Библиотека СОК

Domestic
Commercial Products

38AUZ/D – 50 Hz

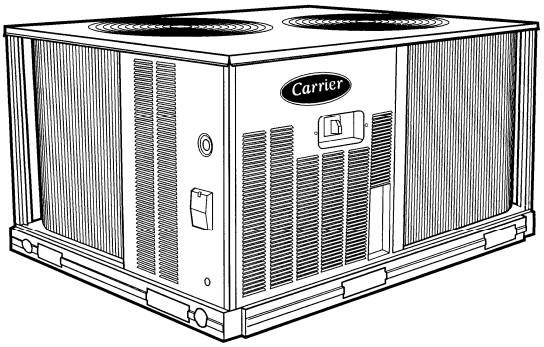
COMMERCIAL SPLIT SYSTEMS
CONDENSING UNITS
18.3 kW TO 59.2 kW

Carrier Corporation • Syracuse, N.Y. 13221
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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

ASHRAE 90.1 COMPLIANT

Gemini

Puron
the environmentally sound refrigerant

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	16
3	8	A	U	Z	A	0	7	A	0	G	9	-	0	A	0	A	0

38AU
Commercial Air Cooled Condensing Unit PURON Refrigerant

Z = Single Circuit
D = Dual Circuit

Refrigeration Options
A = Standard
B = Low Ambient Controls

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

Factory Assigned
A = Default

Factory Assigned
0 = Default

Coil Options (Condenser)
All except 25 size
G = Al/Al Standard
K = E-Coated Al/Al
T = Al/Al with Louvered Hail Guard
W = E-Coated Al/Al with Louvered Hail Guard

Coil Options (Condenser)
Only 25 size
A = Al/Cu Standard
B = Pre Coated Al/Cu
C = E-Coated Al/Cu
M = Al/Cu Standard with Louvered Hail Guard
N = Pre Coated Al/Cu with Louvered Hail Guard
P = E-Coated Al/Cu with Louvered Hail Guard

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

6TH 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
POSITION	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 Al/Al NOVATION COILS (07 To 16 Models Only)

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

Al / Al 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)

11TH 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

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

14TH 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

17TH 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
POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POSITION 18

PACKAGING

18TH 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.

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.

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

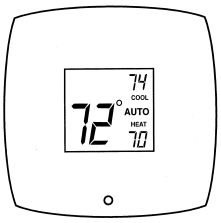
ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CAGRILLE006A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	07 Models
CAGRILLE007A00	Wired Grille - Condenser Coil Guard -- Includes panel(s) to protect condenser coil from larger objects	08 Models
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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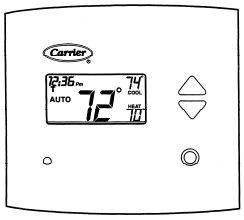
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FIELD-INSTALLED ACCESSORIES (cont)

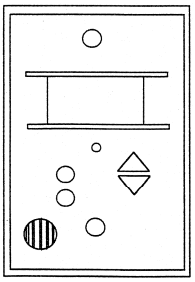
COMMERCIAL NON-COMMUNICATING THERMOSTATS



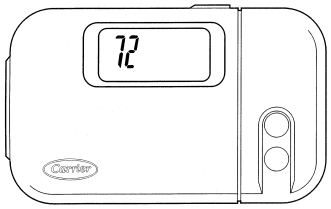
Debonair2



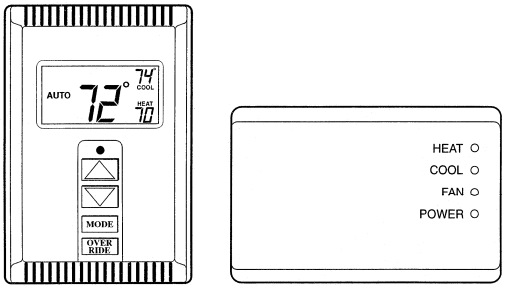
Debonair Slimline



Debonair FlatStat



Corporate Stat



Debonair Wireless Thermostat

FEATURE HIGHLIGHTS:

- 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

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

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