

TECHNICAL SPECIFICATIONS

JS4BD 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.



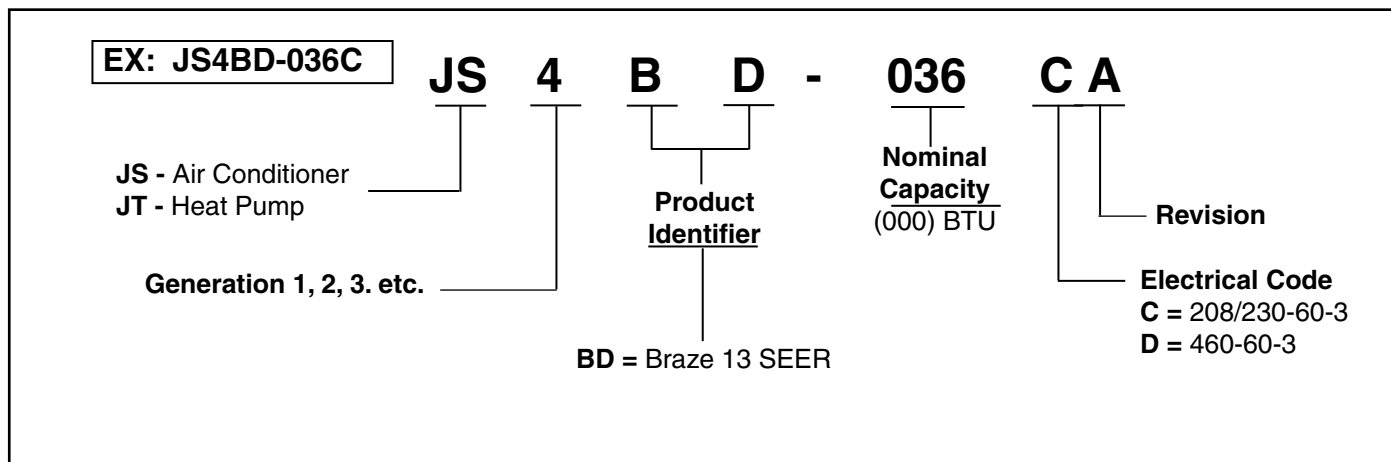
WARRANTY

- 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.
- **Copper Tube / Aluminum Fin Coils:** Both indoor and outdoor coils are 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.

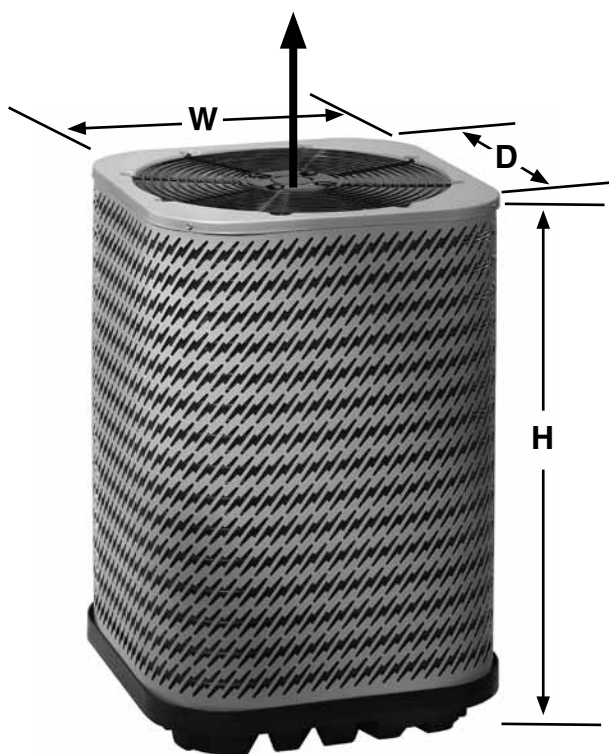
MODEL IDENTIFICATION CODES



DIMENSIONS OUTDOOR SECTION

JS4BD	036C/D	048C/D	060C/D
H	35	31	43
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 No. JS4BD-			036CA	048CA	060CA	036DA	048DA	060DA
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-3	208/230-60-3	208/230-60-3	460-60-3	460-60-3	460-60-3
	Total Amps		11.5	15.1	17	6.5	6.9	8.4
	Delay Fuse Max. (2)		15	30	35	15	15	15
	Min. Circuit Ampacity		14.2	18.5	20.9	7.9	8.5	10.4
Component Data	Coil	Area	13.2	17.7	25.3	13.2	17.7	25.3
		Rows-FPI	1-22	1-22	1-22	1-22	1-22	1-22
		Tube Dia.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	1.4	1.4	1.4	0.7	0.7	0.7
		HP	1/4	1/4	1/4	1/4	1/4	1/4
	Fan Blade	Dia.-#Blades	18 in. - 3	24 in. - 2	24 in. - 2	18 in. - 3	24 in. - 2	24 in. - 2
		SCFM	2500	3000	4000	2500	3800	3800
	Compressor Data*	RLA	11.6	15.3	17.4	6.4	6.9	8.6
		LRA	73	83.1	110	38	41	52
Refrigerant Suction Line-Length/ O.D. (all length of liquid line are 3/8" O.D.)		0-24 ft.	3/4"	7/8"	7/8"	3/4"	7/8"	7/8"
		25-39 ft.	3/4"	7/8"	1-1/8" (5)	3/4"	7/8"	1-1/8" (5)
		40-75 ft.	7/8"	7/8"	1-1/8" (5)	7/8"	7/8"	1-1/8" (5)
Refrigerant Charge (R-410A) in ounces for outdoor unit, indoor unit and 15' inset.			104	127	160	104	127	160
Weight Approximate (lbs.)		Net	128	166	190	190	190	190
		Ship	134	178	202	202	202	202

(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 3/4" to 5/8" reducer from unit to lineset.

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

(5) Requires 1-1/8 to 7/8" reducer from unit to lineset.

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				
Model Number JS4BD	Coil C6B(A,H)	Cooling Btuh	SEER	EER	Nominal CFM
036(C,D)A	X35(C,U)-(A,B)	34,600	13.00	11.5	950
036(C,D)A	X36(C,U)-(B,C)	35,600	13.00	11.3	1100
048(C,D)A	X48(C,U)-(C,D)	46,500	13.00	11.2	1400
060(C,D)A	X60(C,U)-(C,D)	58,500	13.00	11.0	1600

Outdoor Unit	With This Coil + TDR				
Model Number JS4BD	Coil C6B(A,H)	Cooling Btuh	SEER	EER	Nominal CFM
036(C,D)A	F36(C,U)-(A,B)+TDR+TXV-X3.0	34,600	13.00	11.5	950
036(C,D)A	F42(C,U)-B+TDR+TXV-X3.0	35,600	13.00	11.3	1100
036(C,D)A	F48(C,U)-C+TDR+TXV-X3.0	35,600	13.00	11.3	1100
048(C,D)A	F48(C,U)-C+TDR+TXV-X4.0	46,500	13.00	11.2	1400
048(C,D)A	F60(C,U)-(C,D)+TDR+TXV-X4.0	46,500	13.00	11.2	1400
060(C,D)A	F60(C,U)-(C,D)+TDR+TXV-X5.0	58,500	13.00	11.00	1600

Outdoor Unit JS4BD	Indoor Unit	BTUH	SEER	EER	SCFM
036CA	B6VMAX36K-B	36,600	14	12.5	1100
036DA	B6VMAX36K-B	36,600	14	12.5	1100
048CA	B6VMAX48K-C	48,500	14	12.5	1400
048DA	B6VMAX48K-C	48,500	14	12.5	1400
060CA	B6VMAX60K-C	59,000	14	12.5	1600
060DA	B6VMAX60K-C	59,000	14	12.5	1600

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)A with C6B(A,H)-X36(C,U)-(B,C)+TDR

O.D.T			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.
1000	80	62	36.7	31.0	2.52	35.0	30.4	2.81	33.1	29.8	3.11	31.0	29.4	3.46	28.7	28.2	3.85
	80	67	39.9	26.2	2.53	38.0	25.4	2.83	35.9	24.6	3.13	33.6	23.6	3.47	31.1	22.6	3.87
	80	72	43.7	21.0	2.55	41.7	20.3	2.86	39.4	19.5	3.16	36.7	18.6	3.50	33.9	17.6	3.89
	75	63	37.1	25.4	2.53	35.4	24.6	2.81	33.4	23.8	3.11	31.2	22.8	3.46	28.9	21.8	3.85
1100	80	62	37.3	32.6	2.56	35.6	32.0	2.85	33.7	31.7	3.15	31.5	30.9	3.50	29.4	29.4	3.89
	80	67	40.5	27.3	2.57	38.6	26.6	2.87	36.4	25.7	3.17	34.0	24.8	3.52	31.4	23.7	3.91
	80	72	44.3	21.7	2.59	42.2	21.0	2.90	39.7	20.2	3.20	37.0	19.3	3.54	34.0	18.4	3.93
	75	63	37.7	26.5	2.57	35.9	25.8	2.86	33.9	24.9	3.15	31.6	23.9	3.50	29.2	22.8	3.89
1200	80	62	37.7	34.7	2.63	36.2	33.9	2.89	34.2	33.1	3.19	32.1	32.1	3.54	30.0	30.0	3.93
	80	67	41.1	28.5	2.62	39.1	27.8	2.91	36.8	26.9	3.21	34.4	25.9	3.56	31.7	24.8	3.95
	80	72	44.7	22.5	2.64	42.5	21.8	2.94	39.9	21.0	3.24	37.2	20.0	3.58	34.3	19.0	3.97
	75	63	38.2	27.6	2.61	36.4	26.8	2.90	34.3	25.9	3.20	32.0	24.9	3.54	29.5	23.9	3.93

JS4BD-048(C,D)A with C6B(A,H)-X48(C,U)-C+TDR

O.D.T			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.
1300	80	62	48.6	40.7	3.30	46.3	39.9	3.68	43.8	39.2	4.09	41.0	38.7	4.57	38.1	37.2	5.11
	80	67	52.7	34.3	3.31	50.2	33.3	3.70	47.5	32.2	4.10	44.4	31.0	4.58	41.1	29.7	5.12
	80	72	57.5	27.4	3.32	54.8	26.5	3.71	51.8	25.5	4.12	48.4	24.3	4.59	44.7	23.1	5.13
	75	63	49.1	33.4	3.31	46.8	32.4	3.68	44.3	31.3	4.09	41.4	30.1	4.57	38.3	28.8	5.12
1400	80	62	49.2	42.4	3.34	46.9	41.6	3.72	44.3	41.2	4.13	41.5	40.2	4.61	38.6	38.6	5.15
	80	67	53.3	35.5	3.34	50.8	34.5	3.73	48.0	33.4	4.14	44.8	32.1	4.62	41.5	30.8	5.16
	80	72	58.1	28.2	3.36	55.3	27.3	3.75	52.2	26.2	4.16	48.7	25.1	4.63	45.0	23.9	5.17
	75	63	49.7	34.5	3.35	47.4	33.6	3.72	44.7	32.4	4.13	41.8	31.2	4.61	38.7	29.8	5.16
1500	80	62	49.4	44.7	3.41	47.5	43.6	3.75	44.9	42.7	4.16	42.1	41.9	4.65	39.3	39.3	5.19
	80	67	53.9	36.6	3.40	51.3	35.7	3.77	48.4	34.5	4.18	45.2	33.3	4.65	41.8	32.0	5.20
	80	72	58.7	29.0	3.40	55.7	28.1	3.79	52.5	27.0	4.19	49.0	25.8	4.67	45.2	24.6	5.20
	75	63	50.3	35.6	3.39	47.8	34.7	3.76	45.1	33.5	4.17	42.2	32.2	4.65	38.9	30.9	5.19

JS4BD-060(C,D)A with C6B(A,H)-X60(C,U)-C+TDR

O.D.T			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.
1500	80	62	58.9	47.3	4.03	56.2	46.4	4.48	53.3	45.5	4.97	50.2	44.9	5.52	46.5	42.8	6.17
	80	67	63.6	40.3	4.05	60.6	39.1	4.52	57.5	37.7	5.02	54.1	36.1	5.58	49.9	34.3	6.23
	80	72	69.7	33.0	4.09	66.4	31.9	4.58	62.6	30.6	5.08	58.2	29.2	5.63	53.2	27.4	6.29
	75	63	59.2	39.3	4.03	56.5	38.2	4.49	53.6	36.8	4.98	50.5	35.1	5.53	46.5	33.3	6.18
1600	80	62	59.6	48.8	4.07	56.9	47.9	4.53	53.9	47.5	5.02	50.8	46.3	5.57	46.9	44.7	6.22
	80	67	64.3	41.4	4.09	61.3	40.2	4.57	58.1	38.6	5.06	54.6	37.1	5.62	50.3	35.2	6.28
	80	72	69.9	33.7	4.14	66.6	32.6	4.62	62.3	31.3	5.11	58.3	29.8	5.67	53.5	27.9	6.34
	75	63	60.0	40.2	4.08	57.2	39.0	4.54	54.2	37.6	5.02	50.9	36.1	5.57	46.9	34.2	6.23
1700	80	62	59.8	51.2	4.15	57.5	49.9	4.57	54.5	48.9	5.06	51.3	48.2	5.61	47.4	45.9	6.27
	80	67	65.1	42.2	4.15	61.9	41.1	4.61	58.6	39.7	5.11	55.0	38.1	5.66	50.6	36.2	6.32
	80	72	69.8	34.3	4.18	66.3	33.2	4.66	62.6	31.8	5.15	58.7	30.4	5.71	53.9	28.5	6.39
	75	63	60.7	41.2	4.13	57.7	40.0	4.58	54.6	38.6	5.07	51.3	37.0	5.62	47.2	35.1	6.27

COOLING EXPANDED RATINGS (Continued)

JS4BD-036(C,D)A B6BM-X36K-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	37.3	30.2	2.36	35.7	29.9	2.62	34.1	30.0	2.90	32.3	29.5	3.22	30.55	30.03	3.58	28.93	28.44	3.98
	80	67	40.4	24.4	2.40	38.7	24.3	2.65	36.8	24.5	2.94	34.9	24.2	3.25	32.91	23.80	3.61	30.81	22.58	4.01
	80	72	44.1	18.6	2.44	42.2	18.5	2.70	40.2	18.9	2.99	38.1	18.5	3.31	35.99	18.17	3.67	33.69	18.59	4.06
	75	62	37.0	24.9	2.36	35.4	24.8	2.61	33.8	24.9	2.89	32.0	24.4	3.21	30.10	22.37	3.57	28.15	24.04	3.96
1200	80	62	38.2	32.7	2.42	36.6	33.2	2.68	34.9	32.4	2.96	33.4	31.5	3.29	31.71	30.63	3.65	29.95	29.70	4.05
	80	67	41.1	26.2	2.46	39.4	27.1	2.72	37.5	26.4	3.00	35.5	26.2	3.32	33.47	26.12	3.68	31.28	26.05	4.07
	80	72	44.9	19.7	2.51	42.9	20.6	2.77	40.9	20.0	3.05	38.7	19.8	3.37	36.47	19.89	3.73	34.08	19.99	4.13
	75	62	37.8	26.9	2.42	36.2	27.4	2.68	34.4	26.7	2.96	32.6	26.3	3.28	30.66	26.19	3.63	28.63	26.02	4.03
1350	80	62	39.0	35.3	2.49	37.5	35.0	2.75	36.0	33.6	3.03	34.3	32.6	3.35	32.62	31.52	3.72	30.77	30.64	4.11
	80	67	41.8	28.6	2.52	40.0	28.9	2.78	38.0	28.2	3.06	36.0	28.0	3.38	33.87	27.80	3.74	31.64	27.86	4.13
	80	72	45.5	21.3	2.57	43.4	21.7	2.83	41.3	21.1	3.12	39.1	21.1	3.43	36.75	20.98	3.79	34.36	21.22	4.19
	75	62	38.4	29.0	2.48	36.7	29.1	2.74	34.9	28.4	3.02	33.0	28.2	3.34	31.04	27.85	3.69	29.02	27.78	4.09

JS4BD-048(C,D)A B6BM-X48K-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	51.1	40.9	3.16	49.0	40.6	3.46	46.7	40.7	3.81	44.3	39.9	4.22	41.86	41.15	4.69	39.52	38.85	5.24
	80	67	55.5	33.4	3.20	53.0	33.1	3.50	50.5	33.5	3.85	47.8	32.8	4.25	45.09	32.27	4.73	42.21	30.50	5.27
	80	72	60.7	25.5	3.24	58.0	25.4	3.55	55.2	25.8	3.90	52.4	25.2	4.30	49.35	24.80	4.77	46.21	25.37	5.32
	75	62	50.8	34.1	3.15	48.6	33.7	3.46	46.2	33.8	3.81	43.9	33.1	4.22	41.34	30.34	4.68	38.68	32.58	5.23
1600	80	62	52.4	44.2	3.25	50.2	44.9	3.55	47.8	43.8	3.90	45.6	43.0	4.30	43.29	41.83	4.78	40.91	40.56	5.33
	80	67	56.5	36.0	3.28	54.0	36.8	3.59	51.4	35.9	3.93	48.7	35.4	4.34	45.82	35.35	4.82	42.89	35.24	5.35
	80	72	61.8	27.0	3.33	59.0	28.2	3.64	56.1	27.3	3.98	53.1	27.0	4.39	50.02	27.16	4.86	46.69	27.27	5.41
	75	62	51.9	36.4	3.24	49.6	37.2	3.54	47.2	36.2	3.89	44.6	35.6	4.30	42.01	35.44	4.77	39.31	35.20	5.31
1800	80	62	53.5	47.8	3.33	51.3	47.8	3.64	49.2	45.9	3.99	46.9	44.5	4.40	44.52	43.02	4.87	42.01	41.83	5.42
	80	67	57.4	38.8	3.36	54.8	39.1	3.67	52.1	38.1	4.02	49.3	37.9	4.42	46.40	37.58	4.90	43.37	37.62	5.44
	80	72	62.7	29.1	3.40	59.7	29.7	3.72	56.7	28.8	4.07	53.6	28.8	4.47	50.31	28.61	4.94	46.93	28.92	5.49
	75	62	52.7	39.3	3.32	50.3	39.5	3.63	47.9	38.4	3.98	45.3	38.1	4.38	42.56	37.64	4.85	39.75	37.52	5.39

JS4BD-060(C,D)A B6BM-X60K-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	63.4	50.9	3.80	60.9	50.5	4.19	58.3	50.8	4.63	55.7	49.9	5.13	52.85	51.89	5.71	50.05	49.15	6.39
	80	67	68.6	41.5	3.87	65.8	41.2	4.26	62.9	41.8	4.70	59.8	41.1	5.20	56.70	40.52	5.78	53.39	38.47	6.46
	80	72	75.1	31.7	3.96	72.0	31.6	4.35	68.9	32.2	4.80	65.6	31.6	5.30	62.16	31.18	5.89	58.42	31.99	6.56
	75	62	62.9	42.4	3.79	60.4	42.0	4.18	57.7	42.3	4.62	55.0	41.4	5.12	52.09	38.36	5.70	49.02	41.09	6.37
2000	80	62	64.9	54.9	3.90	62.4	55.9	4.29	59.8	54.6	4.73	57.1	53.8	5.24	54.54	52.70	5.82	51.76	51.32	6.50
	80	67	69.8	44.7	3.96	67.0	45.9	4.35	64.0	44.8	4.79	60.9	44.3	5.30	57.66	44.36	5.88	54.21	44.34	6.55
	80	72	76.5	33.6	4.05	73.3	35.1	4.45	70.0	34.1	4.89	66.5	33.8	5.40	62.92	34.11	5.99	59.13	34.38	6.65
	75	62	64.2	45.3	3.89	61.7	46.3	4.28	59.0	45.2	4.71	56.1	44.7	5.22	53.10	44.54	5.80	49.92	44.36	6.47
2250	80	62	66.3	59.3	3.99	63.8	59.3	4.38	61.4	57.2	4.83	58.8	55.8	5.34	56.05	54.16	5.93	53.13	52.90	6.61
	80	67	70.9	48.2	4.05	68.0	48.7	4.45	64.9	47.6	4.89	61.7	47.4	5.39	58.37	47.12	5.98	54.86	47.31	6.64
	80	72	77.4	36.2	4.15	74.1	37.0	4.54	70.8	36.0	4.99	67.1	36.0	5.49	63.39	35.96	6.08	59.43	36.46	6.74
	75	62	65.4	48.8	3.98	62.7	49.2	4.37	59.8	48.0	4.81	56.9	47.7	5.31	53.82	47.26	5.89	50.58	47.24	6.56



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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