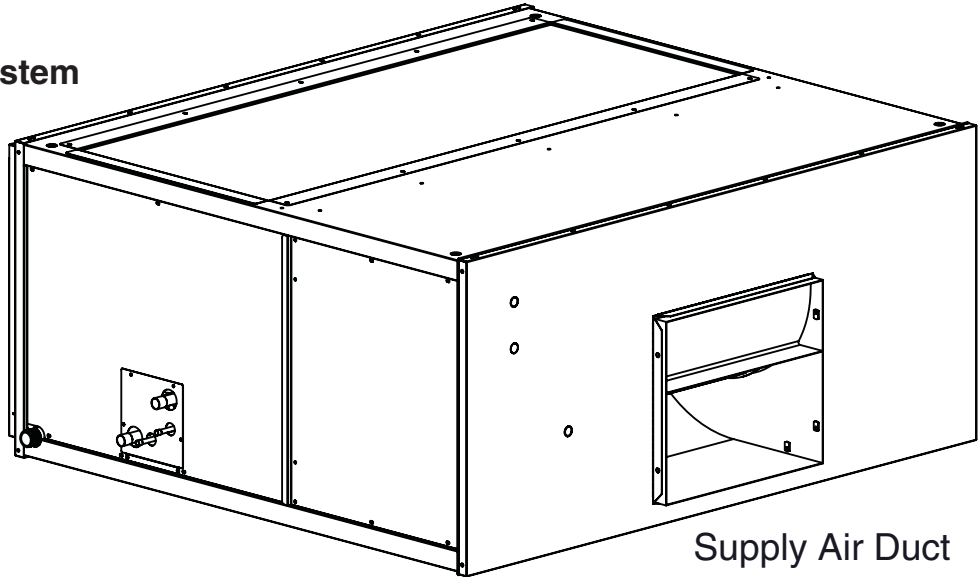


# B4SM Series

## Air Handler

7-1/2 and 10 Ton

Light Commercial System



### Features and Benefits

- **Cabinet** — Fabricated of heavy gauge, pre-painted Polyurethane coated galvanized steel. Mounting hardware is standard on all models.
- **Motor** — All motors operate at 1425 RPM (50 Hz.) and 1725 RPM (60 Hz.) The adjustable motor mount allows easy belt adjustment. A variable pitch motor pulley allows balancing of the system to the desired CFM.
- **Blower** — All blowers are heavy duty, double inlet, forward curved blade, centrifugal type. Each wheel is dynamically balanced for smooth, quiet operation. All blowers are belt driven with field adjustable motor pulleys to permit variations in static pressure and air requirements.
- **Blower Bearings** — Sealed ball bearings are utilized on both sides of the blower wheel.
- **Coils** — All coils are constructed using 3/8" OD seamless copper tubing mechanically expanded to highly efficient aluminum fins to maximize heat transfer. The 7-1/2 ton model has single circuit coils, and the 10 ton model has dual-circuited coils.
  - TXVs with check valves on all models are suitable for a/c and heat pump applications.

**WARNING!** All coils are shipped from factory with a dry Nitrogen holding charge. This assures leak free operation prior to installation.

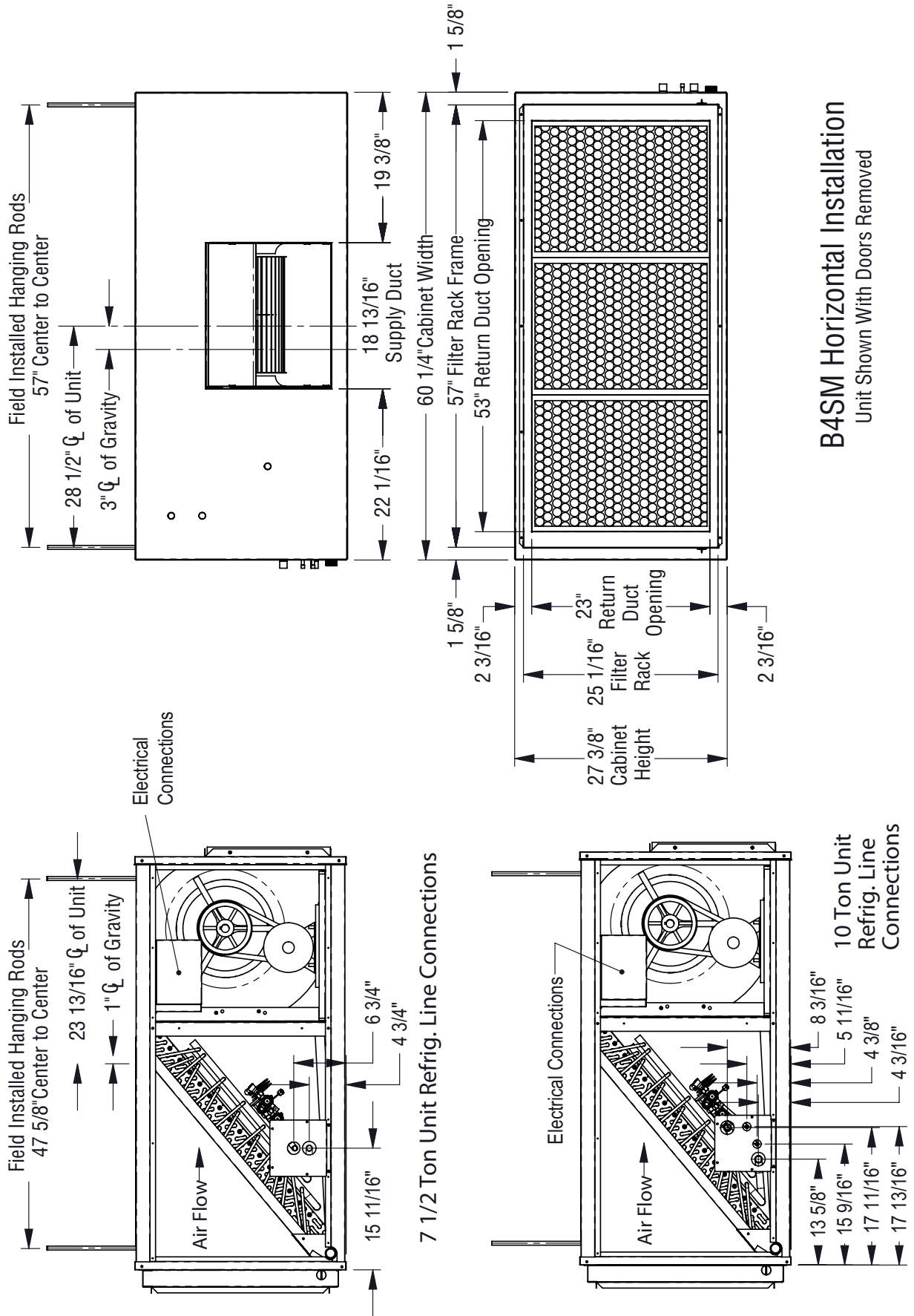
- **Electrical** — A terminal block and contactor are factory installed in all models for ease of field installation.

Supply Air Duct

Horizontal Shown

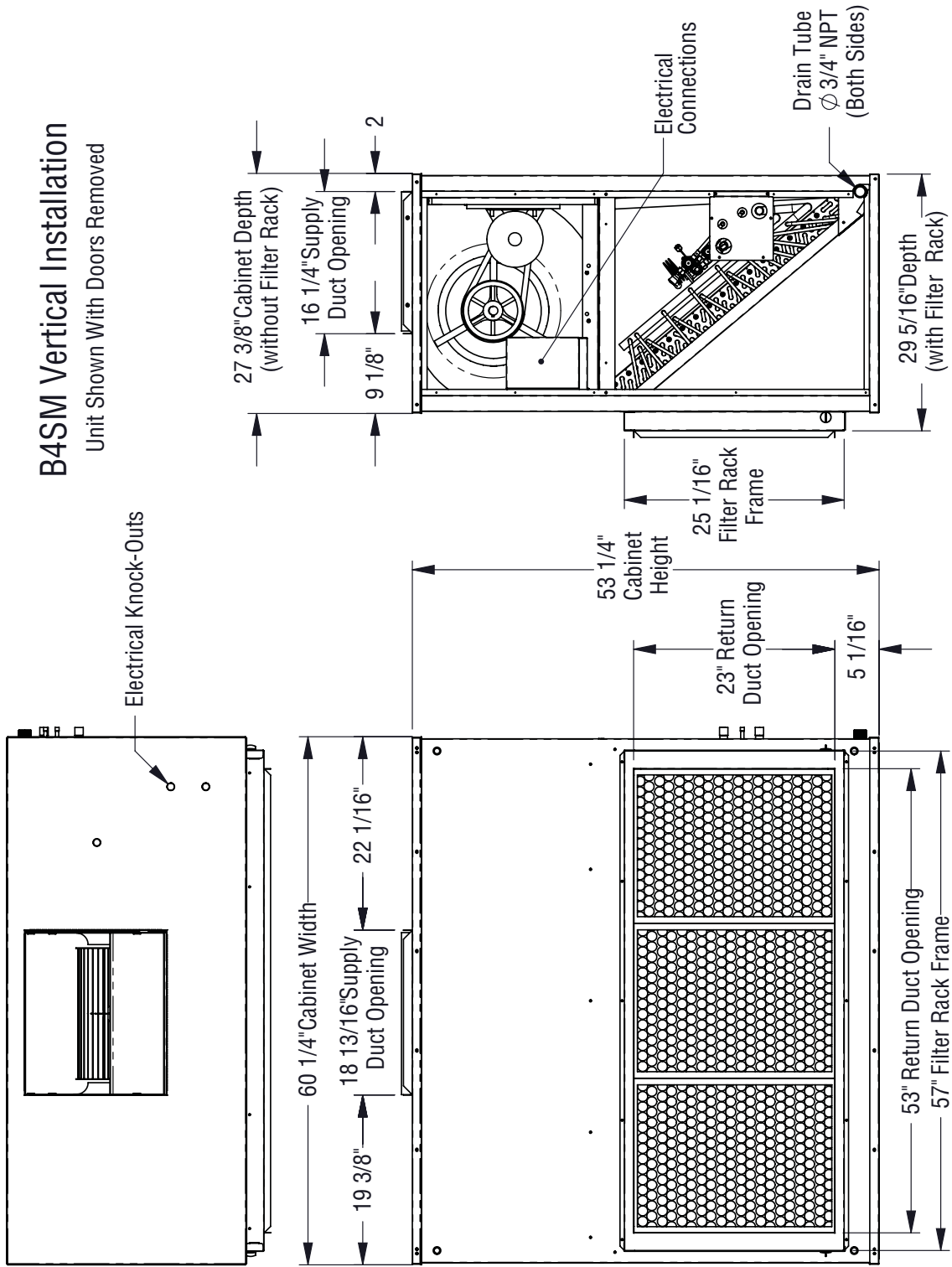
- **Insulation** — The entire interior of the cabinet is insulated with a Tuf-skin thermal insulation. This insulation can handle the abuse of maintenance and cleaning practices listed by NAIMA (North American Manufacturers Association).
- **Filters** — 1" permanent filters are provided as standard in all 7-1/2 and 10 ton models. Filter rack is easily accessible from either side of cabinet and can be converted to 2" permanent filters, if desired. Note: No tools are required in order to access the filters. If converting to disposable pleated filters use only 2" filters.
- **Miscellaneous** —
  - Motor wiring exits unit in convenient location for mounting a field supplied junction box for completion of unit wiring.
  - 3/4 inch MPT drain connections on both sides of cabinet.
  - High and low side connections are provided through a close-off plate on the motor side of the unit.
  - Drain pans are coated for corrosion resistance.
- **Warranty** — 1 Year Limited Parts.

**PHYSICAL DATA - B4SM – HORIZONTAL (AS SHIPPED)**



**B4SM Horizontal Installation**  
Unit Shown With Doors Removed

**PHYSICAL DATA - B4SM – VERTICAL (OPTIONAL POSITION)**



# SPECIFICATIONS

## CABINETS

Cabinets shall be manufactured of heavy gauge galvanized steel. The entire interior of the cabinet shall be insulated with half inch thick type insulation. Removable access panels shall be provided on both sides of the cabinet for maintenance and service. All cabinets shall have minimum 3/4" supply and return flanges.

## INSULATION

The entire interior of the cabinet shall be insulated with half inch insulation. This insulation must meet the requirements of ASTM C1071, ASTM G21, ASTM G22, NFPA90A, UL-181, and the cleaning practices of NAIMA.

## MOTOR/BLOWERS

Blowers shall be resiliently mounted, with ball bearings, forward curved blade, and of centrifugal type. Each wheel shall be dynamically balanced for smooth, quiet operation. Blowers shall be belt driven with field adjustable pulleys to permit variations in static pressure and air requirements. Standard motors are 1425 RPM (50 Hz.) and 1725 RPM (60 Hz.) either single or three phase. All motors are factory installed and wired. All three phase motors are wired for 460V operation.

## COILS

All coils shall consist of aluminum fins mechanically bonded onto 3/8" OD seamless copper tubing. All coils shall be leak tested at 400 PSIG minimum air pressure. 7-1/2 ton model is single-circuited, whereas the 10 ton model is dual-circuited. Both models have factory installed expansion valves approved for straight cool or heat pump operation. Drain pans shall be coated for corrosion protection.

## CONDENSATE DRAINS

Two condensate drains are supplied on both the 7.5 and 10 ton models. This allows the air handler to be configured for drainage from the left, right, or both sides of the unit. A minimum of a 2" trap is required.

## FILTERS

Three 1-3/4 inch permanent filters are provided as standard in 7-1/2 and 10 ton units. The filter rack is easily adjustable for 2" filters. No tools are required to access the filters, and they can be accessed from either side of the unit. Note: If converting to disposable filters, only use 2" filters.

## LISTING

All standard motors are ETL Listed. All air handlers shall be rated in accordance with ARI 430.

	Specifications and Ratings	B4SM-090G	B4SM-090J	B4SM-090K	B4SM-090E	B4SM-120G	B4SM-120J	B4SM-120K	
<b>Performance Data</b>	Nom. Cooling BTU/H	7 1/2 Tons				10 Tons			
<b>Electrical Data</b>	Voltage-Phase-Hz.	380-3-50	208-230/460-3-60	208/230-1-60	220/240-1-50	380-3-50	208-230/460-3-60	208/230-1-60	
	Max. Fuse (Amps)	15	15	25-20	30	15	15	25-20	
	Min. Circuit Ampacity	4.3	8.3-8.3/4.2	14.2-12.5	19.4	4.3	8.3-8.3/4.2	14.2-12.5	
<b>Evaporator Coil Data</b>	Evaporator Coil								
	Face Area (Sq. Ft.)	12.3				12.3			
	Rows/Fins Per Inch	13				14			
	Refrig. Control	TXV				TXV			
	No. Circuits	1				2			
	Liquid Line Size O.D.	3/4"				(2) 3/8"			
	Suction Line Size O.D.	7/8"				(2) 7/8"			
	Tubes: O.D. Material	3/8" OD				3/8" OD			
Condensate Drain No. FPT (1 Required)	3/4"				3/4"				
<b>Evaporator Blower</b>	Evaporator Blower - Type	Forward Curve Centrifugal - Dual Inlet				Forward Curve Centrifugal - Dual Inlet			
	(Qty) Dia. X Width - Wheel	(1) 15 x 15				(1) 15 x 15			
	Blower Drive RPM - Standard	Belt/ 592				Belt/ 790			
	Motor-HP RPM	2	2	2	1.5	2	2	2	
	FLA	3.4	6.6-6.6/3.3	11.3-10.0	15.5	3.4	6.6-6.6/3.3	11.3-10.0	
<b>Physical Data</b>	Filter - Type	1" Permanent (Factory Installed) Convertible to 2"				1" Permanent (Factory Installed) Convertible to 2"			
	Number of Filters	3				3			
	Sizes (Inches)	18 x 24				18 x 24			
	Unit Weight (LBS.)	400				425			
	Shipping Weight (LBS.)	555				580			

# BLOWER PERFORMANCE - B4SM 60 HZ. SERIES

Model	Motor Sheave Position	External Static Pressures (Inches Water Column)																							
		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0							
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw						
B4SM-090 (2HP) 60 Hz	Fully Closed	4182	666	1.28	3961	667	1.20	3706	668	1.11	3436	669	1.03	3081	669	0.93	2738	672	0.83						
	1 Turn Open	3867	629	1.09	3638	630	1.01	3366	631	0.95	3055	632	0.85	2672	633	0.77									
	2 Turns Open *	3268	592	0.82	3074	593	0.80	2783	593	0.74	2490	594	0.68	2052	597	0.59									
	3 Turns Open	3283	554	0.79	2966	555	0.72	2619	555	0.65	2203	555	0.57												
	4 Turns Open	2611	486	0.57	2355	487	0.53																		

Model	Motor Sheave Position	External Static Pressures (Inches Water Column)																										
		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0										
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw									
B4SM-120 (2HP) 60 Hz	Fully Closed	4789	868	2.12	4789	868	2.12	4640	868	2.00	4442	870	1.95	4208	873	1.87	4025	876	1.77	3875	877	1.68	3497	879	1.59	3207	882	1.49
	1 Turn Open	4707	822	1.92	4547	824	1.85	4416	826	1.77	4223	827	1.68	3996	829	1.60	3816	833	1.51	3665	837	1.20	3330	837	1.28	3051	839	1.19
	2 Turns Open *	4410	779	1.63	4258	780	1.56	4071	784	1.50	3867	786	1.45	3632	787	1.31	3396	790	1.23	3092	792	1.13	2826	794	1.01			
	3 Turns Open	3896	708	1.17	3776	724	1.20	3587	731	1.16	3408	736	1.10	3151	740	1.02	2899	743	0.94									
	4 Turns Open	2873	522	0.53	2785	534	0.54																					

\* Denotes Factory Adjustable Sheave Setting  
**Bold** Indicates Factory Recommended Blower Operating Range  
 Shaded Area -Not Recommended for Operation  
 Values based on dry coils and do not include filter losses

## COMPONENT STATIC PRESSURE

Model	Nominal CFM	Filter Size	Filter Resistance "W.C."	
			Resistance	"W.C."
090	2200	18 x 24 (1")	0.03	
	2600		0.04	
	3000		0.05	
	3400		0.07	
120	3800	18 x 24 (1")	0.08	
	4200		0.09	
	4600		0.11	
	5000		0.13	

# EXPANDED COOLING PERFORMANCE WITH B4SM

S3BN-090\* with B4SM-090\*

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
2500	75	62	86.0	64.7	6.48	83.9	63.4	7.01	81.5	62.1	7.61	78.8	60.5	8.29	75.7	58.8	9.07	72.3	56.9	9.95
	75	67	93.0	51.1	6.60	90.8	50.0	7.12	88.3	48.8	7.72	85.4	47.4	8.40	82.2	45.9	9.18	78.5	44.1	10.06
	75	72	104.1	46.0	6.80	101.8	45.0	7.31	99.1	43.8	7.91	96.0	42.4	8.59	92.4	40.8	9.37	88.4	39.1	10.26
	80	62	86.6	73.3	6.49	84.3	72.8	7.01	81.9	71.4	7.61	79.2	69.9	8.29	83.0	59.0	9.19	79.4	57.2	10.07
	80	67	93.6	64.7	6.61	91.4	63.5	7.13	89.1	62.2	7.72	86.2	60.7	8.41	76.2	68.1	9.07	72.8	66.2	9.95
	80	72	101.1	55.2	6.73	98.8	54.2	7.25	96.1	52.9	7.85	93.1	51.5	8.53	89.6	49.9	9.31	85.8	48.1	10.22
	85	62	87.3	78.5	6.49	85.2	77.3	7.01	82.8	75.9	7.61	80.2	74.4	8.30	77.2	72.6	9.08	73.9	70.5	9.96
	85	67	94.1	74.0	6.60	91.9	72.9	7.13	89.4	71.5	7.72	86.6	70.0	8.41	83.4	68.3	9.19	79.8	66.4	10.07
	85	72	101.8	80.1	6.74	99.7	79.0	7.26	97.0	77.6	7.86	94.0	75.9	8.54	90.5	74.1	9.32	86.7	72.2	10.21
3000	75	62	89.4	69.5	6.54	87.2	68.3	7.06	84.7	66.9	7.66	81.8	65.3	8.34	78.6	63.5	9.12	75.0	61.5	10.00
	75	67	96.6	58.5	6.66	94.3	57.3	7.18	91.6	56.0	7.78	88.5	54.4	8.46	85.1	52.7	9.24	81.3	50.8	10.11
	75	72	107.6	47.6	6.86	105.2	46.5	7.37	102.2	45.3	7.97	98.9	43.9	8.65	95.0	42.3	9.43	90.7	40.6	10.31
	80	62	90.4	79.0	6.55	87.7	79.3	7.06	85.9	76.4	7.67	83.0	74.7	8.35	85.9	63.6	9.24	82.1	61.6	10.12
	80	67	97.2	69.5	6.67	95.0	68.3	7.19	92.3	66.9	7.78	89.0	65.3	8.46	79.8	72.8	9.13	76.1	70.7	10.01
	80	72	104.9	58.3	6.80	102.4	57.2	7.32	99.6	55.9	7.91	96.4	54.4	8.59	92.7	52.8	9.37	88.7	50.9	10.26
	85	62	91.3	85.0	6.56	89.2	83.7	7.08	86.7	85.9	7.68	83.9	80.2	8.36	80.2	77.0	9.13	76.5	75.8	10.01
	85	67	97.8	80.4	6.67	95.5	79.2	7.19	92.9	77.8	7.78	89.9	76.3	8.47	86.5	74.5	9.25	82.7	72.5	10.13
	85	72	105.6	69.2	6.81	103.2	68.1	7.32	100.4	66.8	7.92	97.4	65.3	8.60	93.8	63.6	9.39	89.7	61.7	10.25
3500	75	62	92.0	74.1	6.58	89.7	72.8	7.10	87.1	71.3	7.70	84.1	69.6	8.38	80.8	67.8	9.16	77.0	65.7	10.03
	75	67	99.3	61.4	6.71	96.9	60.2	7.23	94.1	58.8	7.82	90.9	57.2	8.50	87.3	55.4	9.28	83.3	53.5	10.15
	75	72	109.9	48.9	6.90	107.4	47.9	7.41	104.2	46.6	8.00	100.6	45.2	8.68	96.4	43.6	9.45	91.6	41.8	10.32
	80	62	93.1	85.5	6.60	91.3	83.0	7.12	88.7	81.5	7.72	85.6	79.7	8.40	82.3	77.7	9.18	78.5	75.3	10.06
	80	67	100.0	73.9	6.72	97.6	72.7	7.23	94.9	71.2	7.83	91.8	69.6	8.51	88.3	67.9	9.29	84.3	65.9	10.17
	80	72	107.7	61.1	6.85	105.2	60.0	7.37	102.2	58.6	7.96	98.9	57.1	8.64	95.1	55.4	9.42	90.8	53.5	10.30
	85	62	94.2	93.4	6.62	92.2	87.4	7.11	88.4	87.5	7.71	86.0	86.0	8.40	83.2	82.3	9.19	80.1	79.3	10.08
	85	67	100.6	86.5	6.72	98.2	85.2	7.24	95.6	83.8	7.83	93.3	80.1	8.53	89.8	78.4	9.31	85.7	76.3	10.21
	85	72	108.4	73.6	6.86	106.0	72.4	7.37	103.3	71.1	7.97	99.9	69.5	8.65	96.1	67.8	9.43	91.9	65.8	10.32

# EXPANDED COOLING PERFORMANCE WITH B4SM (continued)

S3BN-120\* with B4SM-120\*

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
3250	75	62	106.6	83.4	8.03	103.7	81.8	8.65	100.4	80.8	9.35	97.8	78.0	10.14	93.6	76.8	11.06	88.8	75.6	12.07
	75	67	115.8	64.6	8.19	112.5	63.2	8.82	109.0	61.5	9.53	105.2	60.4	10.32	101.2	58.3	11.22	96.8	55.8	12.25
	75	72	128.2	56.5	8.42	124.9	55.1	9.05	121.0	53.4	9.76	116.8	51.6	10.56	112.3	49.7	11.47	107.4	47.7	12.48
	80	62	107.4	95.0	8.03	104.5	93.4	8.66	101.3	91.6	9.36	97.8	89.6	10.16	101.9	76.1	11.22	97.5	73.9	12.26
	80	67	116.1	83.4	8.19	113.2	81.8	8.82	109.7	80.1	9.52	105.9	78.2	10.32	94.0	87.4	11.05	90.0	85.1	12.09
	80	72	125.8	70.0	8.37	122.4	68.4	8.99	118.7	66.7	9.70	114.6	64.9	10.50	110.2	62.9	11.40	105.4	60.8	12.42
	85	62	108.2	102.2	8.03	105.4	100.4	8.66	102.3	98.4	9.37	97.8	96.8	10.16	94.5	93.5	11.04	91.1	90.2	12.10
	85	67	116.5	96.5	8.18	113.5	94.9	8.81	110.0	93.1	9.52	106.3	91.2	10.31	102.6	87.7	11.23	98.3	85.6	12.24
	85	72	127.0	105.2	8.39	123.2	103.0	8.99	119.4	101.1	9.70	115.3	99.0	10.50	110.9	94.8	11.41	106.2	92.5	12.43
3750	75	62	109.6	88.8	8.08	106.6	87.2	8.71	103.7	86.5	9.42	99.4	85.5	10.19	94.8	84.2	11.05	89.9	82.7	11.99
	75	67	118.8	73.6	8.25	115.6	72.0	8.88	111.9	70.3	9.58	107.9	68.3	10.38	103.7	66.3	11.28	99.1	64.1	12.29
	75	72	131.4	58.2	8.48	127.9	56.7	9.11	123.9	55.0	9.82	119.4	53.2	10.62	114.7	51.3	11.52	109.6	49.3	12.53
	80	62	110.8	101.6	8.09	107.8	99.8	8.72	104.4	97.9	9.42	100.8	95.7	10.22	104.5	81.3	11.28	99.9	79.1	12.29
	80	67	119.4	88.8	8.25	116.4	87.2	8.88	112.7	85.4	9.59	108.0	83.4	10.38	96.8	93.4	11.11	92.6	90.8	12.12
	80	72	129.1	73.4	8.43	125.6	71.8	9.05	121.7	70.1	9.77	117.4	68.2	10.56	112.8	66.2	11.46	107.9	64.0	12.48
	85	62	110.8	110.0	8.09	108.0	106.9	8.71	105.2	104.1	9.42	102.1	101.1	10.23	98.9	97.9	11.15	95.3	94.4	12.18
	85	67	120.7	101.9	8.26	117.5	100.3	8.89	113.8	98.4	9.59	109.8	96.4	10.39	105.5	94.2	11.29	100.9	91.8	12.29
85	72	130.6	89.5	8.44	126.5	86.9	9.06	122.6	85.1	9.77	118.2	83.2	10.57	113.7	81.1	11.47	108.7	78.9	12.49	
4250	75	62	112.1	94.1	8.13	109.0	92.4	8.75	104.9	93.5	9.41	100.6	92.0	10.18	96.0	90.1	11.05	90.0	85.6	11.96
	75	67	121.4	76.9	8.30	118.1	75.3	8.92	114.3	73.5	9.63	110.1	71.5	10.42	105.7	69.4	11.32	101.0	67.2	12.32
	75	72	133.8	59.7	8.53	130.2	58.2	9.16	126.0	56.5	9.87	121.4	54.7	10.66	116.3	52.7	11.55	111.0	50.6	12.56
	80	62	113.7	107.4	8.14	110.6	105.6	8.77	107.1	103.4	9.47	103.3	101.0	10.27	99.3	98.3	11.17	94.4	93.5	12.16
	80	67	122.0	93.9	8.29	118.9	92.3	8.92	115.1	90.4	9.63	110.9	88.4	10.42	106.5	86.3	11.32	101.8	84.0	12.32
	80	72	131.8	76.6	8.48	128.2	75.0	9.10	124.1	73.3	9.81	119.7	71.3	10.61	114.9	69.2	11.51	109.8	67.0	12.53
	85	62	114.8	113.6	8.15	112.2	111.1	8.79	109.3	108.2	9.50	106.1	105.0	10.31	102.6	101.6	11.23	98.9	97.9	12.26
	85	67	123.6	108.1	8.31	120.2	106.4	8.94	116.4	104.4	9.64	112.3	102.3	10.44	107.8	99.9	11.34	103.1	97.4	12.36
85	72	133.3	94.6	8.49	129.1	92.0	9.11	125.0	90.1	9.82	120.6	88.2	10.61	115.8	86.0	11.52	110.7	83.8	12.53	

# EXPANDED COOLING PERFORMANCE WITH B4SM (continued)

T3BN-090\* with B4SM-090\*

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
2500	75	62	86.2	66.0	6.55	83.9	64.6	7.07	81.3	63.1	7.67	78.4	61.4	8.35	75.3	59.5	9.11	71.7	57.4	9.99
	75	67	93.1	52.7	6.68	90.6	51.4	7.20	87.8	50.1	7.79	84.7	48.5	8.47	81.3	46.9	9.25	77.6	45.0	10.12
	75	72	104.9	47.9	6.91	102.4	46.7	7.43	99.4	45.4	8.02	96.0	43.8	8.71	92.2	42.2	9.48	88.0	40.3	10.35
	80	62	86.7	75.3	6.56	84.4	73.9	7.08	81.9	72.4	7.67	79.0	70.7	8.36	82.4	59.9	9.26	78.6	57.8	10.14
	80	67	93.8	66.2	6.69	91.5	64.8	7.21	88.8	63.3	7.80	85.8	61.7	8.49	75.9	68.8	9.11	72.4	66.7	10.00
	80	72	101.2	57.0	6.83	98.5	55.7	7.35	95.6	54.3	7.94	92.3	52.6	8.62	88.7	50.9	9.40	84.6	48.9	10.29
	85	62	87.5	78.5	6.56	85.3	77.2	7.08	82.8	75.7	7.68	79.9	74.1	8.37	76.8	72.2	9.13	73.4	70.1	10.01
	85	67	94.4	75.5	6.69	92.0	74.1	7.21	89.3	72.6	7.81	86.3	70.9	8.49	83.0	69.1	9.26	79.2	67.0	10.14
	85	72	101.9	81.5	6.84	99.6	80.2	7.36	96.6	78.5	7.95	93.4	76.7	8.64	89.8	74.8	9.42	85.8	72.6	10.30
3000	75	62	89.6	70.8	6.62	87.2	69.4	7.13	84.5	67.8	7.73	81.5	66.0	8.42	78.1	64.1	9.17	74.4	61.9	10.05
	75	67	96.7	60.0	6.75	94.0	58.6	7.27	91.1	57.1	7.86	87.8	55.4	8.54	84.2	53.5	9.31	80.2	51.4	10.16
	75	72	108.5	49.6	6.98	105.7	48.4	7.50	102.4	47.0	8.09	98.7	45.4	8.76	94.7	43.7	9.54	90.1	41.8	10.41
	80	62	90.2	81.8	6.62	87.8	80.4	7.14	85.2	78.8	7.73	82.7	75.5	8.44	85.4	64.3	9.33	81.5	62.2	10.19
	80	67	97.5	70.9	6.76	95.0	69.5	7.28	92.1	68.0	7.87	88.0	66.2	8.55	79.3	73.5	9.21	75.6	71.2	10.07
	80	72	104.9	60.0	6.91	102.1	58.7	7.42	99.0	57.2	8.01	95.5	55.5	8.69	91.7	53.7	9.46	87.4	51.7	10.33
	85	62	91.6	85.1	6.64	89.2	83.6	7.16	86.6	81.9	7.75	83.6	79.9	8.44	79.8	76.7	9.20	76.0	75.2	10.07
	85	67	98.2	81.8	6.76	95.6	80.4	7.28	92.8	78.9	7.88	89.6	77.1	8.56	86.0	75.2	9.34	82.1	73.0	10.20
	85	72	105.9	70.9	6.92	103.2	69.5	7.43	100.2	68.0	8.03	96.8	66.3	8.71	93.0	64.4	9.49	88.8	62.3	10.35
3500	75	62	92.3	75.3	6.67	89.8	73.8	7.18	86.9	72.1	7.78	83.8	70.3	8.45	80.2	68.3	9.23	76.3	66.0	10.09
	75	67	99.4	62.9	6.80	96.7	61.4	7.32	93.6	59.8	7.91	90.1	58.1	8.58	86.4	56.1	9.37	82.2	54.0	10.21
	75	72	110.9	51.0	7.03	107.8	49.8	7.54	104.3	48.3	8.13	100.3	46.7	8.80	95.7	44.9	9.56	90.3	42.8	10.42
	80	62	94.0	85.7	6.69	91.4	84.2	7.21	88.5	82.4	7.80	85.3	80.5	8.48	87.7	78.3	9.25	77.9	75.8	10.12
	80	67	100.4	75.3	6.81	97.7	73.9	7.33	94.8	72.3	7.92	91.4	70.5	8.60	87.7	68.5	9.39	83.5	66.3	10.24
	80	72	107.8	62.8	6.96	104.9	61.4	7.47	101.6	59.9	8.06	98.0	58.2	8.74	94.0	56.3	9.52	89.6	54.2	10.38
	85	62	95.2	90.3	6.71	91.8	91.0	7.20	88.3	87.4	7.79	85.6	84.8	8.48	82.7	81.9	9.25	79.5	78.7	10.15
	85	67	101.1	87.8	6.82	98.4	86.4	7.34	95.4	84.7	7.93	92.2	82.9	8.61	89.1	78.9	9.40	85.0	76.7	10.29
	85	72	109.0	75.2	6.98	106.1	73.8	7.49	102.9	72.2	8.08	99.3	70.4	8.76	95.4	68.5	9.54	91.0	66.4	10.42

# EXPANDED COOLING PERFORMANCE WITH B4SM (continued)

T3BN-120\* with B4SM-120\*

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
3500	75	62	104.4	84.3	8.38	101.3	83.0	8.99	98.5	80.0	9.69	95.2	78.2	10.49	91.4	76.1	11.40	87.4	73.9	12.41
	75	67	112.8	64.3	8.52	109.9	62.8	9.14	106.5	61.4	9.84	102.8	59.7	10.63	98.7	57.9	11.54	94.4	55.9	12.53
	75	72	126.2	55.9	8.76	123.0	54.6	9.37	119.2	53.0	10.08	115.1	51.3	10.87	110.5	49.4	11.77	105.7	47.5	12.80
	80	62	105.7	95.4	8.38	102.9	93.8	9.00	99.7	92.0	9.70	96.3	89.9	10.49	99.9	76.2	11.55	95.6	74.0	12.54
	80	67	113.8	83.4	8.52	111.0	81.9	9.14	107.6	80.2	9.84	103.9	78.3	10.64	92.6	87.7	11.41	88.6	85.3	12.42
	80	72	122.7	69.5	8.68	119.5	68.0	9.30	115.9	66.4	10.00	111.9	64.5	10.79	107.6	62.6	11.70	103.0	60.4	12.70
	85	62	106.9	102.5	8.39	104.4	100.7	9.01	100.0	99.5	9.69	97.2	96.2	10.49	94.0	93.1	11.41	90.7	89.8	12.45
	85	67	114.4	97.3	8.52	111.6	95.8	9.14	108.9	92.4	9.85	105.2	90.5	10.65	101.1	88.4	11.57	96.8	86.1	12.56
	85	72	123.7	105.2	8.69	120.7	103.6	9.30	117.1	99.4	10.01	113.2	97.4	10.80	108.8	95.1	11.71	104.2	92.7	12.71
4000	75	62	108.0	89.3	8.44	104.6	88.3	9.04	100.9	85.0	9.74	97.5	83.1	10.53	93.6	81.0	11.44	90.0	77.0	12.46
	75	67	115.6	72.8	8.57	112.5	71.2	9.18	108.9	69.5	9.88	105.1	67.5	10.67	100.9	65.5	11.59	96.4	63.2	12.58
	75	72	128.7	57.4	8.81	125.3	56.1	9.42	121.3	54.5	10.12	117.0	52.7	10.91	112.1	50.8	11.80	106.8	48.8	12.83
	80	62	108.6	101.4	8.43	105.8	99.6	9.05	102.5	97.6	9.75	99.0	95.4	10.54	102.2	81.0	11.58	97.7	78.7	12.62
	80	67	116.5	88.5	8.57	113.5	86.9	9.19	110.2	85.1	9.89	106.0	83.2	10.68	95.1	92.9	11.44	91.1	90.2	12.47
	80	72	125.5	72.6	8.73	122.3	71.1	9.35	118.5	69.4	10.05	114.3	67.5	10.84	109.8	65.5	11.74	105.0	63.3	12.77
	85	62	109.3	108.2	8.43	106.9	105.8	9.05	104.2	103.1	9.77	101.2	100.2	10.57	97.9	97.0	11.49	94.4	93.5	12.50
	85	67	118.3	102.0	8.59	115.2	100.3	9.20	111.6	98.5	9.90	107.8	96.4	10.70	103.6	94.2	11.60	99.1	91.7	12.63
	85	72	126.8	88.3	8.74	123.5	86.7	9.36	119.8	85.0	10.06	115.7	83.0	10.85	111.2	80.9	11.76	106.4	78.7	12.79
4500	75	62	109.3	95.8	8.46	105.8	94.6	9.06	103.7	87.7	9.79	100.0	85.7	10.58	96.0	83.5	11.46	91.6	81.0	12.49
	75	67	117.7	75.8	8.61	114.6	74.2	9.22	110.9	72.4	9.92	106.9	70.4	10.71	102.6	68.3	11.61	98.0	66.0	12.64
	75	72	130.5	58.8	8.84	126.7	57.4	9.45	122.7	55.8	10.14	117.7	54.0	10.93	112.4	52.0	11.81	104.7	49.4	12.78
	80	62	111.2	106.6	8.48	108.3	104.7	9.09	104.9	102.5	9.79	101.3	99.9	10.59	97.7	96.9	11.48	92.1	95.4	12.49
	80	67	118.8	93.3	8.61	115.8	91.7	9.23	112.2	89.9	9.93	108.2	87.8	10.72	104.0	85.6	11.62	99.3	83.3	12.65
	80	72	127.8	75.6	8.78	124.5	74.1	9.39	120.6	72.3	10.09	116.3	70.3	10.88	111.7	68.3	11.78	106.7	66.0	12.82
	85	62	113.2	112.1	8.50	110.7	109.6	9.12	107.9	106.8	9.83	104.7	103.7	10.64	101.3	100.3	11.57	97.6	96.6	12.58
	85	67	120.8	107.7	8.63	117.6	106.0	9.25	114.0	104.0	9.95	110.0	101.8	10.74	105.7	99.4	11.64	101.2	96.7	12.67
	85	72	129.1	93.1	8.79	125.8	91.5	9.40	121.9	89.7	10.10	117.7	87.7	10.90	113.1	85.5	11.80	108.1	83.2	12.84

# EXPANDED HEATING PERFORMANCE

GT3BN-090\*

Indoor T.		OUTDOOR TEMPERATURE (Deg. F)																																																																										
		10						17						20						30						40						47						50						60																																
		CFM	Deg.F	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW																																								
2700	60	38.0	1.95	5.71	47.7	2.32	6.03	51.8	2.46	6.17	65.7	2.90	6.63	79.5	3.29	7.09	89.2	3.53	7.41	93.3	3.63	7.55	107.2	3.93	8.00	3000	70	36.8	1.71	6.32	46.5	2.06	6.63	50.6	2.19	6.76	64.4	2.62	7.21	78.1	2.99	7.66	87.7	3.23	7.97	91.9	3.32	8.11	105.6	3.62	8.55	80	36.4	1.54	6.94	45.9	1.85	7.27	50.0	1.98	7.41	63.5	2.37	7.87	77.1	2.71	8.34	86.6	2.93	8.66	90.7	3.02	8.80	104.2	3.30	9.27
	60	38.6	1.99	5.68	48.4	2.37	5.98	52.6	2.53	6.10	66.6	2.99	6.53	80.6	3.40	6.95	90.4	3.66	7.25	94.6	3.76	7.37	108.6	4.08	7.80		70	37.5	1.76	6.25	47.0	2.12	6.54	51.4	2.26	6.66	65.2	2.70	7.08	79.1	3.10	7.49	88.0	3.35	7.78	93.0	3.45	7.90	106.8	3.77	8.31	80	36.9	1.57	6.90	46.5	1.90	7.18	50.6	2.03	7.31	64.3	2.44	7.72	78.0	2.81	8.13	87.6	3.05	8.42	91.7	3.15	8.54	105.5	3.45	8.95
	60	38.7	2.00	5.68	48.6	2.39	5.96	52.9	2.55	6.08	67.1	3.03	6.49	81.4	3.46	6.89	91.3	3.73	7.18	95.6	3.84	7.30	109.8	4.18	7.71		70	38.2	1.78	6.27	47.9	2.15	6.54	52.1	2.30	6.65	66.0	2.76	7.03	80.0	3.17	7.40	89.7	3.43	7.67	93.9	3.54	7.78	107.8	3.88	8.16	80	37.4	1.59	6.90	47.1	1.93	7.15	51.2	2.07	7.26	65.0	2.50	7.63	78.9	2.89	8.00	88.5	3.14	8.26	92.7	3.25	8.37	106.5	3.57	8.74

GT3BN-120\*

Indoor T.		OUTDOOR TEMPERATURE (Deg. F)																																																																									
		10						17						20						30						40						47						50						60																															
		CFM	Deg.F	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW	MBH	COP	kW																																				
3700	60	51.3	2.13	7.06	59.8	2.40	7.32	63.4	2.51	7.43	75.6	2.85	7.79	87.8	3.16	8.16	96.3	3.36	8.42	100.0	3.44	8.53	112.2	3.70	8.89	70	49.9	1.86	7.86	58.4	2.12	8.09	62.0	2.22	8.19	74.2	2.55	8.52	86.4	2.86	8.84	94.9	3.07	9.07	98.5	3.15	9.17	110.7	3.42	9.50	80	49.5	1.67	8.69	57.9	1.90	8.92	61.5	2.00	9.01	73.5	2.31	9.34	85.4	2.59	9.66	93.8	2.78	9.88	97.4	2.86	9.98	109.3	3.11	10.30
	60	51.9	2.18	6.97	60.6	2.46	7.21	64.3	2.58	7.31	76.6	2.94	7.64	88.9	3.27	7.97	97.5	3.48	8.21	101.2	3.57	8.31	113.5	3.85	8.64	70	50.7	1.92	7.73	59.0	2.19	7.94	62.9	2.30	8.03	75.1	2.65	8.32	87.4	2.97	8.62	96.0	3.19	8.83	99.6	3.28	8.91	111.9	3.56	9.21	80	50.0	1.71	8.58	58.5	1.96	8.77	62.1	2.06	8.85	74.2	2.39	9.12	86.3	2.70	9.39	94.8	2.90	9.57	98.4	2.99	9.65	110.5	3.27	9.92
	60	52.0	2.20	6.93	60.8	2.49	7.16	64.5	2.61	7.25	77.1	2.99	7.57	89.7	3.33	7.89	98.5	3.56	8.11	102.3	3.65	8.21	114.8	3.95	8.53	70	51.5	1.95	7.72	60.1	2.23	7.90	63.7	2.34	7.98	76.0	2.70	8.24	88.3	3.05	8.50	96.9	3.27	8.68	100.5	3.37	8.76	112.8	3.67	9.01	80	50.7	1.74	8.54	59.2	2.00	8.70	62.8	2.10	8.76	75.0	2.45	8.99	87.2	2.78	9.21	95.7	3.00	9.37	99.4	3.09	9.43	111.5	3.39	9.66

# MODEL IDENTIFICATION CODE

