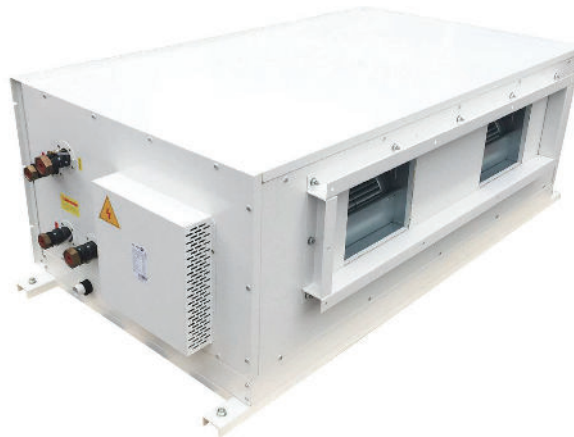


CHAHU-AECM



CHAHU units are ideal air-treatment terminal unit for installations where ducted air distribution is necessary. These units are designed for installation in suspended ceilings, among other applications, and are unique in their compactness and extremely low noise due to their double wall construction.

- » Performance in accordance to Standard AHRI 440
- » Sound Performance tested as per AHRI Standard 350-2000 (non-ducted equipment)
- » ETL-Listed, Constructed in compliance with ANSI/UL 1995 Standard
- » High-efficiency Variable speed ECM motor available for higher energy efficiency
- » Completed controller with VAV & VWV control logic;
- » Merv 4 class filter as standard; Merv 8 class filter as optional;
- » Special grade GI steel with Al + Zn coating known as 'Galvalume'
- » 2-way /3-way modulating valve kit with Isolation ball valves & strainer can be pre-installation in factory.
- » 6-way valve as optional;

CHAHU - 400 - V X - S - AECM

AECM	EC motor configuration
S	Complete controller with VAV&VWV control logic
W	EC motor driver suitable for connection to AC or EC modulating thermostat
X	220V/1P/60Hz EC motor
P	Chilled/Hot Water, 4-Pipe
V	Chilled/Hot Water, 2-Pipe
VEH	Chilled Water, 2-Pipe with Electric Heater
200~800	Unit Sizes
CHAHU	Horizontal Air Handling Unit
4R	2 pipes 4 rows
6R	2 pipes 6 rows
4+2R	4 pipes with 4 rows cooling and 2 rows heating

Technical Data



● CHAHU-V-ECM

CHAHU(4R)-V-ECM

Product range: 4-row coil 2-pipe with EC motor(s)



CHAHU(4R)-[Size]-V~AECM				200	300	400	600	800	
Unit configuration	Configuration			2 pipes					
	Number of Fan Blowers			1			2		
	Power supply (V/Ph/Hz)			220/1/60					
Performance Data	Air	Air flow	H	CFM	1176	1765	2353	3529	4706
		External Static Pressure	H	in.wg	0.48				
	Cooling	Total Cooling capacity	H	Btu/Hr	52560	75085	100683	147782	191809
		Sensible cooling capacity	H		34471	49829	66553	97952	127645
	Heating	Heating capacity	H	Btu/Hr	79181	115700	153242	224915	295222
		Max. EH capacity		kW	4	6	7.5	9	9
	Sound	Max. sound pressure		dB(A)	62	66	72	71	75
		Max. sound power			71	75	81	80	84
	Electrical	Max. power input		W	375	500	500	1000	1000
		Max. current		A	1.63	2.17	2.17	4.34	4.34
	Hydraulic	Cooling Water Flow Rate	H	GPM	11.7	16.6	22.3	32.8	42.5
		Cooling Pressure Drop	H	ft.wg	6.03	4.20	7.83	17.03	13.90
		Heating Water Flow Rate	H	GPM	11.7	16.6	22.3	32.8	42.5
		Heating Pressure Drop	H	ft.wg	4.8	3.3	6.3	13.9	11.3
		Water content			US gal	1.95	2.41	2.88	3.33
Construction and Packing Data	Water	In	Inch	1 1/4"					
	Connections	Out							
	Condensate Drainage Connection		inch	1"					
		L	inch	50 3/8	58 1/4	66 1/8	74	85 13/16	
	Dimensions	W		40 3/16					
		H		25 3/16					

a. Cooling mode (2-pipe):

~ Return air temperature: 80F DB/ 67F WB.

~ Inlet/ outlet water temperature: 45F/ 55F.

b. Heating mode (2-pipe):

~ Return air temperature: 70F.

~ Inlet water temperature: 140F

~ Water flow same to cooling mode

Technical Data



● CHAHU-V-ECM

CHAHU(6R)-V-AECM

Product range: 6-row coil 2-pipe with EC motor(s)



CHAHU(6R)-[Size]-V~AECM				200	300	400	600	800		
Unit configuration		Configuration		2 pipes						
		Number of Fan Blowers		1			2			
		Power supply (V/Ph/Hz)		220/1/60						
Performance Data	Air	Air flow	H	CFM	1176	1765	2353	3529	4706	
		External Static Pressure	H	in.wg	0.4					
	Cooling	Total Cooling capacity	H	Btu/Hr	58703	88055	117747	163823	220478	
		Sensible cooling capacity	H		37884	56655	75768	107167	143686	
	Heating	Heating capacity	H	Btu/Hr	85666	127645	169625	247440	329693	
		Max. EH capacity		kW	4	6	7.5	9	9	
	Sound	Max. sound pressure		dB(A)	62	66	72	71	75	
		Max. sound power			71	75	81	80	84	
	Electrical	Max. power input		W	375	500	500	1000	1000	
		Max. current		A	1.63	2.17	2.17	4.34	4.34	
	Hydraulic	Cooling Water Flow Rate	H	GPM	13.0	19.5	26.1	27.5	48.8	
		Cooling Pressure Drop	H	ft.wg	3.6	8.3	15.5	4.5	8.7	
		Heating Water Flow Rate			GPM	13.0	19.5	26.1	27.5	48.8
		Heating Pressure Drop	H	ft.wg	2.9	6.7	12.6	3.6	7.1	
		Water content			US gal	2.9	3.6	4.3	5.0	6.0
Construction and Packing Data	Water Connections		In Out	inch	1 1/4"					
	Condensate Drainage Connection			inch	1"					
	Dimensions	L	inch		50 3/8	58 1/4	66 1/8	74	85 13/16	
		W			40 3/16					
H				25 3/16						

a. Cooling mode (2-pipe):

~Return air temperature: 80F DB/ 67F WB.

~Inlet/ outlet water temperature: 45F/ 55F.

b. Heating mode (2-pipe):

~ Return air temperature: 70F.

~ Inlet water temperature: 140F

~ Water flow same to cooling mode

Technical Data



● CHAHU-P-ECM

CHAHU(4R+2)-P-ECM

Product range: 4-row coil for cooling and 2-row for heating 4-pipe with EC motor(s)



Model		CHAHU(4R+2)-[Size]-P~-AECM			200	300	400	600	800
Unit configuration		Configuration			4 pipes				
		Number of Fan Blowers			1			2	
		Power supply (V/Ph/Hz)			220/1/60				
Performance Data	Air	Air flow	H	CFM	1370	1905	2451	3809	4901
		External Static Pressure	H	in.wg	0.4				
	Cooling	Total Cooling capacity	H	Btu/Hr	55423	72572	95741	146250	191900
		Sensible cooling capacity	H		36758	49243	64366	98248	128051
	Heating	Heating capacity	H	Btu/Hr	73032	101322	130815	189907	245238
		Max. EH capacity		kW	4	6	7.5	9	9
	Sound	Max. sound pressure		dB(A)	67	72	74	75	77
		Max. sound power			76	81	83	84	86
	Electrical	Max. power input		W	412	650	765	1300	1530
		Max. current		A	1.63	2.17	2.17	4.34	4.34
	Hydraulic	Cooling Water Flow Rate	H	GPM	10.94	14.33	18.91	28.88	37.9
		Cooling Pressure Drop	H	ft.wg	7.54	2.11	3.87	9.05	17
		Heating Water Flow Rate	H	GPM	3.64	5.05	6.52	9.46	12.22
		Heating Pressure Drop	H	ft.wg	0.38	0.8	1.46	0.45	0.84
		Cooling Coil Water content		US gal		1.95	2.41	2.88	3.33
Heat Coil Water content			0.97		1.20	1.44	1.66	2.01	
Construction and Packing Data	Water Connections	In Out	Inch	1 1/4"					
	Condensate Drainage Connection			inch	1"				
	Dimensions	L	inch	50 3/8	58 1/4	66 1/8	74	85 13/16	
		W		40 9/16					
H		25 3/16							

a. Cooling mode (4-pipe):

~ Return air temperature: 80F DB/ 67F WB.

~ Inlet/ outlet water temperature: 45F/ 55F.

b. Heating mode (4-pipe):

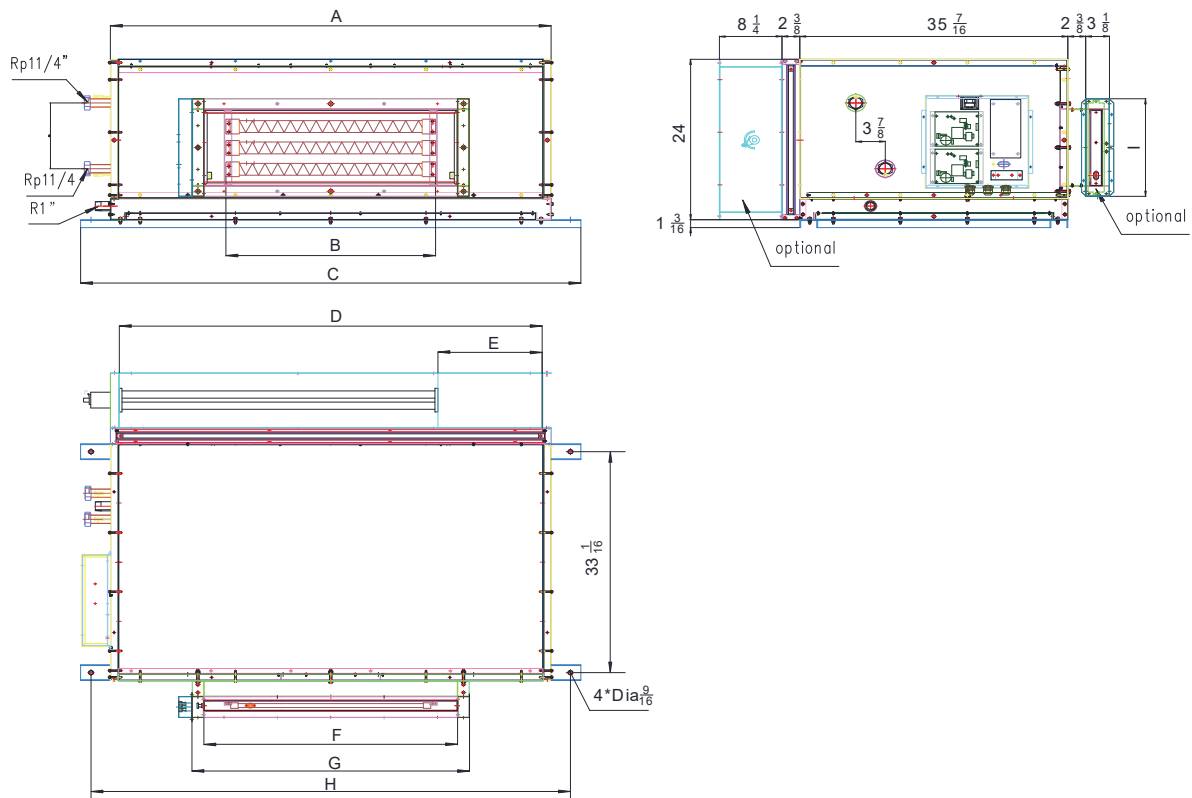
~ Return air temperature: 70F.

~ Inlet water temperature: 180F

~ Outlet water temperature: 140F

Technical Data

Dimensional drawings: CHAHU-V-AECM

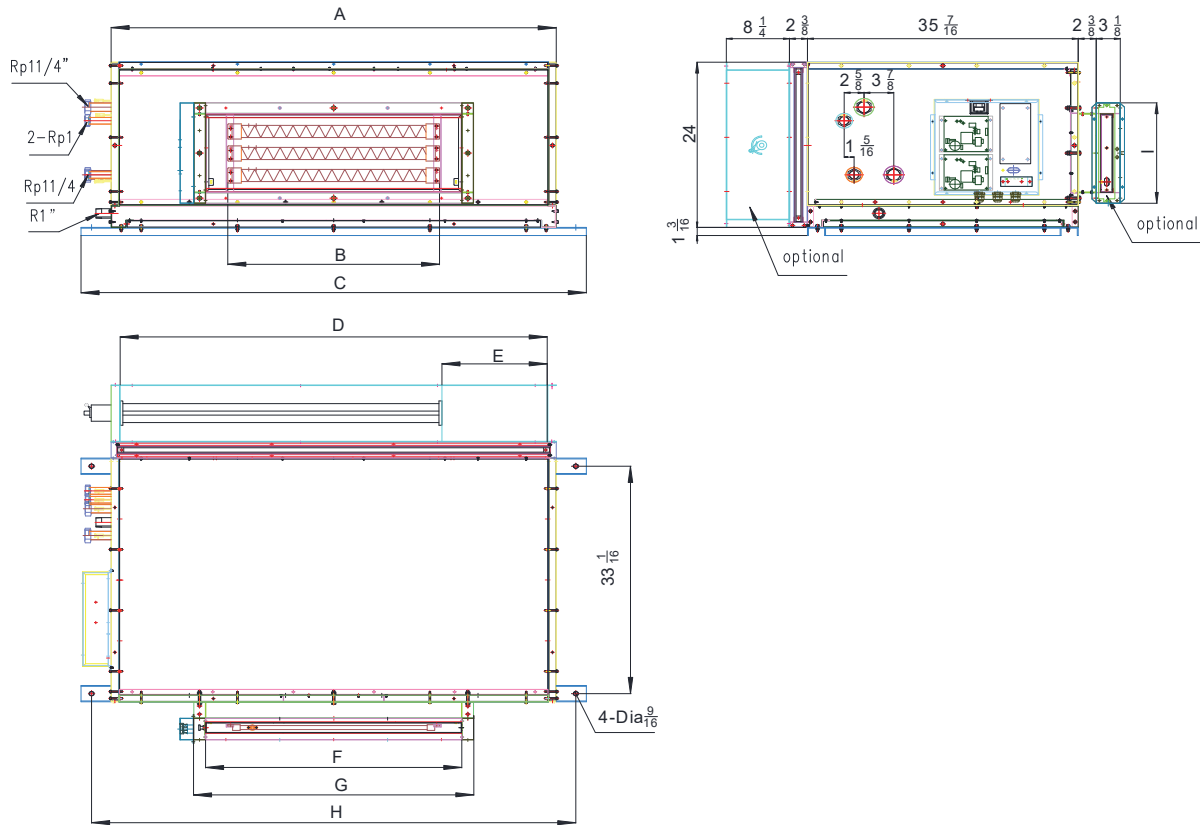


Model	A	B	C	D	E	F	G	H	I
200	42 1/2	18 1/2	50 3/8	40 3/16	10 1/16	23 5/8	26 3/4	47 5/8	13 1/4
300	50 3/8	22 3/16	58 1/4	48 1/16	11 13/16	27 9/16	30 11/16	55 1/2	13 7/16
400	58 1/4	27 11/16	66 1/8	55 7/8	13 3/4	33 7/16	36 5/8	63 3/8	14 5/8
600	66 1/8	36 1/8	74	63 3/4	15 3/4	49 3/16	52 3/8	71 1/4	13 7/16
800	77 15/16	36 1/8	85 13/16	75 9/16	18 7/8	53 15/16	57 1/16	83 1/16	14 5/8

All dimensions are approximate within 1/16 of an inch of those indicated.

Technical Data

Dimensional drawings: CHAHU-P-AECM



Model	A	B	C	D	E	F	G	H	I
200	42 1/2	18 1/2	50 3/8	40 3/16	10 1/16	23 5/8	26 3/4	47 5/8	13 1/4
300	50 3/8	22 3/16	58 1/4	48 1/16	11 13/16	27 9/16	30 11/16	55 1/2	13 7/16
400	58 1/4	27 11/16	66 1/8	55 7/8	13 3/4	33 7/16	36 5/8	63 3/8	14 5/8
600	66 1/8	36 1/8	74	63 3/4	15 3/4	49 3/16	52 3/8	71 1/4	13 7/16
800	77 15/16	36 1/8	85 13/16	75 9/16	18 7/8	53 15/16	57 1/16	83 1/16	14 5/8

All dimensions are approximate within 1/16 of an inch of those indicated.

Technical Data



● CHAHU-AECM

Accessories (Optional Part)

Accessories	Photo	Code	Description
1. Merv8 filter		AA14-M8-CHAHU-EC-001	Merv 8 or G4 filter for CHAHU-200
		AA14-M8-CHAHU-EC-002	Merv 8 or G4 filter for CHAHU-300
		AA14-M8-CHAHU-EC-003	Merv 8 or G4 filter for CHAHU-400
		AA14-M8-CHAHU-EC-004	Merv 8 or G4 filter for CHAHU-600
		AA14-M8-CHAHU-EC-005	Merv 8 or G4 filter for CHAHU-800
2. F8 filter		BCP-M14-CHAHU-EC-001	Merv 14 or F8 filter for CHAHU-200
		BCP-M14-CHAHU-EC-002	Merv 14 or F8 filter for CHAHU-300
		BCP-M14-CHAHU-EC-003	Merv 14 or F8 filter for CHAHU-400
		BCP-M14-CHAHU-EC-004	Merv 14 or F8 filter for CHAHU-600
		BCP-M14-CHAHU-EC-005	Merv 14 or F8 filter for CHAHU-800
3. Vave kit		BCP18-RCS-VALVE-CHAHU-001	115~240VAC 1-1/4" Motorized 2-way on/off valve kit
		BCP18-RCS-VALVE-CHAHU-002	24VAC 1-1/4" Modulating 2-way ball valve kit
4. E-heater modular		BCP18-EH-CHAHU-EC-001	Electrical heater module maximum 4.5kw, 400V/3Ph for CHAHU-200
		BCP18-EH-CHAHU-EC-002	Electrical heater module maximum 6.0kw, 400V/3Ph for CHAHU-300
		BCP18-EH-CHAHU-EC-003	Electrical heater module maximum 7.5kw, 400V/3Ph for CHAHU-400
		BCP18-EH-CHAHU-EC-004	Electrical heater module maximum 9.0kw, 400V/3Ph for CHAHU-600
		BCP18-EH-CHAHU-EC-005	Electrical heater module maximum 9.0kw, 400V/3Ph for CHAHU-800
5. Intake plenum		BCP-PLENUM-CHAHU-EC-001	two-way intake plenum with on/off damper for CHAHU-200
		BCP-PLENUM-CHAHU-EC-002	two-way intake plenum with on/off damper for CHAHU-300
		BCP-PLENUM-CHAHU-EC-003	two-way intake plenum with on/off damper for CHAHU-400
		BCP-PLENUM-CHAHU-EC-004	two-way intake plenum with on/off damper for CHAHU-600
		BCP-PLENUM-CHAHU-EC-005	two-way intake plenum with on/off damper for CHAHU-800
		BCP-PLENUM-CHAHU-EC-006	two-way intake plenum with modulating damper for CHAHU-200
		BCP-PLENUM-CHAHU-EC-007	two-way intake plenum with modulating damper for CHAHU-300
		BCP-PLENUM-CHAHU-EC-008	two-way intake plenum with modulating damper for CHAHU-400
		BCP-PLENUM-CHAHU-EC-009	two-way intake plenum with modulating damper for CHAHU-600
		BCP-PLENUM-CHAHU-EC-010	two-way intake plenum with modulating damper for CHAHU-800
6. Drain Pan		BCP-SSDP-CHAHU-001	Stainless steel drain pan for CHAHU-200
		BCP-SSDP-CHAHU-002	Stainless steel drain pan for CHAHU-300
		BCP-SSDP-CHAHU-003	Stainless steel drain pan for CHAHU-400
		BCP-SSDP-CHAHU-004	Stainless steel drain pan for CHAHU-600
		BCP-SSDP-CHAHU-005	Stainless steel drain pan for CHAHU-800



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