

MULTIPLE SPLIT INDOOR UNIT

FAN COIL

CCA-12 & CCA-18

Standard Features

- ▶ Compact design
- ▶ Quiet operation.
- ▶ Wired wall control or remote control (optional - Part # ARC-1).
- ▶ Reserved hole for fresh air intake.
- ▶ Optional condensate pump.
- ▶ 16-4 stranded interconnecting wire.



Standard



Optional



MODEL NUMBER		CCA-12	CCA-18
Capacity (Btu/h)	Cooling	12000	18000
	Heating	12000	19000
PERFORMANCE			
Air Flow Volume (CFM)		480	700
Noise Level (dB(A))	Hi/Med/Lo	40/34/29	42/33/29
External static pressure (in W.C.)	-	.012	0.281
DIMENSION & WEIGHT			
Indoor Unit	Dim. W*H*D (inch)	27.6 x 25 x 8.3	36.2 x 25 x 8.3
	Packing W*H*D (inch)	36 x 25.8 x 11.4	44.7 x 25.8 x 11.4
	Net/Gross Weight (Lb)	44/55	50.6/63.852.9/66.1
Refrigerant piping (inch)	Liquid	1/4"	1/4"
	Gas	1/2"	1/2"

OUTDOOR UNIT			
C2M021-2			
SINGLE ZONE		DUAL ZONE	
9		9 + 9	
12		9 + 12	12 + 12*
* Wall-Mount Type indoor Unit ONLY.			
C3M031-3B			
SINGLE ZONE		DUAL ZONE**	TRI ZONE**
9		9 + 9	9 + 9 + 9
12		9 + 12	9 + 9 + 12
18*		9 + 18*	12 + 18*
			9 + 12 + 12
** Wall-Mount Type indoor Unit ONLY ** Combine 1 Light Commercial Type Indoor Unit ONLY (Fan Coil, Cassette, Floor Ceiling)			
C4M043-4B			
SINGLE ZONE		DUAL ZONE	
9		9 + 9	12 + 12
12		9 + 12	12 + 18
18		9 + 18	18 + 18
TRI ZONE			
9 + 9 + 9		9 + 12 + 12	12 + 12 + 12
9 + 9 + 12		9 + 12 + 18	12 + 12 + 18
9 + 9 + 18		9 + 18 + 18	12 + 18 + 18
QUAD ZONE			
9 + 9 + 9 + 9		9 + 9 + 12 + 12	9 + 12 + 12 + 18
9 + 9 + 9 + 12		9 + 9 + 12 + 18	12 + 12 + 12 + 12
9 + 9 + 9 + 18		9 + 12 + 12 + 12	

LIGHT COMMERCIAL

• TCA: Cassette

Standard Features

- ▶ Compact design.
- ▶ Quiet operation.
- ▶ 360 Air discharge.
- ▶ Remote control or wired wall control: (optional - Part # AWC-1).
- ▶ Reserved hole for fresh air intake.
- ▶ Integrated condensate pump with 28" head.
- ▶ 2 - Ton unit only for single zone systems.



Optional



Standard



- ▶ 16-4 Stranded Interconnecting Power Supply.
- ▶ 24,000 Btu requires 24-4 stranded and shielded wire for communication signal.

MODEL NUMBER		TCA-12	TCA-18	TCA-24
PERFORMANCE DATA				
Air Flow Volume (CFM)		360	420	780
Noise Level (dB(A))	Hi/Med/Lo	40/37/33	40/37/34	44/42/39
DIMENSION & WEIGHT				
Body Dimension	inch	22.5 x 10 x 22.5	22.5 x 10 x 22.5	33 x 8 x 33
Panel Dimension	inch	25.5 x 2 x 25.5	25.5 x 2 x 25.5	37.4 x 2 x 37.4
Body Net/Gross Weight	Lb	35.3/41.9	39.7/46.3	45.2/52.9
Panel Net/Gross Weight	Lb	5.5/9.9	5.5/9.9	11/17.6
Piping Size (inch)	Liquid	1/4"	1/4"	3/8"
	Gas	1/2"	1/2"	5/8"

• CCA: Fan Coil

Standard Features

- ▶ Compact design.
- ▶ Quiet operation.
- ▶ Wired wall control (standard) or remote control (optional - Part # ARC-1).
- ▶ Reserved hole for fresh air intake.
- ▶ Optional condensate pump.
- ▶ 24,000 Btu/h unit requires 24-4 stranded and shielded for communication signal.



Standard



Optional

MODEL NUMBER		CCA-12	CCA-18	CCA-24
PERFORMANCE DATA				
Air Flow Volume (CFM)		480	700	840
Noise Level (dB(A))	Hi/Med/Lo	40/34/29	42/33/29	43/41/39
External static pressure	in W.C.	0.12	0.28	0.28
DIMENSION & WEIGHT				
Indoor Unit	Dim. (WxDxH) inch	27.6 x 25 x 8.3	36.2 x 25 x 8.3	36.2 x 25 x 10.6
	Pack. (WxDxH) inch	36 x 28.8 x 11.4	44.7 x 5.8 x 11.4	44.7 x 25.8 x 13.8
	Weight - Lb	44/55	50.6/63.8	59.4/68.2
Refrigerant Piping	Liquid - inch	1/4"	1/4"	3/8"
	Gas - inch	1/2"	1/2"	5/8"

Mini-Splits Specs at a Glance

ComfortStar Model No.	Min. Power Supply Wire Size (AWG)	Min. Inter-Connecting Wire Size (AWG)	Breaker Size (A)	Piping Sizes (in)	Max. Allowable Piping Length (ft)	Min. Recommended Piping Length (ft)	Max. Allowable Elevation Difference (ft)	Factory Refrigerant Charge (ft)	Refrigerant Adjustment Factor (oz. per foot)	Drain Pipe Size (in)	SEER	EER	HSPF
ALEGRIA - 16 ~ 18 SEER Cooling Only Single-Zone Wall-Mounted													
CCS009CA	12*3	16*4	25	1/4" 3/8"	33	12	16	16	0.212	3/4"	18	14	N/A
CCS012CA	12*3	16*4	25	1/4" 1/2"	33	12	16	16	0.212	3/4"	18	12.5	N/A
CCS012CD	12*3	16*4	15	1/4" 1/2"	33	12	16	16	0.212	3/4"	18	12.5	N/A
CCS018CD	12*3	16*4	20	3/8" 5/8"	49	12	26	16	0.423	3/4"	18	12.5	N/A
CCS024CD	12*3	16*4	25	3/8" 5/8"	66	12	33	16	0.423	3/4"	16	9	N/A
ALEGRIA - 14.5 ~ 18 SEER Heat Pump Single-Zone Wall-Mounted													
CHP009CA	12*3	16*4	25	1/4" 3/8"	33	12	16	16	0.212	3/4"	18	14	9.6
CHP012CA	12*3	16*4	25	1/4" 1/2"	33	12	16	16	0.212	3/4"	18	12.5	9.6
CHP012CD	12*3	16*4	15	1/4" 1/2"	33	12	16	16	0.212	3/4"	18	12.5	9.3
CHP018CD	12*3	16*4	20	3/8" 5/8"	49	12	26	16	0.423	3/4"	18	12.5	9.6
CHP024CD	12*3	16*4	25	3/8" 5/8"	66	12	33	16	0.423	3/4"	16	9.6	7.8
CHP030CD	10*3	16*4	25	3/8" 5/8"	98	12	49	16	0.423	3/4"	16	10	9.6
CHP036CD	10*3	16*4	30	3/8" 5/8"	98	12	49	16	0.423	3/4"	14.5	8.8	9
ALEGRIA - 15 ~ 16 SEER Light Commercial Indoor Units (Single Zone and Multi Zone)													
Floor-Ceiling (Universal)													
FCA-12	12*3	16*4	N/A	1/4"/1/2"	66	12	26	N/A	0.21	1.00	16	10	8.2
FCA-18	12*3	16*4	N/A	1/4"/1/2"	82	12	33	N/A	0.42	1.00	16	10	8.2
FCA-24	12*3	16*3 / 24*4	N/A	3/8"/5/8"	82	12	33	N/A	0.42	1.00	16	10	8.2
Cassette													
TCA-12	12*3	16*4	N/A	1/4"/1/2"	66	12	26	N/A	0.21	1.00	16	10	8.2
TCA-18	12*3	16*4	N/A	1/4"/1/2"	82	12	33	N/A	0.42	1.00	16	10	8.2
TCA-24	12*3	16*3 / 24*4	N/A	3/8"/5/8"	82	12	33	N/A	0.42	1-1/4"	16	10	8.2
Concealed Fan Coil													
CCA-12	12*3	16*4	N/A	1/4"/1/2"	66	12	26	N/A	0.21	1.00	15	10	8.2
CCA-18	12*3	16*4	N/A	1/4"/1/2"	82	12	33	N/A	0.42	1.00	15	10	8.2
CCA-24	12*3	16*3 / 24*4	N/A	3/8"/5/8"	82	12	33	N/A	0.42	1.00	15	10	8.2
ALEGRIA - 16 SEER Light Commercial Outdoor Unit Single Zone													
CHP012CD(0)	12*3	16*4	15	1/4"/1/2"	66	12	26	25	0.21	N/A	16	10	8.2
CHP018CD(0)	12*3	16*4	20	3/8" 5/8"	82	12	33	25	0.42	N/A	16	10	8.2
CHP024CD-B(0)	12*3	16*3 / 24*4	30	3/8"/5/8"	82	12	33	25	0.42	N/A	16	10	8.2
ALEGRIA - 16 SEER Heat Pump Multi-Zone													
C2M021-2	12*3	16*4	15	1/4" 3/8"	100(50/in-door unit)	12	33	16x2	0.212	3/4"	16	10	8
C3M031-3B	12*3	16*4	30	1/4" 3/8"	150(50/in-door unit)	12	33	16x3	0.212	3/4"	15.6	9.8	8.5
C4M043-4B	10*3	16*4	40	1/4" 3/8"	200(50/in-door unit)	12	33	16x4	0.212	3/4"	16.5	9.2	9
DIAMOND - 18 ~ 23 SEER Heat Pump Single-Zone Wall-Mounted													
CARAT09CD-2B	12*3	16*4	15	1/4" 3/8"	49	12	33	25	0.22	3/4"	23	14	9.8
CARAT12CD-2B	12*3	16*4	15	1/4" 1/2"	65	12	33	25	0.22	3/4"	22	12	9.1
CARAT18CD-2B	12*3	16*4	20	1/4" 1/2"	82	12	33	25	0.22	3/4"	18	12	10
CARAT24CD-2B	12*3	16*4	20	1/4" 5/8"	82	12	33	25	0.5	3/4"	18	12	10
13 SEER Horizontal Discharge Condensing Unit													
CHD-18	12*3	16*2	15	1/4"/1/2"	82	12	33	25	0.22	N/A	13	11	N/A
CHD-24	12*3	16*2	20	3/8"/3/4"	82	12	33	25	0.42	N/A	13	11	N/A
CHD-30	10*3	16*2	25	3/8"/3/4"	82	12	33	25	0.42	N/A	13	11	N/A
CHD-36	10*3	16*2	35	3/8"/3/4"	98	12	49	25	0.42	N/A	13	11	N/A

NOTES: The wire sizes listed are the manufacturer-recommended minimum sizes. Wires should be stranded and rated for high-voltage. Always refer to NEC local code.
CCA-24, FCA-24, TCA-24 units require 2 set of interconnecting wires: 16*3 stranded for Power Supply, and 24*4 stranded and shielded for Communication.