



Domestic Commercial Products

38AUZ/D – 50 Hz COMMERCIAL SPLIT SYSTEMS CONDENSING UNITS 18.3 kW TO 59.2 kW

Carrier Corporation • Syracuse, N.Y. 13221
SUBJECT TO CHANGE WITHOUT NOTICE

F.O.B. SHIPPING POINT
FREIGHT AS PER D.O.M.

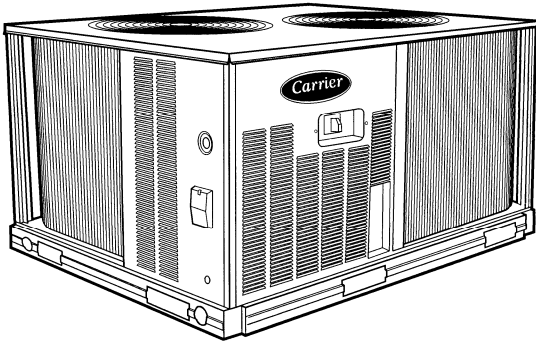
COMMERCIAL SPLIT SYSTEMS

38AUZ 18.3 and 23.2 kW

38AUD 29.1, 35.2, 45.8, and 59.2 kW

AIR-COOLED CONDENSING UNITS with PURON® REFRIGERANT

These commercial quality air-cooled condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.



Certified to ISO 9001



BASE UNIT STANDARD FEATURES:

- Puron® (R-410A) HFC refrigerant partial charge
- Single-stage cooling capacity control on 07 and 08 models
- Two-stage cooling capacity control on 12 to 25 models
- All 07-16 models utilize aluminum Novation™ Heat Exchanger Technology Condenser Coils. 25 size utilizes copper tube aluminum fin design coils
- Cooling operating range up to (52 C) 125 F and down to (2 C) 35 F
- Brass suction and liquid line service valves
- Fully Hermetic Scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- High and low pressure switches.
- Comfort Alert™ Diagnostic Board:
 - LED Go-No-Go and fault code
 - Built in time guard anti-short cycle
 - Phase protection
 - Fault code retention logic
 - Low voltage compressor contactor protector
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Direct drive permanently lubricated condenser fan motors
- Tested in accordance with AHRI 340/360
- Compressors mounted on independent vibration isolators
- Designated in accordance with Underwriters Laboratories Standard 1995.



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MODEL NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16
3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A

38AU
Commercial Air Cooled Condensing
Unit PURON Refrigerant

Z = Single Circuit
D = Dual Circuit

Refrigeration Options
A = Standard
B = Low Ambient Controls

07 = 18.3 kW (5 Ton)	16 = 45.8 kW (12.5 Ton)
08 = 23.2 kW (6 Ton)	25 = 59.2 kW (15 Ton)
12 = 29.1 kW (7.5 Ton)	
14 = 35.2 kW (10 Ton)	

Factory Assigned
A = Default

Factory Assigned
0 = Default

Coil Options (Condenser) All except 25 size G = A/AI Standard K = E-Coated A/AI T = A/AI with Louvered Hail Guard W = E-Coated A/AI with Louvered Hail Guard	Coil Options (Condenser) Only 25 size A = A/Cu Standard B = Pre Coated A/Cu C = E-Coated A/Cu M = A/Cu Standard with Louvered Hail Guard N = Pre Coated A/Cu with Louvered Hail Guard P = E-Coated A/Cu with Louvered Hail Guard
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Voltage Code
9 = 400-3-50

Design Rev.
- = Factory Assigned

Base Unit Controls
0 = Standard Electrical Mechanical Controls

Factory Assigned
A = Default

Factory Assigned
0 = None

Electrical Options
A = None
C = Non-Fused Disconnect

Packaging
0 = Standard
1 = LTL



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SINGLE CIRCUIT (38AUZ) AIR-COOLED CONDENSING UNITS

ORDERING NUMBER	VOLTAGE	APPROX. SHIPPING WT (kg.)	APPROX. SHIPPING WT (lbs)
38AUZA07A0G9	400-3-50	149	328
38AUZA08A0G9	400-3-50	160	353

TWO CIRCUIT (38AUD) AIR-COOLED CONDENSING UNITS

ORDERING NUMBER	VOLTAGE	APPROX. SHIPPING WT (kg.)	APPROX. SHIPPING WT. kg. (lbs)
38AUDA12A0G9	400-3-50	226	499
38AUDA14A0G9	400-3-50	229	505
38AUDA16A0G9	400-3-50	287	633
38AUDA25A0A9	400-3-50	408	900



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FACTORY-INSTALLED OPTIONS

POSITION 6 – REFRIGERANT OPTIONS

	3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0
POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POSITION 6

REFRIGERANT OPTIONS

6 TH DIGIT ORDER CODE	DESCRIPTION	VOLTAGE
A	Standard	All
B	Low Ambient Controls	400-3-50

Note: Low Ambient Controller = MotorMaster I provides operation down to (-29°C) -20°F



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FACTORY-INSTALLED OPTIONS (cont) POSITION 11 – CONDENSER COIL OPTIONS

3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POSITION 11

CONDENSER COIL OPTIONS

COIL COATING APPLICATION

Coil Description	Environment					
	Standard Non-Corrosive	Mild Coastal	Moderate Coastal	Severe Coastal	Industrial	Industrial & Coastal
Alum Fin / Alum Tube	X					
E-Coated Al / Al		X	X	X	X	X

NOTE – E-Coat is only available and must be used in any non-standard environment listed above.

MODELS WITH AI/AI NOVATION COILS (07 To 16 Models Only)

11 TH DIGIT ORDER CODE	CONDENSER COIL (FINS/TUBE)	COIL COATING	LOUVERED HAIL GUARDS
G	AI/AI	N/A	N/A
T	AI/AI	N/A	Louvered
K	AI/AI	E-Coat	N/A
W	AI/AI	E-Coat	Louvered

AI / AI Condenser Coil - NOVATION™ heat exchanger technology design



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FACTORY-INSTALLED OPTIONS (cont)

COIL COATING APPLICATION (25 Model Only)

Enviro-Shield™ Description	Environment					
	Standard Non-Corrosive	Mild Coastal	Moderate Coastal	Severe Coastal	Industrial	Industrial & Coastal
Alum Fin / Cu Tube	X					
Pre-Coated Al / Cu		X				
E-Coated Al / Cu		X	X	X	X	X

MODELS WITH Al/Cu COILS (25 Model Only)

11 TH DIGIT ORDER CODE	CONDENSER COIL (FINS/TUBE)	COIL COATING	LOUVERED HAIL GUARDS
A	Al/Cu	N/A	N/A
B	Al/Cu	Pre Coat	N/A
C	Al/Cu	E-Coat	N/A
M	Al/Cu	N/A	Louvered
N	Al/Cu	Pre Coat	Louvered
P	Al/Cu	E-Coat	Louvered



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FACTORY-INSTALLED OPTIONS (cont)

POSITION 14 – CONTROL OPTIONS

	3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0
POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POSITION 14

CONTROL OPTIONS

14 TH DIGIT ORDER CODE	DESCRIPTION
0	Standard Electrical Mechanical Controls

Note: Contact Application engineering for any PremierLink applications

POSITION 17 – ELECTRICAL OPTIONS

	3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0
POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POSITION 17

ELECTRICAL OPTIONS

17 TH DIGIT ORDER CODE	DESCRIPTION
A	None
C	Non-Fused Disconnect ²

² Non-fused disconnect switch cannot be used when unit MOCP electrical rating exceeds 80 amps.



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FACTORY-INSTALLED OPTIONS (cont)

POSITION 18 – PACKAGING

3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

**POSITION 18
PACKAGING**

18 TH DIGIT ORDER CODE	DESCRIPTION
0	Standard
1	LTL ¹

¹ LTL Packaging Option includes full corrugated sleeve wrapped around perimeter of unit and full corrugated top cover.



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FIELD-INSTALLED ACCESSORIES LOW AMBIENT CONTROLS

ORDERING NUMBER	DESCRIPTION	USED ON
CALOWAMB002A00	Motormaster I Combination Kit enables cooling operation down to -20F. Includes: Solid-State Variable Speed Motor Controller, Outdoor Motor, Bracket, Instructions, Wire Ties and time delay relay for timed bypass of low pressure switch on startup.	38AUZ 07-08 400-3-50
CALOWAMB011A00	Motormaster I Combination Kit enables cooling operation down to -20F. Includes: Solid-State Variable Speed Motor Controller, Outdoor Motor, Bracket, Instructions, Wire Ties and time delay relay for timed bypass of low pressure switch on startup.	38AUD 12-14 400-3-50
CALOWAMB016A00	Motormaster I Combination Kit enables cooling operation down to -20F. Includes: Solid-State Variable Speed Motor Controller, Outdoor Motor, Bracket, Instructions, Wire Ties and time delay relay for timed bypass of low pressure switch on startup.	38AUD 16 400-3-50
CALOWAMB022A00	Motormaster I Combination Kit enables cooling operation down to -20F. Includes: Solid-State Variable Speed Motor Controller, Outdoor Motor, Bracket, Instructions, Wire Ties and time delay relay for timed bypass of low pressure switch on startup.	38AUD 25 400-3-50

Please refer to the Application Data section in the Product Data for standard minimum outdoor air operating temperature. Field fabricated and installed wind baffles are recommended for Motormaster® Low Ambient Control applications. Refer to the Installation Instructions for the Motormaster Low Ambient Control accessory for details of wind baffle dimensions.



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FIELD-INSTALLED ACCESSORIES (cont)

REFRIGERANT SPECIALTIES - LIQUID LINE SOLENOID VALVES (LLSV) †

ORDERING NUMBER	DESCRIPTION	USED ON
EF680033	Liquid Line Solenoid Valve	All Liquid Lines 9.7 mm (3/8 inch)
EF680035	Liquid Line Solenoid Valve	All Liquid Lines 13 mm (1/2 inch)
EF680036	Liquid Line Solenoid Valve	All Liquid Lines 16 mm (5/8 inch)
EF680037	Liquid Line Solenoid Valve	All LLSVs listed.

Notes:

- Contact Application Engineering for refrigerant line lengths greater than 100 ft.
- † LLSV must be installed at the INDOOR unit.
- * RCD List Price - Subject to change on a quarterly basis and should be verified with RCD prior to quoting.

REFRIGERANT SPECIALTIES - FILTER DRIERS

ORDERING NUMBER	DESCRIPTION	USED ON
KH43LG091	Filter Drier	All Liquid Lines 9.7 mm (3/8 inch)
KH43LG085	Filter drier	All Liquid Lines 13 mm (1/2 inch)
KH43LG087	Filter drier	All Liquid Lines 16 mm (5/8 inch)

Please refer to the Application Data section in the Product Data for refrigerant pipe sizing. A liquid line filter drier is recommended for all commercial split systems.

L - Liquid Line

- * RCD List Price - Subject to change on a quarterly basis and should be verified with RCD prior to quoting.



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FIELD-INSTALLED ACCESSORIES (cont)

REFRIGERANT SPECIALTIES - SIGHT GLASSES

ORDERING NUMBER	DESCRIPTION	USED ON
KM680008	Sight Glass	All Liquid Lines 9.7 mm (3/8 inch)
KM680004	Sight Glass	All Liquid Lines 13 mm (1/2 inch)
KM680005	Sight Glass	All Liquid Lines 16 mm (5/8 inch)

Please refer to the Application Data section in the Product Data for refrigerant pipe sizing. A sight glass is recommended for all commercial split systems.

L - Liquid Line

* RCD List Price - Subject to change on a quarterly basis and should be verified with RCD prior to quoting.

LOUVERED HAIL GUARDS – CONDENSER COIL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CALVHLGD001A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	07 Models
CALVHLGD002A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	08 Models
CALVHLGD003A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	12 Models
CALVHLGD004A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	14 Models
CALVHLGD007A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	16 Models
CALVHLGD009A00	Louvered Condenser Coil Hail Guard -- Includes louvered panel(s) to protect condenser coil from damage and vandalism	25 Models

WIRED GUARDS – CONDENSER COIL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CAGRILLE006A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	07 Models
CAGRILLE007A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	08 Models
CAGRILLE008A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	12 Models
CAGRILLE009A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	14 Models



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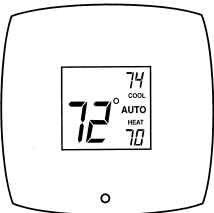
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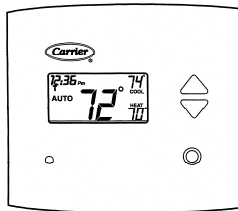
FIELD-INSTALLED ACCESSORIES (cont)

COMMERCIAL NON-COMMUNICATING THERMOSTATS

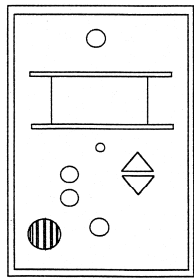
FEATURE HIGHLIGHTS:



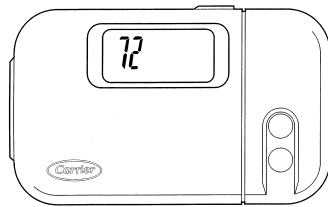
Debonair2



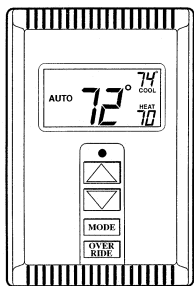
Debonair Slimline



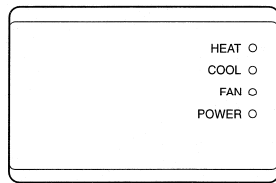
Debonair FlatStat



Corporate Stat



Debonair Wireless Thermostat



- 1-For-All design - 4/5 wire - heat pump, G/E, electric heat, hydronics
- Security keypad lockout and configurable access levels
- Large, easy-to-read Thermoglow display, easy to program
- 4 hour setback override, adjustable increments
- Autochangeover, 2 & 3 stage heat/2 stage cool
- Debonair2 and Flat thermostats include ExactFit tamper-proof locking cover, with regular and tamper-proof screws
- No mercury, no batteries (except wireless)
- Bright-white color and handsome designs
- Temperature calibration, adjustable timeguards, deadband and temperature difference
- Programmable stats meet California Commercial Title 24
- Auxiliary relay - signal to economizer
- External input to interface w/other building systems
- Heat/Cool Lockout
- Remote sensing
- Sensor average up to 16 remote room sensors
- Wireless and light-activated control
- Softstart up to 99 units
- 99 consecutive days Holiday schedule

THERMOSTATS

ORDERING NUMBER	STYLE	DESCRIPTION	SENSORS
33CSSN2-WC	Debonair2	Debonair Std. Non-Prog., 2 stg. ht/cl, G/E & HP (w/ExactFit Locking Cover).	None
33CSSP2-WC	Debonair2	Debonair Std. Prog., 2 stg ht/cl, G/E & HP (w/ExactFit Locking Cover).	None
33CS400-01	Slimline	Debonair 400 - Non-Programmable, 2-stage Heat/Cool, HP or G/E, Manual Changeover, 3 configurable outputs, remote contact input, Remote Sensor Capable.	Remote, Duct, Outdoor
33CS420-01	Slimline	Debonair 420 - 7-Day Programmable/Non-Prog. 3-stage Heat/2-stage Cool, HP or G/E, Manual/Auto-Changeover, Low/Hi outdoor Temp.	Outdoor
33CS450-01	Slimline	Debonair 450 - Premier 7-Day Programmable/Non-Prog., 3-stage Heat/2-stage Cool, HP or G/E, Remote Contact Input, Remote Sensor Capability, Pre-Occupancy Purge, Soft Start, Manual/Auto-Changeover, Economizer Output Signal, Reheat Capable, Low/Hi Outdoor Temp, Light Activated.	Remote, Duct, Outdoor



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FIELD-INSTALLED ACCESSORIES (cont)

ORDERING NUMBER	STYLE	DESCRIPTION	SENSORS
33CS220-FS	Flat	Debonair 7-Day Programmable, 2 stg ht/cl, HP, G/E, Auto-Changeover w/ExactFit locking cover - fits standard 2x4 Junction Box.	None
33CS250-FS	Flat	Debonair 7-Day Programmable, 2 stg ht/cl, G/E, HP, Auto-Changeover, w/ExactFit Locking Cover - fits standard 2x4 Junction Box - remote Sensor Capable, Pre-occ. Purge and Soft Start.	Remote, Duct
33CS250-RC	Wireless	Debonair 250 Wireless Thermostat, 7-Day Programmable, 2-stage Heat/Cool, HP or G/E, Pre-Occupancy Purge and Auto-Changeover.	None
33CS250-RE	Wireless	Debonair 250 Wireless Receiver - Must be used with Part No. 33CS250-RC.	None

THERMOSTAT ACCESSORIES

ORDERING NUMBER	DESCRIPTION	FITS MODE
33CSSEN-WB	Remote Room Sensor with Push Button Override, Used on 33CS450-01 and 33CS400-01	33CS400-01, 33CS450-01, 33CS250-FS
33CSSEN-01	Remote Room Sensor without override. Outside Air Temperature Sensor for the 33CS400-01 & 33CS450-01.	33CS400-01, 33CS450-01, 33CS250-FS
33CSSEN-DS	Duct Temperature Sensor	33CS400-01, 33CS450-01, 33CS250-FS
33CSRFS-1RC	Wireless Remote Room Sensor Transmitter - Can use up to 8 in any combination - provides Sensor Averaging capability; use with 33CSRFS-1RE	33CS400-01, 33CS450-01, 33CS250-FS
33CSRFS-1RE	Wireless Remote Room Sensor Receiver; use with 33CSRFS-1RC	33CS400-01, 33CS450-01, 33CS250-FS
33CSACC-BP	Decorator Backplates for Debonair (package of 2 - 2 sizes)	33CS400-01, 33CS420-01, 33CS450-01
33CSDOR-SS	FlatStat stainless steel door/cover for schools	33CS220-FS, 33CS250-FS
33CSDOR-FS	Replacement Doors	33CS220-FS, 33CS250-FS
33CSDOR-D2	Replacement Doors	33CSSN2/SP2-WC
ZONECC0RRS01	Remote Room Sensor	33CS2PP2S-01, 22CS2PPRH-01
TSTATXXSEN01-B	Outdoor Temperature Sensor	33CS2PP2S-01, 22CS2PPRH-01
33CSACC-AW	Add a Wire	Any 24 VAC stat with more than 2 wires
33CSACC-AZ	Add a SubZone	Any 24 VAC thermostat, and Comfort Zone Damper
33CSACC-DR	Replacement Doors	33C400-01, 33CS420-01, 33CS450-01