738			7.5	12.5	1779.9	13.8	87	10368	27.73	0.74
		1738			8	13	1677.9	14.3	86.21	9772	24.91	0.75
	H	2254	24.4	49	6	11	1934.8	12.9	85.63	11278	32.45	0.77
		2254			6.5	11.5	1814.9	13.4	84.83	10577	28.9	0.79
		2254			7	12	1691.6	13.9	83.92	9856	25.43	0.81
		2254			7.5	12.5	1565	14.4	82.91	9116	22.1	0.83
		2254			8	13	1434.1	15	81.74	8351	18.88	0.85
	M	2081			6	11	1831.5	12.7	86.27	10676	29.46	0.77
		2081			6.5	11.5	1718.5	13.2	85.46	10015	26.25	0.78
		2081			7	12	1602.6	13.7	84.57	9337	23.13	0.8
		2081			7.5	12.5	1482.8	14.2	83.54	8637	20.1	0.82
		2081			8	13	1359.2	14.8	82.37	7915	17.18	0.85
	L	1821			6	11	1667.6	12.3	87.27	9721	24.97	0.76
		1821			6.5	11.5	1565.5	12.8	86.48	9123	22.27	0.78
		1821			7	12	1460.6	13.3	85.58	8510	19.64	0.79
		1821			7.5	12.5	1352.1	13.9	84.56	7876	17.08	0.81
		1821			8	13	1239.8	14.5	83.39	7220	14.61	0.84

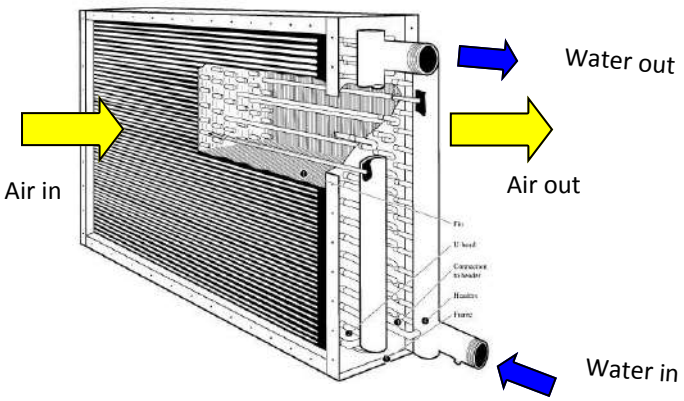


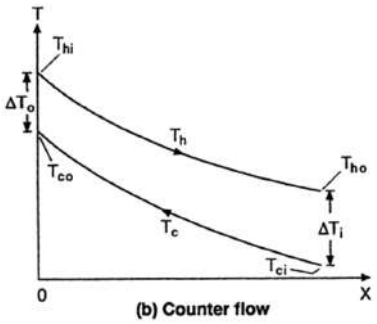


PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 048 WG-4R	H	2933	27	47.2	6	11	3235.3	13.3	86.85	18859	46.57	0.71
		2933			6.5	11.5	3083.2	13.7	86.21	17968	42.64	0.72
		2933			7	12	2928	14.2	85.52	17059	38.8	0.73
		2933			7.5	12.5	2768.9	14.7	84.78	16129	35.03	0.75
		2933			8	13	2606.7	15.1	83.96	15180	31.39	0.76
	M	2707			6	11	3060	13	87.52	17837	42.22	0.71
		2707			6.5	11.5	2917	13.4	86.89	17000	38.67	0.72
		2707			7	12	2771	13.9	86.21	16145	35.21	0.73
		2707			7.5	12.5	2621.7	14.4	85.47	15271	31.83	0.74
		2707			8	13	2468.5	14.9	84.66	14375	28.52	0.76
	L	2369			6	11	2783.3	12.5	88.58	16224	35.72	0.7
		2369			6.5	11.5	2654.5	13	87.97	15470	32.75	0.71
		2369			7	12	2522.8	13.5	87.3	14699	29.84	0.72
		2369			7.5	12.5	2388.2	14	86.57	13911	27	0.74
		2369			8	13	2249.9	14.5	85.76	13102	24.22	0.75
	H	2969	24.4	49	6	11	2531.5	13	85.47	14757	30.24	0.77
		2969			6.5	11.5	2373.7	13.5	84.65	13833	26.9	0.79
		2969			7	12	2211.3	14	83.74	12884	23.66	0.81
		2969			7.5	12.5	2044.6	14.5	82.71	11909	20.54	0.83
		2969			8	13	1872.7	15	81.54	10905	17.52	0.85
	M	2741			6	11	2396.7	12.7	86.1	13970	27.45	0.77
		2741			6.5	11.5	2247.8	13.2	85.29	13100	24.44	0.78
		2741			7	12	2094.7	13.8	84.37	12204	21.5	0.8
		2741			7.5	12.5	1937.3	14.3	83.35	11285	18.68	0.82
		2741			8	13	1774.3	14.9	82.16	10333	15.94	0.85
	L	2398			6	11	2182	12.4	87.11	12719	23.27	0.76
		2398			6.5	11.5	2047.6	12.9	86.31	11933	20.73	0.78
		2398			7	12	1909.3	13.4	85.4	11124	18.27	0.79
		2398			7.5	12.5	1766.3	14	84.37	10288	15.87	0.82
		2398			8	13	1618.2	14.5	83.17	9424	13.55	0.84

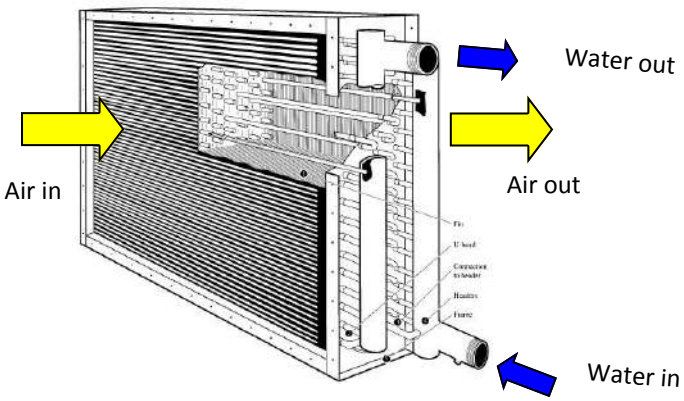


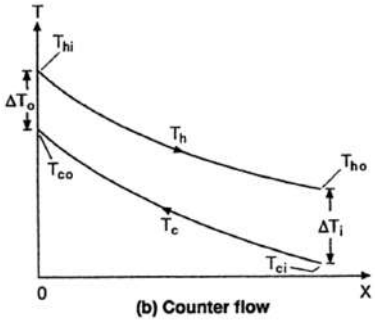


PERFORMANCE TABLES

AIR FLOW AT ESP 50 pa AT MEDIUM SPEED

	SPEED	Airflow	Air Inlet Temp. DB	Inlet Relative Humidity	Fluid Inlet Temp.	Fluid Outlet Temp.	Fluid Flow	Air Outlet Temp. DB	Outlet Relative Humidity	Total Capacity	Fluid Pres. Drop	QS/QT
		m³/h	°C	%	°C	°C	l/h	°C	%	W	kPa	
SCA 060 WG-4R	H	3238	27	47.2	6	11	3596	13.2	87.03	20962	59.96	0.71
		3238			6.5	11.5	3429.2	13.6	86.41	19985	54.97	0.72
		3238			7	12	3259.2	14.1	85.75	18989	50.09	0.73
		3238			7.5	12.5	3085.5	14.6	85.03	17972	45.34	0.75
		3238			8	13	2907.4	15	84.24	16931	40.67	0.76
	M	2998			6	11	3409.1	12.9	87.68	19872	54.59	0.71
		2998			6.5	11.5	3252.0	13.4	87.07	18951	50.06	0.72
		2998			7	12	3091.6	13.8	86.41	18012	45.64	0.73
		2998			7.5	12.5	2927.7	14.3	85.7	17054	41.33	0.74
		2998			8	13	2759.7	14.8	84.91	16071	37.10	0.76
	L	2638			6	11	3114.1	12.5	88.72	18152	46.57	0.7
		2638			6.5	11.5	2971.6	13	88.11	17318	42.71	0.71
		2638			7	12	2826.5	13.4	87.47	16468	38.97	0.72
		2638			7.5	12.5	2678	13.9	86.76	15599	35.32	0.74
		2638			8	13	2526.1	14.4	85.99	14711	31.76	0.75
	H	3278	24.4	49	6	11	2825.5	12.9	85.74	16470	39.22	0.77
		3278			6.5	11.5	2652.9	13.4	84.95	15460	34.98	0.79
		3278			7	12	2475.9	13.9	84.08	14425	30.87	0.8
		3278			7.5	12.5	2293.5	14.4	83.1	13360	26.88	0.83
		3278			8	13	2106.1	14.9	81.98	12265	23.06	0.85
	M	3035			6	11	2680.7	12.7	86.36	15626	35.75	0.77
		3035			6.5	11.5	2517.7	13.1	85.58	14672	31.9	0.78
		3035			7	12	2350.5	13.6	84.71	13695	28.17	0.8
		3035			7.5	12.5	2178.1	14.2	83.72	12687	24.54	0.82
		3035			8	13	2000.8	14.7	82.6	11652	21.06	0.85
	L	2671			6	11	2452.3	12.3	87.34	14295	30.57	0.76
		2671			6.5	11.5	2304.1	12.8	86.56	13428	27.28	0.77
		2671			7	12	2152.2	13.3	85.7	12539	24.11	0.79
		2671			7.5	12.5	1995.4	13.8	84.72	11623	21.03	0.81
		2671			8	13	1833.8	14.4	83.59	10679	18.06	0.84





AIR FLOW DATA

7 °C / 12 °C

	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
SCA 09 WG-4R	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
	27	47.2	50	519	451	406	33	22	16	72	52	41
			0	729	634	571	49	32	23	107	77	61
			25	628	546	491	43	28	21	93	68	54
	24.4	49	50	526	457	412	34	22	16	74	53	43
			0	740	643	579	49	32	23	107	77	61
			25	636	553	498	44	29	21	96	69	55
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
SCA 012 WG-4R	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
	27	47.2	50	611	531	478	61	40	29	122	88	70
			0	900	783	704	72	47	35	144	104	83
			25	779	677	610	67	44	32	134	97	77
	24.4	49	50	620	539	485	61	40	29	122	88	70
			0	910	791	712	73	48	35	146	106	84
			25	791	688	619	68	45	33	136	98	78
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
SCA 015 WG-4R	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
	27	47.2	50	883	777	671	88	60	39	163	122	86
			0	1100	968	836	101	69	44	187	140	99
			25	1000	880	760	95	65	42	176	132	93
	24.4	49	50	891	784	677	88	60	39	163	122	86
			0	1104	972	839	101	69	44	187	140	99
			25	1007	886	765	95	65	42	176	132	93
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
SCA 018 WG-4R	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
	27	47.2	50	1317	1216	1064	115	90	61	217	188	137
			0	1627	1502	1314	140	110	74	264	229	167
			25	1472	1359	1189	129	101	68	243	211	154
	24.4	49	50	1333	1230	1077	116	91	61	219	189	138
			0	1649	1522	1332	141	111	74	266	230	168
			25	1489	1374	1203	130	102	68	245	212	155

AIR FLOW DATA

7 °C / 12 °C

	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
SCA 024 WG-4R	27	47.2	50	1458	1346	1178	179	141	94	320	277	202
			0	1863	1720	1505	198	156	104	354	306	224
			25	1679	1550	1356	189	149	100	338	292	213
	24.4	49	50	1485	1371	1199	180	142	95	321	278	203
			0	1892	1746	1528	200	157	105	357	309	226
			25	1711	1579	1382	190	149	100	339	294	215
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
SCA 030 WG-4R	27	47.2	50	1845	1614	1430	205	137	95	353	260	197
			0	2159	1889	1673	223	149	104	384	283	215
			25	2013	1761	1560	214	143	100	369	272	206
	24.4	49	50	1868	1635	1448	206	138	96	355	262	198
			0	2177	1905	1687	225	151	105	388	286	217
			25	2035	1781	1577	215	144	100	371	273	207
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
SCA 036 WG-4R	27	47.2	50	2152	1986	1738	270	212	142	450	389	285
			0	2357	2176	1904	286	225	151	477	412	301
			25	2360	2178	1906	286	225	151	477	412	301
	24.4	49	50	2254	2081	1821	277	218	146	462	399	292
			0	2503	2310	2022	300	236	158	500	433	316
			25	2382	2199	1924	288	227	152	480	415	304
	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW			SHAFT POWER			INPUT POWER		
				m3/h			watt			watt		
	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
SCA 048 WG-4R	27	47.2	50	2933	2707	2369	455	358	240	711	615	450
			0	3313	3058	2676	511	402	269	798	691	505
			25	3122	2882	2522	482	379	254	753	652	476
	24.4	49	50	2969	2741	2398	460	362	242	719	622	454
			0	3352	3094	2707	517	407	272	808	699	511
			25	3160	2917	2552	487	383	257	761	658	481

AIR FLOW DATA

7 °C/12 °C

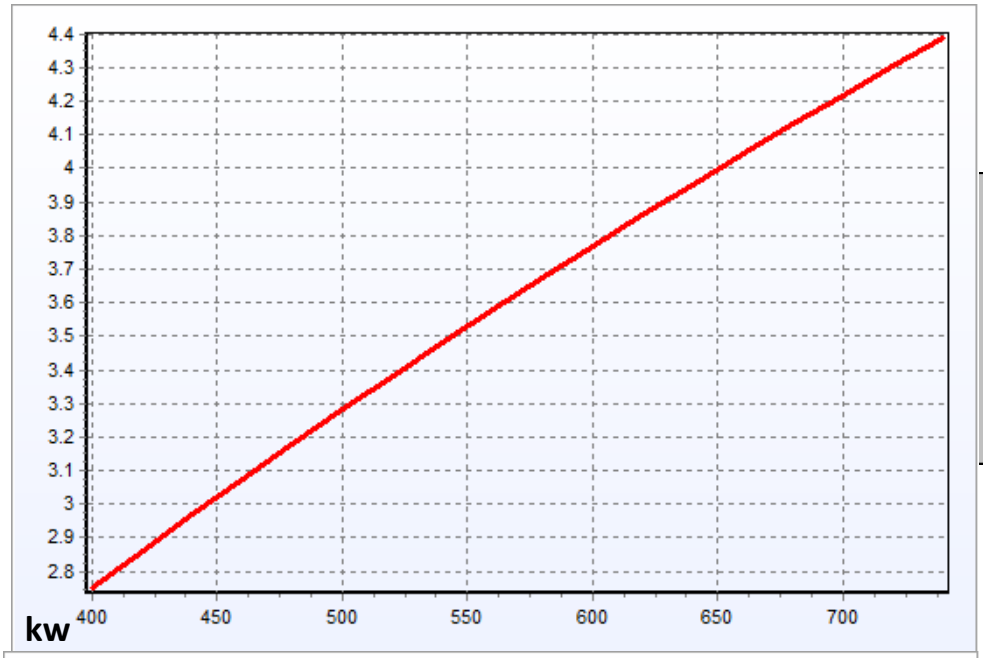
SCA 060 WG-4R	AIR ON COIL CONDITION		ESP @ MEDIUM SPEED	AIR FLOW m3/h			SHAFT POWER watt			INPUT POWER watt		
	DB (°C)	RH(%)	pa	H	M	L	H	M	L	H	M	L
	27	47.2	50	3238	2998	2638	539	428	292	829	724	538
			0	3599	3332	2933	600	476	325	923	806	599
			25	3419	3166	2786	569	452	308	875	764	568
	24.4	49	50	3278	3035	2671	545	433	295	838	732	544
			0	3642	3372	2968	607	482	328	934	815	606
			25	3461	3205	2820	576	457	312	886	774	575

CAPACITY DATA vs AIR FLOW

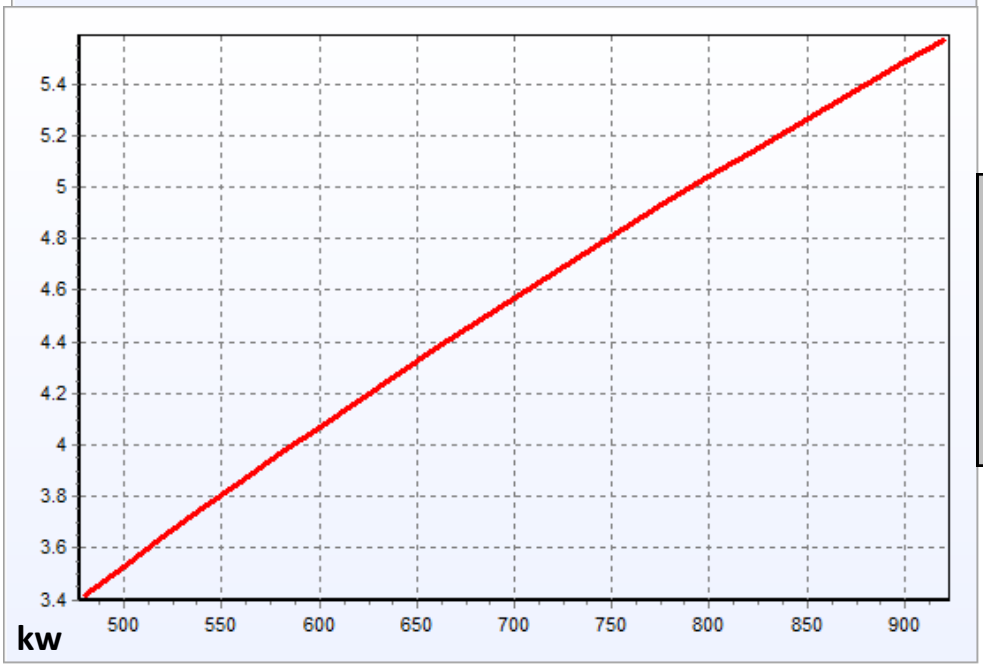
27 °C DB / 19 °C WB

7 °C/12 °C

SCA 09 WG-4R



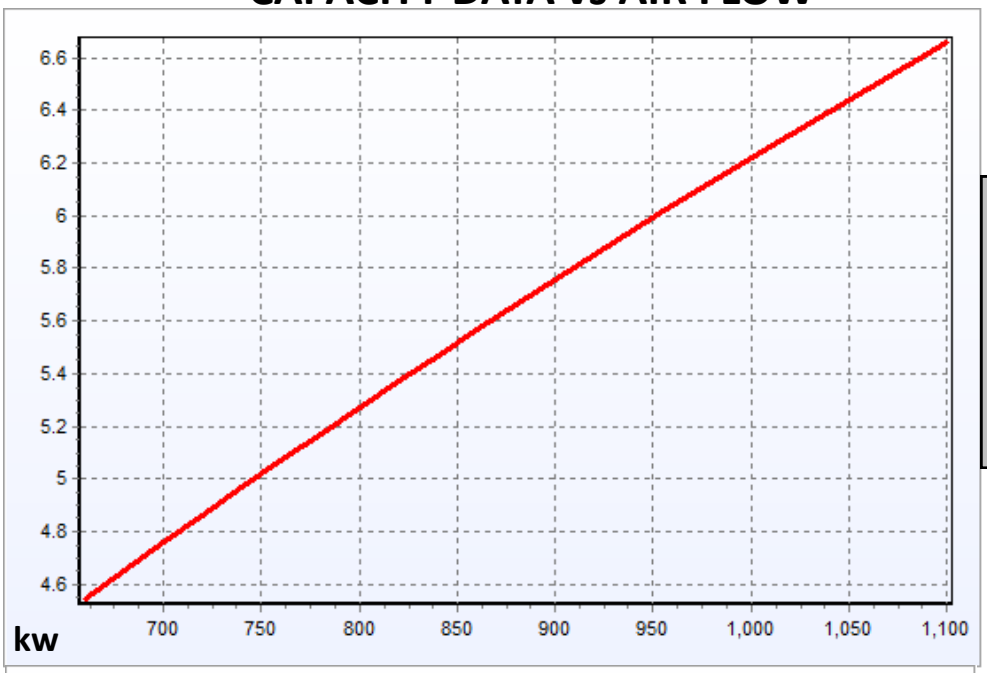
SCA 012 WG-4R



CAPACITY DATA vs AIR FLOW

27 ^{0}C DB / 19 ^{0}C WB

7 ^{0}C/12 ^{0}C



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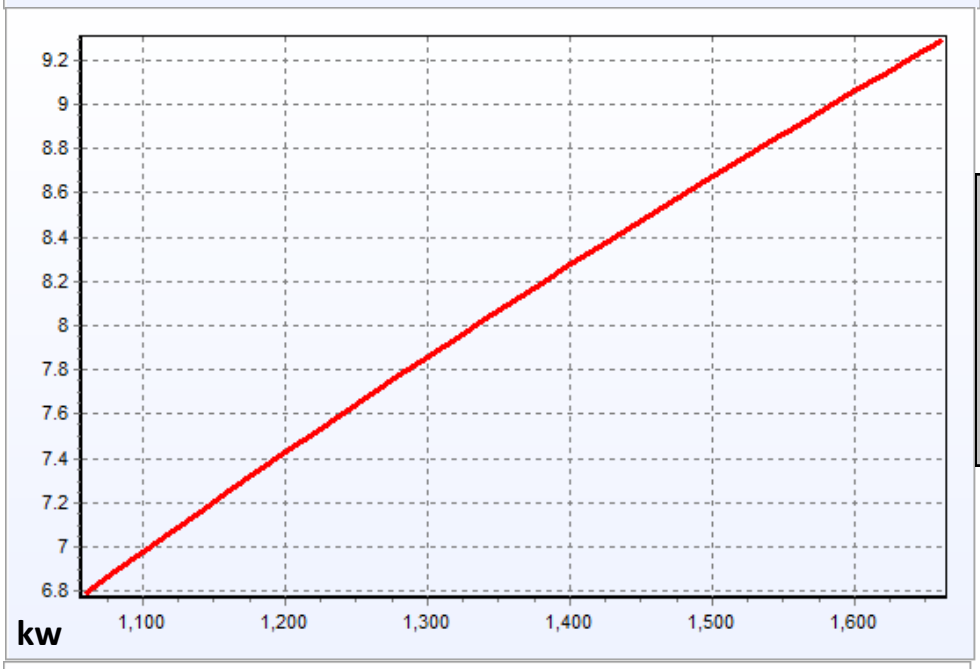

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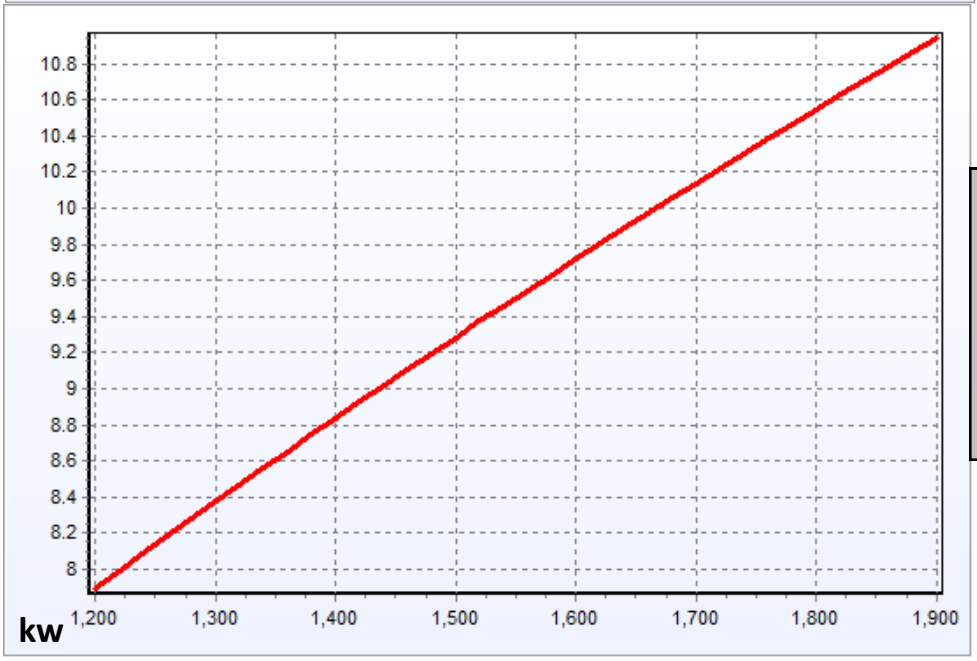
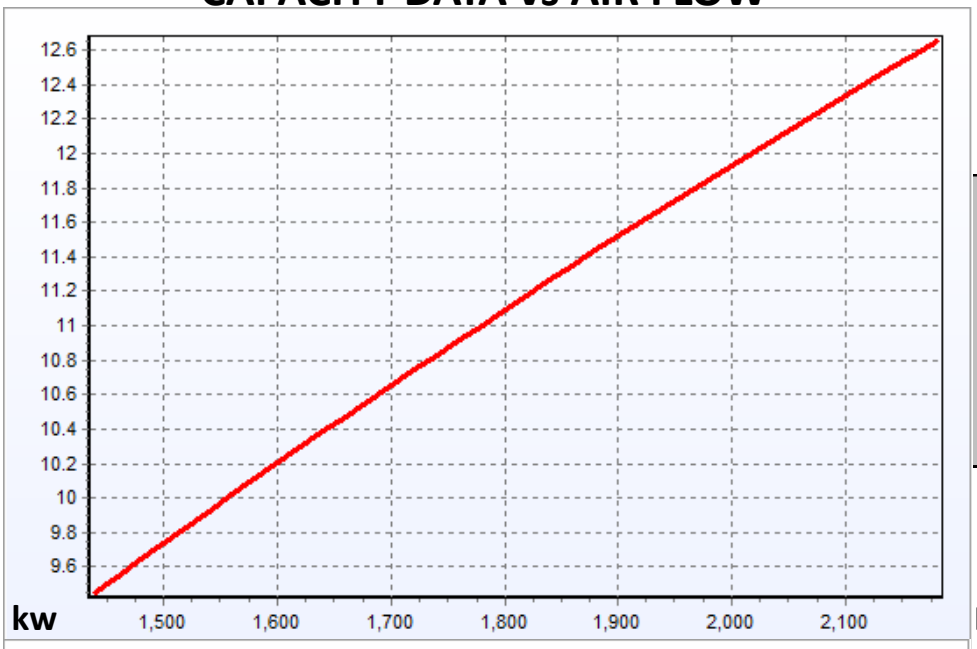


SCA 024 WG-4R

CAPACITY DATA vs AIR FLOW

27 ^{0}C DB / 19 ^{0}C WB

7 ^{0}C/12 ^{0}C



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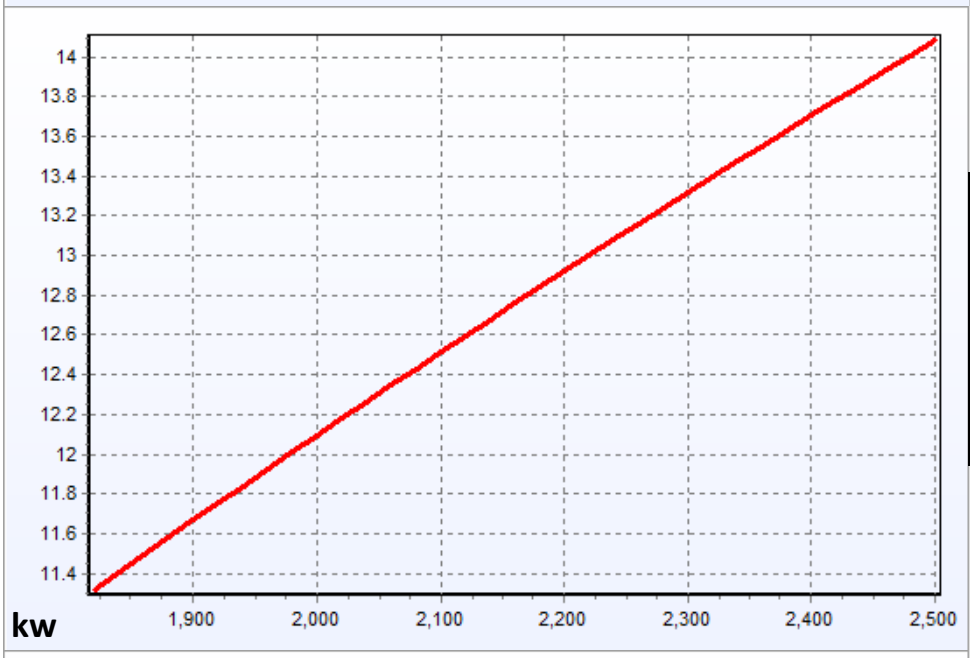
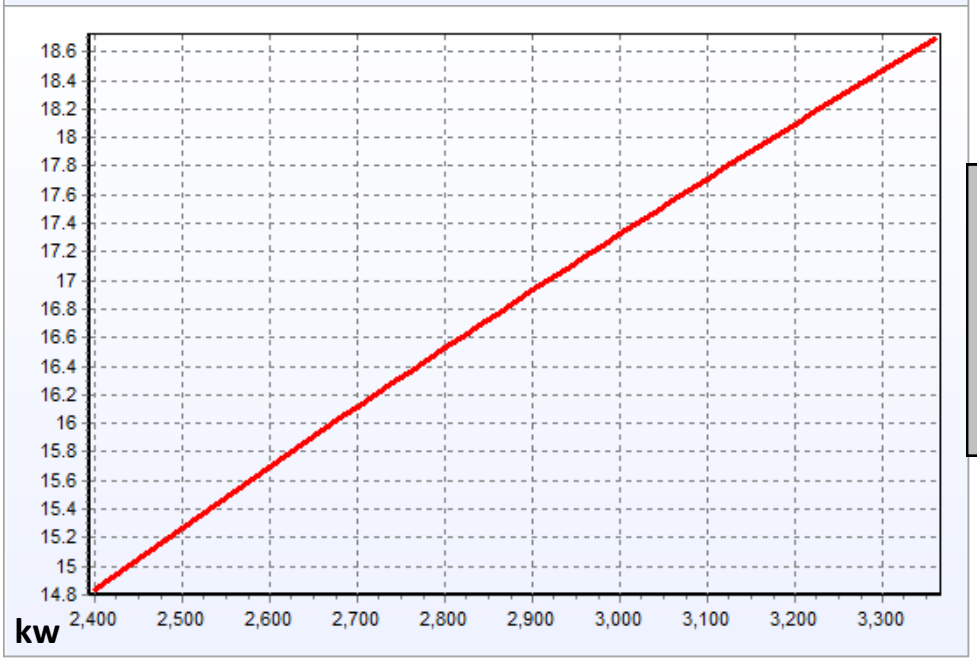
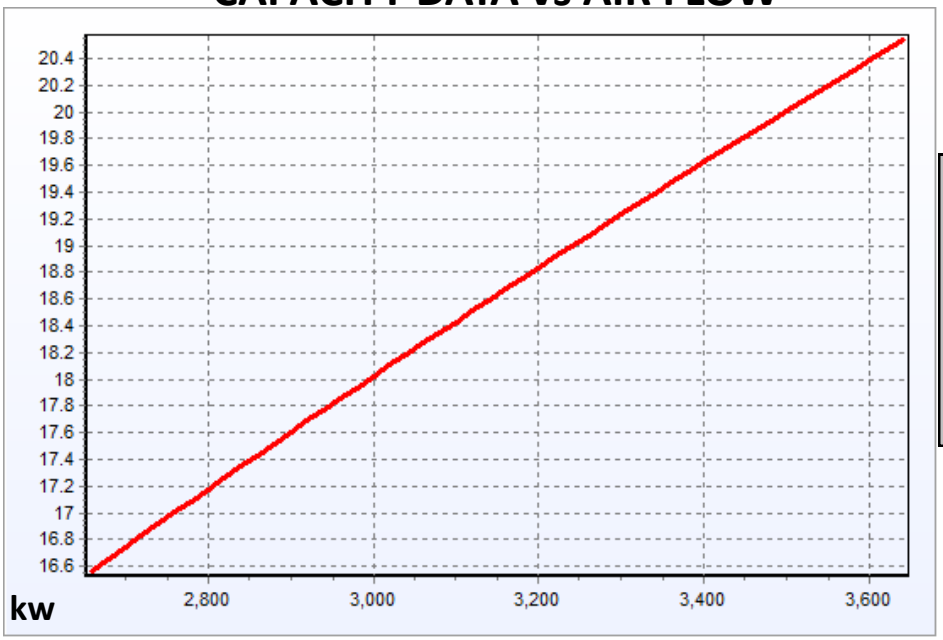


SCA 036 WG-4R



SCA 048-WG-4R

CAPACITY DATA vs AIR FLOW

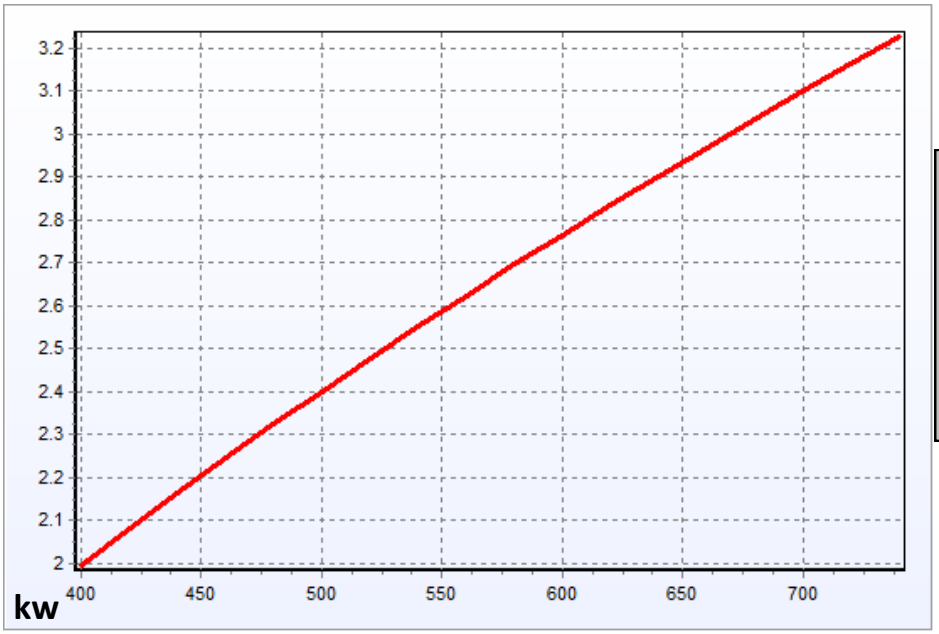


SCA 060 WG-4R

27 ^{0}C DB / 19 ^{0}C WB

7 ^{0}C/12 ^{0}C

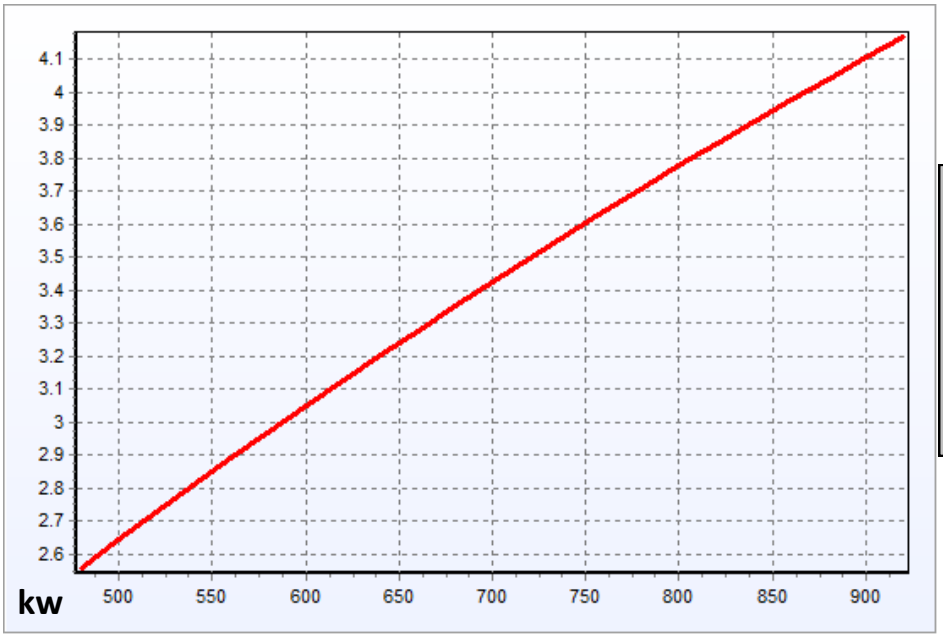
CAPACITY DATA vs AIR FLOW



SCA 09 WG-4R

24.4^{0}C DB/17.2^{0}C WB

7 ^{0}C/12 ^{0}C

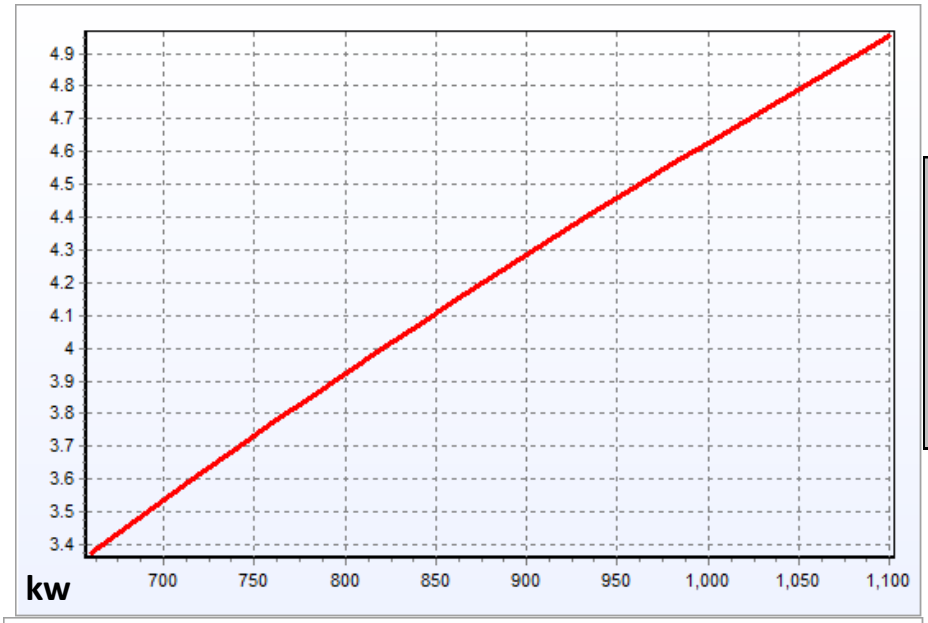


SCA 012 WG-4R

CAPACITY DATA vs AIR FLOW

24.4^{0}C DB/17.2^{0}C WB

7 ^{0}C/12 ^{0}C



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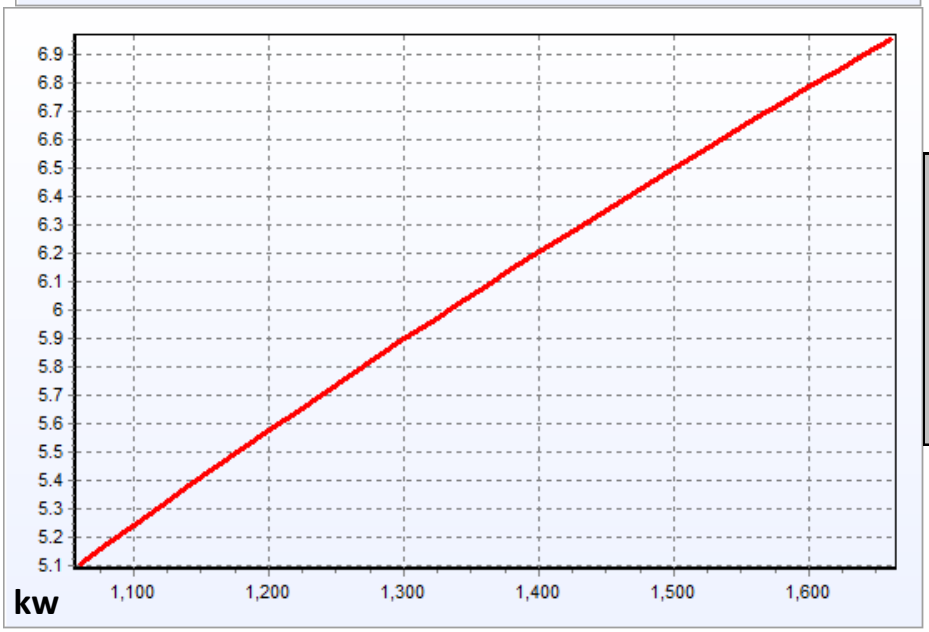
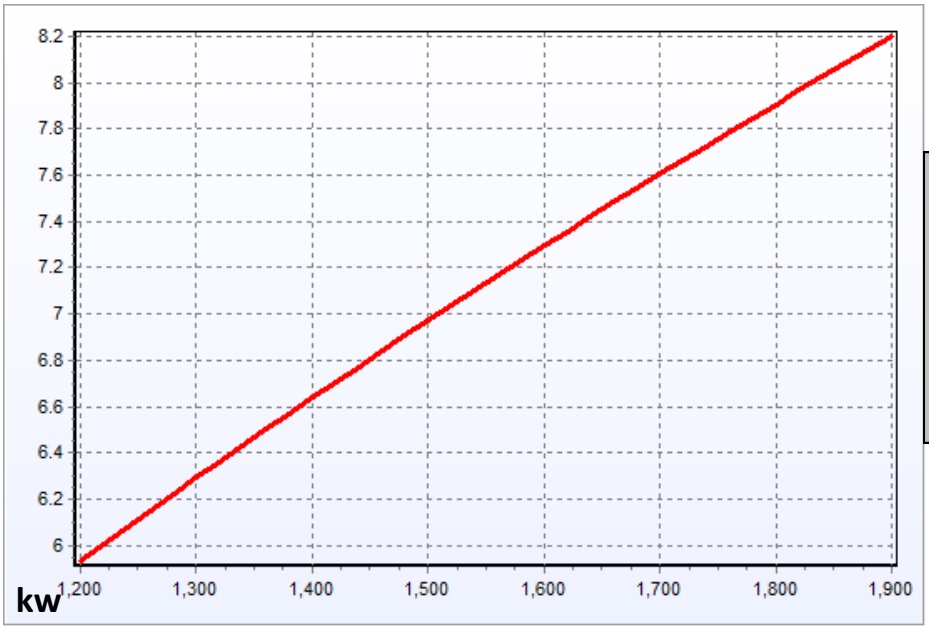


SCA 018 WG-4R

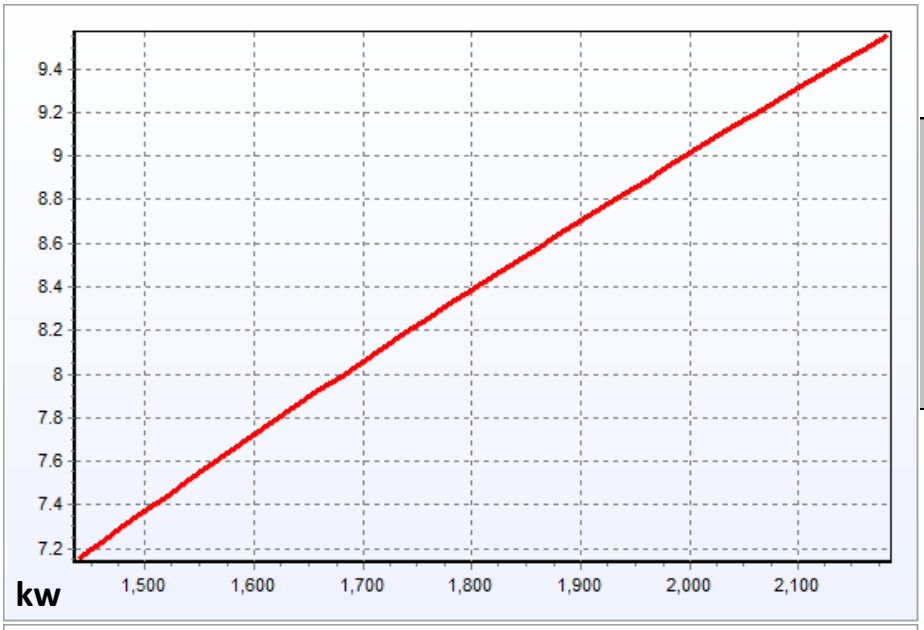


SCA 024 WG-4R

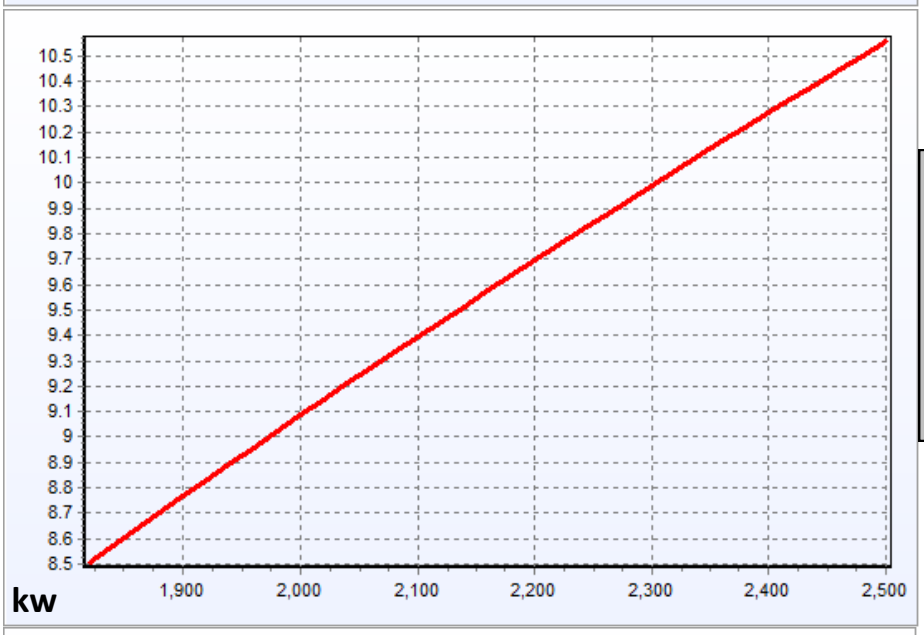
CAPACITY DATA vs AIR FLOW

24.4^{0}C DB/17.2^{0}C WB

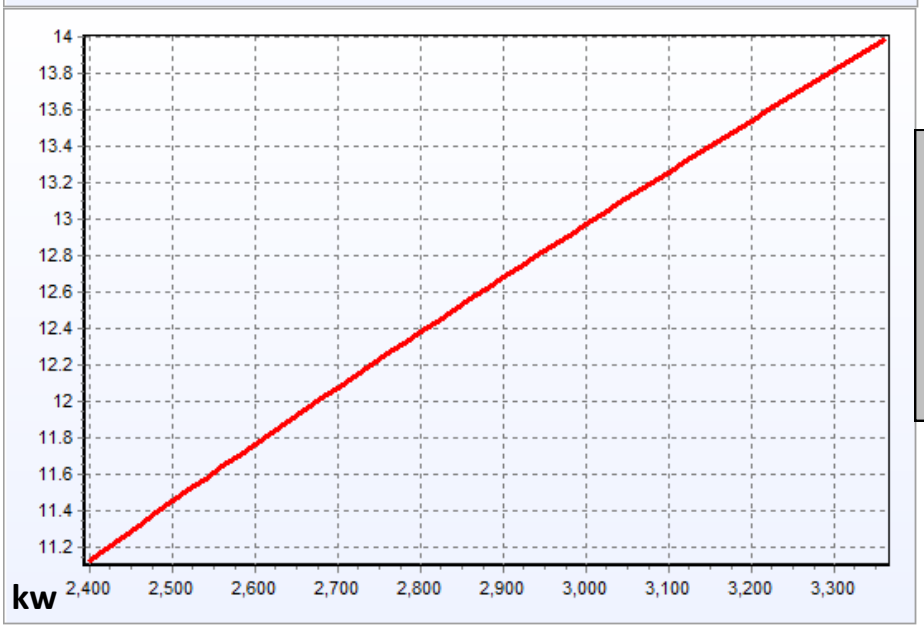
7 ^{0}C/12 ^{0}C



SCA 030 WG-4R

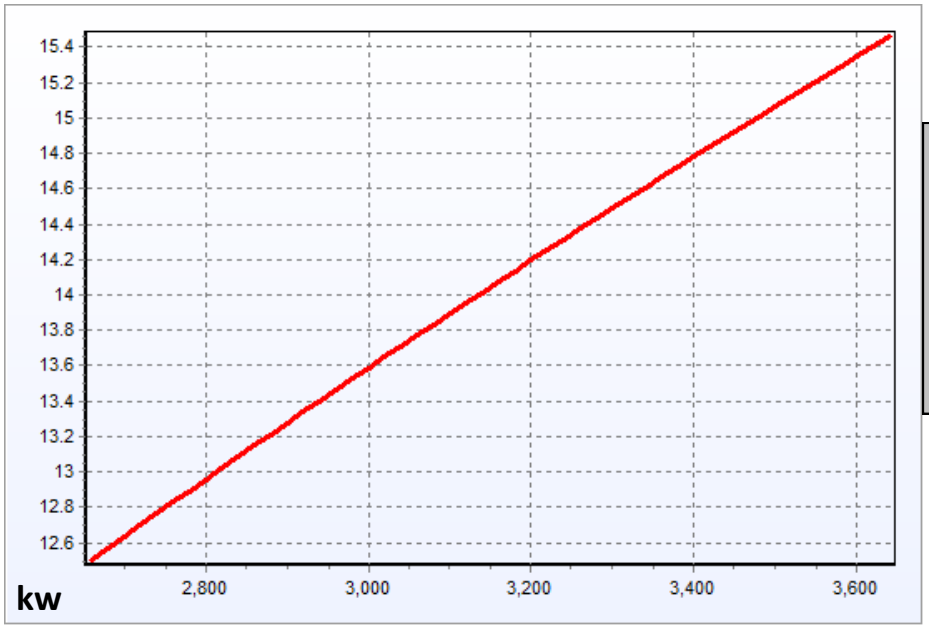


SCA 036 WG-4R



SCA 048 WG-4R

CAPACITY DATA vs AIR FLOW

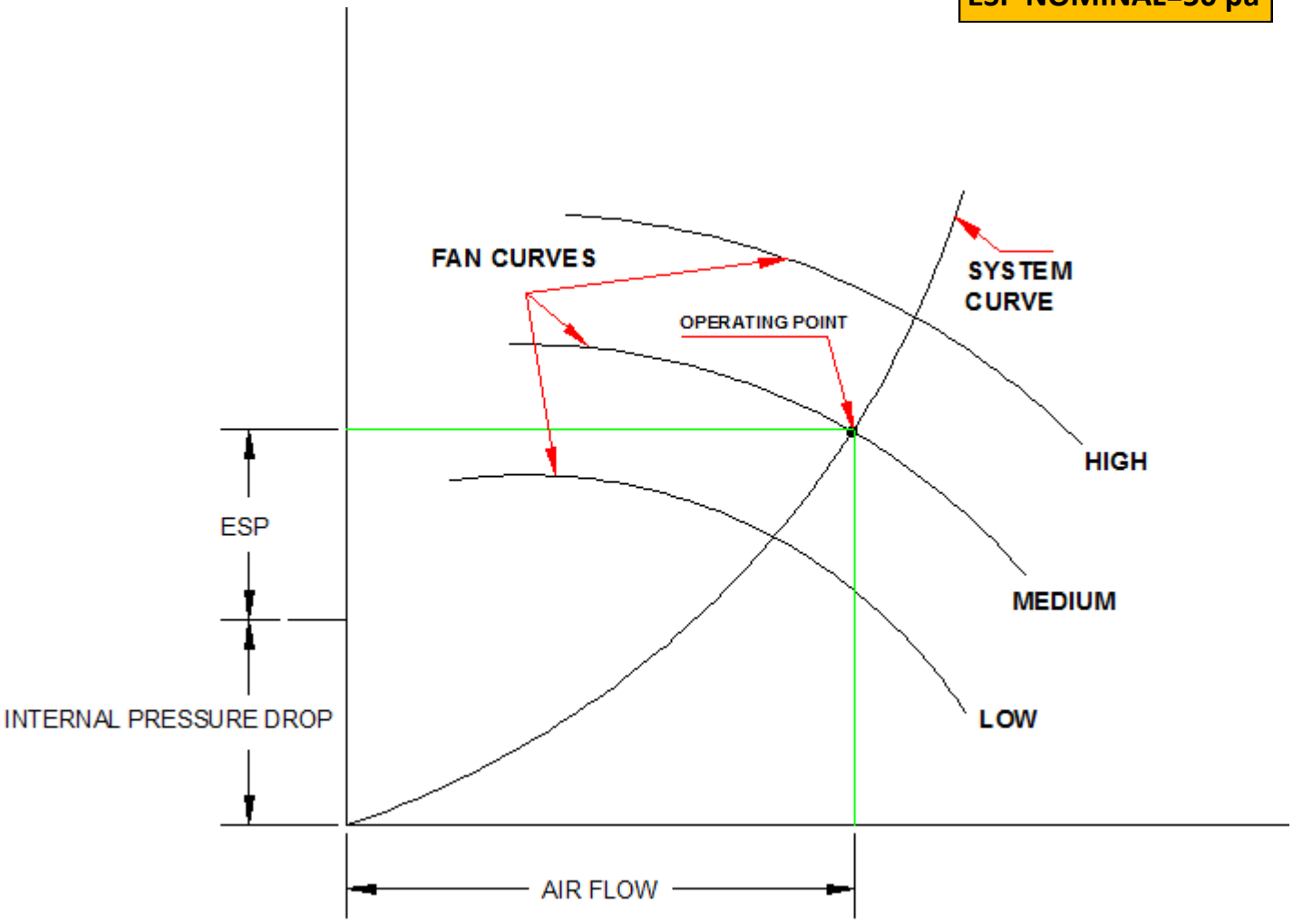


24.4^{0}C DB/17.2^{0}C WB

7 ^{0}C/12 ^{0}C

OPERATING POINT

ESP NOMINAL=50 pa

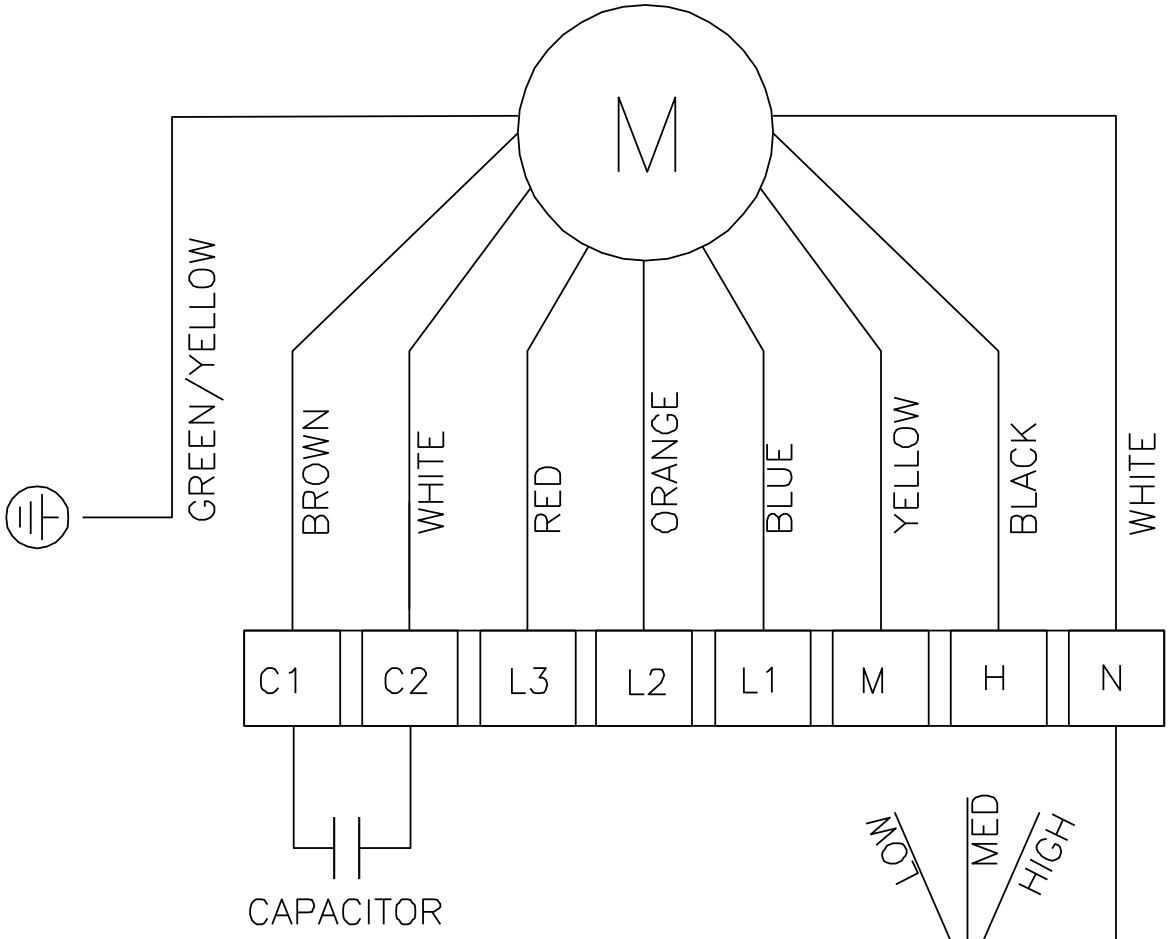


SOUND POWER DATA

ESP 50 pa @MEDIUM SPEED

		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 09 WG-4R	H	53.4	32.0	40.0	47.0	50.0	45.0	42.0	39.0	31.0
	M	51	29.7	37.7	44.7	47.7	42.7	39.7	36.7	28.7
	L	49.5	28.1	36.1	43.1	46.1	41.1	38.1	35.1	27.1
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 012 WG-4R	H	53.4	32.0	40.0	47.0	50.0	45.0	42.0	39.0	31.0
	M	51	29.6	37.6	44.6	47.6	42.6	39.6	36.6	28.6
	L	49.5	28.1	36.1	43.1	46.1	41.1	38.1	35.1	27.1
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 015 WG-4R	H	55.3	33.8	41.8	48.8	51.8	46.8	43.8	40.8	32.8
	M	53.1	31.7	39.7	46.7	49.7	44.7	41.7	38.7	30.7
	L	50.7	29.3	37.3	44.3	47.3	42.3	39.3	36.3	28.3
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 018 WG-4R	H	57.8	36.4	44.4	51.4	54.4	49.4	46.4	43.4	35.4
	M	56.8	35.4	43.4	50.4	53.4	48.4	45.4	42.4	34.4
	L	54.6	33.2	41.2	48.2	51.2	46.2	43.2	40.2	32.2
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 024 WG-4R	H	58.2	36.8	44.8	51.8	54.8	49.8	46.8	43.8	35.8
	M	57.2	35.8	43.8	50.8	53.8	48.8	45.8	42.8	34.8
	L	55	33.6	41.6	48.6	51.6	46.6	43.6	40.6	32.6
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 030 WG-4R	H	60.6	39.2	47.2	54.2	57.2	52.2	49.2	46.2	38.2
	M	58.4	37.0	45.0	52.0	55.0	50.0	47.0	44.0	36.0
	L	56.4	35.0	43.0	50.0	53.0	48.0	45.0	42.0	34.0
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 036 WG-4R	H	61.7	40.4	48.4	55.4	58.4	53.4	50.4	47.4	39.4
	M	60.7	39.3	47.3	54.3	57.3	52.3	49.3	46.3	38.3
	L	58.5	37.1	45.1	52.1	55.1	50.1	47.1	44.1	36.1
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 048 WG-4R	H	61.8	40.8	48.8	55.8	56.8	55.8	50.8	47.8	39.8
	M	60	39.1	47.1	54.1	55.1	54.1	49.1	46.1	38.1
	L	57.9	36.9	44.9	51.9	52.9	51.9	46.9	43.9	35.9
		SOUND POWER	63	125	250	500	1000	2000	4000	8000
		db(A)	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz
SCA 060 WG-4R	H	62.2	41.2	49.2	56.2	57.2	56.2	51.2	48.2	40.2
	M	61.2	40.2	48.2	55.2	56.2	55.2	50.2	47.2	39.2
	L	59.2	38.2	46.2	53.2	54.2	53.2	48.2	45.2	37.2

WIRING DIAGRAM



LEGEND:

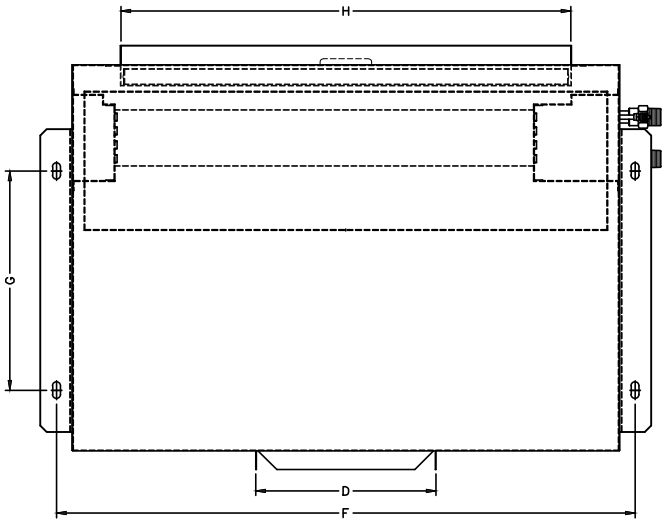
N – NEUTRAL
H – HIGH SPEED
M – MEDIUM SPEED
L1 – LOW SPEED1
L2 – LOW SPEED2
L3 – LOW SPEED3

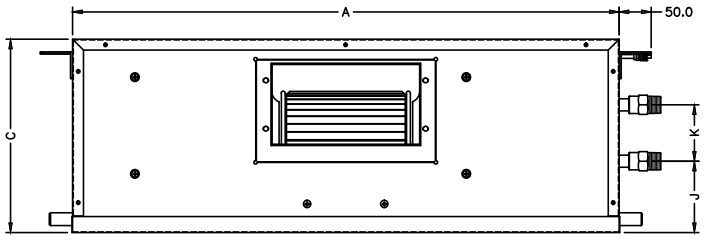
220/240V–1PH–50HZ

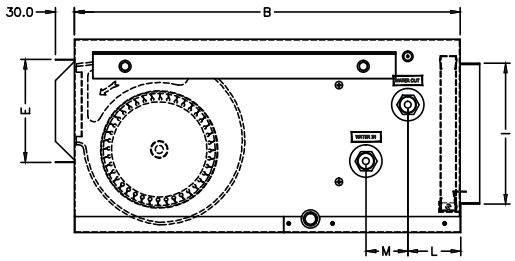
L N

DIMENSIONS

	M	L	K	J	I	H	G	F	E	D	C	B	A
SCA 09 WG-4R	65	82	88	110	219	600	340	798	160	280	300	600	750
SCA 012 WG-4R	65	82	88	110	219	700	340	898	160	280	300	600	850
SCA 015 WG-4R	65	82	88	110	219	700	340	898	160	280	300	600	850

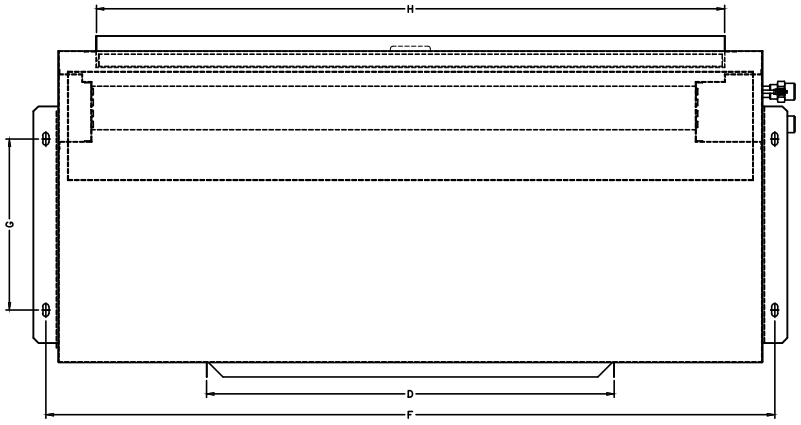


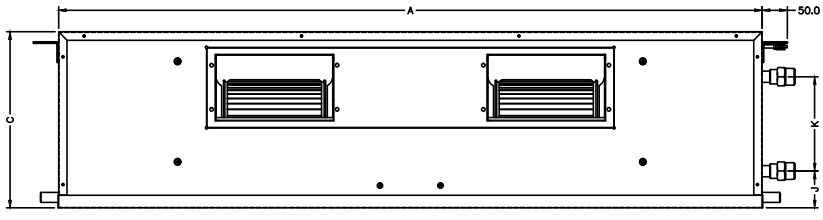


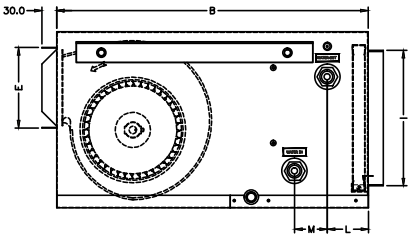


DIMENSIONS

	M	L	K	J	I	H	G	F	E	D	C	B	A
SCA 018 WG-4R	65	82	88	110	219	950	340	1148	160	750	300	600	1100
SCA 024 WG-4R	65	82	88	110	219	950	340	1148	160	750	300	600	1100
SCA 030 WG-4R	65	82	88	110	219	1050	340	1248	160	750	300	600	1200
SCA 036 WG-4R	65	82	88	110	219	1150	340	1348	160	750	300	600	1300
SCA 048 WG-4R	65	82	188	73	269	1250	340	1448	160	810	350	620	1400
SCA 060 WG-4R	65	82	188	73	269	1350	340	1548	160	810	350	620	1500







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