

# High Efficiency Residential Air Conditioners

## PERFORMANCE:

- Efficiency rating of 10.0 and 12.0 SEER
- Cooling capacities 1 1/2 to 5 tons
- Rated in accordance with U.S. D.O.E. test standards

## FEATURES:

- Quiet top air discharge
- G-90 galvanized steel exterior cabinet with 1,000-hour salt spray powder-coated finish
- Long-life copper tubes, aluminum fin refrigerant coils
- State-of-the-art compressors
- Powder-coated fan guard and full metal louvered coil guard for hail protection
- Large wrap-around coil surface
- Control box located for easy access to electrical controls
- Formed base with 2 1/2" ground clearance
- Factory installed liquid line filter dryer

*Supreme summertime satisfaction from*



**ECR International**



# C10 High Efficiency Series

## MODEL SPECIFICATIONS

MODEL NUMBER	C1018BBD1	C1024BBD1	C1030BBD1	C1036BBD1	C1042BBD1	C1048BBD1	C1060CBD1
<b>PERFORMANCE DATA</b>							
NOMINAL COOLING BTU/H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
SEER BTU/H-W	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CFM	600	840	1,000	1,200	1,300	1,550	1,750
VOLTS/HZ/PHASE	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
VOLTAGE RANGE	197-253	197-253	197-253	197-253	197-253	197-253	197-253
OPERATING CURRENT AMPS ❶	9.8	10.8	11.4	17.0	20.7	26.7	29.2
MIN. WIRE AMPACITY	13.0	14.5	20.0	21.7	26.4	31.8	36.0
MAX. HACR BREAKER ❷	20	20	30	30	35	50	60
<b>COMPRESSOR DATA</b>							
RLA	8.8	9.8	11.4	15.2	18.5	24.5	27.0
LRA	49	60	75	96	103	137	150
<b>FAN DATA</b>							
DIAMETER	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 4 BLADE	18 INCH / 4 BLADE	22 INCH / 3 BLADE
MOTOR TYPE	PSC	PSC	PSC	PSC	PSC	PSC	PSC
HP (W) / FLA	1/6 / 1.0	1/6 / 1.0	1/6 / 1.0	1/6 / 1.0	1/5 / 1.4	1/5 / 1.4	1/4 / 2.2
RPM	1,075	1,075	1,075	1,075	1,075	1,075	1,075
CFM	1,800	1,800	1,800	1,800	2,400	2,400	3,400
<b>OUTDOOR COIL</b>							
TYPE	ENHANCED ALUMINUM PLATE FIN / RIFLED COPPER TUBE						
FACE AREA	8.0	8.0	8.0	9.8	12.0	12.0	18.3
FPI. / ROWS	5/16 / 18-1	5/16 / 18-1	3/8 / 22-1	3/8 / 18-1	3/8 / 18-1	3/8 / 22-1	3/8 / 18-1
<b>REFRIGERANT LINE CONNECTIONS</b>							
LIQUID V MODELS	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID
VAPOR V MODELS	3/4 ID	3/4 ID	3/4 ID	3/4 ID	7/8 ID	7/8 ID	1-1/8 ID
REFRIGERANT CHARGE R-22 (OZ) V MODELS ❸	60	56	63	85	92	97	115
<b>WEIGHTS</b>							
NET WEIGHT – lbs.	119	119	128	139	148	150	201
SHIPPING WEIGHT – lbs.	125	125	134	146	156	158	210

## COOLING PERFORMANCE DATA

BASIC OUTDOOR UNIT MODEL*	BASIC INDOOR COIL MODEL*	A.R.I. CERTIFIED RATINGS			COOLING DATA AT EXTENDED OUTDOOR AMBIENTS °F.M.B.T.U.H.							
		BTU/H	SEER	CFM	80	85	90	95	100	105	110	115
C1018BBD1	E3009A53	18,000	10.00	600	20,200	19,700	19,100	18,500	17,600	16,800	15,900	15,000
C1024BBD1	E3009A59	22,400	10.00	800	25,000	24,200	23,300	22,500	21,400	20,400	19,300	18,200
C1030BBD1	E3009A63	28,600	10.00	1,000	31,300	30,500	29,800	29,000	28,000	27,000	26,000	25,000
	E3612A63	30,000	10.00	1,000	32,400	31,600	30,800	30,000	29,100	28,200	27,300	26,400
C1036BBD1	E3612A72	34,000	10.00	1,200	38,400	37,000	35,500	34,000	32,400	30,700	29,100	27,500
C1042BBD1	E4824A78	40,000	10.00	1,300	43,000	42,000	41,000	40,000	38,500	37,000	35,500	34,000
C1048BBD1	E5445A84	47,000	10.00	1,400	50,500	49,400	48,200	47,000	45,400	43,900	42,300	40,700
	E4814A84	46,000	10.00	1,550	48,800	47,800	46,900	46,000	44,400	42,700	41,100	39,500
	E6016A84	47,000	10.00	1,550	50,800	49,500	48,300	47,000	45,400	43,900	42,400	40,700
C1060CBD1	E6037A98	57,000	10.00	1,750	59,900	59,000	58,000	57,000	55,000	53,000	50,900	48,900

FOOTNOTES: ❶ Amps at 104°F outdoor temp. 80°F DB / 67°F WB indoor temp. ❷ Time delay type fuse for HACR Circuit Breaker. ❸ Model refrigerant charge for condensing unit, matching evaporator coil and 25' of connecting line set. \*Basic model number only. See unit nomenclature on the back page for exact model number. For indoor coils nomenclature see indoor coil specification sheet.



U.L. & U.C.L.  
certified



Rated in accordance with ARI Standard 210/240. Certification applies only when used with proper components as listed with ARI.



# C12 High Efficiency Series

## MODEL SPECIFICATIONS

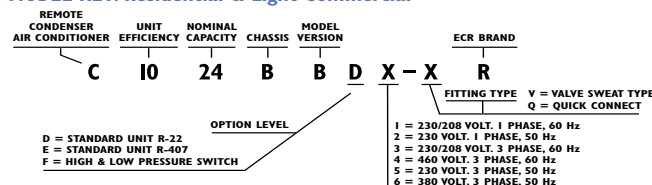
MODEL NUMBER	C1218BBDI	C1224BBDI	C1230BBDI	C1236BBDI	C1242CBDI	C1248CBDI	C1260CBDI
<b>PERFORMANCE DATA</b>							
NOMINAL COOLING BTU/H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
SEER BTU/H-W	12.0	12.0	12.0	12.0	12.0	12.0	12.0
CFM	650	840	1,000	1,150	1,350	1,550	1,850
VOLTS/HZ/PHASE	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
VOLTAGE RANGE	197-253	197-253	197-253	197-253	197-253	197-253	197-253
OPERATING CURRENT AMPS ❶	8.8	10.6	12.5	17.9	19.2	21.9	27.2
MIN. WIRE AMPACITY	10.5	15.2	19.7	23.3	24	27	34
MAX. HACR BREAKER ❷	15	20	25	35	40	40	50
<b>COMPRESSOR DATA</b>							
RLA	7.8	9.6	11.5	16.1	17.0	19.7	25.0
LRA	47	56	73	88	104	137	148
<b>FAN DATA</b>							
DIAMETER	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 4 BLADE	22 INCH / 3 BLADE	22 INCH / 3 BLADE	22 INCH / 3 BLADE
MOTOR TYPE	PSC	PSC	PSC	PSC	PSC	PSC	PSC
HP (W) / FLA	1/6 / 1.0	1/6 / 1.0	1/6 / 1.0	1/5 / 1.4	1/4 / 2.2	1/4 / 2.2	1/4 / 2.2
RPM	1,075	1,075	1,075	1,075	1,075	1,075	1,075
CFM	1,800	1,800	1,800	2,400	3,400	3,400	3,400
<b>OUTDOOR COIL</b>							
TYPE	ENHANCED ALUMINUM PLATE FIN / RIFLED COPPER TUBE						
FACE AREA	8.1	9.8	12.0	12.0	18.3	18.3	22.0
FPI. / ROWS	5/16 / 22-1	5/16 / 18-1	3/8 / 18-1	3/8 / 18-1	3/8 / 18-1	3/8 / 18-1	3/8 / 18-1
<b>REFRIGERANT LINE CONNECTIONS</b>							
LIQUID V MODELS	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID	3/8 ID
VAPOR V MODELS	3/4 ID	3/4 ID	3/4 ID	3/4 ID	7/8 ID	7/8 ID	1-1/8 ID
REFRIGERANT CHARGE R-22 (OZ) V MODELS ❸	65	60	78	109	96	134	143
<b>WEIGHTS</b>							
NET WEIGHT – lbs.	117	139	146	148	169	189	214
SHIPPING WEIGHT – lbs.	123	146	155	156	177	198	222

## COOLING PERFORMANCE DATA

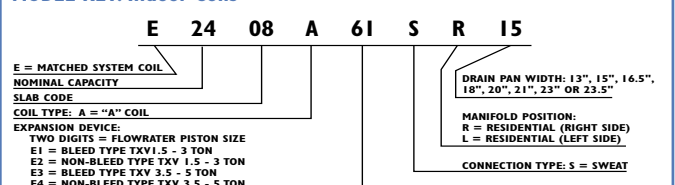
BASIC OUTDOOR UNIT MODEL*	BASIC INDOOR COIL MODEL*	A.R.I. CERTIFIED RATINGS			COOLING DATA AT EXTENDING OUTDOOR AMBIENTS °F.M.B.T.U.H.							
		BTU/H	SEER ❹	CFM	80	85	90	95	100	105	110	115
C1218BBDI	E3009A55	19,000	12.00	600	20,500	20,200	19,600	19,000	18,500	18,000	17,400	16,900
C1224BBDI	E3612A65	23,000	12.00	800	25,400	24,600	23,800	23,000	22,000	20,900	19,900	18,800
C1230BBDI	E3612A70	29,600	12.00	1,000	32,100	31,200	30,400	29,500	28,400	27,400	26,300	25,200
	E4215A70	29,600	12.00	1,000	32,200	31,300	30,500	29,600	28,500	27,500	26,400	25,300
C1236BBDI	E4215AE2	34,000	12.00	1,150	35,100	34,800	34,400	34,000	32,600	31,100	29,700	28,200
	E4814A76	35,400	12.00	1,150	36,700	36,300	35,900	35,500	34,100	32,600	31,200	29,700
C1242CBDI	E4824A82	42,000	12.00	1,350	43,300	42,900	42,400	42,000	41,000	40,000	39,000	38,000
C1248CBDI	E6037A90	48,000	12.00	1,450	50,800	49,800	48,900	48,000	47,100	46,300	45,400	44,500
	E6026A90	47,500	12.00	1,450	50,300	49,300	48,400	47,500	46,600	45,800	44,900	44,000
C1260CBDI	E6038A01	56,500	12.00	1,850	60,100	58,900	57,700	56,500	55,300	54,100	52,900	51,800

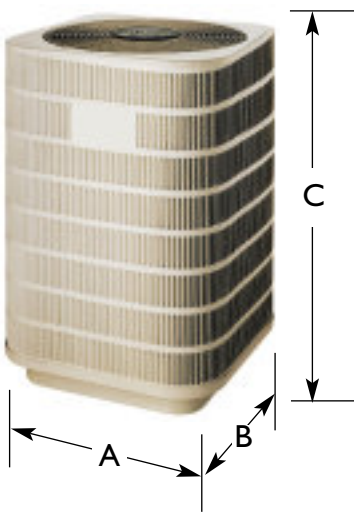
FOOTNOTES: ❶ Amps at 104°F outdoor temp. 80°F DB / 67°F WVB indoor temp. ❷ Time delay type fuse for HACR Circuit Breaker. ❸ Model refrigerant charge for condensing unit, matching evaporator coil and 25' of connecting line set. ❹ Requires time delay relay to obtain SEER rating. \*Basic model number only. See unit nomenclature on the back page for exact model number. For indoor coils nomenclature see indoor coil specification sheet.

### MODEL KEY: Residential & Light Commercial



### MODEL KEY: Indoor Coils

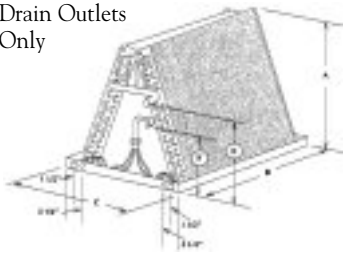




## CONDENSER DIMENSIONS (INCHES)

MODEL	UNIT			SHIPPING		
	A	B	C	A	B	C
C1018BBDI, C1024BBDI	21-1/2	21-1/2	22-1/2	23-1/2	23-1/2	23
C1030BBDI	21-1/2	21-1/2	22-1/2	23-1/2	23-1/2	23
C1036BBDI	21-1/2	21-1/2	26-1/2	23-1/2	23-1/2	27
C1042BBDI	21-1/2	21-1/2	32-1/2	23-1/2	23-1/2	33
C1048BBDI	21-1/2	21-1/2	32-1/2	23-1/2	23-1/2	33
C1060CBDI	29-1/2	29-1/2	32-1/2	31-1/2	31-1/2	33
C1218BBDI	21-1/2	21-1/2	22-1/2	23-1/2	23-1/2	23
C1224BBDI	21-1/2	21-1/2	26-1/2	23-1/2	23-1/2	27
C1230BBDI	21-1/2	21-1/2	32-1/2	23-1/2	23-1/2	33
C1236BBDI	21-1/2	21-1/2	32-1/2	23-1/2	23-1/2	33
C1242CBDI	29-1/2	29-1/2	32-1/2	31-1/2	31-1/2	33
C1248CBDI	29-1/2	29-1/2	32-1/2	31-1/2	31-1/2	33
C1260CBDI	29-1/2	29-1/2	38-1/2	31-1/2	31-1/2	39

Right Hand  
Drain Outlets  
Only



## TYPICAL COIL DIMENSIONS\* (INCHES)

INDOOR COIL MODEL NO.	A	B	C	D	E	F	DRAIN FITTING PRIM. / SEC	
E3009	12	19-1/2	16-1/2	1-1/2	8	3	3/4 F.T.P.	1/2 F.T.P.
E3612	17-1/2	19-1/2	16-1/2	1-1/2	14-1/4	8-1/2	3/4 F.T.P.	1/2 F.T.P.
E4824	18	19-1/2	20	1-1/2	14	7-1/2	3/4 F.T.P.	1/2 F.T.P.
E6016	22	19-1/2	20	1-1/2	13-5/8	9-1/4	3/4 F.T.P.	1/2 F.T.P.
E6037	21-1/2	23	21	1-1/2	14-1/4	8-1/4	3/4 F.T.P.	1/2 F.T.P.
E6038	24	23	21	1-1/2	11-3/4	7	3/4 F.T.P.	1/2 F.T.P.

**D = MANIFOLD TO PAN E = SUCTION HEIGHT F = LIQUID HEIGHT**

Indoor coil surfaces constructed of rifled tubing and enhanced aluminum plate fin. All coils are equipped with a piston type refrigerant control device and high temperature, durable nylon drain pans.



The "A" series Air Handler is designed to be matched with the C10 or C12 Series for performance and quiet operation.

## COOLING PERFORMANCE DATA MATCHING AIR HANDLER

OUTDOOR UNIT MODEL*	AIR HANDLER	RATINGS AT STANDARD CONDITIONS			COOLING DATA AT EXTENDED OUTDOOR AMBIENTS °F.M.B.T.U.H.								
		BTUH	SEER <sub>9</sub>	CFM		80	85	90	95	100	105	110	115
C1018BBDI	A24BI	18,000	10	600	TOTAL	20,200	19,700	19,100	18,000	17,600	16,800	15,900	15,000
C1024BBDI	A24BI	22,400	10	840	TOTAL	25,500	24,700	23,800	22,400	22,200	21,500	20,700	19,900
C1030BBDI	A36BI	28,600	10	1,000	TOTAL	31,300	30,500	29,800	28,600	28,000	27,000	26,000	25,000
C1036BBDI	A36BI	34,000	10	1,200	TOTAL	36,400	36,000	35,500	34,000	32,400	30,700	29,100	27,500
C1042BBDI	A42BI	40,000	10	1,300	TOTAL	43,000	42,000	41,000	40,000	38,500	37,000	35,500	34,000
C1048BBDI	A48BI	46,000	10	1,500	TOTAL	49,700	48,500	47,300	46,000	44,400	43,000	41,500	39,800
C1060CBDI	A60BI	56,000	10	1,750	TOTAL	58,800	57,900	56,900	56,000	54,000	52,000	50,000	48,000
C1218BBDI	A24BI	19,000	12	650	TOTAL	20,500	20,200	19,600	19,000	18,500	18,000	17,400	16,900
C1224BBDI	A36BI	23,000	12	840	TOTAL	25,400	24,600	23,800	23,000	22,000	20,900	19,900	18,800
C1230BBDI	A36BI	30,000	12	1,000	TOTAL	32,200	31,300	30,500	30,000	28,500	27,500	26,400	25,300
C1236BBDI	A36BI	35,400	12	1,150	TOTAL	36,700	36,300	35,900	35,400	34,100	32,600	31,200	29,700
C1242CBDI	A48BI	42,000	12	1,350	TOTAL	43,300	42,900	42,400	42,000	41,000	40,000	39,000	38,000
C1248CBDI	A48BI	46,000	12	1,550	TOTAL	49,700	48,500	47,300	46,000	44,400	43,000	41,500	39,800
C1260CBDI	A60BI	56,500	12	1,850	TOTAL	60,100	58,900	57,700	56,500	55,300	54,100	52,900	51,800



**ECR International**

**Olsen Airco**  
Heating & Cooling Products

**Oneida Royal**  
QUALITY FURNACES SINCE 1822

Oneida Royal brand is only available in the USA.

In Canada contact:

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Wallaceburg, Ontario, Canada N8A 5E5  
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<b>ECR International</b> 85 Middle Rd. Dunkirk, NY 14048 Tel: (716) 366-5500 or (877) 386-5475 Fax: (716) 366-1209	<b>ECR International</b> 2201 Dwyer Ave. Utica, NY 13504 Tel: (315) 797-1310 or (800) 325-5479 Fax: (315) 724-9319
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