

TECHNICAL SPECIFICATIONS

JS4BD-Rev B 13 SEER

3 Phase Light Commercial R-410A High Efficiency Air Conditioners

3, 4, 5 Ton Capacities

The JS4BD Series of air conditioners offers exceptional performance with environmentally friendly R-410A refrigerant. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment. Units are ideally sized for slab or rooftop mounting in light commercial applications.



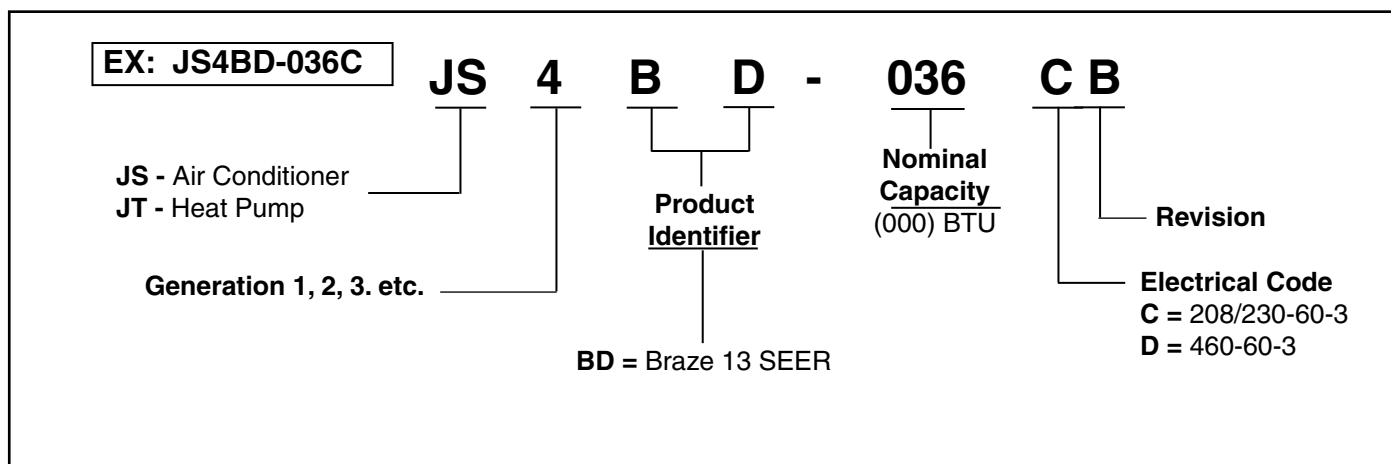
WARRANTY

- One year commercial parts
- 5 year compressor warranty.

FEATURES and BENEFITS

- **Designed using galvanized steel:** With a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Micro-channel Coils:** All aluminum outdoor coil is designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Service Valves:** These brass valves are easily accessible and simplify servicing of the refrigeration system.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier:** Included with unit, field installed.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Complete metal wrapper:** Protects the unit coil from being damaged.

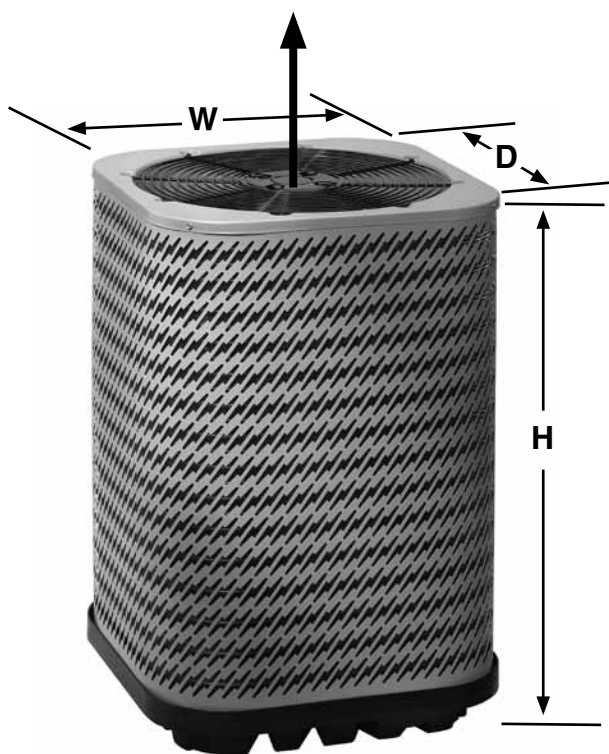
MODEL IDENTIFICATION CODES



DIMENSIONS OUTDOOR SECTION

JS4BD	36(C,D)B	48(C,D)B	60(C,D)B
H	27 1/2	31 1/2	31 1/2
W	22 3/4	30 3/4	30 3/4
D	22 3/4	30 3/4	30 3/4

Air Discharge
Allow Adequate Clearance for Airflow



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Three Phase

Model Number JS4BD-			036CB	048CB	060CB	036DB	048DB	060DB
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-3			460-60-3		
	Total Amps		11.8	15.2	17.4	6.5	6.9	8.4
	Delay Fuse Max. (2)		20	30	35	15	15	15
	Min. Circuit Ampacity		14.4	18.6	21.4	7.9	8.5	10.4
Component Data	Coil	Area	10.0	17.9	17.9	10.0	17.9	17.9
		Rows-FPI	1-23	1-23	1-23	1-23	1-23	1-23
		Tube Dia	MC					
	Fan Motor	Type	PSC					
		Amps	1.4	1.5	1.5	0.7	0.7	0.7
		HP	0.25	0.25	0.25	0.25	0.25	0.25
	Fan Blade	Dia - # Blades	18" - 3	24" - 2	24" - 2	18" - 3	24" - 2	24" - 2
		SCFM	3000	3500	3800	3000	3500	3800
	Compressor Data	RLA	10.4	13.7	15.9	5.8	6.2	7.7
		LRA	73.0	83.1	110.0	38.0	41.0	52.0
Refrigerant suction line O.D. NOTE: Liquid line is 3/8" O.D. for entire length.		0-24 ft.	3/4"	7/8"	7/8"	3/4"	7/8"	7/8"
		25-39 ft.	7/8" (3)	7/8"	1-1/8" (4)	7/8" (3)	7/8"	1-1/8" (4)
		40-75 ft.	7/8" (3)	7/8"	1-1/8" (4)	7/8" (3)	7/8"	1-1/8" (4)
Refrigerant charge R-410A in ounces for outdoor unit & 15' lineset			65.6	80.0	80.0	65.6	80.0	80.0
Approximate Weight (lbs.)		Net	140	180	184	140	180	184
		Ship	146	189	193	146	189	193

(1) Operating Voltage Range: 208/230 volts 187 V minimum - 253 V maximum

460 volts 414 V minimum - 506 V maximum

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

(4) Requires 7/8" to 1-1/8" reducer from line to unit.

(5) Additional charge for line sets above 15 feet.

Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz. per additional foot.

b) 7/8" = 0.7 oz. per additional foot.

c) 1 1/8" = 0.8 oz. per additional foot.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit
200	150	100	50	Ampacity
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50
2	3	4	6	55
1	2	3	4	60

Wire Size based on N.E.C. for 60° type copper conductors.

ACCESSORIES

Low Ambient	918837
Fan Delay Kit	918476
Low Pressure Switch	913551
High Wind Kit	920900

SYSTEM COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

Outdoor Unit	With This Coil + TDR				
JS4BD	Coil	Cooling BTUH	SEER	EER	Nominal CFM
036(C,D)B	C7B(A,H)M03036(C,U)-B	36,000	13.00	11.00	1,150
048(C,D)B	C7B(A,H)M03648(C,U)-C	47,000	13.00	11.00	1,360
060(C,D)B	C7B(A,H)M04860(C,U)-C	55,000	13.00	11.00	1,420

Outdoor Unit JS4BD	Indoor Unit	Cooling BTUH	SEER	EER	Nominal CFM
036(C,D)B	B6BMM036K-B	35,800	13.00	11.00	1,210
048(C,D)B	B6BMM048K-C	48,000	13.00	11.00	1,625
060(C,D)B	B6BMM060K-C	57,000	13.50	11.00	1,595

See current AHRI Directory for certified combinations and ratings. All ratings are with time delay relay.
www.ahridirectory.org

COOLING EXPANDED RATINGS

JS4BD-036(C,D)B C7B(A,H)M03642(C,U)-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1050	80	62	38.0	29.5	2.38	36.4	29.2	2.62	34.6	29.2	2.88	32.8	28.6	3.17	30.84	29.86	3.50	28.81	27.89	3.85
	80	67	41.9	24.6	2.46	40.2	24.4	2.69	38.3	24.6	2.96	36.4	24.1	3.24	34.29	23.65	3.58	32.04	21.47	3.93
	80	72	46.4	19.1	2.56	44.6	19.0	2.79	42.6	19.4	3.06	40.5	19.0	3.36	38.26	18.65	3.68	35.88	19.09	4.05
	75	62	38.6	23.7	2.39	36.9	23.5	2.63	35.2	23.6	2.89	33.3	23.0	3.18	31.25	20.97	3.50	29.08	22.63	3.86
1200	80	62	39.0	31.7	2.46	37.3	32.2	2.69	35.6	31.4	2.96	33.7	30.8	3.25	31.78	30.39	3.57	29.88	29.62	3.94
	80	67	43.0	26.2	2.54	41.2	26.9	2.77	39.2	26.2	3.03	37.2	25.9	3.32	35.03	25.89	3.65	32.68	25.69	4.01
	80	72	47.5	20.1	2.64	45.6	21.1	2.88	43.5	20.4	3.14	41.3	20.2	3.44	38.96	20.37	3.77	36.49	20.48	4.13
	75	62	39.5	25.3	2.47	37.8	25.9	2.70	36.0	25.1	2.96	34.1	24.8	3.25	31.95	24.50	3.58	29.69	24.29	3.93
1350	80	62	39.9	34.1	2.53	38.2	34.1	2.77	36.4	33.2	3.03	34.6	32.6	3.32	32.76	31.65	3.65	30.94	30.81	4.02
	80	67	43.7	28.2	2.61	41.9	28.5	2.85	39.9	27.8	3.11	37.8	27.7	3.40	35.58	27.32	3.73	33.19	27.36	4.08
	80	72	48.3	21.6	2.73	46.3	22.1	2.96	44.2	21.4	3.23	41.9	21.5	3.52	39.45	21.39	3.85	36.89	21.64	4.21
	75	62	40.3	27.2	2.54	38.5	27.4	2.77	36.6	26.6	3.03	34.6	26.3	3.32	32.48	25.93	3.65	30.18	25.83	4.00

JS4BD-048(C,D)B C7B(A,H)M03648(C,U)-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1400	80	62	49.0	37.4	3.14	46.7	36.9	3.44	44.3	36.9	3.79	41.7	36.0	4.17	38.72	37.39	4.60	35.91	34.67	5.07
	80	67	54.3	31.2	3.21	51.9	30.9	3.52	49.4	31.1	3.86	46.7	30.4	4.24	43.70	29.78	4.68	40.41	26.57	5.15
	80	72	60.2	24.5	3.30	57.7	24.3	3.61	55.0	24.7	3.95	52.1	24.1	4.34	49.00	23.64	4.77	45.57	24.08	5.25
	75	62	49.9	30.2	3.15	47.6	29.8	3.46	45.2	29.9	3.80	42.6	29.1	4.18	39.51	25.92	4.61	36.24	28.16	5.08
1600	80	62	50.3	40.0	3.23	48.0	40.6	3.54	45.5	39.5	3.88	42.9	38.7	4.26	39.97	37.96	4.69	36.77	36.46	5.16
	80	67	55.6	33.2	3.31	53.2	34.1	3.61	50.6	33.2	3.96	47.8	32.7	4.34	44.68	32.55	4.77	41.37	32.30	5.24
	80	72	61.6	25.7	3.41	59.0	26.9	3.71	56.2	26.0	4.05	53.2	25.7	4.44	49.85	25.76	4.87	46.31	25.76	5.34
	75	62	51.2	32.1	3.24	48.8	32.8	3.55	46.3	31.8	3.90	43.6	31.2	4.27	40.61	30.89	4.70	36.76	30.21	5.16
1800	80	62	51.4	42.9	3.32	49.0	43.0	3.63	46.5	41.7	3.98	43.9	41.0	4.35	41.12	39.73	4.79	38.51	38.35	5.27
	80	67	56.7	35.7	3.40	54.2	36.1	3.71	51.5	35.1	4.05	48.6	34.9	4.43	45.45	34.47	4.86	42.03	34.39	5.33
	80	72	62.7	27.5	3.50	60.0	28.1	3.81	57.1	27.2	4.15	53.9	27.2	4.54	50.58	26.98	4.96	47.04	27.17	5.44
	75	62	52.3	34.4	3.33	49.8	34.6	3.64	47.2	33.5	3.98	44.4	33.2	4.36	41.32	32.67	4.79	37.67	31.98	5.25

JS4BD-060(C,D)B C6B(A,H)-X60(C,U)-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1750	80	62	60.5	49.9	3.70	58.0	49.5	4.06	55.4	49.6	4.47	52.8	48.7	4.93	50.12	49.28	5.47	47.51	46.71	6.06
	80	67	65.3	40.6	3.77	62.4	40.3	4.13	59.5	40.7	4.53	56.5	39.9	5.00	53.37	39.33	5.53	50.13	37.69	6.11
	80	72	71.2	30.7	3.84	68.0	30.5	4.21	65.0	31.1	4.64	61.6	30.4	5.10	58.20	29.99	5.61	54.62	30.72	6.20
	75	62	61.0	39.5	3.71	58.3	39.1	4.07	55.6	39.3	4.47	52.8	38.5	4.93	49.87	35.51	5.46	46.79	38.13	6.04
2000	80	62	61.9	53.9	3.82	59.3	54.7	4.18	56.8	53.0	4.59	54.4	51.4	5.06	51.76	50.01	5.60	48.98	48.57	6.18
	80	67	66.3	43.6	3.87	63.4	44.7	4.24	60.4	43.6	4.65	57.3	43.1	5.12	54.09	43.08	5.64	50.77	43.00	6.22
	80	72	72.3	32.5	3.96	69.1	33.9	4.34	65.8	32.9	4.75	62.4	32.6	5.21	58.81	32.86	5.72	55.11	33.06	6.31
	75	62	62.0	42.2	3.82	59.3	43.1	4.18	56.5	42.0	4.58	53.6	41.4	5.04	50.60	41.30	5.57	47.44	41.11	6.15
2250	80	62	63.3	57.6	3.93	60.9	56.8	4.30	58.4	54.5	4.71	55.8	53.0	5.19	53.07	51.27	5.72	50.15	49.93	6.30
	80	67	67.2	47.1	3.98	64.2	47.5	4.35	61.1	46.4	4.77	57.9	46.2	5.23	54.68	45.81	5.75	51.28	45.93	6.32
	80	72	73.0	35.1	4.05	69.8	35.8	4.46	66.3	34.8	4.86	62.8	34.8	5.31	59.05	34.67	5.83	55.24	35.08	6.41
	75	62	62.9	45.4	3.92	60.1	45.7	4.28	57.2	44.5	4.69	54.2	44.3	5.16	51.13	43.80	5.68	47.90	43.77	6.26

COOLING EXPANDED RATINGS (Continued)

JS4BD-036(C,D)B B6BMM036K-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1050	80	62	40.4	24.0	2.38	38.7	23.8	2.61	36.9	24.0	2.87	35.0	23.5	3.16	33.00	24.87	3.49	30.83	23.24	3.84
	80	67	40.4	24.0	2.38	38.7	23.8	2.61	36.9	24.0	2.87	35.0	23.5	3.16	33.00	23.12	3.49	30.83	23.24	3.84
	80	72	44.8	18.7	2.46	43.0	18.6	2.70	41.1	18.9	2.96	39.0	18.5	3.26	36.86	18.23	3.59	34.54	18.66	3.94
	75	62	36.4	24.2	2.32	34.8	23.8	2.55	33.1	23.9	2.81	31.3	23.3	3.10	29.42	21.16	3.41	27.28	22.82	3.76
1200	80	62	41.4	25.7	2.45	39.6	26.3	2.68	37.7	25.7	2.94	35.8	25.2	3.23	33.68	25.18	3.56	31.44	25.08	3.91
	80	67	41.4	25.7	2.45	39.6	26.3	2.68	37.7	25.7	2.94	35.8	25.2	3.23	33.68	25.18	3.56	31.44	25.08	3.91
	80	72	45.8	19.7	2.54	43.9	20.6	2.77	41.9	20.0	3.04	39.7	19.8	3.33	37.43	19.91	3.65	35.01	20.00	4.01
	75	62	37.3	25.7	2.38	35.6	26.2	2.62	33.9	25.5	2.87	32.0	25.1	3.16	30.07	24.88	3.48	27.97	24.62	3.83
1350	80	62	42.1	27.6	2.51	40.3	27.8	2.75	38.4	27.1	3.01	36.4	26.9	3.30	34.23	26.67	3.63	31.96	26.70	3.98
	80	67	42.1	27.6	2.51	40.3	27.8	2.75	38.4	27.1	3.01	36.4	26.9	3.30	34.23	26.67	3.63	31.96	26.70	3.98
	80	72	46.5	21.2	2.61	44.5	21.6	2.84	42.4	21.0	3.11	40.2	21.0	3.40	37.91	20.88	3.72	35.44	21.09	4.08
	75	62	38.0	27.6	2.44	36.3	27.7	2.68	34.5	27.0	2.94	32.6	26.7	3.22	30.61	26.33	3.54	28.49	26.16	3.90

JS4BD-048(C,D)B B6BMM048K-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1400	80	62	49.4	37.4	3.09	47.1	36.9	3.39	44.8	36.9	3.72	42.2	35.9	4.09	39.24	37.25	4.50	36.57	34.71	4.96
	80	67	54.3	31.4	3.16	52.0	31.0	3.45	49.5	31.2	3.78	46.9	30.4	4.15	44.03	29.75	4.57	40.77	26.69	5.01
	80	72	60.5	24.8	3.25	58.0	24.7	3.54	55.3	25.1	3.86	52.2	24.5	4.23	48.49	23.98	4.63	45.16	24.29	5.10
	75	62	49.0	31.5	3.09	46.8	31.1	3.38	44.5	31.1	3.72	41.8	30.2	4.08	38.74	27.23	4.49	36.15	29.22	4.96
1600	80	62	50.7	39.9	3.19	48.4	40.5	3.49	46.0	39.4	3.82	43.4	38.6	4.19	40.56	37.97	4.60	37.38	36.74	5.05
	80	67	55.7	33.3	3.26	53.3	34.1	3.55	50.8	33.1	3.88	48.0	32.6	4.25	45.07	32.38	4.67	41.81	32.01	5.12
	80	72	61.6	26.1	3.35	58.6	27.3	3.63	55.5	26.3	3.95	52.7	26.0	4.32	49.57	25.92	4.74	46.15	25.79	5.20
	75	62	50.3	33.5	3.19	48.0	34.1	3.48	45.6	33.0	3.81	42.9	32.3	4.18	39.87	31.82	4.59	36.68	31.02	5.04
1800	80	62	51.8	42.8	3.29	49.4	42.8	3.59	47.0	41.6	3.92	44.4	40.9	4.29	41.61	39.78	4.70	38.70	38.53	5.16
	80	67	56.8	35.6	3.37	54.3	35.9	3.65	51.7	34.9	3.98	48.9	34.6	4.35	45.86	34.13	4.76	42.49	33.94	5.22
	80	72	61.9	27.9	3.44	59.4	28.4	3.73	56.6	27.4	4.06	53.6	27.3	4.43	50.41	26.97	4.84	46.87	27.01	5.30
	75	62	51.3	35.8	3.29	48.9	35.9	3.58	46.5	34.8	3.91	43.8	34.4	4.28	40.75	33.41	4.69	37.07	32.70	5.13

JS4BD-060(C,D)B B6BMM060K-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1750	80	62	61.5	47.2	3.56	58.7	46.3	3.91	55.7	46.3	4.31	52.2	45.1	4.75	48.53	46.79	5.26	45.46	43.83	5.84
	80	67	67.7	39.1	3.67	64.7	38.7	4.03	61.5	38.9	4.43	58.2	38.0	4.89	54.53	37.26	5.40	50.45	33.72	5.95
	80	72	74.7	30.5	3.82	71.4	30.3	4.20	68.1	30.8	4.60	64.5	30.1	5.05	60.63	29.56	5.57	56.42	30.17	6.13
	75	62	61.3	39.5	3.55	58.5	39.0	3.91	55.5	39.0	4.30	52.0	37.9	4.75	48.33	34.46	5.25	45.16	37.06	5.83
2000	80	62	63.2	50.2	3.64	60.3	51.0	4.00	57.2	49.6	4.39	53.8	48.6	4.85	50.04	47.63	5.35	46.61	46.21	5.91
	80	67	69.5	41.6	3.76	66.4	42.7	4.12	63.1	41.5	4.53	59.6	40.9	4.98	55.84	40.73	5.49	51.78	40.45	6.05
	80	72	76.4	32.1	3.92	73.1	33.6	4.29	69.5	32.5	4.70	65.6	32.1	5.14	61.60	32.24	5.65	57.39	32.25	6.22
	75	62	63.0	42.0	3.64	60.0	42.9	3.99	57.0	41.6	4.39	53.3	40.8	4.83	49.42	40.21	5.33	45.82	39.50	5.90
2250	80	62	64.6	54.0	3.72	61.6	54.0	4.08	58.4	52.5	4.47	55.2	51.5	4.93	51.66	49.92	5.44	48.32	48.11	6.01
	80	67	70.9	44.7	3.85	67.6	45.1	4.20	64.3	43.9	4.62	60.6	43.6	5.06	56.78	43.14	5.57	52.71	43.10	6.13
	80	72	77.6	34.5	4.00	74.1	35.2	4.38	70.3	34.0	4.78	66.6	34.0	5.23	62.56	33.71	5.74	58.35	33.98	6.31
	75	62	64.3	45.1	3.72	61.3	45.3	4.08	58.1	44.0	4.47	54.5	43.5	4.92	50.57	42.34	5.41	46.41	41.87	5.97



GENERAL TERMS OF LIMITED WARRANTY

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

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