



PRODUCT CATALOG





Aspen Background:

Aspen, headquartered in Humble, Texas, is one of the largest independent coil manufacturers in the air conditioning marketplace in the United States and Canada.

Founded in 1975 and family led since inception, we are small enough to be flexible but large enough to stand behind our products.

The Company engineers, manufactures, and markets an extensive line of residential and light commercial evaporator coils and air handlers under the Aspen brand.

We continuously invest in the business so we can provide quality products at competitive prices with short lead times that our customers have come to expect. As part of our growth path we are in the process of strengthening our sales and customer support organization to position Aspen for the next level of growth.



Why Aspen:

- Shortest lead times in the industry for both coils and air handlers
- Hiss-test-able DX and hydronic heating coils
- AHRI 210/240 certified coils and air handlers
- Flexibility to custom fit our offering to the needs of the end user (Get it your way...)
- Web access for specification sheets, warranty forms and other technical literature
- Ability to adapt to changing market demands
- Low cost-to-market advantage
- R22 and R410A compatibility
- Assembled in the USA
- Faster warranty processing via web registration, claims and administration
- Loyalty programs designed to fit our customer's needs.
- 100% of all coils pressure tested with 500 psi dry air in a water bath
- Shipped with up to 60 psi of dry nitrogen holding charge
- Industry exclusive liquid line Schrader valve provided for "hiss test"
- 100% of Air Handlers run tested
- QMS system, incorporating ISO techniques to deliver a product to the highest industry standards
- Product compliant to UL1995 4th Edition safety requirements
- Metal, Plastic and Paint compliant with respective ASTM standards
- Our warranty claims failure rates are consistent with our quality materials and manufacturing practices, and we believe they continue to exceed that of our competitors
- Industry low leak rates
- High performance thicker bottom wall copper tube than all of the competition



*Complete warranty details and registration information available at www.aspenmfg.com

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EMAIL INFO@ASPENMFG.COM • WEB WWW.ASPENMFG.COM



TO PLACE AN ORDER...

1. All orders MUST include the following information:

- ✓ Account # & P.O.#
- ✓ "Requested" ship date – If none, order will be placed and shipped ASAP
- ✓ COMPLETE model #, including "Option Codes" – if standard, fill in the spaces with XXX
- ✓ Contact name, phone and e-mail – MUST include all three.
- ✓ ANY notes regarding special pricing, terms, shipping etc. – with supporting documentation.

2. Send Order To:

Dora Castro

Email orders: dora@aspenmfg.com

Fax orders: (281) 441-6510*

*Alternate Fax (281) 441-1863 is available if difficulties are encountered with primary Fax number.

****All orders must be placed via fax or email. Phone orders not accepted.***

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DX-treme C-Series Nomenclature

Revised 8/29/13

C A 24 A3 G -145 L -001

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⑧ Option Code

⑦ Refrigerant and plumbing connections

L = left-hand plumbing and refrigerant connections

R = right-hand plumbing and refrigerant connections

T = refrigerant out the top, plumbing out opposite sides

⑥

CA, CM Series: Drain pan width code

CB, CC, CE, CP, CQ, CR, CS Series: Furnace width code

CH Series: cabinet width code

⑤

Metering device

4 = non-bleed A/C or H/P R410 TXV

6 = 20% bleed A/C or H/P R410 TXV

B = 20% bleed A/C or H/P R22 TXV

F = R-22 Flo-rater

G = R-410A Flo-rater

X = non-bleed A/C or H/P R22 TXV

④

Coil descriptor code (face area, rows, fpi)

③

Nominal tonnage (MBTUH)

②

Configuration

A = uncased up/down

B = cased dedicated horizontal LaborSaver

C = cased up/down

E = cased multi-position VersaCoil

H = cased dedicated horizontal slab coil

M = manufactured home coil

P = cased dedicated horizontal with attached plenum

Q = cased dedicated horizontal with attached plenum and built-in auxiliary drain

R = cased dedicated horizontal with attached plenum and built-in auxiliary drain, 2nd generation

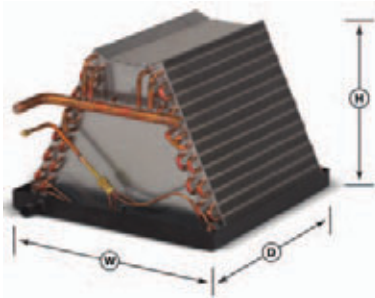
S = cased dedicated horizontal LaborSaver, 2nd generation

①

Series

C = C Series (DX-treme)

DX-TREME CA SERIES UNCASED UPFLOW/DOWNFLOW COILS



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Left- or right-hand refrigerant and plumbing connections.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2- 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Heavy duty plastic drain pans on most models.
- Upflow without field modification. Downflow applications require plate kit, included.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with both R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Powder painted stainless steel drain pan.
- Schrader mounted on suction manifold, external to cabinet.

COIL MODEL	FLOW RATOR SIZE		DIMENSIONS						SHIPPING INFORMATION			
			PAN WIDTHS [W]"				PAN DEPTH [D]"	BARE SLAB HEIGHT [H]"	SHIPPING WEIGHT [LBS]			SKID QTY
	R22	R410a	13	16	19-1/2	23			2 ROW	3 ROW	4 ROW	
CA24A*	0.059	0.055	13	16	19-1/2		19-3/8	13-1/2	17	27	35	30
CA24B*	0.059	0.055	13	16	19-1/2		19-3/8	15-1/2	20	31	41	25
CA24C*	0.059	0.055	13	16	19-1/2		19-3/8	17-1/2	23	36	47	25
CA24D*	0.059	0.055	13	16	19-1/2		19-3/8	19-1/2	25	40	53	20
CA30A*	0.068	0.059	13	16	19-1/2		19-3/8	15-1/2	20	31	41	25
CA30B*	0.068	0.059	13	16	19-1/2		19-3/8	17-1/2	23	36	47	25
CA30C*	0.068	0.059	13	16	19-1/2		19-3/8	19-1/2	25	40	53	20
CA30D*	0.068	0.059	13	16	19-1/2		19-3/8	21-1/2	28	45	58	16
CA30E*	0.068	0.059	13	16	19-1/2		19-3/8	21-1/2	30	47	60	16
CA36A*	0.074	0.068	13 for 2, 3R; 16 for 4R	16	19-1/2		19-3/8	17-1/2	23	36	47	25
CA36B*	0.074	0.068	13 for 2, 3R; 16 for 4R	16	19-1/2		19-3/8	19-1/2	25	40	53	20
CA36C*	0.074	0.068	13 for 2, 3R; 16 for 4R	16	19-1/2		19-3/8	21-1/2	28	45	58	16
CA36D*	0.074	0.068	13 for 2, 3R; 16 for 4R	16	19-1/2		19-3/8	23-1/2	31	49	64	12
CA42A*	0.080	0.074		16	19-1/2	23	19-3/8	19-1/2	25	40	53	20
CA42B*	0.080	0.074		16	19-1/2	23	19-3/8	21-1/2	28	45	58	16
CA42C*	0.080	0.074		16	19-1/2	23	19-3/8	23-1/2	31	49	64	12
CA42D*	0.080	0.074		16	19-1/2	23	19-3/8	25-1/2	34	54	70	12
CA48A*	0.084	0.080		16	19-1/2	23	19-3/8	21-1/2	28	45	58	16
CA48B*	0.084	0.080		16	19-1/2	23	19-3/8	23-1/2	31	49	64	12
CA48C*	0.084	0.080		16	19-1/2	23	19-3/8	25-1/2	34	54	70	12
CA48D*	0.084	0.080		16	19-1/2	23	19-3/8	27-1/2	37	58	76	12
CA48F*	0.084	0.080		16	19-1/2	23	19-3/8	25-1/2	36	56	72	12
CA48G*	0.084	0.080		16	19-1/2	23	19-3/8	27-1/2	39	60	78	12
CA60A*	0.092	0.089			19-1/2	23	19-3/8	25-1/2	34	54	70	12
CA60B*	0.092	0.089			19-1/2	23	19-3/8	27-1/2	37	58	76	12
CA60C*	0.092	0.089			19-1/2 [2]	23 [2]	21-3/4	24-1/2	38	60	79	12
CA60D*	0.092	0.089			19-1/2 [2]	23 [2]	21-3/4	26-1/2	41	65	86	12
CA60E*	0.092	0.089				24 [3]	21	26-1/2	46	73	95	12
CA60F*	0.092	0.089			19-1/2	23	19-3/8	25-1/2	41	62	80	12
CA60G*	0.092	0.089				24 [3]	21	26-1/2	48	75	97	12

Notes: 1) Do not use heavy duty polypropylene drain pans on oil furnaces or other applications where outlet temperatures may exceed 290°F +/-5°F. Specify metal drain pans for these applications. 2) Metal drain pan. 3) Metal drain pan. Slab rotated 90°. Refrigerant and plumbing connections still exit in front.

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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CB SERIES DEDICATED HORIZONTAL COILS



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2- 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Inlet and outlet dimensions are identical (without end caps).
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Refrigerant lines exit from the top of the coil.
- Split access doors on top of the coil for easy service.
- Embossed galvanized cabinets standard.
- Top, bottom, and side flanges for furnace connection
- Fully insulated cabinets with faced insulation.
- Heavy duty plastic drain pan with four 3/4" FPT galvanized condensate drains (two per side). Pan is positively sloped toward drains.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Powder painted stainless steel drain pan.
- Schrader mounted on suction manifold, external to cabinet.

COIL MODEL	PISTON SIZE		DIMENSIONS			SHIPPING INFORMATION			
	R22	R410a	CABINET WIDTH [W]"	CABINET DEPTH [D]"	MAX FURNACE WIDTH (OR HEIGHT WHEN HORZ.)	SHIPPING WEIGHT (LBS)			SKID QTY
						2 ROW	3 ROW	4 ROW	
CB24A*	0.059	0.055	22	22-3/4	16-3/4	29	37	45	16
CB24B*	0.059	0.055	22	22-3/4	16-3/4	34	44	52	16
CB24C*	0.059	0.055	22	22-3/4	20-3/4	37	47	56	16
CB24D*	0.059	0.055	22	22-3/4	20-3/4	43	55	65	16
CB30A*	0.068	0.059	22	22-3/4	16-3/4	34	44	52	16
CB30B*	0.068	0.059	22	22-3/4	16-3/4	39	50	59	16
CB30C*	0.068	0.059	22	22-3/4	20-3/4	43	55	65	16
CB30D*	0.068	0.059	22	22-3/4	20-3/4	49	62	74	16
CB30E*	0.068	0.059	22	22-3/4	20-3/4	37	47	56	16
CB36A*	0.074	0.068	22	22-3/4	16-3/4	39	50	59	16
CB36B*	0.074	0.068	22	22-3/4	16-3/4	44	56	67	16
CB36C*	0.074	0.068	22	22-3/4	20-3/4	49	62	74	16
CB36D*	0.074	0.068	22	22-3/4	20-3/4	55	70	83	16
CB36E*	0.074	0.068	22	22-3/4	20-3/4	42	53	63	16
CB42A*	0.080	0.074	22	22-3/4	18-3/4	44	56	67	16
CB42B*	0.080	0.074	22	22-3/4	18-3/4	49	63	75	16
CB42C*	0.080	0.074	22	22-3/4	22-3/4	54	69	82	12
CB42D*	0.080	0.074	22	22-3/4	22-3/4	60	77	92	12
CB42E*	0.080	0.074	22	22-3/4	22-3/4	47	60	71	12
CB48A*	0.084	0.080	22	22-3/4	20-3/4	49	63	75	16
CB48B*	0.084	0.080	22	22-3/4	20-3/4	55	70	83	16
CB48C*	0.084	0.080	22	22-3/4	24-3/4	60	77	92	12
CB48D*	0.084	0.080	22	22-3/4	24-3/4	67	86	102	12
CB48E*	0.084	0.080	22	22-3/4	24-3/4	52	67	79	12
CB60A*	0.092	0.089	22	22-3/4	24-3/4	60	77	92	12
CB60B*	0.092	0.089	22	22-3/4	24-3/4	67	86	102	12
CB60C*	0.092	0.089	22	22-3/4	26-3/4	71	91	108	12
CB60D* (1)	0.092	0.089	22	25	26-3/4	79	101	120	12
CB60E*	0.092	0.089	22	22-3/4	26-3/4	64	82	97	12
CB60F*	0.092	0.089	22	22-3/4	20-3/4	55	70	83	16
CB60G*	0.092	0.089	22	22-3/4	24-3/4	69	88	104	12

Note: (1) Primary pan constructed of powder-painted galvanized steel. If ordering auxiliary pan, please specify #1823.

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HARDI
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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CC SERIES CASED UPFLOW/DOWNFLOW COILS



Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Left- or right-hand refrigerant and plumbing connections.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2-3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Heavy duty plastic drain pans on most models.
- Embossed galvanized cabinets standard. Cabinets feature furnace connectors (patent pending).
- Upflow without field modification. Downflow applications require plate kit, included.
- Split access doors in front for easy service.
- Fully insulated cabinets with faced insulation.
- Ten-year limited warranty.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R22 and R410a when proper metering device is used.

POPULAR OPTIONS:

- Factory or field-installable TXV available.
- Painted cabinets.
- Powder-painted metal or stainless pans.
- Schrader mounted on suction manifold, external to cabinet.
- Bikini cabinets.

COIL MODEL	PISTON SIZE		DIMENSIONS				SHIPPING INFORMATION			
			CABINET WIDTH [W]"		CABINET DEPTH [D]"	CABINET HEIGHT [H]"	SHIPPING WEIGHT [LBS]			SKID QTY
	R22	R410a	MIN WIDTH	MAX WIDTH			2 ROW	3 ROW	4 ROW	
CC24A*	0.059	0.055	14	23	21-1/2	16	29	37	45	20
CC24B*	0.059	0.055	14	23	21-1/2	16	34	44	52	20
CC24C*	0.059	0.055	14	23	21-1/2	20	39	50	59	16
CC24D*	0.059	0.055	14	23	21-1/2	20	44	56	67	16
CC30A*	0.068	0.059	14	23	21-1/2	16	34	44	52	20
CC30B*	0.068	0.059	14	23	21-1/2	20	39	50	59	16
CC30C*	0.068	0.059	14	23	21-1/2	20	44	56	67	16
CC30D*	0.068	0.059	14	23	21-1/2	24	49	62	74	12
CC30E*	0.068	0.059	14	23	21-1/2	24	51	64	76	12
CC36A*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	20	39	50	59	16
CC36B*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	20	44	56	67	16
CC36C*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	24	49	62	74	12
CC36D*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	24	54	69	82	12
CC42A*	0.080	0.074	17	26-1/2	21-1/2	20	44	56	67	16
CC42B*	0.080	0.074	17	26-1/2	21-1/2	24	49	62	74	12
CC42C*	0.080	0.074	17	26-1/2	21-1/2	24	54	69	82	12
CC42D*	0.080	0.074	17	26-1/2	21-1/2	28	58	75	89	12
CC48A*	0.084	0.080	17	26-1/2	21-1/2	24	49	62	74	12
CC48B*	0.084	0.080	17	26-1/2	21-1/2	24	54	69	82	12
CC48C*	0.084	0.080	17	26-1/2	21-1/2	28	58	75	89	12
CC48D*	0.084	0.080	17	26-1/2	21-1/2	28	63	81	96	12
CC48F*	0.084	0.080	17	26-1/2	21-1/2	28	60	77	91	12
CC48G*	0.084	0.080	17	26-1/2	21-1/2	28	65	83	98	12
CC60A*	0.092	0.089	20-1/2	26-1/2	21-1/2	28	58	75	89	12
CC60B*	0.092	0.089	20-1/2	26-1/2	21-1/2	28	63	81	96	12
CC60C* (5)	0.092	0.089	20-1/2	26-1/2	23	28	66	84	100	12
CC60D* (5)	0.092	0.089	20-1/2	26-1/2	23	28	71	91	108	12
CC60E* (3)	0.092	0.089	24-1/2	26-1/2	21-1/2	28	79	101	120	12
CC60F*	0.092	0.089	20-1/2	26-1/2	21-1/2	28	60	77	91	12
CC60G* (3)	0.092	0.089	24-1/2	26-1/2	21-1/2	28	81	103	122	12

Notes: 1) Not all drain pan sizes are currently available in heavy duty plastic. Check with your local Aspen representative for current availability. 2) Do not use heavy duty plastic drain pans on oil furnaces or other applications where outlet temperatures may exceed 290°F +/- 5°F. Specify metal drain pans for these applications. 3) Metal drain pan. Slab is rotated 90° inside cabinet. Refrigerant and plumbing connections still exit cabinet front. 4) Top duct opening size can be obtained by subtracting 1-1/2" from width or depth. Bottom duct opening size can be obtained by subtracting 3/4" from width or depth. 5) Metal drain pan.

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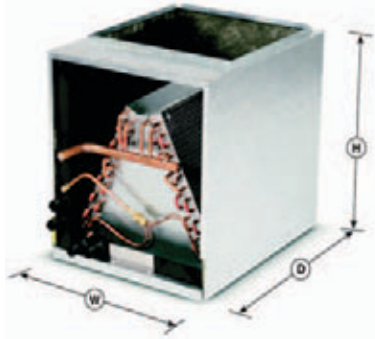
RESIDENTIAL COILS





PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CE SERIES CASED MULTI-POSITION COILS



Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Left- or right-hand refrigerant and plumbing connections.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2 - 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Externally mounted flowrate body with Schrader valve for hiss-testing.
- Heavy duty plastic upflow drains pans on most models, powder coated galvanized steel horizontal drain pans standard on all.
- Embossed galvanized cabinets standard. Cabinets feature furnace connectors (patent pending).
- Upflow, horizontal right, or horizontal left without field modification. Downflow applications require plate kit, included.
- Split access doors in front for easy service.
- Fully insulated cabinets with faced insulation.
- Ten-year limited warranty.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R22 and R410a when proper metering device is used.

POPULAR OPTIONS:

- Factory or field-installable TXV available.
- Painted cabinets.
- Powder-painted metal or stainless pans.
- Schrader mounted on suction manifold, external to cabinet.

COIL MODEL	PISTON SIZE		DIMENSIONS				SHIPPING INFORMATION			
	R22	R410a	CABINET WIDTH [W]"		CABINET DEPTH [D]"	CABINET HEIGHT [H]"	SHIPPING WEIGHT [LBS]			SKID QTY
			MIN WIDTH	MAX WIDTH			2 ROW	3 ROW	4 ROW	
CE24A*	0.059	0.055	14	23	21-1/2	19	31	39	46	20
CE24B*	0.059	0.055	14	23	21-1/2	19	36	45	54	20
CE24C*	0.059	0.055	14	23	21-1/2	23	41	52	61	12
CE24D*	0.059	0.055	14	23	21-1/2	23	46	58	69	12
CE30A*	0.068	0.059	14	23	21-1/2	19	36	45	54	20
CE30B*	0.068	0.059	14	23	21-1/2	23	41	52	61	12
CE30C*	0.068	0.059	14	23	21-1/2	23	46	58	69	12
CE30D*	0.068	0.059	14	23	21-1/2	27	52	65	77	12
CE30E*	0.068	0.059	14	23	21-1/2	27	54	67	79	12
CE36A*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	23	41	52	61	12
CE36B*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	23	46	58	69	12
CE36C*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	27	52	65	77	12
CE36D*	0.074	0.068	14 for 2, 3R; 17 for 4R	23	21-1/2	27	57	71	84	12
CE42A*	0.080	0.074	17	26-1/2	21-1/2	23	46	58	69	12
CE42B*	0.080	0.074	17	26-1/2	21-1/2	27	52	65	77	12
CE42C*	0.080	0.074	17	26-1/2	21-1/2	27	57	71	84	12
CE42D*	0.080	0.074	17	26-1/2	21-1/2	30	62	78	92	10
CE48A*	0.084	0.080	17	26-1/2	21-1/2	27	52	65	77	12
CE48B*	0.084	0.080	17	26-1/2	21-1/2	27	57	71	84	12
CE48C*	0.084	0.080	17	26-1/2	21-1/2	30	62	78	92	10
CE48D*	0.084	0.080	17	26-1/2	21-1/2	30	67	84	100	10
CE48F*	0.084	0.080	17	26-1/2	21-1/2	30	64	80	94	10
CE48G*	0.084	0.080	17	26-1/2	21-1/2	30	69	86	102	10
CE60A*	0.092	0.089	20-1/2	26-1/2	21-1/2	30	62	78	92	10
CE60B*	0.092	0.089	20-1/2	26-1/2	21-1/2	30	67	84	100	10
CE60C* (4)	0.092	0.089	20-1/2	26-1/2	23	30	70	88	104	10
CE60D* (4)	0.092	0.089	20-1/2	26-1/2	23	30	76	95	112	10
CE60F*	0.092	0.089	20-1/2	26-1/2	21-1/2	30	64	80	94	10

Notes: 1) Not all drain pan sizes are currently available in heavy duty plastic. Check with your local Aspen representative for current availability. 2) Do not use heavy duty plastic drain pans on oil furnaces or other applications where outlet temperatures may exceed 290°F +/-5°F. Specify metal drain pans for these applications. 3) Top duct opening size can be obtained by subtracting 1-1/2 from width or depth. Bottom duct opening size can be obtained by subtracting 3/4 from width or depth. 4) Metal drain pan.

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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CH SERIES SLAB HORIZONTAL COILS



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2- 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Two 3/4" FPT condensate drains (primary and secondary)
- Powder-painted stainless steel drain pans.
- Externally mounted flowrater body with Schrader valve for hiss-testing..
- Split access doors for easy service.
- Fully insulated cabinets with faced insulation.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with both R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Schrader mounted on suction manifold, external to cabinet.

RESIDENTIAL COILS / CH

COIL MODEL	FLOW RATOR SIZE		DIMENSIONS					SHIPPING INFORMATION			
			WIDTH	HEIGHT	OPENING		LENGTH	SHIPPING WEIGHT (LBS)			SKID QTY
	R22	R410a	A	B	C	D	E	2 ROW	3 ROW	4 ROW	
CH24A*	0.059	0.055	10	23-1/2	21	16	21-1/2	20	34	N/A	14
CH24B*	0.059	0.055	10	23-1/2	21	24	29-1/2	29	43	N/A	14
CH36A*	0.074	0.068	10	23-1/2	21	24	29-1/2	29	43	N/A	14
CH36B*	0.074	0.068	10	23-1/2	21	30	35-1/2	35	49	N/A	14
CH48A*	0.084	0.080	10	23-1/2	21	30	35-1/2	35	49	N/A	14
CH48B*	0.084	0.080	10	23-1/2	21	36	41-1/2	42	56	N/A	8
CH60A*	0.092	0.089	10	23-1/2	21	36	41-1/2	N/A	56	70	8
CH60B*	0.092	0.089	10	23-1/2	21	42	47-1/2	N/A	66	80	8

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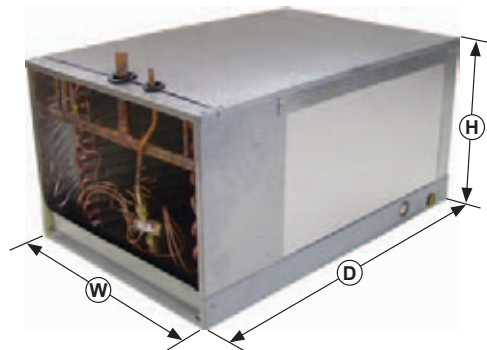
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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CR SERIES DEDICATED HORIZONTAL PLENUM COIL WITH BUILT-IN AUXILIARY DRAIN PAN



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2-3 ton & 7/8" ODS on 3-1/2-5 ton.
- Externally mounted flowrater body or internally mounted factory-installed TXV
- Schrader valve on liquid line for hiss-testing
- Refrigerant lines exit top of coil
- Split access doors on top of coil for easy service
- Plastic drain pans (primary and secondary)
- Built-in auxiliary drain pan with 3/4" FPT
- Plenum sides and end constructed of foil-backed faced fiberglass ductboard. Plenum top and bottom constructed of galvanized steel
- AHRI certifiable with all brands of A/C and heat pump systems
- ETL listed for use with R-22 and R-410a when proper metering device is used
- Patent pending design
- Ten-year limited warranty with registration

COIL MODEL	R410a PISTON SIZE	DIMENSIONS			SHIPPING INFORMATION		
		CABINET WIDTH [W]"	CABINET DEPTH [D]"	CABINET HEIGHT [H]"	SHIPPING WEIGHT (LBS)		SKID QTY
					2 ROW	3 ROW	
CR24A*	0.055	20-1/2	31	15-1/2	42	51	8
CR24B*	0.055	20-1/2	31	19-1/2	47	56	8
CR24C*	0.055	20-1/2	31	23-1/2	47	56	8
CR30A*	0.059	20-1/2	31	15-1/2	49	58	8
CR30B*	0.059	20-1/2	31	19-1/2	55	66	8
CR30C*	0.059	20-1/2	31	23-1/2	55	66	8
CR36A*	0.068	20-1/2	31	15-1/2	57	69	8
CR36B*	0.068	20-1/2	31	19-1/2	57	69	8
CR36C*	0.068	20-1/2	31	23-1/2	57	69	8
CR42A*	0.074	20-1/2	40	19-1/2	62	75	8
CR42B*	0.074	20-1/2	40	23-1/2	62	75	8
CR42C*	0.074	20-1/2	40	25-1/2	67	80	8
CR48A*	0.08	20-1/2	40	23-1/2	73	87	8
CR48B*	0.08	20-1/2	40	25-1/2	76	92	8
CR60A*	0.089	20-1/2	40	23-1/2	124	149	8
CR60B*	0.089	20-1/2	40	25-1/2	125	150	8

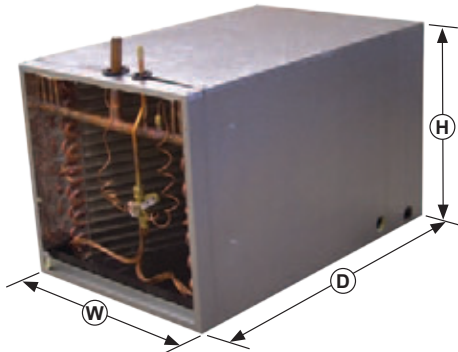
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DX-TREME CS SERIES DEDICATED HORIZONTAL COILS



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STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2 - 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Inlet and outlet dimensions are identical (without end caps).
- Externally mounted flowrater body with Schrader valve for hiss-testing or internally mounted factory-installed TXV.
- Refrigerant lines exit from the top of the coil.
- Split access doors on top of the coil for easy service.
- Embossed galvanized cabinets standard.
- Top, bottom, and side flanges for furnace connection
- Fully insulated cabinets with faced insulation.
- Heavy duty plastic drain pan with four 3/4" FPT galvanized condensate drains (two per side).
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty with registration

COIL MODEL	R410a PISTON SIZE	DIMENSIONS			SHIPPING INFORMATION		
		CABINET WIDTH [W]"	CABINET DEPTH [D]"	CABINET HEIGHT [H]"	SHIPPING WEIGHT (LBS)		SKID QTY
					2 ROW	3 ROW	
CS24A*	0.055	19-1/2	31	15	35	45	16
CS24B*	0.055	19-1/2	31	19	39	50	16
CS24C*	0.055	19-1/2	31	23	47	61	16
CS30A*	0.059	19-1/2	31	15	40	52	16
CS30B*	0.059	19-1/2	31	19	39	50	16
CS30C*	0.059	19-1/2	31	23	47	61	16
CS36A*	0.068	19-1/2	31	15	45	58	16
CS36B*	0.068	19-1/2	31	19	45	58	16
CS36C*	0.068	19-1/2	31	23	47	61	12
CS42A*	0.074	19-1/2	31	19	52	66	16
CS42B*	0.074	19-1/2	31	23	55	71	16
CS42C*	0.074	19-1/2	31	25	52	66	12
CS48A*	0.08	19-1/2	31	23	63	81	12
CS48B*	0.08	19-1/2	31	25	60	78	12
CS60A*	0.089	19-1/2	31	23	103	132	12
CS60B*	0.089	19-1/2	31	25	104	133	12

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PRODUCT DIMENSIONS & SPECIFICATIONS



DX-TREME CC SERIES LIGHT COMMERCIAL CASED UPFLOW COILS



Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rified copper tubing, aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- 3/4" FPT plumbing connections
- Left-hand refrigerant and plumbing connections.
- Factory-mounted TXV (R-410a - AC & HP compatible, R22 - AC only).
- Powder-painted galvanized steel drain pans. Stainless available.
- Embossed galvanized cabinets standard. Cabinets feature furnace connectors (patent pending).
- Upflow only. (Slab horizontal coils also available.)
- Split access doors in front for easy service.
- Fully insulated cabinets with faced insulation.
- Five-year limited warranty.
- ETL listed for use with R410a when proper metering device is used.

COIL MODEL	DIMENSIONS				SUCTION LINE	LIQUID LINE	SHIPPING INFORMATION	
	CABINET WIDTH [W]"		CABINET DEPTH [D]"	CABINET HEIGHT [H]"			SHIPPING WEIGHT (LBS)	SKID QTY
	MIN WIDTH	MAX WIDTH						
SINGLE CIRCUIT COILS								
CC072A34-XXXX-000	30	36	21-1/2	22	7/8	3/8	84	4
CC072B34-XXXX-000	36	42	21-1/2	22	7/8	3/8	105	4
CC072C34-XXXX-000	42	48	21-1/2	22	7/8	3/8	126	4
CC090A34-XXXX-000	36	42	21-1/2	22	1-1/8	1/2	105	4
CC090B34-XXXX-000	42	48	21-1/2	22	1-1/8	1/2	126	4
CC090C34-XXXX-000	48	54	21-1/2	22	1-1/8	1/2	147	4
CC120A34-XXXX-000	36	42	21-1/2	22	1-1/8	1/2	105	4
CC120B34-XXXX-000	42	48	21-1/2	22	1-1/8	1/2	126	4
CC120C34-XXXX-000	48	54	21-1/2	22	1-1/8	1/2	147	4
DOUBLE CIRCUIT COILS								
CC072A44-XXXX-120	30	36	21-1/2	22	7/8	3/8	103	4
CC072B44-XXXX-120	36	42	21-1/2	22	7/8	3/8	128	4
CC072C44-XXXX-120	42	48	21-1/2	22	7/8	3/8	154	4
CC090A44-XXXX-120	36	42	21-1/2	22	1-1/8	1/2	128	4
CC090B44-XXXX-120	42	48	21-1/2	22	1-1/8	1/2	154	4
CC090C44-XXXX-120	48	54	21-1/2	22	1-1/8	1/2	180	4
CC120A44-XXXX-120	36	42	21-1/2	22	1-1/8	1/2	128	4
CC120B44-XXXX-120	42	48	21-1/2	22	1-1/8	1/2	154	4
CC120C44-XXXX-120	48	54	21-1/2	22	1-1/8	1/2	180	4

Notes: Slabs are oriented with delta plates facing the side walls of the cabinet. Refrigerant and plumbing connections exit cabinet front. Top duct opening size can be obtained by subtracting 1-1/2 from width or depth. Bottom duct opening size can be obtained by subtracting 3/4 from width or depth.

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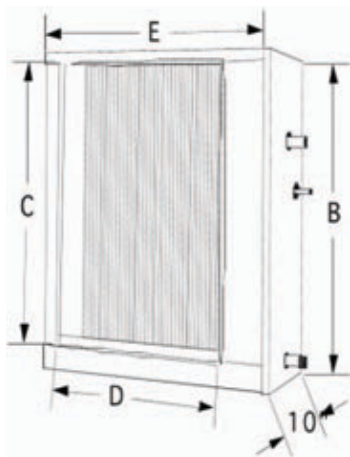
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PRODUCT DIMENSIONS & SPECIFICATIONS

BH LIGHT COMMERCIAL SLAB HORIZONTAL COILS SINGLE OR SPLIT CIRCUIT



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

GENERAL SPECIFICATIONS

- Standard refrigerant connections: liquid line - 3/8" ODS, suction line - 7/8" ODS
- One 3/4" MPT condensate drain.
- Powder-painted galvanized steel drain pan. Stainless available.
- Five-year warranty.
- Factory installed 20% bleed port TXV(s) standard. (see note for TXV options)
- Single circuit. Dual circuitry available.
- Dual circuit coils can be split top-to-bottom or interfaced.
- Front access panel for easy service.
- Every coil immersion-tested at 450 psi, then nitrogen-pressurized and sealed.
- Heavy gauge embossed galvanized cabinets fully lined with 1/2" faced insulation.
- Rifled copper tubing, enhanced aluminum fins.
- ETL listed.

COIL MODEL	DIMENSIONS			
	HEIGHT (B)"	OPENING		LENGTH (E)"
		(C)"	(D)"	
BHA24 36+X*	23-1/2	21	24	29-1/2
BHA40 48+X*	23-1/2	21	29	34-1/2
BHA40 60+X*	25	21	29	34-1/2
BH132 72+X*	25-1/2	21	36	41-1/2
BH332 72+X*	25-1/2	21	42	47-1/2
BH132 90+X*	25-1/2	21	42	47-1/2
BH332 90+X*	25-1/2	21	45	50-1/2
BH132 120+X*	25-1/2	21	42	47-1/2
BH332 120+X*	25-1/2	21	45	50-1/2
BHA24 36+X* SPL	23-1/2	21	24	29-1/2
BHA40 48+X* SPL	23-1/2	21	29	34-1/2
BHA40 60+X* SPL	25	21	29	34-1/2
BH140 72+X* SPL	25-1/2	21	36	41-1/2
BH340 72+X* SPL	25-1/2	21	42	47-1/2
BH140 90+X* SPL	25-1/2	21	42	47-1/2
BH340 90+X* SPL	25-1/2	21	45	50-1/2
BH140 120+X* SPL	25-1/2	21	42	47-1/2
BH340 120+X* SPL	25-1/2	21	45	50-1/2

TXV offering (factory installed): Order X4 for R410 or X1 for R22

BH LIGHT COMMERCIAL COILS

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A Series DX-treme Air Handler Nomenclature

Effective 8/01/06. Revised 8/29/13

A A M 18 G -001

①

②

③

④

⑤

⑥

⑥ Option Code

⑤ Metering device

4 = non-bleed A/C or H/P R410 TXV
6 = 20% bleed A/C or H/P R410 TXV
B = 20% bleed A/C or H/P R22 TXV
F = R-22 Flo-rater
G = R-410A Flo-rater
X = non-bleed A/C or H/P R22 TXV

④ Nominal tonnage (MBTUH)

③ Configuration

C = Ceiling Mount (End Discharge)
L = Multi-Position Electric Furnace
M = Multi-Position
N = Manufactured Home
W = Wall Mount

② Voltage

A = 240V PSC Motor
B = 120V PSC Motor
E = 240V X13 Motor
F = 120V X13 Motor

① A = Air Handler

Electric Heat Kit Nomenclature

Effective 8/01/06. Revised 8/29/13

E C S 10

①

②

③

④

④ Heat Strip

00 = NO Heat
03 = 3 KW
05 = 5 KW
06 = 6 KW
08 = 8 KW
10 = 10 KW
12 = 12 KW (3-phase Circuit Only)
15 = 15 KW
20 = 20 KW
24 = 24 KW (3-phase Circuit Only)
25 = 25 KW
30 = 30 KW

③ L = Large Cabinet (42-61)
S = Small Cabinet (18-36)

② Power Connection

3 = 3-phase Circuit Breaker
4 = 3-phase Terminal Block
C = Circuit Breaker
P = Circuit Breaker W/Single Point Block
T = Terminal Block

① E = Electric Heat Kit
E = Fits AAM, AEM Series
F = Fits AAW, AEW
G = Fits AAC, AEC

Hydronic Heat Kit Nomenclature

Effective 8/01/06. Revised 8/29/13

W C 2 S P

①

②

③

④

⑤

⑤ Pump

L = Less Pump and Check Valve
P = with Standard Pump and Check Valve
R = with 009 High Pressure Drop Pump

④ Coil Dimensions

L = Fits Large Chassis (42, 48, 60, 61)
S = Fits Small Chassis (18, 24, 30, 36)

③ Hydronic Coil Rows

2
3
4

② Power Connection

3 = 3-phase Circuit Breaker
C = Circuit Breaker
T = Terminal Block

① W = Hydronic Heat Kit
W = Fits ABM, AFM Series
U = Fits ABW, AFW
Y = Fits ABC*, AFC*

AIR HANDLERS



PRODUCT DIMENSIONS & SPECIFICATIONS

AAC SERIES CEILING MOUNT ELECTRIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Built in mounting tabs for ceiling or furrdown mounting. Louvered ceiling access panel has separate frame that attaches to ceiling joists. Solid access panel available for use with end return installations. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, fully insulated galvanized steel cabinet with painted front panels.

ELECTRICAL CONTROLS

Units available with either circuit breakers or terminal blocks. Controls easily accessible from the front for easy service. Fan time delay relay standard for increased efficiency. Electrical connections can be made from the top, left, or right.

ELECTRIC HEATERS

Models with electric heat include sequencers and temperature limit switches for safe, efficient operation.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. 2-speed motors allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Primary & secondary condensate drain. All drain connections are 3/4" MPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



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AIR HANDLERS AAC

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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOMINAL COOLING [TONS]	HEATING [KW]		HEATING CAPACITY [MBTUH]		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
			208V	240V	208V	240V	208V	240V	208V	240V
AAC18	GCS00	1.5	0.0	0.0	0.0	0.0	1.9	2.3	15	15
	GCS03		2.3	3.0	7.7	10.3	15.0	18.0	15	20
	GCS05		3.8	5.0	13.0	17.0	25.0	29.0	30	30
	GCS08		6.0	8.0	20.5	27.3	39.0	44.0	40	50
	GCS10		7.5	10.0	25.6	34.1	47.0	55.0	50	60
AAC24	GCS00	2.0	0.0	0.0	0.0	0.0	1.9	2.3	15	15
	GCS03		2.3	3.0	7.7	10.3	15.0	18.0	15	20
	GCS05		3.8	5.0	13.0	17.0	25.0	29.0	30	30
	GCS08		6.0	8.0	20.5	27.3	39.0	44.0	40	50
	GCS10		7.5	10.0	25.6	34.1	47.0	55.0	50	60
AAC30	GCS00	2.5	0.0	0.0	0.0	0.0	2.9	3.3	15	15
	GCS03		2.3	3.0	7.7	10.3	15.0	18.0	15	20
	GCS05		3.8	5.0	13.0	17.0	20.0	30.0	30	30
	GCS08		6.0	8.0	20.5	27.3	40.0	47.0	40	50
	GCS10		7.5	10.0	25.6	34.1	49.0	56.0	50	60
AAC36	GCS00	3.0	0.0	0.0	0.0	0.0	2.9	3.3	15	15
	GCS03		2.3	3.0	7.7	10.3	16.0	18.0	15	20
	GCS05		3.8	5.0	13.0	17.0	26.0	30.0	30	30
	GCS08		6.0	8.0	20.5	27.3	40.0	47.0	40	50
	GCS10		7.5	10.0	25.6	34.1	49.0	56.0	50	60

BLOWER DATA

MODELS	MOTOR HP	MOTOR VOLTAGE	SPEED TAP	CFM V. EXTERNAL STATIC * †				
				0.10	0.20	0.30	0.40	0.50
AAC18 & AAC24	1/5	240	LOW	890	850	820	790	760
			HIGH	1020	990	975	939	890
AAC30 & AAC 36	1/3	240	LOW	1115	1070	1010	960	900
			HIGH	1230	1170	1120	1050	980

* Dry coil with filter, † For 208V multiply by 0.90

AIR HANDLER CHASSIS NOMENCLATURE

AAC	18	4	-001
AAC = 240V PSC Motor Ceiling Mount	Nominal tonnage [MBTUH]	<u>Metering Device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = R22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

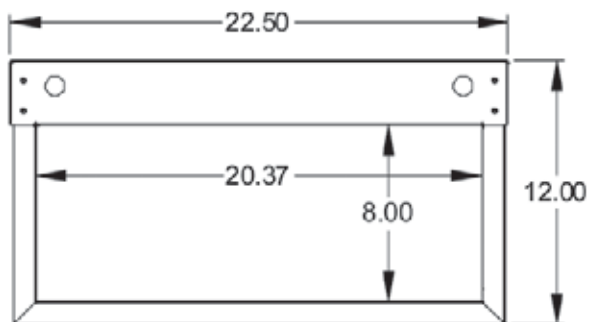
G	C	S	03
Ceiling mount - electric heat	C = Circuit breaker T = Terminal block	S = 18 - 37	Heat strip 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10KW

INSTALLATION CLEARANCES

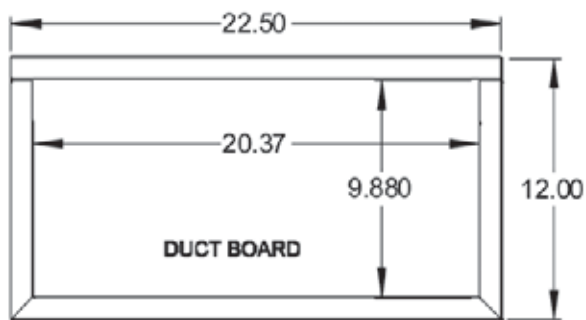
	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"

SPECIFICATIONS

MODEL	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AAC18	0.049	91	6
AAC24	0.055	91	6
AAC30	0.059	100	6
AAC36	0.068	100	6

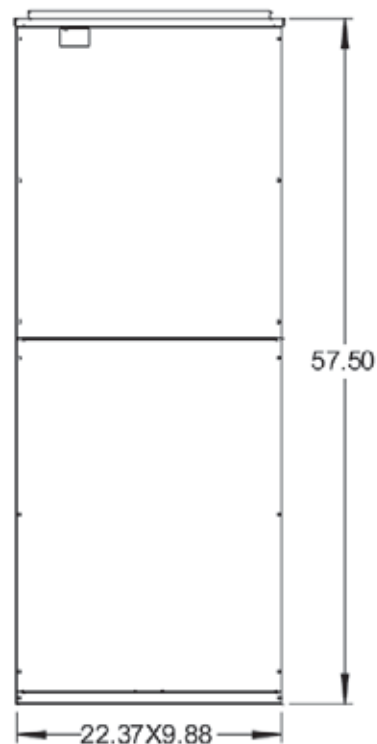


SUPPLY



DUCT BOARD

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PRODUCT DIMENSIONS & SPECIFICATIONS

AAL SERIES MULTI-POSITION ELECTRIC FURNACE

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal left as shipped (field convertible for downflow or horizontal right)

CABINET

Sturdy, low profile galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available with 3 to 30 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently and allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA				ELECTRICAL DATA						
		NOMINAL COOLING (TONS)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER		MIN CIR AMP (SINGLE POWER)	MAX FUSE OR CIR BKR (SINGLE POWER)
			208V	240V	208V	240V	208V	240V	208V	240V	240V	240V
AALS	EC/TS00	1.5 & 2	0.0	0.0	0.0	0.0	1.7	2.3	15	15	2.3	15
	EC/TS03		2.6	3	7.8	10.2	18	19	20	20	17.4	20
	EC/TS05		3.8	5	13	17	25	29	25	30	29	30
	EC/TS08		6	8	20.5	27.3	39	44	40	50	44	50
	EC/TS10		7.5	10	25.6	34.1	48	55	50	60	55	60
AALM	EC/TS00	2.5 & 3	0.0	0.0	0.0	0	2.4	3.3	15	15	3.3	15
	EC/TS03		2.6	3	7.8	10.2	18	19	20	20	19	20
	EC/TS05		3.8	5	13	17	25	29	25	30	29	30
	EC/TS08		6	8	20.5	27.3	39	45	40	50	45	50
	EC/TS10		7.5	10	25.6	34.1	48	55	50	60	55	60
	ECS15		11.3	15	38.4	51.2	48/23	56/27	50/25	60/30	81	90
AALL	EC/TL00	3.5, 4 & 5	0.0	0.0	0.0	0.0	4.1	5.5	15	15	5.5	15
	EC/TL05		3.8	5	13	17	27	32	30	35	32	35
	EC/TL10		7.5	10	25.6	34.1	49	58	50	60	58	60
	ECL15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	84	90
	ECL20		15	20	51.2	68.2	49/45	58/52	50/50	60/60	110	110
	ECL25		18.8	25	64	85.3	49/45/23	58/52/26	50/50/25	60/60/30	136	150
	ECL30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	162	170

208/240V – 3 PHASE CIRCUIT BREAKER

MODEL	HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOMINAL COOLING (TONS)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
			208V	240V	208V	240V	208V	240V	208V	240V
AALL	E3L12	3.5, 4 & 5	9.0	12.0	30.7	40.9	36.0	42.0	40.0	50.0
	E3L15		11.3	15.0	38.4	51.2	44.0	50.0	50.0	50.0
	E3L24		18.0	24.0	61.4	81.9	55	50/45	60	50/40
	E3L30		22.5	30.0	76.8	102.4	44/39	50/45	50/40	50/50

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AALS	LOW	1/5	1.8	240	870	840	790	750	700
	HIGH	1/5			960	920	880	830	770
AALM	LOW	1/3	2.6	240	1130	1100	1050	1000	950
	HIGH	1/3			1410	1350	1280	1200	1120
AALL	LOW	3/4	4.4	240	1520	1500	1490	1460	1440
	MEDIUM	3/4			1700	1680	1650	1620	1580
	HIGH	3/4			2060	2030	1990	1940	1890

* Dry coil with filter in place. CFM is based on a 3 row coil. For approximate CFM with a 4 row coil multiply CFM by .96

AIR HANDLER CHASSIS NOMENCLATURE

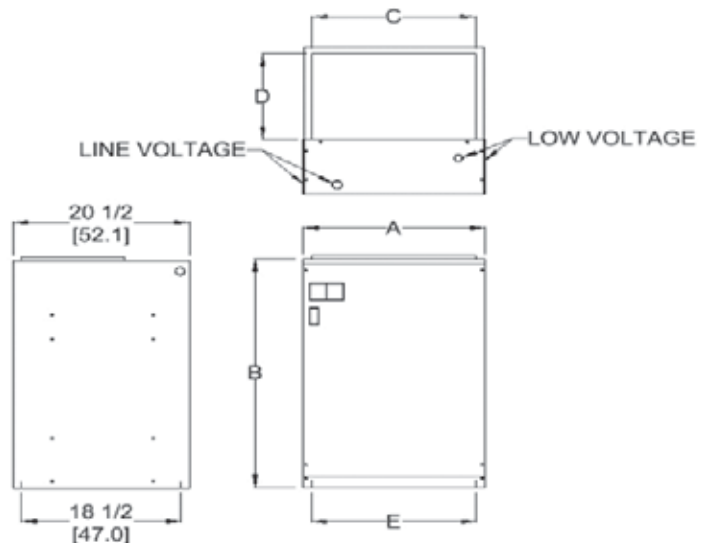
AAL	S	-001
AAL = 240V PSC Motor Multi-Position Electric Furnace	S = 18 & 24 M = 30 & 36 L = 42, 48 & 60	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

E	C	S	03
Electric Heat	Interruption C = Circuit Breaker T = Terminal Block P = Single Point Hookup 3 = 3-Phase Circuit Breaker 4 = 3-Phase Terminal Block	S = 18-36 L = 42-60	<u>Heat Strip</u> 03 = 3 KW 05 = 5 KW 06 = 6 KW 08 = 8 KW 10 = 10 KW 12 = 12 KW 15 = 15 KW 20 = 20 KW 24 = 24 KW 25 = 25 KW 30 = 30 KW

DIMENSIONS AND SPECIFICATIONS

MODEL	WIDTH A"	HEIGHT B"	DUCT OPENING		BOTTOM OPENING	FILTER SIZE	SHIP WEIGHT (LBS)	SKID QTY
			C"	D"	E"			
AALS	21	26	18-3/4	12	18-1/2	16X20	69	16
AALM	21	26	18-3/4	12	18-1/2	16X20	78	8
AALL	24-1/2	32	22-1/4	10-1/2	22	20x20	89	6



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AIR HANDLERS

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PRODUCT DIMENSIONS & SPECIFICATIONS

AAM SERIES MULTI-POSITION ELECTRIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications). Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 30 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. 3-speed motors allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Ten-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	PERFORMANCE DATA					ELECTRICAL DATA							
	NOMINAL COOLING (TONS)	HEATING [KW]		HEATING CAPACITY [MBTUH]		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER		MIN CIRCUIT AMPACITY (SINGLE-POINT POWER)		MAX FUSE OR CIR BKR (SINGLE-POINT POWER)	
		208V	240V	208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
AAM18,19 + ECS00	1.5	0.0	0	0.0	0.0	2.0	2.3	15	15	2.0	2.3	15	15
AAM18,19 + ECS03		2.6	3	7.8	10.2	17	19	20	20	17	19	20	20
AAM18,19 + ECS05		3.8	5	13.0	17.0	26	29	30	30	26	29	30	30
AAM18,19 + ECS06		4.5	6	15.3	20.5	29	34	30	35	29	34	30	35
AAM18,19 + ECS08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50
AAM18,19 + ECS10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60
AAM24,25 + ECS00	2.0	0.0	0	0.0	0.0	2.0	2.3	15	15	2.0	2.3	15	15
AAM24,25 + ECS03		2.6	3	7.8	10.2	17	19	20	20	17	19	20	20
AAM24,25 + ECS05		3.8	5	13.0	17.0	26	29	30	30	26	29	30	30
AAM24,25 + ECS06		4.5	6	15.3	20.5	29	34	30	35	29	34	30	35
AAM24,25 + ECS08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50
AAM24,25 + ECS10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60
AAM30,31 + ECS00	2.5	0.0	0	0.0	0.0	2.9	3.3	15	15	2.9	3.3	15	15
AAM30,31 + ECS03		2.6	3	7.8	10.2	17	19	20	20	17	19	20	20
AAM30,31 + ECS05		3.8	5	13.0	17.0	26	29	30	30	26	29	30	30
AAM30,31 + ECS06		4.5	6	15.3	20.5	30	35	30	35	30	35	30	35
AAM30,31 + ECS08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50
AAM30,31 + ECS10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60
AAM30,31 + ECS15		11.3	15	38.4	51.2	48/23	55/26	50/25	60/30	71	81	80	90
AAM36,37 + ECS00	3.0	0.0	0	0.0	0.0	2.9	3.3	15	15	2.9	3.3	15	15
AAM36,37 + ECS03		2.6	3	7.8	10.2	17	19	20	20	17	19	20	20
AAM36,37 + ECS05		3.8	5	13.0	17.0	26	29	30	30	26	29	30	30
AAM36,37 + ECS06		4.5	6	15.3	20.5	30	35	30	35	30	35	30	35
AAM36,37 + ECS08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50
AAM36,37 + ECS10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60
AAM36,37 + ECS15		11.3	15	38.4	51.2	48/23	55/26	50/25	60/30	70	80	70	90
AAM42,43 + ECL00	3.5	0.0	0	0.0	0.0	5.0	5.5	15	15	5.0	5.5	15	15
AAM42,43 + ECL05		3.8	5	13.0	17.0	28	32	30	35	28	32	30	35
AAM42,43 + ECL06		4.5	6	15.3	20.5	32	37	35	40	32	37	35	40
AAM42,43 + ECL08		6.0	8	20.5	27.3	41	47	50	50	41	47	50	50
AAM42,43 + ECL10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60
AAM42,43 + ECL15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90
AAM42,43 + ECL20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110
AAM42,43 + ECL25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150
AAM42,43 + ECL30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170
AAM48,49 + ECL00	4.0	0.0	0	0.0	0.0	5.0	5.5	15	15	5.0	5.5	15	15
AAM48,49 + ECL05		3.8	5	13.0	17.0	28	32	30	35	28	32	30	35
AAM48,49 + ECL06		4.5	6	15.3	20.5	32	37	35	40	32	37	35	40
AAM48,49 + ECL08		6.0	8	20.5	27.3	41	47	50	50	41	47	50	50
AAM48,49 + ECL10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60
AAM48,49 + ECL15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90
AAM48,49 + ECL20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110
AAM48,49 + ECL25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150
AAM48,49 + ECL30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170
AAM60,61 + ECL00	5.0	0.0	0	0.0	0.0	5.0	5.5	15	15	5.0	5.5	15	15
AAM60,61 + ECL05		3.8	5	13.0	17.0	28	32	30	35	28	32	30	35
AAM60,61 + ECL06		4.5	6	15.3	20.5	32	37	35	40	32	37	35	40
AAM60,61 + ECL08		6.0	8	20.5	27.3	41	47	50	50	41	47	50	50
AAM60,61 + ECL10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60
AAM60,61 + ECL15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90
AAM60,61 + ECL20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110
AAM60,61 + ECL25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150
AAM60,61 + ECL30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170

AIR HANDLERS / AAM

208/240V – 3 PHASE CIRCUIT BREAKER

MODEL	PERFORMANCE DATA					ELECTRICAL DATA			
	NOMINAL COOLING [TONS]	HEATING [KW]		HEATING CAPACITY [MBTUH]		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
		208V	240V	208V	240V	208V	240V	208V	240V
AAM42-61+E312	3.5, 4.0 & 5.0	9.0	12.0	30.7	40.9	36.0	42.0	40.0	50.0
AAM42-61+E315		11.3	15.0	38.4	51.2	44.0	50.0	50.0	50.0
AAM42-61+E324		18.0	24.0	61.4	81.9	55	50/45	60	50/40
AAM42-61+E330		22.5	30.0	76.8	102.4	44/39	50/45	50/40	50/50

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AAM 18/19/24/25	LOW	1/5	2.8	240	835	800	790	750	695
	HIGH				915	880	875	825	770
AAM 30/31/36/37	LOW	1/3	5.4	240	1130	1100	1050	1000	960
	HIGH				1410	1350	1280	1200	1160
AAM 42/43/48/49/60/61	LOW	3/4	9.5	240	1520	1500	1485	1460	1440
	MID				1700	1675	1640	1620	1575
	HIGH				2060	2020	1980	1935	1885

*Wet Coil

AIR HANDLER CHASSIS NOMENCLATURE

AAM	18	F	-001
AAM = 240V PSC Motor Multi-Position Air Handler	Nominal tonnage [MBTUH]	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = R22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

E	C	S	03
Electric Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block P = Single Point Hookup 3 = 3-Phase Circuit Breaker 4 = 3-Phase Terminal Block	S = 18-36 L = 42-60	<u>Heat Strip</u> 03 = 3 KW 05 = 5 KW 06 = 6 KW 08 = 8 KW 10 = 10 KW 12 = 12 KW 15 = 15 KW 20 = 20 KW 24 = 24 KW 25 = 25 KW 30 = 30 KW

AAM

AIR HANDLERS

AIR HANDLERS





PRODUCT DIMENSIONS & SPECIFICATIONS

AAW SERIES VERTICAL WALL MOUNT ELECTRIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Front or bottom return air position. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, short galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 3, 5, 8, & 10 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOMINAL COOLING (TONS)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
			208V	240V	208V	240V	208V	240V	208V	240V
AAW18	FCS00	1-1/2	0	0	0	0	1.9	2.3	15	15
	FCS03		2.25	3	7.7	10.3	15	18	15	20
	FCS05		3.8	5	13	17	25	29	30	30
	FCS08		6.0	8	20.5	27.3	39	44	40	50
	FCS10		7.5	10	25.6	34.1	47	55	50	60
AAW24	FCS00	2	0	0	0	0	1.9	2.3	15	15
	FCS03		2.25	3	7.7	10.3	15	18	15	20
	FCS05		3.8	5	13	17	25	29	30	30
	FCS08		6.0	8	20.5	27.3	39	44	40	50
	FCS10		7.5	10	25.6	34.1	47	55	50	60
AAW30	FCS00	2-1/2	0	0	0	0	2.9	3.3	15	15
	FCS03		2.25	3	7.7	10.3	16	19	15	20
	FCS05		3.8	5	13	17	26	30	30	30
	FCS08		6.0	8	20.5	27.3	40	47	40	50
	FCS10		7.5	10	25.6	34.1	49	56	50	60
AAW36	FCS00	3	0	0	0	0	2.9	3.3	15	15
	FCS03		2.25	3	7.7	10.3	16	19	15	20
	FCS05		3.8	5	13	17	26	30	30	30
	FCS08		6.0	8	20.5	27.3	40	47	40	50
	FCS10		7.5	10	25.6	34.1	49	56	50	60

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC * †				
					0.10	0.20	0.30	0.40	0.50
AAW18 & AAW 24	LOW	1/5	2.8	240	834	795	746	687	620
	HIGH				930	888	823	749	680
AAW30 & AAW36	LOW	1/3	5.4	240	1123	1094	1062	1034	1000
	HIGH				1396	1358	1313	1261	1200

* Wet coil with filter, † - For 208 V multiply by 0.90

AIR HANDLER CHASSIS NOMENCLATURE

AAW	18	F	-001
AAW = 240V PSC Motor Vertical Wall Mount	Nominal tonnage (MBTUH)	<u>Metering Device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

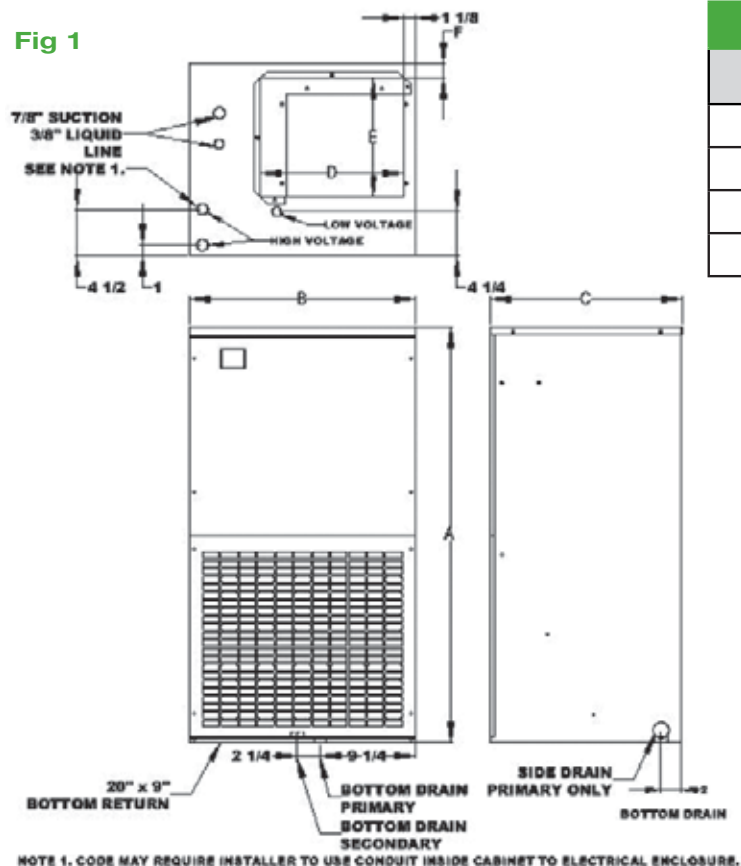
ELECTRIC HEAT KIT NOMENCLATURE

F	C	S	05
Wall Mount Electric Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	S = 18 - 36	Heat strip 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10KW

DIMENSIONS AND SPECIFICATIONS (Fig 1)

MODEL	A"	B"	C"	D"	E"	F"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT [LBS]	SKID QTY
AAW18*	37 1/2 [95]	22 [56]	18-3/4 [48]	14 [36]	10 [25]	3-1/4 [8.3]	20X20	0.055	90	8
AAW24*	37 1/2 [95]	22 [56]	18-3/4 [48]	14 [36]	10 [25]	3-1/4 [8.3]	20X20	0.059	90	8
AAW30*	40 1/2 [103]	22 [56]	18-3/4 [48]	14 [36]	11-1/2 [29]	1-3/8 [3.5]	20X20	0.068	102	8
AAW36*	40 1/2 [103]	22 [56]	18-3/4 [48]	14 [36]	11-1/2 [29]	1-3/8 [3.5]	20X20	0.074	102	8

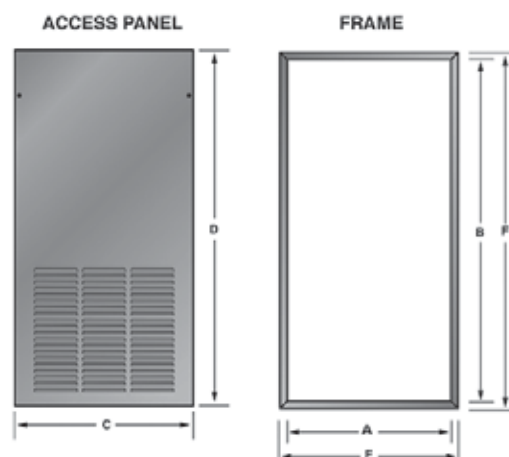
Fig 1



INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"

Fig 2



ACCESS PANEL DIMENSIONS AND SPECIFICATIONS (Fig 2)

PANEL MODEL	FOR USE WITH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
		A	B	C	D	E	F	
WAD-8[S/L]	AAW 18/24	22-1/4	42-1/2	24-1/4	44-1/2	24-1/8	44-3/8	1
WAD-9[S/L]	AAW 30/36	22-1/4	46	24-1/4	48	24-1/8	47-7/8	1



PRODUCT DIMENSIONS & SPECIFICATIONS

ABL SERIES MULTI-POSITION HYDRONIC FURNACE

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal left as shipped (field convertible for downflow or horizontal right)

CABINET

Sturdy, low profile galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR HYDRONIC HEAT KITS

Heats kits available with either circuit breakers or terminal blocks and are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently and allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle

WARRANTY

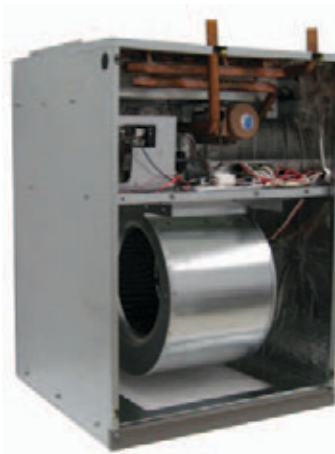
Five-year limited parts warranty.

OPTIONS

See options menu.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA	
		MOTOR SPEED	HEATING COIL		HEATING CAPACITY EWT DEGREES FAHRENHEIT			MIN CIR AMP	MAX FUSE OR CIRCUIT BREAKER
			ROWS	PATTERN	120	140	180		
ABLS	WC/T2S	LOW	2	1 x .866	15700	22100	35200	4.1	15
		HIGH	2		17800	25200	40100		
	WC/T3S	LOW	3		19900	28000	44500		
		HIGH	3		22900	32300	51400		
ABLM	WC/T2S	LOW	2		19500	27500	43900	7.4	15
		HIGH	2		20800	29500	47100		
	WC/T3S	LOW	3		25200	35600	56700		
		HIGH	3		27100	38300	61100		
	WC/T4S	LOW	4		28400	40100	64000		
		HIGH	4		30500	43200	68900		
ABLL	WC/T2L	LOW	2		27100	38400	61200	12.6	15
		MED	2		28300	40000	63900		
		HIGH	2		29800	42200	67300		
	WC/T3L	LOW	3		33000	46700	74500		
		MED	3		34400	48700	77800		
		HIGH	3		36100	51200	81800		
	WC/T4L	LOW	4		37100	52500	83800		
		MED	4		38600	54700	87400		
		HIGH	4		40500	57400	91800		

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
ABLS	LOW	1/5	2.8	120	780	740	700	645	585
	HIGH				850	800	745	685	620
ABLM	LOW	1/3	5.4		970	940	880	825	750
	HIGH				1150	1100	1045	980	920
ABLL	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MED				1530	1470	1420	1360	1310
	HIGH				1730	1670	1600	1540	1480

* Dry coil with filter in place

AIR HANDLER CHASSIS NOMENCLATURE

ABL	2	-001
ABL = 120V PSC Motor Multi-Position Hydronic Furnace	S = 18 & 24 M = 30 & 36 L = 42, 48 & 60	Option Code

HYDRONIC HEAT KIT NOMENCLATURE

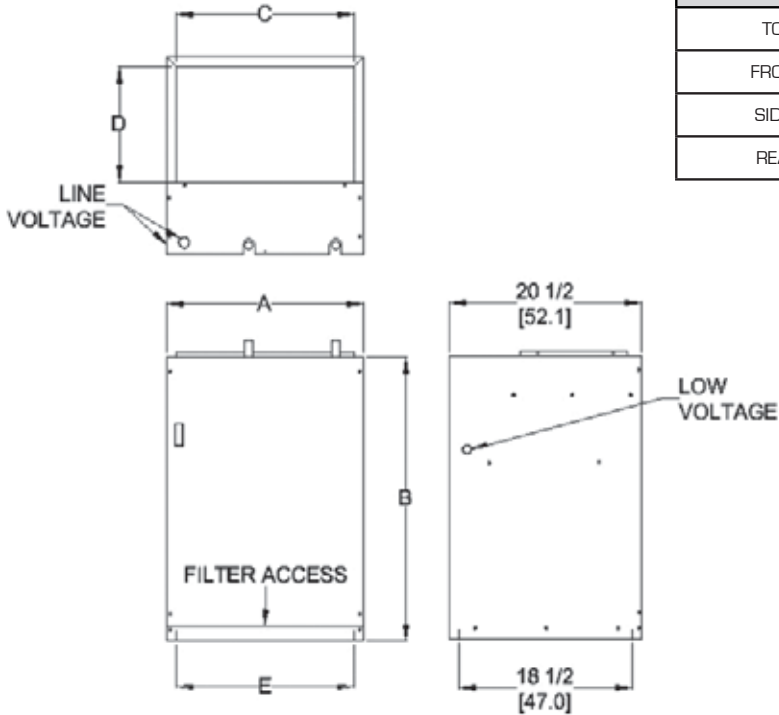
W	C	2	S	P
Multi-position Hydronic Heat	Interruption C = Circuit Breaker T = Terminal Block	# of rows 2 = 2 rows 3 = 3 rows 4 = 4 rows	S = 18, 24, 30, 36 L = 42, 48, 60	P = with pump L = less pump

DIMENSIONS AND SPECIFICATIONS

MODEL	WIDTH A"	HEIGHT B"	DUCT OPENING		BOTTOM OPENING E"	FILTER SIZE	SHIP WEIGHT (LBS)	SKID QTY
			C"	D"				
ABLS	21	21	18-3/4	12	18-1/2	16 x 16	83	8
ABLM	21	21	18-3/4	12	18-1/2	16 x 16	85	6
ABLL	24-1/2	21	22-1/4	14-1/2	22-1/4	20 x 20	110	6

INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"



ABL
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PRODUCT DIMENSIONS & SPECIFICATIONS

ABM SERIES MULTI-POSITION HYDRONIC AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for downflow or horizontal left applications). Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Totally lead free constructed coil. Suitable for potable applications.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. 3-speed motors allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged GLN drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA		
		NOMINAL COOLING (TONS)	HEATING COIL		HEATING CAPACITY EWT DEGREES FAHRENHEIT 006 PUMP MODEL 3.5 GPM			MIN CIR AMP	MAX FUSE OR CIR BKR	
			ROWS	SLAB SIZE	120	140	180			
ABM18, 19	WC/T2SP/L	1.5	2	18"x12"	17700	24900	39600	4.1	15	
	WC/T3SP/L		3		21600	30500	48400			
ABM24, 25	WC/T2SP/L	2	2		20200	28500	45400	7.4		
	WC/T3SP/L		3		25000	35300	56300			
ABM30, 31	WC/T2SP/L	2.5	2		22100	31300	49900			
	WC/T3SP/L		3		27700	39100	62400			
	WC/T4SP/L		4		31000	43900	70100			
ABM36, 37	WC/T2SP/L	3	2		23700	33500	53600			
	WC/T3SP/L		3		29800	42100	67300			
	WC/T4SP/L		4		33500	47400	75800			
ABM42, 43	WC/T2LP/L	3.5	2	22"x14.5"	30200	42600	68000		12.5	25
	WC/T3LP/L		3		36300	51400	76600			
	WC/T4LP/L		4		43600	61600	92900			
ABM48, 49	WC/T2LP/L	4	2		31700	44800	71400			
	WC/T3LP/L		3		38200	54000	80600			
	WC/T4LP/L		4		45900	64900	98000			
ABM60, 61	WC/T2LP/L	5	2		32900	46600	74400			
	WC/T3LP/L		3		39700	56200	84000			
	WC/T4LP/L		4		47800	67600	102200			

MODEL	HEAT KIT	PERFORMANCE DATA								ELECTRICAL DATA	
		MOTOR SPEED	HEATING COIL		Δ P FT. WATER	HEATING CAPACITY EWT DEGREES FAHRENHEIT 009 PUMP MODEL 5 GPM				MIN CIR AMP	MAX FUSE OR CIR BKR
			ROWS	SLAB SIZE		120	140	160	180		
ABM 18/19 24/25	WC2SP	LOW	2	18 x 12	5.6	18700	26400	34100	41900	5.3	15
		HIGH	2	18 x 12	5.6	21600	30500	39500	48500		
	WC3SP	LOW	3	18 x 12	4.2	22900	32300	41700	51200		
		HIGH	3	18 x 12	4.2	26900	38000	49100	60300		
ABM 30/31 36/37	WC2SP	LOW	2	18 x 12	5.6	23900	33800	43700	53800	8.5	15
		HIGH	2	18 x 12	5.6	25800	36500	47300	58200		
	WC3SP	LOW	3	18 x 12	4.2	30100	42500	55100	67700		
		HIGH	3	18 x 12	4.2	32800	46300	60000	73700		
	WC4SP	LOW	4	18 x 12	2.2	34000	48000	62300	76600		
		HIGH	4	18 x 12	2.2	37200	52600	68100	83800		
ABM 42/43 48/49 60/61	WC2LP	LOW	2	22 x 14.5	7.2	33200	46800	60600	74500	13.6	15
		MED	2	22 x 14.5	7.2	35000	49400	64000	78700		
		HIGH	2	22 x 14.5	7.2	36600	51800	67100	82500		
	WC3LP	LOW	3	22 x 14.5	3.4	40500	57300	74200	84400		
		MED	3	22 x 14.5	3.4	42900	60700	78600	89500		
		HIGH	3	22 x 14.5	3.4	45000	63600	82500	94000		
	WC4LP	LOW	4	22 x 14.5	2.2	49000	69300	89700	103600		
		MED	4	22 x 14.5	2.2	52200	73800	95600	110400		
		H	4	22 x 14.5	2.2	55000	77700	100800	116300		
			H	4	22 x 14.5	2.2	55000	77700	100800		

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BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
ABM18/19/24/25	LOW	1/5	2.8	120	780	740	700	645	585
	HIGH				850	800	745	685	620
ABM 30/31/36/37	LOW	1/3	5.4		1000	980	920	870	800
	HIGH				1210	1190	1160	1130	1070
ABM 42/43/48/49/60/61	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MED				1530	1470	1420	1360	1310
	HIGH				1730	1670	1600	1540	1480

* Dry coil with filter in place

AIR HANDLER CHASSIS NOMENCLATURE

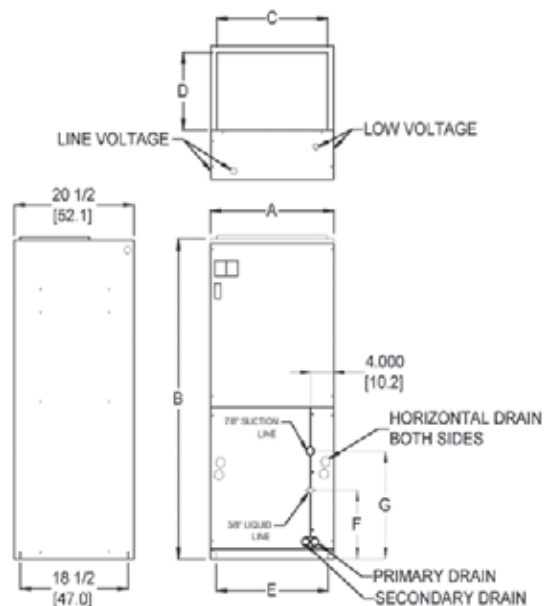
ABM	18	F	-001
ABM = 120V PSC Motor Multi-Position Hydronic Air Handler	Nominal tonnage [MBTUH]	<u>Metering Device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = F-22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

HYDRONIC HEAT KIT NOMENCLATURE

W	C	2	S	P
Water heat [hydronic]	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	<u>2-2 row hydronic</u> <u>3-3 row hydronic</u> <u>4-4 row hydronic</u> Q = no heat	S= 18-37, coil size- 18 x 12 L= 42-61, coil size- 22 x 14.5	P= 1/40 hp pump 8 = 1/25 hp pump R = 1/8 hp pump L= less pump

DIMENSIONS AND SPECIFICATIONS

MODEL	A"	B"	C"	D"	E"	F"	G"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
ABM18/19+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	7-1/4 [18]	10-1/4 [26]	16X20	0.055	99	4
ABM24/25+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	12-1/4 [31]	16X20	0.059	100	4
ABM30/31+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	14-1/4 [36]	16X20	0.068	118	4
ABM36/37+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	10-1/4 [26]	16-1/4 [41]	16X20	0.074	147	4
ABM42/43+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	11 [28]	16 [41]	20X20	0.080	153	3
ABM48/49+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	13 [33]	18 [46]	20X20	0.084	180	3
ABM60/61+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	15 [38]	20 [51]	20X20	0.092	200	3



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PRODUCT DIMENSIONS & SPECIFICATIONS

ABW SERIES WALL MOUNT HYDRONIC HEAT DX COOL AIR HANDLERS



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



STANDARD FEATURES

APPLICATION VERSATILITY

Front or bottom return air. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, short galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack. Low leak cabinet features are standard.

MODULAR HYDRONIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row, providing 16,000 to 59,000 BTU's of heat. Heat kits are easily installed in the field using moxex plugs or can be ordered factory-installed. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option. Totally lead free constructed coil. Suitable for potable applications.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.

ABW
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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HYDRONIC HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA		
		NOMINAL COOLING	HEATING COIL		HEATING CAPACITY BTU/HR at 3 GPM			MIN.CIR. AMPACITY	MAX FUSE OR CIRCUIT BREAKER	
			ROWS	SIZE	120	140	180			120V
ABW18	UC2SP	1.5	2	18"x10-1/2	16100	22800	36300	4.1	15	
	UC3SP		3		18500	26100	41600			
ABW24	UC2SP	2.0	2		18200	25800	41200			7.4
	UC3SP		3		21200	29900	47700			
ABW30	UC2SP	2.5	2		19900	28100	45000	7.4		
	UC3SP		3		23200	32800	52400			
	UC4SP		4		24300	34400	54900			
ABW36	UC2SP	3.0	2		21200	30000	48000			
	UC3SP		3		24800	35200	56200			
	UC4SP		4		26100	36900	59000			

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
ABW18 & ABW 24	LOW	1/5	2.8	120	772	736	690	633	574
	HIGH				829	784	732	663	600
ABW30 & ABW36	LOW	1/3	5.4		1000	980	920	870	800
	HIGH				1210	1190	1160	1130	1070

* Dry coil

AIR HANDLER CHASSIS NOMENCLATURE

ABW	18	F	-001
ABW = 120V PSC Motor Vertical Wall Mount	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = R22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

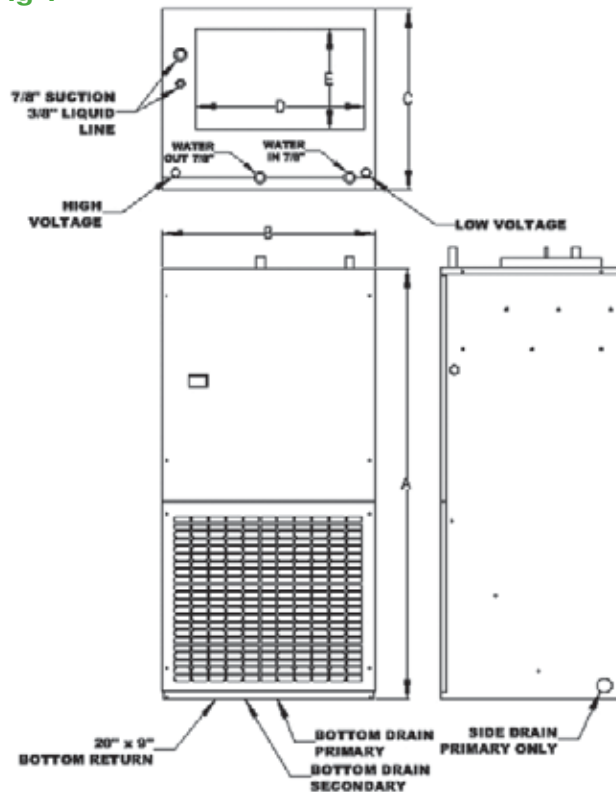
HYDRONIC HEAT KIT NOMENCLATURE

U	C	2	S	P
Wall Mount Hydronic Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	<u># of rows</u> 2 = 2 rows 3 = 3 rows 4 = 4 rows	S = 18 - 36	P = with pump L = less pump

DIMENSIONS AND SPECIFICATIONS (Fig 1)

MODEL	A"	B"	C"	D"	E"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT [LBS]	SKID QTY
ABW18*	44-1/2 [113]	22 [56]	18-3/4 [48]	17-5/8 [45]	10-1/2 [27]	20X20	0.055	110	4
ABW24*	44-1/2 [113]	22 [56]	18-3/4 [48]	17-5/8 [45]	10-1/2 [27]	20X20	0.059	110	4
ABW30*	44-1/2 [113]	22 [56]	18-3/4 [48]	17-5/8 [45]	10-1/2 [27]	20X20	0.068	118	4
ABW36*	44-1/2 [113]	22 [56]	18-3/4 [48]	17-5/8 [45]	10-1/2 [27]	20X20	0.074	118	4

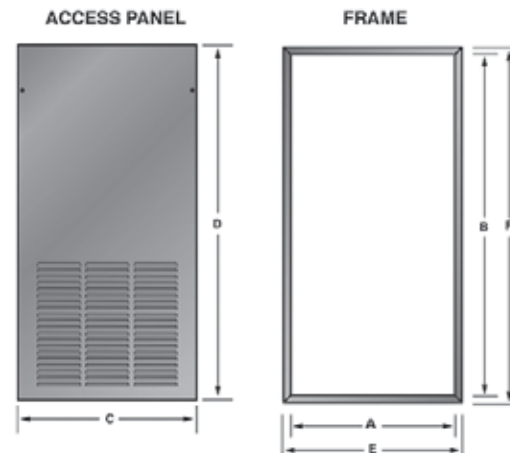
Fig 1



INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"

Fig 2



ACCESS PANEL DIMENSIONS AND SPECIFICATIONS (Fig 2)

PANEL MODEL	FOR USE WITH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
		A	B	C	D	E	F	
WAD-10[S/L] [+ 6"]	ABW	22-1/4	52	24-1/4	54	24-1/8	47-7/8	1



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AEC SERIES CEILING MOUNT ELECTRIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Built in mounting tabs for ceiling or furrdown mounting. Louvered ceiling access panel has separate frame that attaches to ceiling joists. Solid access panel available for use with end return installations. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, fully insulated galvanized steel cabinet with painted front panels.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 3, 5, 8, & 10 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using Molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA										
MODEL	HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOMINAL COOLING [TONS]	HEATING [KW]		HEATING CAPACITY [MBTUH]		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
			208V	240V	208V	240V	208V	240V	208V	240V
AEC18	GCS00	1-1/2	0	0	0	0	3.1	3.5	15	15
	GCS03		2.3	3	7.7	10.3	17	19	15	20
	GCS05		3.8	5	13	17	26	30	30	30
	GCS08		6.0	8	20.5	27.3	39	45	40	50
	GCS10		7.5	10	25.6	34.1	48	56	50	60
AEC24	GCS00	2	0	0	0	0	3.1	3.5	15	15
	GCS03		2.3	3	7.7	10.3	17	19	15	20
	GCS05		3.8	5	13	17	26	30	30	30
	GCS08		6.0	8	20.5	27.3	39	45	40	50
	GCS10		7.5	10	25.6	34.1	48	56	50	60
AEC30	GCS00	2-1/2	0	0	0	0	4.6	5.1	15	15
	GCS03		2.3	3	7.7	10.3	18	21	20	25
	GCS05		3.8	5	13	17	27	31	30	35
	GCS08		6.0	8	20.5	27.3	41	47	50	50
	GCS10		7.5	10	25.6	34.1	50	57	50	60
AEC36 & AEC37	GCS00	3	0	0	0	0	4.6	5.1	15	15
	GCS03		2.3	3	7.7	10.3	18	21	20	25
	GCS05		3.8	5	13	17	27	31	30	35
	GCS08		6.0	8	20.5	27.3	41	47	50	50
	GCS10		7.5	10	25.6	34.1	50	57	50	60

BLOWER DATA									
MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC * †				
					0.10	0.20	0.30	0.40	0.50
AEC 18 & AEC 24	TAP 5	1/3	2.8	240	890	830	780	730	680
	TAP 4				750	680	640	600	560
	TAP 3				600	565	539	502	480
	TAP 2				750	830	780	730	560
	TAP 1				890	680	640	600	680
AEC 30 & AEC 36 &AEC 37	TAP 5	1/2	4.1		1220	1160	1110	1070	1010
	TAP 4				1110	1075	1040	1010	980
	TAP 3				898	873	853	827	800
	TAP 2				1110	1075	1040	1010	980
	TAP 1				1220	1160	1110	1070	1010

* Wet coil with filter † For 208 operation multiply by 0.90

AIR HANDLER CHASSIS NOMENCLATURE			
AEC	18	F	-001
AEC = 240V X13 Motor Ceiling Mount	Nominal tonnage [MBTUH]	Metering device 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = R22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

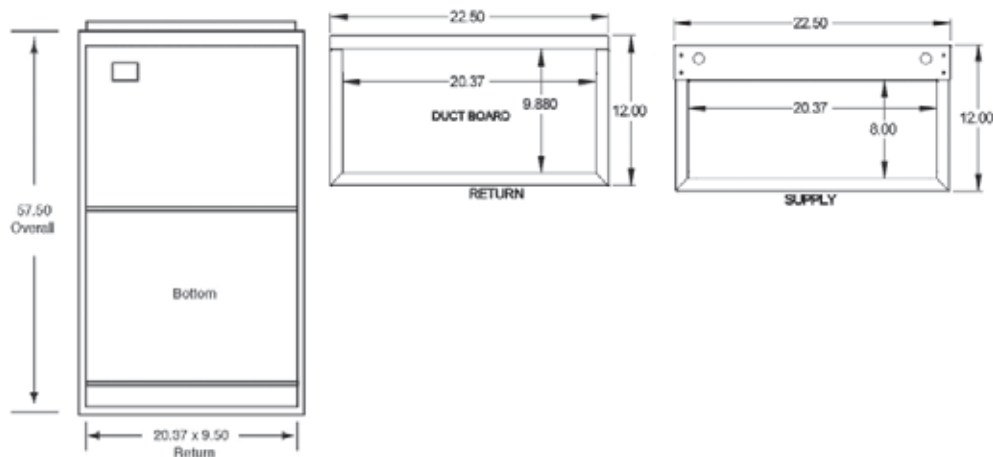
G	C	S	03
Ceiling Mount Electric Heat	Interruption C = Circuit Breaker T = Terminal Block	S = 18-36	Heat Strip 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10 KW

DIMENSIONS AND SPECIFICATIONS

MODEL	HEIGHT A"	WIDTH B"	DEPTH C"	D"	E"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AEC18*	57 1/2 (146)	22 1/2 (57)	12 (30)	20 3/8 (52)	8 (20)	20X20	0.055	91	8
AEC24*	57 1/2 (146)	22 1/2 (57)	12 (30)	20 3/8 (52)	8 (20)	20X20	0.059	91	8
AEC30*	57 1/2 (146)	22 1/2 (57)	12 (30)	20 3/8 (52)	8 (20)	20X20	0.068	100	8
AEC36* & AEC37*	57 1/2 (146)	22 1/2 (57)	12 (30)	20 3/8 (52)	8 (20)	20X20	0.074	100	8

INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"



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PRODUCT DIMENSIONS & SPECIFICATIONS

AEM SERIES VARIABLE SPEED MULTI-POSITION ELECTRIC HEAT DX COOL AIR HANDLERS



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for downflow or horizontal left applications). Can be AHRI certified with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

BLOWER

Direct drive variable-speed blowers circulate air quietly and efficiently. Variable speed motors allow for precise air volume selection. Motor speeds and torques programmed in the motor. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 30 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged, UV safe, GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. All drain connections are 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Ten-year limited parts warranty.

OPTIONS

See options menu.

AEM
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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	ELECTRIC HEAT KIT MODEL	PERFORMANCE DATA						ELECTRICAL DATA							
		NOMINAL COOLING (TONS)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER		MIN CIR AMP (SINGLE POWER)		MAX FUSE OR CIR BKR (SINGLE POWER)		
			208V	240V	208V	240V	208V	240V	208V	240V	208V	240V	208V	240V	
AEM18,19	EC-00	1.5	0.0	0	0.0	0.0	1.7	2.3	15	15	1.7	2.3	15	15	
	EC-03		2.6	3	7.8	10.2	18	19	20	20	18	19	20	20	
	EC-05		3.8	5	13.0	17.0	25	29	25	30	25	29	25	30	
	EC-08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50	
	EC-10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60	
AEM24,25	EC-00	2.0	0.0	0	0.0	0.0	1.7	2.3	15	15	1.7	2.3	15	15	
	EC-03		2.6	3	7.8	10.2	18	19	20	20	18	19	20	20	
	EC-05		3.8	5	13.0	17.0	25	29	25	30	25	29	25	30	
	EC-08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50	
	EC-10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60	
AEM30,31	EC-00	2.5	0.0	0	0.0	0.0	2.4	3.3	15	15	2.4	3.3	15	15	
	EC-03		2.6	3	7.8	10.2	18	19	20	20	18	19	20	20	
	EC-05		3.8	5	13.0	17.0	25	29	25	30	25	29	25	30	
	EC-08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50	
	EC-10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60	
	EC-15		11.3	15	38.4	51.2	48/23	55/26	50/25	60/30	70	81	70	90	
AEM36,37	EC-00	3.0	0.0	0	0.0	0.0	2.4	3.3	15	15	2.4	3.3	15	15	
	EC-03		2.6	3	7.8	10.2	18	19	20	20	18	19	20	20	
	EC-05		3.8	5	13.0	17.0	25	29	25	30	25	29	25	30	
	EC-08		6.0	8	20.5	27.3	39	45	40	50	39	45	40	50	
	EC-10		7.5	10	25.6	34.1	48	55	50	60	48	55	50	60	
	EC-15		11.3	15	38.4	51.2	48/23	55/26	50/25	60/30	70	80	70	90	
AEM42,43	EC-00	3.5	0.0	0	0.0	0.0	4.1	5.5	15	15	4.1	5.5	15	15	
	EC-05		3.8	5	13.0	17.0	27	32	30	35	27	32	30	35	
	EC-10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60	
	EC-15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90	
	EC-20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110	
	EC-25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150	
	EC-30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170	
AEM48,49	EC-00	4.0	0.0	0	0.0	0.0	4.1	5.5	15	15	4.1	5.5	15	15	
	EC-05		3.8	5	13.0	17.0	27	32	30	35	27	32	30	35	
	EC-10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60	
	EC-15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90	
	EC-20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110	
	EC-25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150	
	EC-30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170	
AEM60,61	EC-00	5.0	0.0	0	0.0	0.0	4.1	5.5	15	15	4.1	5.5	15	15	
	EC-05		3.8	5	13.0	17.0	27	32	30	35	27	32	30	35	
	EC-10		7.5	10	25.6	34.1	49	58	50	60	49	58	50	60	
	EC-15		11.3	15	38.5	51.2	49/23	58/26	50/25	60/30	72	84	80	90	
	EC-20		15.0	20	51.2	68.2	49/45	58/52	50/50	60/60	94	110	100	110	
	EC-25		18.8	25	64.0	85.3	49/45/23	58/52/26	50/50/25	60/60/30	117	136	120	150	
	EC-30		22.5	30	76.8	102.4	49/45/45	58/52/52	50/50/50	60/60/60	139	162	140	170	

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *						
					0.10	0.20	0.30	0.40	0.50	0.60	0.70
AEM 18/19/24/25	TAP 5	1/3	2.8	240	932	894	862	827	800	762	
	TAP 4				750	706	674	627	600	561	
	TAP 3				600	565	539	502	480	449	
	TAP 2				750	706	674	627	600	561	
	TAP 1				932	894	862	827	800	762	
AEM 30/31/36/37	TAP 5	1/2	4.1		1291	1280	1252	1227	1200	1171	
	TAP 4				1122	1091	1066	1034	1000	982	
	TAP 3				898	873	853	827	800	786	
	TAP 2				745	698	668	630	600	558	
	TAP 1				1291	1280	1252	1227	1200	1171	
AEM 42/43/48/49/60/61	TAP 5	1	7.6		2018	1987	1961	1922	1889	1856	1823
	TAP 4				1738	1696	1667	1636	1598	1566	1527
	TAP 3				1546	1521	1482	1439	1396	1360	1321
	TAP 2				1367	1342	1303	1260	1217	1181	1142
	TAP 1				2018	1987	1961	1922	1889	1856	1823

*Wet coil

AIR HANDLER CHASSIS NOMENCLATURE

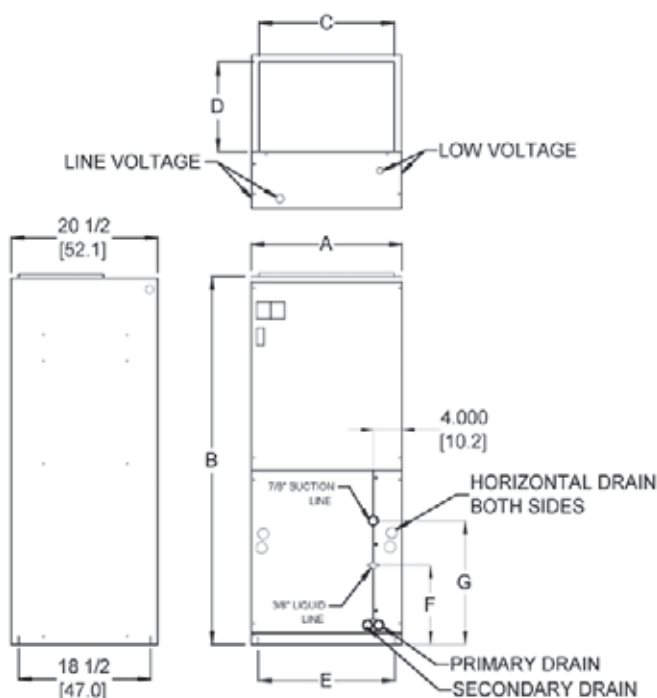
AEM	18	F	-001
AEM = 240V X13 Motor Multi-Position Air Handler	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

E	C	S	03
Electric Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block P = Circuit Breaker w/Single Point 3 = 3-Phase Circuit Breaker 4 = 3-Phase Terminal Block	S = 18-37 L = 42-61	<u>Heat Strip</u> 00 = 0 KW 03 = 3 KW 05 = 5 KW 06 = 6 KW 08 = 8 KW 10 = 10 KW 12 = 12 KW 15 = 15 KW 20 = 20 KW 24 = 24 KW 25 = 25 KW 30 = 30 KW

DIMENSIONS AND SPECIFICATIONS

MODEL	A"	B"	C"	D"	E"	F"	G"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AEM18,19+E*	21 [53]	40 [102]	18-3/4 [48]	12 [30]	18-1/2 [47]	7-1/4 [18]	10-1/4 [26]	16X20	0.055	99	8
AEM24,25+E*	21 [53]	40 [102]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	12-1/4 [31]	16X20	0.059	100	8
AEM30,31+E*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	14-1/4 [36]	16X20	0.068	118	4
AEM36,37+E*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	10-1/4 [26]	16-1/4 [41]	16X20	0.074	147	4
AEM42,43+E*	24-1/2 [62]	57 [145]	22-1/4 [57]	10-1/2 [27]	22 [56]	11 [28]	16 [41]	20X20	0.080	153	3
AEM48,49+E*	24-1/2 [62]	57 [145]	22-1/4 [57]	10-1/2 [27]	22 [56]	13 [33]	18 [46]	20X20	0.084	180	3
AEM60,61+E*	24-1/2 [62]	57 [145]	22-1/4 [57]	10-1/2 [27]	22 [56]	15 [38]	20 [51]	20X20	0.092	200	3



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PRODUCT DIMENSIONS & SPECIFICATIONS

AEW SERIES VERTICAL WALL MOUNT ELECTRIC HEAT DX COOL AIR HANDLERS



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



STANDARD FEATURES

APPLICATION VERSATILITY

Front or bottom return air position. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, short galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 3, 5, 8, & 10 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.

AEW
AIR HANDLERS

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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOMINAL COOLING (TONS)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
			208V	240V	208V	240V	208V	240V	208V	240V
AEW18	FCS00	1-1/2	0	0	0	0	3.1	3.5	15	15
	FCS03		2.3	3	7.7	10.3	17	19	15	20
	FCS05		3.8	5	13	17	26	30	30	30
	FCS08		6.0	8	20.5	27.3	39	45	40	50
	FCS10		7.5	10	25.6	34.1	48	56	50	60
AEW24	FCS00	2	0	0	0	0	3.1	3.5	15	15
	FCS03		2.3	3	7.7	10.3	17	19	15	20
	FCS05		3.8	5	13	17	26	30	30	30
	FCS08		6.0	8	20.5	27.3	39	45	40	50
	FCS10		7.5	10	25.6	34.1	48	56	50	60
AEW30	FCS00	2-1/2	0	0	0	0	4.6	5.1	15	15
	FCS03		2.3	3	7.7	10.3	18	21	20	25
	FCS05		3.8	5	13	17	27	31	30	35
	FCS08		6.0	8	20.5	27.3	41	47	50	50
	FCS10		7.5	10	25.6	34.1	50	57	50	60
AEW36	FCS00	3	0	0	0	0	4.6	5.1	15	15
	FCS03		2.3	3	7.7	10.3	18	21	20	25
	FCS05		3.8	5	13	17	27	31	30	35
	FCS08		6.0	8	20.5	27.3	41	47	50	50
	FCS10		7.5	10	25.6	34.1	50	57	50	60

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC * †				
					0.10	0.20	0.30	0.40	0.50
AEW 18 & AEW 24	TAP 5	1/3	2.8	240	909	864	840	800	782
	TAP 4				723	690	652	631	600
	TAP 3				600	565	539	502	480
	TAP 2				723	690	652	631	600
	TAP 1				909	864	840	800	782
AEW 30 & AEW 36	TAP 5	1/2	4.1		1365	1332	1303	1271	1240
	TAP 4				1174	1132	1106	1078	1047
	TAP 3				898	873	853	827	800
	TAP 2				745	698	668	630	600
	TAP 1				1365	1332	1303	1271	1240

* Wet coil with filter †For 208 operation multiply by 0.90

AIR HANDLER CHASSIS NOMENCLATURE

AEC	18	F	-001
AEW = 240V X13 Motor Vertical Wall Mount	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = R22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

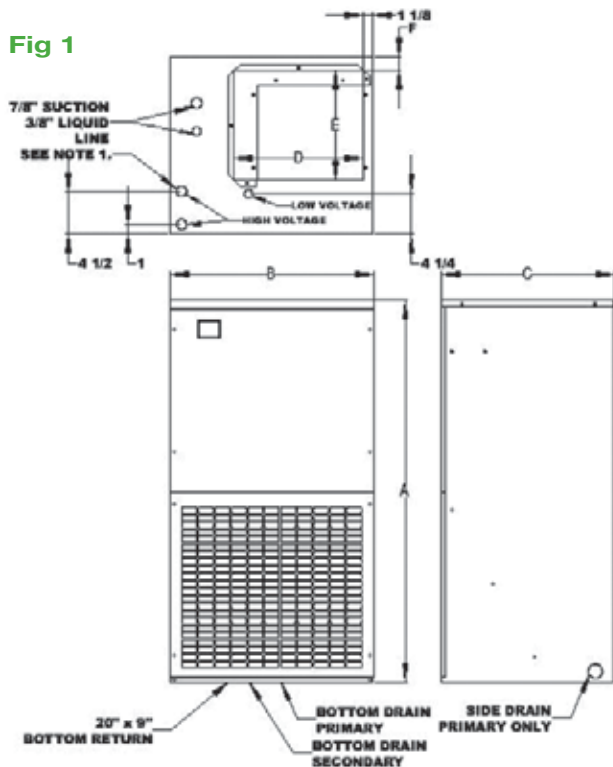
ELECTRIC HEAT KIT NOMENCLATURE

G	C	S	O3
Wall Mount Electric Heat	Interruption C = Circuit Breaker T = Terminal Block	S = 18-36	Heat Strip 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10 KW

DIMENSIONS AND SPECIFICATIONS (Fig 1)

MODEL	HEIGHT A"	WIDTH B"	DEPTH C"	D"	E"	F"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AEW18*	37 1/2 (95)	22 (56)	18 3/4 (48)	14 (36)	10 (25)	3-1/4 (8.3)	20X20	0.055	90	8
AEW24*	37 1/2 (95)	22 (56)	18 3/4 (48)	14 (36)	10 (25)	3-1/4 (8.3)	20X20	0.059	90	8
AEW30*	40 1/2 (103)	22 (56)	18 3/4 (48)	14 (36)	11-1/2 (29)	1-3/8 (3.5)	20X20	0.068	102	8
AEW36*	40 1/2 (103)	22 (56)	18 3/4 (48)	14 (36)	11-1/2 (29)	1-3/8 (3.5)	20X20	0.074	102	8

Fig 1

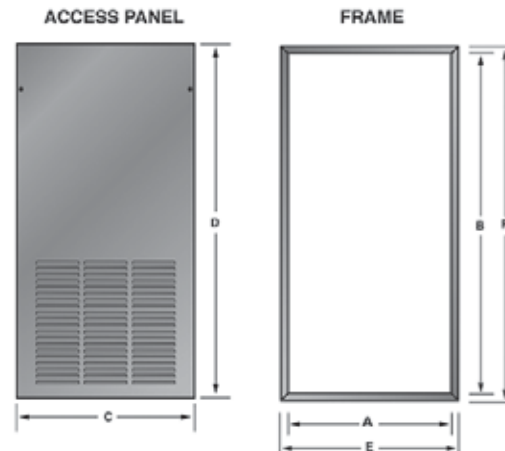


NOTE 1. CODE MAY REQUIRE INSTALLER TO USE CONDUIT INSIDE CABINET TO ELECTRICAL ENCLOSURE.

INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"

Fig 2



ACCESS PANEL DIMENSIONS AND SPECIFICATIONS (Fig 2)

PANEL MODEL	FOR USE WITH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
		A	B	C	D	E	F	
WAD-8(S/L)	AEW 18/24	22-1/4	42-1/2	24-1/4	44-1/2	24-1/8	44-3/8	1
WAD-9(S/L)	AEW 30/36	22-1/4	46	24-1/4	48	24-1/8	47-7/8	1



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AEW
AIR HANDLERS



PRODUCT DIMENSIONS & SPECIFICATIONS

AFM SERIES HIGH EFFICIENCY X13 MULTI-POSITION HYDRONIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications). Can be AHRI certified with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

BLOWER

Direct drive variable-speed blowers circulate air quietly and efficiently. Variable speed motors allow for precise air volume selection. Motor speeds and torques programmed in the motor. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle.

MODULAR HYDRONIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row, providing 16,000 to 59,000 BTU's of heat. Heat kits are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged, UV safe, GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HYDRONIC HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA			
		NOMINAL COOLING	HEATING COIL		HEATING CAPACITY BTU/HR at 3 GPM			MIN.CIR. AMPACITY	MAX FUSE OR CIRCUIT BREAKER		
					ENTERING WATER TEMP						
			ROWS	SIZE	120°	140°	180°				
AFM18, 19	WC/T2SP/L	1.5	2	18"x12"	17700	25100	40400	6.6	15		
	WC/T3SP/L		3		22600	32000	51300				
AFM24, 25	WC/T2SP/L	2	2		20100	28700	46100			9.1	20
	WC/T3SP/L		3		26100	37000	59300				
AFM30, 31	WC/T2SP/L	2.5	2		22100	31400	50600	9.1	20		
	WC/T3SP/L		3		28700	40900	65500				
	WC/T4SP/L		4		32500	46100	74000				
AFM36, 37	WC/T2SP/L	3	2		23600	33800	54300			14.3	30
	WC/T3SP/L		3		31000	44000	70600				
	WC/T4SP/L		4		34900	49700	79700				
AFM42, 43	WC/T2LP/L	3.5	2	22"x14.5"	31000	44100	70700	14.3	30		
	WC/T3LP/L		3		37800	53800	86300				
	WC/T4LP/L		4		42600	60600	97100				
AFM48, 49	WC/T2LP/L	4	2		32400	46000	73900			14.3	30
	WC/T3LP/L		3		39500	56200	90100				
	WC/T4LP/L		4		44400	63200	101300				
AFM60, 61	WC/T2LP/L	5	2		34100	48600	77900	14.3	30		
	WC/T3LP/L		3		41500	59100	94800				
	WC/T4LP/L		4		46600	66300	106400				

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AFM 18/19/24/25	TAP 5	1/3	4.8	240	900	853	797	738	673
	TAP 4				670	646	613	592	553
	TAP 3				500	476	452	421	400
	TAP 2				400	381	360	339	312
	TAP 1				900	853	797	738	673
AFM 30/31/36/37	TAP 5	1/2	6.8		1150	1087	1030	975	910
	TAP 4				1080	1048	1010	960	895
	TAP 3				900	862	825	796	745
	TAP 2				700	663	632	600	552
	TAP 1				500	473	449	421	395
AFM 42/43/48/60/61	TAP 5	1	10.9		1850	1806	1752	1700	1652
	TAP 4				1704	1656	1600	1532	1479
	TAP 3				1494	1461	1426	1400	1364
	TAP 2				1350	1310	1272	1229	1175
	TAP 1				676	652	621	600	559

*Dry coil

AIR HANDLERS / AFM

AIR HANDLER CHASSIS NOMENCLATURE

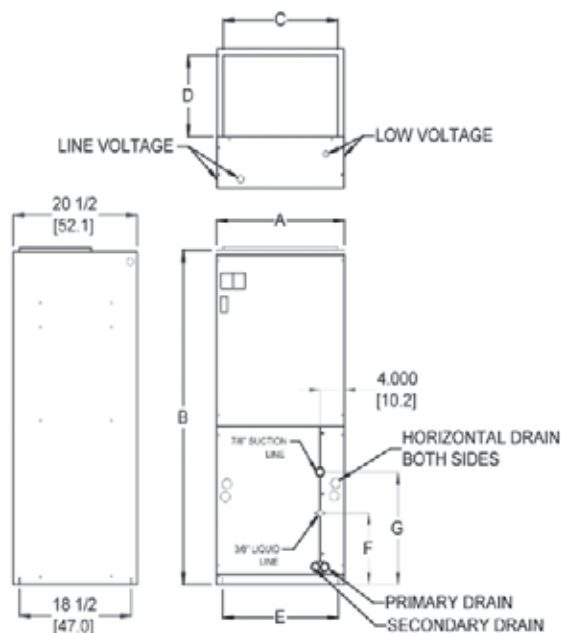
AFM	18	G	-001
AFM = 120V X13 Motor Multi-Position Air Handler	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

HYDRONIC HEAT KIT NOMENCLATURE

U	C	2	S	P
Water heat (hydronic)	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	2- 2 Row Hydronic Coil 3- 3 Row Hydronic Coil 4- 4 Row Hydronic Coil	S= 18-37, Coil size- 18 x 12 L= 42-61, Coil size- 22 x 14.5	P= w/pump L= less pump

DIMENSIONS AND SPECIFICATIONS

MODEL	A"	B"	C"	D"	E"	F"	G"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AFM18/19+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	7-1/4 [18]	10-1/4 [26]	16X20	0.055	99	4
AFM24/25+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	12-1/4 [31]	16X20	0.059	100	4
AFM30/31+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	14-1/4 [36]	16X20	0.068	118	4
AFM36/37+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	10-1/4 [26]	16-1/4 [41]	16X20	0.074	147	4
AFM42/43+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	11 [28]	16 [41]	20X20	0.080	153	3
AFM48/49+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	13 [33]	18 [46]	20X20	0.084	180	3
AFM60/61+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	15 [38]	20 [51]	20X20	0.092	200	3



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PRODUCT DIMENSIONS & SPECIFICATIONS

AFW SERIES WALL MOUNT HYDRONIC HEAT DX COOL AIR HANDLERS



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



STANDARD FEATURES

APPLICATION VERSATILITY

Front or bottom return air. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, short galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack. Low leak cabinet features are standard.

MODULAR HYDRONIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row, providing 16,000 to 59,000 BTU's of heat. Heat kits are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option. Totally lead free constructed coil. Suitable for potable applications.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent coil freeze during off cycle.

DX COIL

High efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" FPT. Access door allows for coil cleaning.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.

AFW
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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HYDRONIC HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA	
		NOMINAL COOLING	HEATING COIL		HEATING CAPACITY BTU/HR at 3 GPM			MIN.CIR. AMPACITY	MAX FUSE OR CIRCUIT BREAKER
					ENTERING WATER TEMP				
			ROWS	SIZE	120°	140°	180°		
AFW18	UC2SP	1.5	2	18"x10-1/2	16100	22800	36300	6.6	15
	UC3SP		3		18500	26100	41600		
AFW24	UC2SP	2.0	2		18200	25800	41200	6.6	15
	UC3SP		3		21200	29900	47700		
AFW30	UC2SP	2.5	2		19900	28100	45000	9.0	15
	UC3SP		3		23200	32800	52400		
	UC4SP		4		24300	34400	54900		
AFW36	UC2SP	3.0	2		21200	30000	48000	9.0	15
	UC3SP		3		24800	35200	56200		
	UC4SP		4		26100	36900	59000		

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AFW18 & AFW 24	TAP 5	1/3	4.8	120	900	851	800	742	682
	TAP 4				652	630	591	556	530
	TAP 3				500	476	452	421	400
	TAP 2				400	381	360	339	312
	TAP 1				900	851	800	742	682
AFW30 & AFW36	TAP 5	1/2	6.8		1150	1087	1030	975	910
	TAP 4				1080	1048	1010	960	895
	TAP 3				900	862	825	796	745
	TAP 2				700	663	632	600	552
	TAP 1				500	473	449	421	395

* Dry coil with filter

AIR HANDLER CHASSIS NOMENCLATURE

AFW	18	G	-001
AFW = 115V X13 Motor Vertical Wall Mount	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

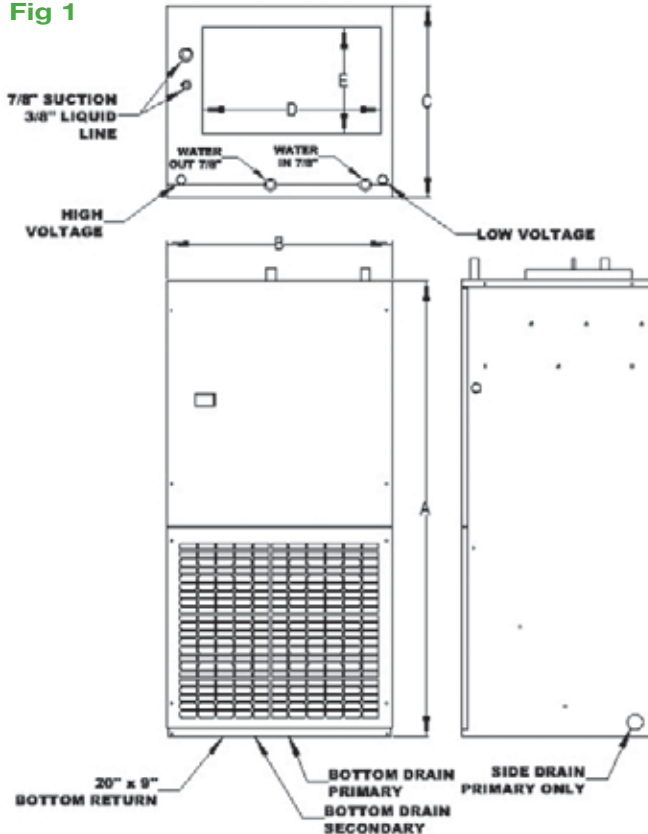
HYDRONIC HEAT KIT NOMENCLATURE

U	C	2	S	P
Wall Mount Hydronic Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block	<u># of rows</u> 2 = 2 rows 3 = 3 rows 4 = 4 rows	S = 18 - 36	P = with pump L = less pump

DIMENSIONS AND SPECIFICATIONS (Fig 1)

MODEL	HEIGHT A"	WIDTH B"	DEPTH C"	D"	E"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
AFW18*	44-1/2 [113]	22 [56]	18 3/4 [48]	17 5/8 [45]	10-1/2 [27]	20X20	0.055	110	4
AFW24*	44-1/2 [113]	22 [56]	18 3/4 [48]	17 5/8 [45]	10-1/2 [27]	20X20	0.059	110	4
AFW30*	44-1/2 [113]	22 [56]	18 3/4 [48]	17 5/8 [45]	10-1/2 [27]	20X20	0.068	118	4
AFW36*	44-1/2 [113]	22 [56]	18 3/4 [48]	17 5/8 [45]	10-1/2 [27]	20X20	0.074	118	4

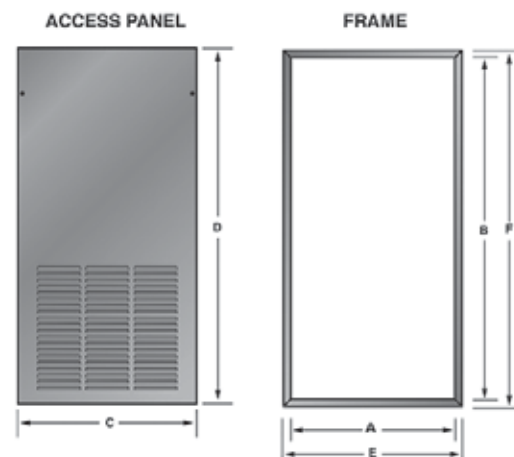
Fig 1



INSTALLATION CLEARANCES

	OPERATION	SERVICE
TOP	0"	0"
FRONT	0"	30"
SIDES	0"	0"
REAR	0"	0"

Fig 2



ACCESS PANEL DIMENSIONS AND SPECIFICATIONS (Fig 2)

PANEL MODEL	FOR USE WITH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
		A	B	C	D	E	F	
WAD-10[S/L] [+ 6"]	AFW	22-1/4	52	24-1/4	54	24-1/8	47-7/8	1

CEILING AND WALL ACCESS DOORS

STANDARD FEATURES

VERSATILITY

Equipped with hidden frame feature. Fastens to the outside wall surface and does not have to perfectly match the hole opening. Frame screws are not visible after installation. Available in either solid [S] or louvered [L] style.

MATERIALS

Galvanized steel construction with powder paint finish. Can be latex painted in the field.

WARRANTY

Five-year limited parts warranty.



DIMENSIONS AND SPECIFICATIONS

PANEL MODEL	FOR USE WITH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
		A	B	C	D	E	F	
CAD-4[S/L]	FCB	22-3/4	58	24-3/4	60	24-5/8	59-7/8	2
CAD-5[S/L]	FFC/FFD 18/24	23-7/8	47-5/8	25-7/8	49-5/8	25-3/4	49-1/2	2
CAD-5W[S/L]	FFW 18/24	23-7/8	57-5/8	25-7/8	59-5/8	25-3/4	59-1/2	2
CAD-6[S/L]	FCW	22-3/4	64	24-3/4	66	24-5/8	65-7/8	2
CAD-7[S/L]	FFC/FFD 30/36	23-7/8	61-7/8	25-7/8	63-7/8	25-3/4	63-3/4	2
WAD-4[S/L]	FFC/FFD 30/36 FFW 30/36	20-3/4	39-1/2	22-3/4	41-1/2	22-5/8	41-3/8	1
WAD-5[S/L]	FTB	20-3/4	44	22-3/4	46	22-5/8	45-7/8	1
WAD-6[S/L]	FWB	20-3/4	50	22-3/4	52	22-5/8	51-7/8	1
WAD-7[S/L]	FWB-013	22-1/4	39-1/2	24-1/4	41-1/2	24-1/8	41-3/8	1
WAD-8[S/L]	AAW/AEW 18/24	22-1/4	42-1/2	24-1/4	44-1/2	24-1/8	44-3/8	1
WAD-9[S/L]	AAW/AEW 30/36	22-1/4	46	24-1/4	48	24-1/8	47-7/8	1
WAD-10[S/L] [+ 6"]	ABW/AFW	22-1/4	52	24-1/4	54	24-1/8	47-7/8	1

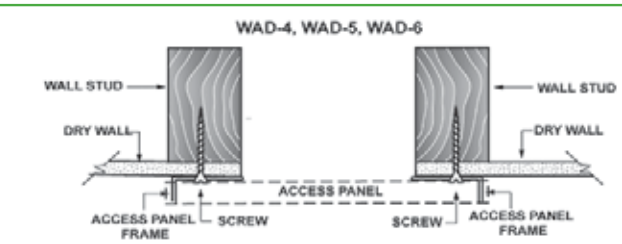
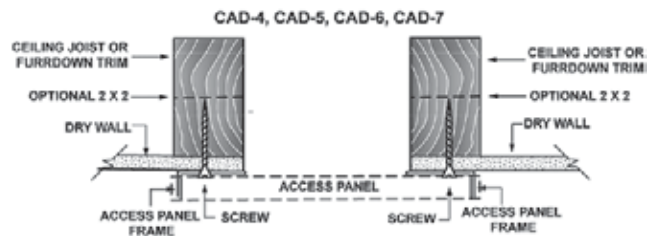
ACCESS PANEL



FRAME



INSTALLATION DETAIL



Revised 04/02/14. In keeping with its policy of continuous progress and product improvement, Aspen reserves the right to make changes without notice and incurring obligation. © 2014



PRODUCT DIMENSIONS & SPECIFICATIONS

AAN DOWNFLOW MANUFACTURED HOME ELECTRIC FURNACE



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



STANDARD FEATURES

APPLICATION VERSATILITY

Downflow only application. Can be installed in closet and alcove.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 20 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Disconnect does not protrude through the wall panel.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. 3-speed motor allows for precise air volume selection. Motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.

MANUFACTURED HOUSING PRODUCTS / AAN

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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA			
		NOMINAL COOLING (TONS)	FAN AMPS	HEATING (KW)		TOTAL UNIT AMPS		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
				208V	240V	208V	240V	208V	240V	208V	240V
AAN 24	FCL00	2	3	0.0	0.0	2.7	3.0	3.4	3.8	15.0	15.0
	FCL03			2.3	3.0	13.8	15.5	17.2	19.4	20.0	20.0
	FCL05			3.8	5.0	21.0	23.8	26.2	29.8	30.0	30.0
	FCL08			6.1	8.0	32.0	36.3	40.0	45.4	40.0	45.0
	FCL10			6.8	9.0	35.4	40.5	44.2	50.6	50.0	60.0
AAN 30	FCL00	2.5		0.0	0.0	2.7	3.0	3.4	3.8	10.0	10.0
	FCL03			2.3	3.0	13.8	15.5	17.2	19.4	20.0	20.0
	FCL05			3.8	5.0	21.0	23.8	26.2	29.8	30.0	30.0
	FCL08			6.1	8.0	32.0	36.3	40.0	45.4	40.0	45.0
	FCL10			6.8	9.0	35.4	40.5	44.2	50.6	50.0	60.0
	FCL15			10.6	14.0	35.4/18.3	40.5/20.8	44.2/22.8	50.6/26.0	45.0/25.0	60.0/30.0
AAN 36	FCL00	3.0		0.0	0.0	2.7	3.0	3.4	3.8	10.0	10.0
	FCL03			2.3	3.0	13.8	15.5	17.2	19.4	20.0	20.0
	FCL05			3.8	5.0	21.0	23.8	26.2	29.8	30.0	30.0
	FCL08			6.1	8.0	32.0	36.3	40.0	45.4	40.0	45.0
	FCL10			6.8	9.0	35.4	40.5	44.2	50.6	50.0	60.0
	FCL15			10.6	14.0	35.4/18.3	40.5/20.8	44.2/22.8	50.6/26.0	45.0/25.0	60.0/30.0
AAN 42	FCL00	3.5	4.4	0.0	0.0	4.0	4.4	5.0	5.5	10	10
	FCL05			3.8	5.0	22.2	25.2	27.8	31.5	30	35
	FCL10			6.8	9.0	36.7	41.9	45.8	52.4	45	60
	FCL15			10.6	14.0	36.7/18.3	41.9/20.8	45.8/22.8	52.4/26.0	60/25	60/30
	FCL20			13.7	18.0	36.7/32.7	41.9/37.5	45.8/40.9	52.4/46.9	60/45	60/60
AAN 48	FCL00	4.0		0.0	0.0	4.0	4.4	5.0	5.5	10	10
	FCL05			3.8	5.0	22.2	25.2	27.8	31.5	30	35
	FCL10			6.8	9.0	36.7	41.9	45.8	52.4	45	60
	FCL15			10.6	14.0	36.7/18.3	41.9/20.8	45.8/22.8	52.4/26.0	60/25	60/30
	FCL20			13.7	18.0	36.7/32.7	41.9/37.5	45.8/40.9	52.4/46.9	60/45	60/60
AAN 60	FCL00	5.0		0.0	0.0	4.0	4.4	5.0	5.5	10	10
	FCL05			3.8	5.0	22.2	25.2	27.8	31.5	30	35
	FCL10			6.8	9.0	36.7	41.9	45.8	52.4	45	60
	FCL15			10.6	14.0	36.7/18.3	41.9/20.8	45.8/22.8	52.4/26.0	60/25	60/30
	FCL20			13.7	18.0	36.7/32.7	41.9/37.5	45.8/40.9	52.4/46.9	60/45	60/60

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AAN 24/30/36	LOW	1/2	3	240	860	840	820	780	740
	HIGH				1260	1240	1220	1180	1140
AAN 42/48/60	LOW	3/4	4.4		1580	1520	1480	1440	1380
	MED				1700	1640	1560	1520	1460
	HIGH				1800	1720	1660	1620	1560

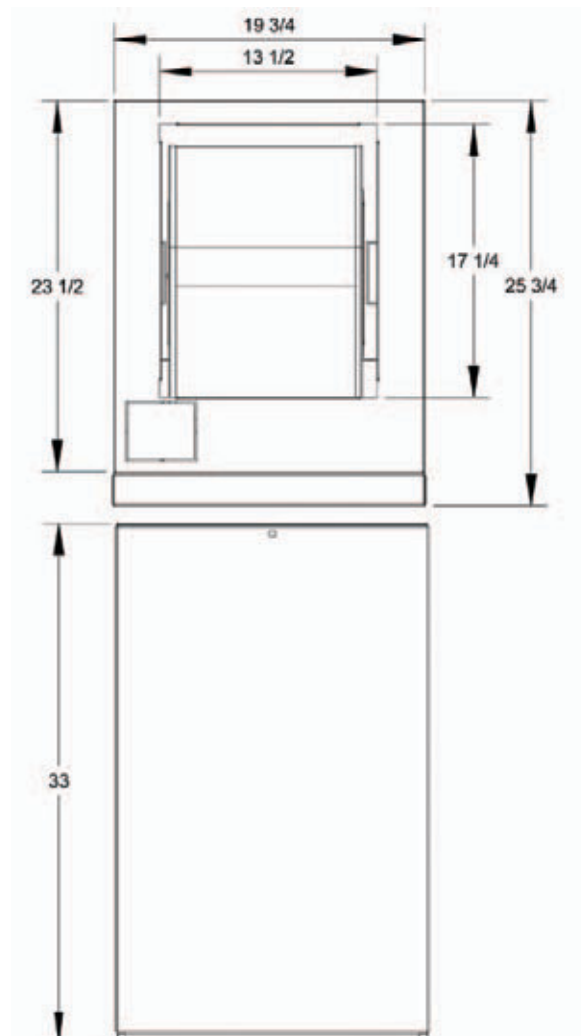
*Wet Coil

AIR HANDLER CHASSIS NOMENCLATURE

AAN	18	-001
AAN = 240V PSC Motor Manufactured Housing Downflow Electric Furnace	Nominal tonnage (MBTUH)	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

F	C	L	03
Electric Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block P = Circuit Breaker w/Single Point 3 = 3-Phase Circuit Breaker 4 = 3-Phase Terminal Block	L = 42-61	<u>Heat Strip</u> 00 = 0 KW 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10 KW 15 = 15 KW 20 = 20 KW



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PRODUCT DIMENSIONS & SPECIFICATIONS

AEN DOWNFLOW X13 MANUFACTURED HOME ELECTRIC FURNACE

STANDARD FEATURES

APPLICATION VERSATILITY

Downflow only application. Can be installed in closet and alcove.

MOTOR

X13 speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 20 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Disconnect does not protrude through the wall panel.

ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

BLOWER

Direct drive variable-speed blowers circulate air quietly and efficiently. Variable speed motors allow for precise air volume selection. Motor speeds and torques programmed in the motor. Blowers mounted on rails so they can be easily removed for service.

WARRANTY

Five-year limited parts warranty.

OPTIONS

See options menu.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA			
		NOMINAL COOLING (TONS)	FAN AMPS	HEATING [KW]		TOTAL UNIT AMPS		MIN-CIRCUIT AMPACITY		MAX FUSE OR CIRCUIT BREAKER	
				208V	240V	208V	240V	208V	240V	208V	240V
AEN 24	FCL00	2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	FCL03			2.3	3.0	11.1	12.5	13.8	15.6	20.0	25.0
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	30.0	30.0
	FCL08			6.1	8.0	29.3	33.3	36.7	41.7	40.0	45.0
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	45.0	50.0
AEN 30	FCL00	2.5		0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	FCL03			2.3	3.0	11.1	12.5	13.8	15.6	20.0	25.0
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	30.0	30.0
	FCL08			6.1	8.0	29.3	33.3	36.7	41.7	40.0	45.0
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	45.0	50.0
	FCL15			10.6	14.0	36.4/18.3	41.6/20.8	45.5/22.8	52.0/26.0	60/25	60/25
AEN 36	FCL00	3.0		0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	FCL03			2.3	3.0	11.1	12.5	13.8	15.6	20.0	25.0
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	30.0	30.0
	FCL08			6.1	8.0	29.3	33.3	36.7	41.7	40.0	45.0
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	45.0	50.0
	FCL15			10.6	14.0	36.4/18.3	41.6/20.8	45.5/22.8	52.0/26.0	45.0/25.0	50.0/25.0
AEN 42	FCL00	3.5	7.6	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	30.0	30.0
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	45.0	50.0
	FCL15			10.6	14.0	36.4/18.3	41.6/20.8	45.5/22.8	52.0/26.0	45.0/25.0	50.0/25.0
	FCL20			13.8	18.0	36.4/32.7	41.6/37.5	45.5/40.9	52.0/46.9	45.0/45.0	50.0/50.0
AEN 48	FCL00	4.0		0.0	0.0	0.0	0.0	0.0	0.0	15	20
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	35	40
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	55	60
	FCL15			10.6	14.0	39.5/18.3	45.1/20.8	49.4/22.8	56.4/26.0	45.0/30.0	50.0/30.0
	FCL20			13.8	18.0	39.5/32.7	45.1/37.5	49.4/40.9	56.4/46.9	45.0/45.0	50.0/50.0
AEN 60	FCL00	5.0		0.0	0.0	0.0	0.0	0.0	0.0	15	20
	FCL05			3.8	5.0	18.3	20.8	22.8	26.0	35	40
	FCL10			6.8	9.0	32.7	37.5	40.9	46.9	55	60
	FCL15			10.6	14.0	39.5/18.3	45.1/20.8	49.4/22.8	56.4/26.0	45.0/30.0	50.0/30.0
	FCL20			13.8	18.0	39.5/32.7	45.1/37.5	49.4/40.9	56.4/46.9	45.0/45.0	50.0/50.0

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
AEN 24/30/36/42	T-2	1/2	4.1	240	880	840	780	720	680
	T-3				1120	1080	1060	1000	960
	T-4				1300	1260	1240	1200	1160
	T-1				1480	1420	1360	1340	1300
AEN 48/60	T-2	1	7.6		1480	1420	1360	1320	1300
	T-1				1860	1820	1780	1720	1640

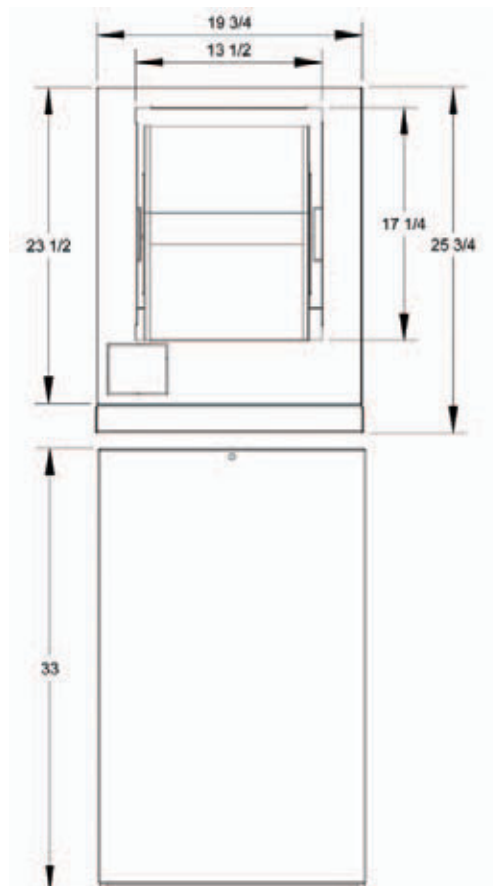
*Wet coil

AIR HANDLER CHASSIS NOMENCLATURE

AEN	18	-001
AEN = 240V X13 Motor Manufactured Housing Downflow Electric Furnace	Nominal tonnage (MBTUH)	Option Code

ELECTRIC HEAT KIT NOMENCLATURE

F	C	L	03
Electric Heat	<u>Interruption</u> C = Circuit Breaker T = Terminal Block P = Circuit Breaker w/ Single Point 3 = 3-Phase Circuit Breaker 4 = 3-Phase Terminal Block	L = 42-61	<u>Heat Strip</u> 00 = 0 KW 03 = 3 KW 05 = 5 KW 08 = 8 KW 10 = 10 KW 15 = 15 KW 20 = 20 KW

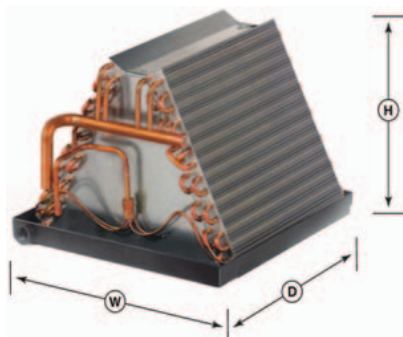


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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CM SERIES UNCASED DOWNFLOW COILS FOR USE WITH MANUFACTURED HOME FURNACES



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Riffled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2-3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Inlet and outlet dimensions are identical (without end caps).
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Refrigerant lines exit from the top of the coil.
- Split access doors on top of the coil for easy service.
- Embossed galvanized cabinets standard.
- Top, bottom, and side flanges for furnace connection
- Fully insulated cabinets with faced insulation.
- Heavy duty plastic drain pan with four 3/4" FPT galvanized condensate drains (two per side). Pan is positively sloped toward drains.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Powder painted stainless steel drain pan.
- Schrader mounted on suction manifold, external to cabinet.

COIL MODEL	PISTON SIZE		DIMENSIONS			SHIPPING INFORMATION			
	R22	R410a	PAN WIDTH [W]"	PAN DEPTH [D]"	BARE SLAB HEIGHT [H]"	SHIPPING WEIGHT [LBS]			SKID QTY
						2 ROW	3 ROW	4 ROW	
CM24A(2,3)*-177L	0.059	0.055	17-3/4	19-5/8	13-1/2	17	27	N/A	30
CM24B(2,3)*-177L	0.059	0.055	17-3/4	19-5/8	15-1/2	20	31	N/A	25
CM24C(2,3)*-177L	0.059	0.055	17-3/4	19-5/8	17-1/2	23	36	N/A	25
CM24D(2,3)*-177L	0.059	0.055	17-3/4	19-5/8	19-1/2	25	40	N/A	20
CM30A(2,3)*-177L	0.068	0.059	17-3/4	19-5/8	15-1/2	20	31	N/A	25
CM30B(2,3)*-177L	0.068	0.059	17-3/4	19-5/8	17-1/2	23	36	N/A	25
CM30C(2,3)*-177L	0.068	0.059	17-3/4	19-5/8	19-1/2	25	40	N/A	20
CM36A(2,3)*-177L	0.074	0.068	17-3/4	19-5/8	17-1/2	23	36	N/A	25
CM36B(2,3)*-177L	0.074	0.068	17-3/4	19-5/8	19-1/2	25	40	N/A	20
CM42A(2,3)*-177L	0.080	0.074	17-3/4	19-5/8	19-1/2	25	40	N/A	20
‡ CM48A3*-177L	0.084	0.080	17-3/4	19-5/8	21-1/2	N/A	45	N/A	16
‡ CM48A4*-195L	0.084	0.080	19-1/2	19-3/8	21-1/2	N/A	N/A	58	16
‡ CM48B3*-177L	0.084	0.080	17-3/4	19-5/8	23-1/2	N/A	49	N/A	12
‡ CM48B4*-195L	0.084	0.080	19-1/2	19-3/8	23-1/2	N/A	N/A	64	12
‡ CM48C3*-177L	0.084	0.080	17-3/4	19-5/8	25-1/2	N/A	54	N/A	12
‡ CM48C4*-195L	0.084	0.080	19-1/2	19-3/8	25-1/2	N/A	N/A	70	12
‡ CM48D3*-177L	0.084	0.080	17-3/4	19-5/8	27-1/2	N/A	58	N/A	12
‡ CM48D4*-195L	0.084	0.080	19-1/2	19-3/8	27-1/2	N/A	N/A	76	12
CM48E3*-177L	0.084	0.080	17-3/4	19-5/8	19-1/2	N/A	40	N/A	20
‡ CM60A(3,4)*-195L	0.092	0.089	19-1/2	19-3/8	25-1/2	N/A	54	70	12
‡ CM60B(3,4)*-195L	0.092	0.089	19-1/2	19-3/8	27-1/2	N/A	58	76	12

Notes: Do not use heavy duty plastic drain pans on oil furnaces or other applications where outlet temperatures may exceed 290°F +/-5°F.

Specify metal drain pans for these applications.

‡ These coils are intended to be mounted on top of the furnace, not inside the furnace cavity.

() number of rows available

* Metering devices available - F = R22 flowrater; X = R22 TXV; 4 = R410a TXV; G = R410a flowrater

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MANUFACTURED HOUSING PRODUCTS CM

DX-treme Series Nomenclature

Revised 7/11/13

22 A 24 A3 F -145 L -001

①

②

③

④

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⑦

⑧

⑧ Option Code

⑦ Refrigerant and plumbing connections
L = left-hand
R = right-hand

⑥ 22A Series: Drain pan width code
22C, 22E Series: Furnace width code

⑤ Metering device
F = R-22 Flo-rater
G = R-410A Flo-rater
B = 20% bleed A/C or H/P R22 TXV
X = non-bleed A/C or H/P R22 TXV
4 = non-bleed A/C or H/P R410 TXV
6 = 20% bleed A/C or H/P R410 TXV

④ Coil descriptor code (face area, rows, fpi)

③ Nominal tonnage (MBTUH)

② Configuration
A = uncased up/down
C = cased up/down
E = cased multi-position VersaCoil

① Series
22 = 22 Series

**22 SERIES
R22 REPLACEMENT COILS**

- Minimum inventory - 4 coils x width dimension
- Easy to define part number - begins with 22
- All coils are embossed steel - \$10 adder for paint

UNCASED UPFLOW/DOWNFLOW	COIL MODEL	FLOW RATOR SIZE	DIMENSIONS						SHIPPING INFORMATION	
			PAN WIDTHS				PAN DEPTH	BARE SLAB HEIGHT	SHIPPING WEIGHT (LBS)	SKID QTY
			13	16	19-1/2	23				
	22A24F-XXXL-003	0.059	13	16	19-1/2		19-3/8	12	17	30
	22A36F-XXXL-003	0.074	13	16	19-1/2		19-3/8	16	23	25
	22A48F-XXXL-003	0.084		16	19-1/2	23	19-3/8	20	28	16
	22A60F-XXXL-003	0.092			19-1/2	23	19-3/8	24	54	12

*-003 option code indicates: schrader valve on suction line

CASED UPFLOW/DOWNFLOW	COIL MODEL	FLOW RATOR SIZE	DIMENSIONS				SHIPPING INFORMATION	
			MIN CABINET WIDTH	MAX CABINET WIDTH	CABINET DEPTH	CABINET HEIGHT	SHIPPING WEIGHT (LBS)	SKID QTY
	22C24F-XXXL-022	0.059	14	23	21-1/2	16	29	20
	22C36F-XXXL-022	0.074	14	23	21-1/2	20	39	16
	22C48F-XXXL-022	0.084	17	26-1/2	21-1/2	24	49	12
	22C60F-XXXL-022	0.092	20-1/2	26-1/2	21-1/2	28	75	12

*-022 option code indicates: schrader mounted on suction line outside the cabinet, flanged top duct opening

CASED UPFLOW/DOWNFLOW	COIL MODEL	FLOW RATOR SIZE	DIMENSIONS				SHIPPING INFORMATION	
			MIN CABINET WIDTH	MAX CABINET WIDTH	CABINET DEPTH	CABINET HEIGHT	SHIPPING WEIGHT (LBS)	SKID QTY
	22E24F-XXXL-034	0.059	14	23	21-1/2	19	31	20
	22E36F-XXXL-034	0.074	14	23	21-1/2	23	41	12
	22E48F-XXXL-034	0.084	17	26-1/2	21-1/2	27	52	12
	22E60F-XXXL-034	0.092	20-1/2	26-1/2	21-1/2	30	78	10

*-034 option code indicates: schrader on the suction line outside the cabinet, flanged top duct opening

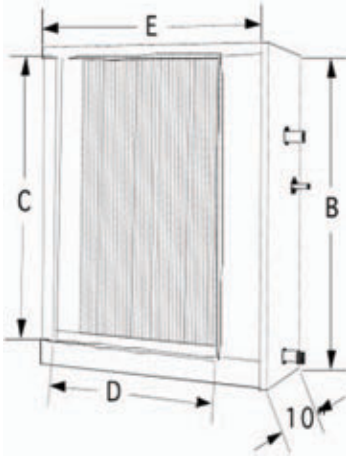
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BHA/L SLAB HORIZONTAL COILS



GENERAL SPECIFICATIONS

- Standard refrigerant connections: liquid line - 3/8" ODS, suction line - 7/8" ODS.
- Two 3/4" MPT condensate drains.
- Powder-painted metal drain pan. Stainless available.
- Five-year warranty.
- Bi-directional airflow.
- Flowrate: standard. Factory or field-installable TXV available.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Heavy gauge embossed galvanized cabinet fully lined with 1/2" faced insulation.
- Rifled copper tubing, enhanced aluminum fins.
- AHRI certifiable with all brands of A/C and heat pump systems (BHA only)
- ETL listed.

Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

COIL MODEL	DIMENSIONS			
	HEIGHT (B)"	OPENING		LENGTH (E)"
		(C)"	(D)"	
HIGH HORIZONTAL				
BHA** 24	23-1/2	21	16	21-1/2
BHA** 36	23-1/2	21	24	29-1/2
BHA** 48	23-1/2	21	29	34-1/2
BHA** 60	25	21	29	34-1/2
LOW HORIZONTAL				
BHL** 24	17	14-1/2	21-1/2	27
BHL** 36	17	14-1/2	21-1/2	27
BHL** 48	17	14-1/2	29	36
BHL** 60	21	18-1/2	29	36

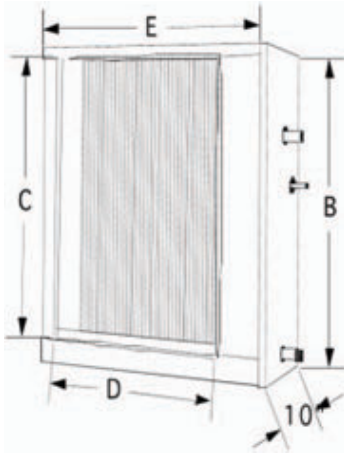
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BHC HORIZONTAL COILS
DESIGNED TO REPLACE RED T HORIZONTAL COILS



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GENERAL SPECIFICATIONS

- Standard refrigerant connections: liquid line - 3/8" ODS, suction line - 7/8" ODS.
- Two 3/4" MPT condensate drains.
- Powder-painted metal drain pan. Stainless available.
- Five-year warranty.
- Bi-directional airflow.
- Flowrater standard. Factory or field-installable TXV available.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Heavy gauge embossed galvanized cabinet fully lined with 1/2" faced insulation.
- Rifled copper tubing, enhanced aluminum fins.
- ETL listed.

COIL MODEL	REPLACES	DIMENSIONS			
		HEIGHT [B]"	OPENING		LENGTH [E]"
			[C]"	[D]"	
BHC24 24	RTE524CH	21-1/2	17-1/2	22	27
BHC32 36	RTE536CH	21-1/2	17-1/2	22	27
BHC32 48	RTE48CH, 548CH	21-1/2	17-1/2	28	33
BHC32 60	RTE60CH	25-1/2	21-1/2	28	33

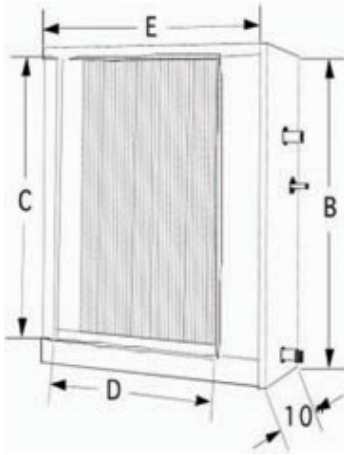
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BHR SLAB HORIZONTAL COILS
DESIGNED TO REPLACE RED T HORIZONTAL COILS



GENERAL SPECIFICATIONS

- Standard refrigerant connections: liquid line - 3/8" ODS, suction line - 7/8" ODS.
- Two 3/4" MPT condensate drains.
- Powder-painted metal drain pan. Stainless available.
- Five-year warranty.
- Flowrater standard. Factory or field-installable TXV available.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Heavy guage embossed galvanized cabinet fully lined with 1/2" faced insulation.
- Rifled copper tubing, enhanced aluminum fins.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed.

Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

COIL MODEL	DIMENSIONS			
	HEIGHT (B)"	OPENING		LENGTH (E)"
		(C)"	(D)"	
BHR24 24	23-1/2	21	16	21-1/2
BHR32 36	23-1/2	21	16	21-1/2
BHR32 48	23-1/2	21	24	29-1/2
BHR32 60	25-1/2	21	24	29-1/2

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PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CP SERIES DEDICATED HORIZONTAL COILS WITH PLENUM



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2-3 ton & 7/8" ODS on 3-1/2-5 ton.
- Inlet and outlet dimensions are identical (without end caps).
- Externally mounted flowrater body with Schrader valve for hiss-testing.
- Refrigerant lines exit from the top of the coil.
- Split access doors on top of the coil for easy service.
- Embossed galvanized cabinets standard.
- Fully insulated cabinets with faced insulation.
- Heavy duty plastic pan with four 3/4" FPT galvanized condensate drains (two per side). Pan is positively sloped toward drains.
- Plenum sides and top constructed of foil-backed faced fiberglass ductboard or sheet metal.
- Plenum end and bottom constructed of galvanized steel.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Powder painted stainless steel drain pan.
- Schrader mounted on suction manifold external to cabinet.

COIL MODEL	PISTON SIZE		DIMENSIONS			SHIPPING INFORMATION			
	R22	R410a	CABINET WIDTH [W]"	CABINET DEPTH [D]"	MAX FURNACE WIDTH [OR HEIGHT WHEN HORZ.]	SHIPPING WEIGHT [LBS]			SKID QTY
CP24A*	0.059	0.055	22	46	16-3/4	41	49	57	8
CP24B*	0.059	0.055	22	46	16-3/4	46	56	64	8
CP24C*	0.059	0.055	22	46	20-3/4	57	67	76	8
CP24D*	0.059	0.055	22	46	20-3/4	63	75	85	8
CP30A*	0.068	0.059	22	46	16-3/4	46	56	64	8
CP30B*	0.068	0.059	22	46	16-3/4	51	62	71	8
CP30C*	0.068	0.059	22	46	20-3/4	63	75	85	8
CP30D*	0.068	0.059	22	46	20-3/4	69	82	94	8
CP30E*	0.068	0.059	22	46	20-3/4	49	59	68	8
CP36A*	0.074	0.068	22	46	16-3/4	51	62	71	8
CP36B*	0.074	0.068	22	46	16-3/4	56	68	79	8
CP36C*	0.074	0.068	22	46	20-3/4	69	82	94	8
CP36D*	0.074	0.068	22	46	20-3/4	75	90	103	8
CP36E*	0.074	0.068	22	46	20-3/4	54	65	75	8
CP42A*	0.080	0.074	22	46	18-3/4	57	69	80	8
CP42B*	0.080	0.074	22	46	18-3/4	62	76	88	8
CP42C*	0.080	0.074	22	46	22-3/4	70	85	98	6
CP42D*	0.080	0.074	22	46	22-3/4	76	93	108	6
CP42E*	0.080	0.074	22	46	22-3/4	60	73	84	6
CP48A*	0.084	0.080	22	46	20-3/4	62	76	88	8
CP48B*	0.084	0.080	22	46	20-3/4	68	83	96	8
CP48C*	0.084	0.080	22	46	24-3/4	76	93	108	6
CP48D*	0.084	0.080	22	46	24-3/4	83	102	118	6
CP48E*	0.084	0.080	22	46	24-3/4	65	80	92	6
CP60A*	0.092	0.089	22	46	24-3/4	76	93	108	6
CP60B*	0.092	0.089	22	46	24-3/4	83	102	118	6
CP60C*	0.092	0.089	22	46	26-3/4	89	109	126	6
CP60D*(1)	0.092	0.089	22	46	26-3/4	97	119	138	6
CP60E*	0.092	0.089	22	46	26-3/4	80	98	113	6
CP60F*	0.092	0.089	22	46	20-3/4	68	83	96	8
CP60G*	0.092	0.089	22	46	24-3/4	85	104	118	6

Note: (1) Primary pan constructed of powder-painted galvanized steel. P/N 1823

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LEGACY PRODUCTS GP



PRODUCT DIMENSIONS & SPECIFICATIONS

DX-TREME CQ SERIES DEDICATED HORIZONTAL COILS WITH PLENUM AND BUILT-IN AUXILIARY DRAIN PAN (patent pending)



Representative drawing only.
Some models may vary in appearance.

STANDARD SPECIFICATIONS

- Rifled copper tubing, enhanced aluminum fins.
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed.
- Liquid line - 3/8" ODS, suction line - 3/4" ODS on 1-1/2 - 3 ton & 7/8" ODS on 3-1/2 - 5 ton.
- Inlet and outlet dimensions are identical (without end caps).
- Externally mounted flowrate body with Schrader valve for hiss-testing.
- Refrigerant lines exit from top of coil.
- Split access doors on top of coil for easy service.
- Embossed galvanized cabinets standard.
- Fully insulated cabinets with faced insulation.
- Primary pan constructed of heavy duty plastic with four 3/4" FPT condensate drains (two per side). Pan is positively sloped toward drains. Drain diverter channels condensate out of secondary drain into auxiliary pan.
- Auxiliary pan constructed of painted galvanized steel with two 3/4" FPT condensate drains (one per side).
- Plenum sides and top constructed of foil-backed faced fiberglass ductboard or sheet metal.
- Plenum end and bottom constructed of galvanized steel.
- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with R-22 and R-410a when proper metering device is used.
- Ten-year limited warranty.

POPULAR OPTIONS:

- Factory or field-installable TXV.
- Schrader mounted on suction manifold external to cabinet.

COIL MODEL	PISTON SIZE		DIMENSIONS			SHIPPING INFORMATION			
	R22	R410a	CABINET WIDTH [W]"	CABINET DEPTH [D]"	CABINET HEIGHT [H]"	SHIPPING WEIGHT (LBS)			SKID QTY
						2 ROW	3 ROW	4 ROW	
CQ24A*	0.059	0.055	22	46	18-1/8	47	55	63	8
CQ24B*	0.059	0.055	22	46	18-1/8	52	62	70	8
CQ24C*	0.059	0.055	22	46	22-1/8	63	73	82	8
CQ24D*	0.059	0.055	22	46	22-1/8	69	81	91	8
CQ30A*	0.068	0.059	22	46	18-1/8	52	62	70	8
CQ30B*	0.068	0.059	22	46	18-1/8	57	68	77	8
CQ30C*	0.068	0.059	22	46	22-1/8	69	81	91	8
CQ30D*	0.068	0.059	22	46	22-1/8	75	88	100	8
CQ30E*	0.068	0.059	22	46	22-1/8	55	65	74	8
CQ36A*	0.074	0.068	22	46	18-1/8	57	68	77	8
CQ36B*	0.074	0.068	22	46	18-1/8	62	74	85	8
CQ36C*	0.074	0.068	22	46	22-1/8	75	88	100	8
CQ36D*	0.074	0.068	22	46	22-1/8	81	96	109	8
CQ36E*	0.074	0.068	22	46	22-1/8	60	71	81	8
CQ42A*	0.080	0.074	22	46	20-1/8	63	75	86	8
CQ42B*	0.080	0.074	22	46	20-1/8	68	82	94	8
CQ42C*	0.080	0.074	22	46	24-1/8	76	91	104	6
CQ42D*	0.080	0.074	22	46	24-1/8	82	99	114	6
CQ42E*	0.080	0.074	22	46	24-1/8	66	79	90	6
CQ48A*	0.084	0.080	22	46	22-1/8	68	82	94	8
CQ48B*	0.084	0.080	22	46	22-1/8	74	89	102	8
CQ48C*	0.084	0.080	22	46	26-1/8	82	99	114	6
CQ48D*	0.084	0.080	22	46	26-1/8	89	108	124	6
CQ48E*	0.084	0.080	22	46	26-1/8	71	86	98	6
CQ60A*	0.092	0.089	22	46	26-1/8	82	99	114	6
CQ60B*	0.092	0.089	22	46	26-1/8	89	108	124	6
CQ60C*	0.092	0.089	22	46	28-1/8	95	115	132	6
CQ60D*(1)	0.092	0.089	22	46	28-1/8	103	125	144	6
CQ60E*	0.092	0.089	22	46	28-1/8	86	104	119	6
CQ60F*	0.092	0.089	22	46	22-1/8	74	89	102	8
CQ60G*	0.092	0.089	22	46	26-1/8	91	110	126	6

Note: (1) Primary pan constructed of powder-painted galvanized steel (P/N 1823).

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Aspen Expansion Valve Piston Parts Matrix

Refrigerant	Range (tons)	For use with A/C or H/P	20% Bleed Port	TXV Kit Model No.	Aspen Part No.	Parker p/n	Sporlan p/n	Emerson	Danfoss	Ordering Nomenclature	
										C coils & AAH's	B coils & FAH's
R410A	1 1/2-3 1/2	Both	No	X5-3	4200	HCE3VX100A	CBBIZE-3-GA-BP20-NON BLEED	ANCE 3 ZW195	N/A	4	+X5
R410A	4-5.6	Both	No	X5-5	4202	HCE5VX100A	CBBIZE-5GA-BP20-NON BLEED	ANCE 5 ZW195	N/A	4	+X5
R410A	1 1/2-3 1/2	Both	Yes	X6-3	4203					6	+X6
R410A	4-5.6	Both	Yes	X6-5	4204					6	+X6
R22	1 1/2-3 1/2	Both	Yes	X3-3	4044	HCE3VX100AB20	CBBIVE-3-GA-BP20	ANCEB 3 HAA	0674-3114	B	+X3
R22	4-5.6	Both	Yes	X3-5	4050	HCE5VX100AB20	CBBIVE-5-GA-BP20	ANCEB 5 HAA	0674-3116	B	+X3
R22	1 1/2-3 1/2	Both	No	X2-3	4190	HCE3VX100A	CBBIVE-3-GA-BP20-NON BLEED	ANCE 3 HAA	0674-3113	X	+X2
R22	4-5.6	Both	No	X2-5	4195	HCE5VX100A	CBBIVE-5-GA-BP20-NON BLEED	ANCE 5 HAA	0674-3115	X	+X2
R410A	7.5-10	A/C	No	X4-10	3947	ALSO NEED #3948 ADAPTER	N/A	N/A	N/A	4	+X4
R22	7.5	A/C	No	X1-7.5	3946	N/A		N/A	N/A	X	+X1
R22	10	A/C	No	X1-10	3940	N/A	SVE-10-CP-100	N/A	N/A	X	+X1

PISTON SIZE-NON TXV USE

Tonnage	R22		R410A		R600a	
	Orifice Sz	PART #	Orifice Sz	PART #	Orifice Sz	PART #
1T	0.041	3962	N/A	N/A	N/A	N/A
1.5T	0.055	3999	0.049	4006		
2T	0.059	4000	0.055	3999		
2.5T	0.068	3987	0.059	4000		
3T	0.074	4001	0.068	3987		
3.5T	0.080	3990	0.074	4001		
4T	0.084	3991	0.080	3990		
5T	0.092	3998	0.089	3960		

Dual Circuit Commercial Coils	Single Circuit R22 TXV	Single Circuit R410A TXV	Dual Circuit Use 2 R22 TXV	Dual Circuit Use 2 R410A TXV
BV***72+[*]	[X1] 4195	[X4] 4202	[X1] 4190	[X4] 4200
BV***90+[*]	[X1] 3946	[X4] 3947+3948	[X1] 4195	[X4] 4202
BV***120+[*]	[X1] 3940	[X4] 3947+3948	[X1] 4195	[X4] 4202
CC72**[*]	[X] 4195	[4] 4202	[X] 4190	[4] 4200
CC90**[*]	[X] 3946	[4] 3947+3948	[X] 4195	[4] 4202
CC120**[*]	[X] 3940	[4] 3947+3948	[X] 4195	[4] 4202

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TXV (Expansion Valves)

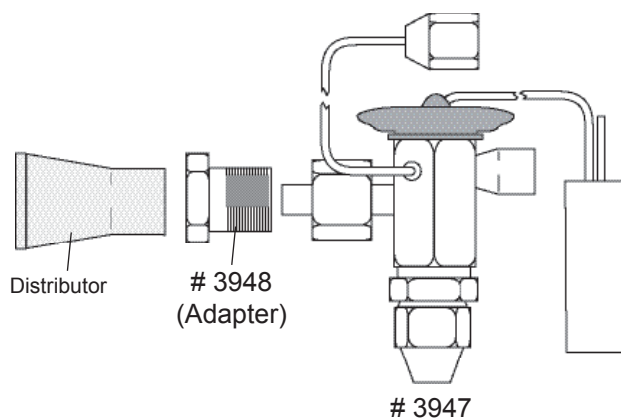
Commercial Horizontal Slab &
CC Series 7.5 -10 ton Single Circuit Coils

These coils can be converted between R-22 and R-410A. Distributor piece removal will require proficiency in brazing and soldering. Understand the differences between the R-22 and R-410A expansion valves before attempting conversion, particularly when converting from R-410A to R-22.

R-22 to R-410A Conversion

7.5 Ton & 10 Ton

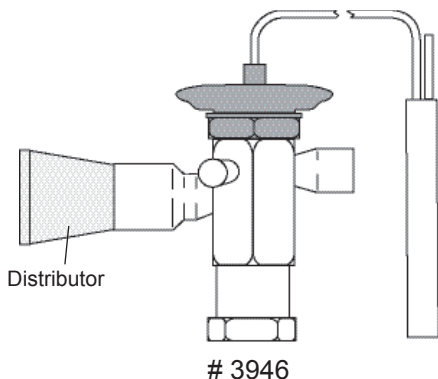
Requires Part #3947 (Bolt type) plus Adapter #3948



R-410A to R-22 Conversion:

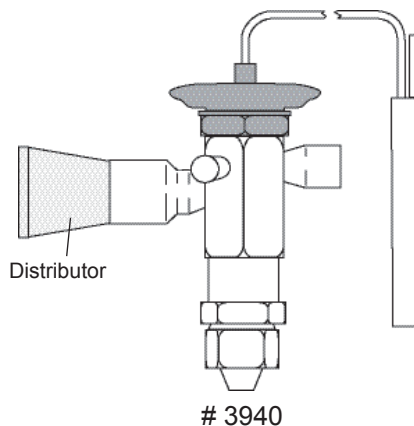
7.5 Ton

Requires part #3946 (sweat fitting)



10 Ton

Requires part #3940 (sweat fitting)



Phone: 281.441.6500
Toll Free: 800.423.9007
Fax: 281.441.6510
www.aspenmfg.com

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R-410a
READY

ASSEMBLED
IN THE
USA

Revised 04/02/14. In keeping with its policy of continuous progress and product improvement, Aspen reserves the right to make changes without notice and incurring obligation.

Serial Number Nomenclature

Effective January 2000

A 00 - 12345

①

②

③

② Year Code
00 = 2000
01 = 2001
02 = 2002
(etc.)

③ Sequential
Serial
Number

① Month Code
A = JANUARY
B = FEBRUARY
C = MARCH
D = APRIL
E = MAY
F = JUNE
G = JULY
H = AUGUST
J = SEPTEMBER
K = OCTOBER
L = NOVEMBER
M = DECEMBER
Note: The letter "I" is skipped

ASPEN MANUFACTURING TERMS AND CONDITIONS

PAYMENT TERMS: Terms are 1% 10 days, net 30 days from invoice date. A finance charge of 1-1/2% or the maximum allowed by law will be assessed on all past due amounts. All orders are subject to a minimum \$20 billing. All orders payable in US funds.

FREIGHT TERMS: All shipments are F.O.B. Humble TX. Orders for \$15,000 or more of merchandise will be shipped freight prepaid to any one destination in the continental U.S. or Canada. Orders for less than \$15,000 of merchandise will be shipped freight collect. "Will Call" orders will not be assessed freight charges, regardless of size.

FREIGHT CHARGES: All accessorial charges assessed by the freight company, including drop charges, detention charges, lift gate charges, etc., will be passed on to the buyer when an order is not freight allowed.

DROP SHIPMENTS: There is a three-drop limit per truckload, with a 50-unit minimum per drop.

POOLING ORDERS: For the purposes of determining freight charges, each purchase order will be evaluated individually. Pooling of orders, whether from the same customer or different customers, in order to qualify for prepaid freight will not be allowed. Aspen will group orders together whenever possible in order to minimize freight charges. Doing so will not incur future obligation.

METHOD OF SHIPMENT: The method of shipment is at the discretion of Aspen. If special routing is requested, Aspen will charge for the difference between such routing and normal minimum freight charge to such point.

BUYER DELAYED DELIVERIES: Product shipment cannot be delayed beyond a requested or agreed to delivery date once production has begun. If buyer cannot or will not accept delivery as scheduled, Aspen will charge a storage fee of \$75.00 per day for each truckload or partial truckload that remains in Aspen's shipping facility.

BACKORDERS: Backorders will be shipped according to the freight terms of the original order.

WARRANTY: Aspen's warranty varies according to product. Buyer should consult the warranty documents relevant to the products he is purchasing.

ORDER AND LINE ITEM MINIMUMS: The minimum order quantity is fifty units. The minimum line item quantity is ten.

RECEIPT OF SHIPMENT: Our Bill of Lading is acknowledgment by the freight carrier that they have accepted the shipment in good condition. Responsibility for shipment is the carrier's. Damaged merchandise must be reported to the carrier directly by the buyer. The buyer should insist that such damages are itemized on the freight bill. Deductions for damage will not be allowed because Aspen's responsibility ends with consignment to the carrier. If there are shortages, they should be noted on the freight bill and the carrier should be notified immediately. Aspen must receive notification of shortages within 24 hours of receipt of shipment.

RETURN POLICY: No merchandise will be accepted for return unless accompanied by a preauthorized Aspen return authorization tag. Credits for new material accepted for return will be at the original sales price or current market price, whichever is lower, less handling and restocking charges of 20%. Buyer must prepay all return transportation charges. No goods will be accepted for return more than six months after shipment unless under warranty. Obsolete products or products made to special order are not returnable.

ORDER ACCEPTANCE: All orders must be in writing and are subject to acceptance by Aspen. A purchase order number must appear on all orders. No agent, salesman, or other representative, has any authority to waive, alter, or enlarge these standard terms, unless authorized in writing by an officer of Aspen.

CHANGE ORDERS: Change orders cannot be accepted during the order freeze period. The length of this period is usually two weeks, but may vary. For current status of the freeze period contact your Aspen representative. Quantity increases and line item additions will usually be acceptable.

ORDER CANCELLATION: Partial or total cancellations of orders by the buyer must be in writing to Aspen in advance of the start of production.

CREDIT APPROVAL: If, during the performance hereof, the financial responsibility of buyer is determined at the sole discretion of Aspen's Credit Department to be unacceptable or if buyer fails to make any payments in accordance with the terms hereof, Aspen may defer or decline to make any shipments hereunder except upon receipt of Cash payments in advance, or Aspen may terminate this order without further obligation of Aspen to buyer.

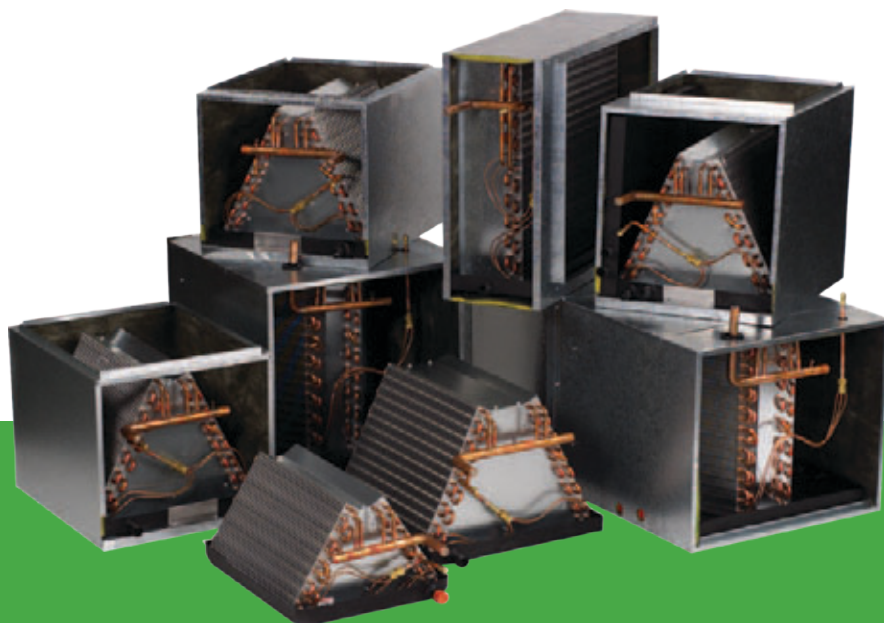
TAXES: Any direct or excise tax which may now or hereafter be imposed by federal or state government or any subdivision thereof upon the manufacture, sale, or delivery of the goods covered by this order may be added by Aspen to the purchase price of such goods, and if so added, shall be paid by the buyer.

DELIVERY DATES: Any delivery dates, which may be indicated, are estimates only and are not guaranteed. Buyer's requested delivery date is considered to be approximate and subject to Aspen's acceptance.

PROPERTY DAMAGE: In case of product failure resulting in property damage, the factory should be contacted as soon as possible. No corrective action should be taken without prior written authorization from the factory.

PRODUCT CHANGES: Aspen reserves the right to change specifications, design and material in the interest of product improvement, without incurring obligation to the buyer.

SOLE AND EXCLUSIVE AGREEMENT: The terms and conditions of an order shall constitute the sole and exclusive agreement between Aspen and buyer. No waiver of any individual provision hereof shall constitute a waiver of any other provisions.



Right products. Right features. Right price.



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