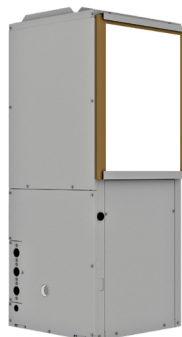


Commercial HVAC Catalog

Chilled Water

Water Source Heat Pumps

High Rise Units



Welcome

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- o Features / Benefits
- o Unit Dimensions
- o Performance Data
- o Electrical Data
- o Efficiency Information

The web site is updated continuously and is accessible at all times.

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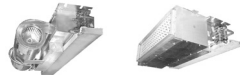







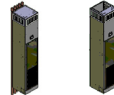



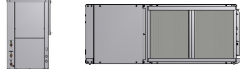


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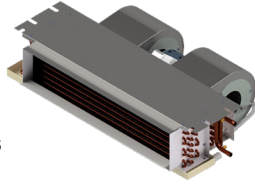


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AHBC(X)

Horizontal Fan Coil (Uncased)
Chilled / Hot Water

*(X) - ECM



Features:

- * Copper tube aluminum fin coils
- * Manual air vents
- * Sloped and Insulated drain pan
- * 2 and 4-pipe models available
- * 120V motor (3 speed)
- * 208/230 motor
- * 277 motor
- * 220V, 50 cycle models available

Option:

- * 3-speed, 24V control (contact factory)

RETURN PLENUMS FOR HBC SERIES		
PART NO.	FOR USE WITH	SHIP WT.
916-1-STK	3AHBC	18
916-2-STK	4AHBC	22
916-3-STK	5/6AHBC	22
916-4-STK	8AHBC	24
916-5-STK	10AHBC	27
916-6-STK	13AHBC	30



	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	3AHBC-3	300	3-COOL OR HEAT	10	30-1/8	21	39
	4AHBC-3	400		10	36-1/8	21	48
	5AHBC-3	500		10	40-1/8	21	52
	6AHBC-3	600		10	40-1/8	21	54
	8AHBC-3	800		10	46-1/8	21	57
	10AHBC-3	1000		10	52-1/8	21	67
	13AHBC-3	1300		10	59-1/8	21	87
	3AHBC-4	300	4-COOL OR HEAT	10	30-1/8	21	39
	4AHBC-4	400		10	36-1/8	21	48
	5AHBC-4	500		10	40-1/8	21	52
	6AHBC-4	600		10	40-1/8	21	54
	8AHBC-4	800		10	46-1/8	21	57
	10AHBC-4	1000		10	52-1/8	21	67
13AHBC-4	1300	10		59-1/8	21	87	
4-PIPE	3AHBC-31	300	3-COOL, 1-HEAT	10	30-1/8	21	39
	4AHBC-31	400		10	36-1/8	21	48
	5AHBC-31	500		10	40-1/8	21	52
	6AHBC-31	600		10	40-1/8	21	54
	8AHBC-31	800		10	46-1/8	21	57
	10AHBC-31	1000		10	52-1/8	21	67
	13AHBC-31	1300		10	59-1/8	21	87
	3AHBC-32	300	3-COOL, 2-HEAT	10	30-1/8	21	39
	4AHBC-32	400		10	36-1/8	21	48
	5AHBC-32	500		10	40-1/8	21	52
	6AHBC-32	600		10	40-1/8	21	54
	8AHBC-32	800		10	46-1/8	21	57
	10AHBC-32	1000		10	52-1/8	21	67
	13AHBC-32	1300		10	59-1/8	21	87
	3AHBC-41	300	4-COOL, 1-HEAT	10	30-1/8	21	39
	4AHBC-41	400		10	36-1/8	21	48
	5AHBC-41	500		10	40-1/8	21	52
	6AHBC-41	600		10	40-1/8	21	54
	8AHBC-41	800		10	46-1/8	21	57
	10AHBC-41	1000		10	52-1/8	21	67
	13AHBC-41	1300		10	59-1/8	21	87

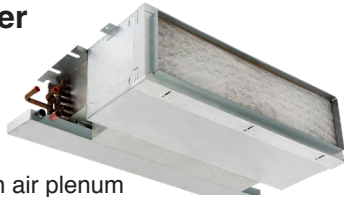
NOTES:

1. HBC Plenums are field installed kits.
2. See Page 25 for thermostats, valves and other accessories.
3. Shaded areas are normally stock product

APHBC(X)

Horizontal Fan Coil with Plenum
Chilled / Hot Water

*(X) - ECM



Features:

- * Factory installed return air plenum
- * Copper tube aluminum fin coils
- * Easy access throwaway filter
- * Convertible to bottom return
- * Manual air vents
- * Sloped and insulated drain pan
- * 2 and 4-pipe models available
- * 120V motor (3-speed)
- * 277V option available
- * 220V, 50Hz models available

Option:

- * 3-speed, 24V control (contact factory)



	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	3APHBC-3	300	3-COOL OR HEAT	10	30-1/8	22-3/4	57
	4APHBC-3	400		10	36-1/8	22-3/4	70
	5APHBC-3	500		10	40-1/8	22-3/4	74
	6APHBC-3	600		10	40-1/8	22-3/4	76
	8APHBC-3	800		10	46-1/8	22-3/4	81
	10APHBC-3	1000		10	52-1/8	22-3/4	94
	13APHBC-3	1300		10	59-1/8	22-3/4	117
	3APHBC-4	300	4-COOL OR HEAT	10	30-1/8	22-3/4	57
	4APHBC-4	400		10	36-1/8	22-3/4	70
	5APHBC-4	500		10	40-1/8	22-3/4	74
	6APHBC-4	600		10	40-1/8	22-3/4	76
	8APHBC-4	800		10	46-1/8	22-3/4	81
	10APHBC-4	1000		10	52-1/8	22-3/4	94
13APHBC-4	1300	10		59-1/8	22-3/4	117	
4-PIPE	3APHBC-31	300	3-COOL, 1-HEAT	10	30-1/8	22-3/4	57
	4APHBC-31	400		10	36-1/8	22-3/4	70
	5APHBC-31	500		10	40-1/8	22-3/4	74
	6APHBC-31	600		10	40-1/8	22-3/4	76
	8APHBC-31	800		10	46-1/8	22-3/4	81
	10APHBC-31	1000		10	52-1/8	22-3/4	94
	13APHBC-31	1300		10	59-1/8	22-3/4	117
	3APHBC-32	300	3-COOL, 2-HEAT	10	30-1/8	22-3/4	57
	4APHBC-32	400		10	36-1/8	22-3/4	70
	5APHBC-32	500		10	40-1/8	22-3/4	74
	6APHBC-32	600		10	40-1/8	22-3/4	76
	8APHBC-32	800		10	46-1/8	22-3/4	81
	10APHBC-32	1000		10	52-1/8	22-3/4	94
	13APHBC-32	1300		10	59-1/8	22-3/4	117
	3APHBC-41	300	4-COOL, 1-HEAT	10	30-1/8	22-3/4	57
	4APHBC-41	400		10	36-1/8	22-3/4	70
	5APHBC-41	500		10	40-1/8	22-3/4	74
	6APHBC-41	600		10	40-1/8	22-3/4	76
	8APHBC-41	800		10	46-1/8	22-3/4	81
	10APHBC-41	1000		10	52-1/8	22-3/4	94
	13APHBC-41	1300		10	59-1/8	22-3/4	117

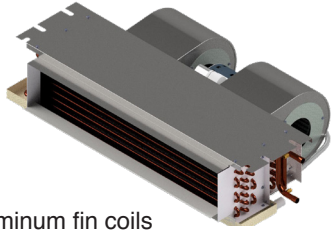
NOTES:

1. See Page 25 for thermostats, valves, and other accessories.

AHH(X)

Horizontal Fan Coil (Uncased)
Chilled Water - With Electric Heat

*(X) - ECM



Features:

- * Copper tube aluminum fin coils
- * Manual air vents
- * 240/24V relay/transformer
- * Factory installed electric heat
- * 277V option available
- * 2-Speed motor
- * Sloped and insulated drain pan
- * 220V, 50Hz models available



RETURN PLENUMS FOR HH SERIES		
PART NO.	FOR USE WITH	SHIP WT.
916-7-STK	3AHH	18
916-3-STK	4,6,8AHH	22
916-4-STK	10AHH	22
916-5-STK	12AHH	27



- NOTES:**
1. Plenums are field installed

UNIT MODEL	NOMINAL CFM	kW (HEAT)	COIL ROWS	DIMENSIONS			EST. SHIP WT.
				H	W	D	
3AHH2,3,4,5-240-3	300	2,3,4,5	3	10	25	21	42
4AHH3,5,6-240-3	400	3,5,6	3	10	40	21	52
6AHH3,5,6-240-3	500	3,5,6	3	10	40	21	78
6AHH8-240-3	500	8	3	10	40	21	78
6AHH3,5,6-240-3	600	3,5,6	3	10	40	21	78
6AHH8,10-240-3	600	8,10	3	10	40	21	78
8AHH5,6-240-3	800	5,6	3	10	40	21	82
8AHH8,10-240-3	800	8,10	3	10	40	21	82
10AHH5,6-240-3	1000	5,6	3	10	46	21	89
10AHH8,10-240-3	1000	8,10	3	10	46	21	89
12AHH5,6-240-3	1150	5,6	3	10	52	21	104
12AHH8,10,12-240-3	1150	8,10,12	3	10	52	21	104
3AHH2,3,4,5-240-4	300	2,3,4,5	4	10	25	21	42
4AHH3,5,6-240-4	400	3,5,6	4	10	40	21	52
6AHH3,5,6-240-4	450	3,5,6	4	10	40	21	78
6AHH8-240-4	450	8	4	10	40	21	78
6AHH3,5,6-240-4	600	3,5,6	4	10	40	21	78
6AHH8,10-240-4	600	8,10	4	10	40	21	78
8AHH5,6-240-4	800	5,6	4	10	40	21	82
8AHH8,10-240-4	800	8,10	4	10	40	21	82
10AHH5,6-240-4	1000	5,6	4	10	46	21	89
10AHH8,10-240-4	1000	8,10	4	10	46	21	89
12AHH5,6-240-4	1200	5,6	4	10	52	21	104
12AHH8,10,12-240-4	1200	8,10,12	4	10	52	21	104

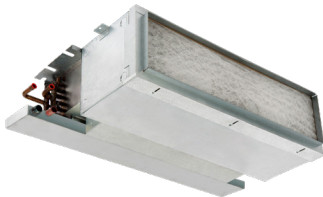
NOTES:

1. See Page 25 for thermostats, valves, and other accessories.

APHH(X)

Horizontal Fan Coil With Plenum
Chilled Water - With Electric Heat

*(X) - ECM



Features:

- * Factory installed return air plenum
- * Copper tube aluminum fin coils
- * Manual air vents
- * 240/24V relay/transformer
- * Factory installed electric heat
- * 277V option available
- * 2-Speed motor
- * Sloped and insulated drain pan
- * Throwaway filter
- * 220V, 50Hz models available



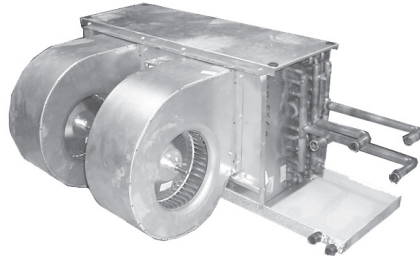
UNIT MODEL	NOMINAL CFM	kW (HEAT)	COIL ROWS	DIMENSIONS			EST. SHIP WT.
				H	W	D	
3APHHS2,3,4,5-240-3	300	2,3,4,5	3	10	25	24	60
4APHHS3,5,6-240-3	400	3,5,6	3	10	40	24	74
6APHHS3,5,6-240-3	450	3,5,6	3	10	40	24	100
6APHHS8-240-3	450	8	3	10	40	24	100
6APHH3,5,6-240-3	600	3,5,6	3	10	40	24	100
6APHH8,10-240-3	600	8,10	3	10	40	24	100
8APHH5,6-240-3	800	5,6	3	10	40	24	104
8APHH8,10-240-3	800	8,10	3	10	40	24	104
10APHH5,6-240-3	1000	5,6	3	10	46	24	113
10APHH8,10-240-3	1000	8,10	3	10	46	24	113
12APHH5,6-240-3	1150	5,6	3	10	52	24	131
12APHH8,10,12-240-3	1150	8,10,12	3	10	52	24	131
3APHHS2,3,4,5-240-4	300	2,3,4,5	4	10	25	24	60
4APHHS3,5,6-240-4	400	3,5,6	4	10	40	24	74
6APHHS3,5,6-240-4	450	3,5,6	4	10	40	24	100
6APHH8-240-4	450	8	4	10	40	24	100
6APHH3,5,6-240-4	600	3,5,6	4	10	40	24	100
6APHH8,10-240-4	600	8,10	4	10	40	24	100
8APHH5,6-240-4	800	5,6	4	10	40	24	104
8APHH8,10-240-4	800	8,10	4	10	40	24	104
10APHH5,6-240-4	1000	5,6	4	10	46	24	113
10APHH8,10-240-4	1000	8,10	4	10	46	24	113
12APHH5,6-240-4	1200	5,6	4	10	52	24	131
12APHH8,10,12-240-4	1200	8,10,12	4	10	52	24	131

NOTES:

1. See Page 25 for thermostats, valves, and other accessories.

AHYB

Horizontal Fan Coil (uncased)
Chilled / Hot Water



Features:

- * 2 and 4-pipe models available
- * Copper tube aluminum fin coils
- * Manual air vents
- * Sloped and insulated drain pan
- * 120V motor (3-speed)
- * 277V option available
- * 220V, 50Hz models available
- * 240V, 60Hz models available

Option:

- * 3-speed, 24V control (contact factory)
- * ECM motor available



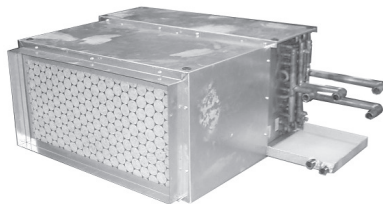
	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	12AHYB3	1200	3-COOL OR HEAT	16-1/2	41	27	105
	16AHYB3	1600		16-1/2	51	27	115
	20AHYB3	2000		16-1/2	60	27	125
2-PIPE	12AHYB4	1200	4-COOL OR HEAT	16-1/2	41	27	105
	16AHYB4	1600		16-1/2	51	27	115
	20AHYB4	2000		16-1/2	60	27	125
2-PIPE	12AHYB6	1200	6-COOL OR HEAT	16-1/2	41	27	105
	16AHYB6	1600		16-1/2	51	27	115
	20AHYB6	2000		16-1/2	60	27	125
4-PIPE	12AHYB31	1200	3-COOL, 1-HEAT	16-1/2	41	27	105
	16AHYB31	1600		16-1/2	51	27	115
	20AHYB31	2000		16-1/2	60	27	125
	12AHYB32	1200	3-COOL, 2-HEAT	16-1/2	41	27	105
	16AHYB32	1600		16-1/2	51	27	115
	20AHYB32	2000		16-1/2	60	27	125
	12AHYB41	1200	4-COOL, 1-HEAT	16-1/2	41	27	105
	16AHYB41	1600		16-1/2	51	27	115
	20AHYB41	2000		16-1/2	60	27	125
	12AHYB42	1200	4-COOL, 2-HEAT	16-1/2	41	27	105
	16AHYB42	1600		16-1/2	51	27	115
	20AHYB42	2000		16-1/2	60	27	125

NOTES:

1. See Page 25 for thermostats and valve packages.

APHYB

Horizontal with Plenum
Chilled / Hot Water



Features:

- * 2 and 4-pipe models available
- * Factory installed return air plenum
- * Copper tube aluminum fin coils
- * Manual air vents
- * Sloped and insulated drain pan
- * 277V option available
- * 220V, 50Hz models available
- * 240V, 60Hz models available

- * Insulated return air plenum
- * Throwaway filter

Option:

- * 3-speed, 24V control (contact factory)
- * ECM motor available



	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	12APHYB3	1200	3-COOL OR HEAT	16-1/2	41	28-5/8	125
	16APHYB3	1600		16-1/2	51	28-5/8	140
	20APHYB3	2000		16-1/2	60	28-5/8	150
2-PIPE	12APHYB4	1200	4-COOL OR HEAT	16-1/2	41	28-5/8	125
	16APHYB4	1600		16-1/2	51	28-5/8	140
	20APHYB4	2000		16-1/2	60	28-5/8	150
2-PIPE	12APHYB6	1200	6-COOL OR HEAT	16-1/2	41	28-5/8	125
	16APHYB6	1600		16-1/2	51	28-5/8	140
	20APHYB6	2000		16-1/2	60	28-5/8	150
4-PIPE	12APHYB31	1200	3-COOL, 1-HEAT	16-1/2	41	28-5/8	125
	16APHYB31	1600		16-1/2	51	28-5/8	140
	20APHYB31	2000		16-1/2	60	28-5/8	150
	12APHYB32	1200	3-COOL, 2-HEAT	16-1/2	41	28-5/8	125
	16APHYB32	1600		16-1/2	51	28-5/8	140
	20APHYB32	2000		16-1/2	60	28-5/8	150
	12APHYB41	1200	4-COOL, 1-HEAT	16-1/2	41	28-5/8	125
	16APHYB41	1600		16-1/2	51	28-5/8	140
	20APHYB41	2000		16-1/2	60	28-5/8	150
	12APHYB42	1200	4-COOL, 2-HEAT	16-1/2	41	28-5/8	125
	16APHYB42	1600		16-1/2	51	28-5/8	140
	20APHYB42	2000		16-1/2	60	28-5/8	150

NOTES:

1. Plenum is field-convertible from rear to bottom return.
2. See Page 25 for thermostats and valve packages.

ARHBC(X)

Chilled / Hot Water Fan Coil
Recessed Cabinet With
Telescoping Panel

*(X) - ECM



Features:

- * Telescoping panel allows height adjustment from 12 to 14 inches
- * Off-white louvered access panel for bottom return
- * Optional solid panel for end return
- * Easy access throwaway filter
- * Copper tube aluminum fin coils
- * Manual air vents
- * Sloped and insulated drain pan
- * 2 and 4-pipe models available
- * 120V motor (3-speed)
- * 277V option available
- * 220V, 50Hz models available



Option:

- * 3-speed, 24V control (contact factory)

	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	3ARHBC-3	300	3-COOL OR HEAT	12	38	24-3/8	90
	4ARHBC-3	400		12	44	24-3/8	100
	5ARHBC-3	500		12	48	24-3/8	105
	6ARHBC-3	600		12	48	24-3/8	105
	8ARHBC-3	800		12	54	24-3/8	120
	10ARHBC-3	1000		12	60	24-3/8	140
	13ARHBC-3	1300		12	67	24-3/8	160
	3ARHBC-4	300	4-COOL OR HEAT	12	38	24-3/8	90
	4ARHBC-4	400		12	44	24-3/8	100
	5ARHBC-4	500		12	48	24-3/8	105
	6ARHBC-4	600		12	48	24-3/8	105
	8ARHBC-4	800		12	54	24-3/8	120
	10ARHBC-4	1000		12	60	24-3/8	140
13ARHBC-4	1300	12		67	24-3/8	160	
4-PIPE	3ARHBC-31	300	3-COOL, 1-HEAT	12	38	24-3/8	90
	4ARHBC-31	400		12	44	24-3/8	100
	5ARHBC-31	500		12	48	24-3/8	105
	6ARHBC-31	600		12	48	24-3/8	105
	8ARHBC-31	800		12	54	24-3/8	120
	10ARHBC-31	1000		12	60	24-3/8	140
	13ARHBC-31	1300		12	67	24-3/8	160
	3ARHBC-32	300	3-COOL, 2-HEAT	12	38	24-3/8	90
	4ARHBC-32	400		12	44	24-3/8	100
	5ARHBC-32	500		12	48	24-3/8	105
	6ARHBC-32	600		12	48	24-3/8	105
	8ARHBC-32	800		12	54	24-3/8	120
	10ARHBC-32	1000		12	60	24-3/8	140
	13ARHBC-32	1300		12	67	24-3/8	160
	3ARHBC-41	300	4-COOL, 1-HEAT	12	38	24-3/8	90
	4ARHBC-41	400		12	44	24-3/8	100
	5ARHBC-41	500		12	48	24-3/8	105
	6ARHBC-41	600		12	48	24-3/8	105
	8ARHBC-41	800		12	54	24-3/8	120
	10ARHBC-41	1000		12	60	24-3/8	140
	13ARHBC-41	1300		12	67	24-3/8	160

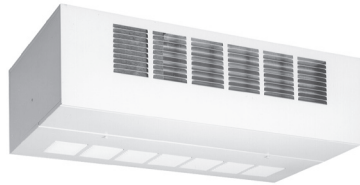
NOTES:

1. Cabinet height is field adjustable from 12 to 14 inches for flush ceiling installation.
2. See Page 25 for thermostats, valves, and other accessories.

ACHBC(X)

Chilled / Hot Water Fan Coil
Cabinet Exposed

*(X) - ECM



Features:

- * Attractive off-white baked on finish
- * Removable side panels for easier valve installation
- * Easy access throwaway filter
- * Copper tube aluminum fin coils
- * Hinged access panel
- * Manual air vents
- * Insulated condensate drain pan
- * 2 and 4-pipe models available
- * 120V motor (3-speed)
- * 277V option available
- * 220V, 50Hz models available



Option:

- * 3-speed, 24V control (contact factory)

	UNIT MODEL	NOMINAL CFM	COIL ROWS	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
2-PIPE	3ACHBC-3	300	3-COOL OR HEAT	12	38	24	89
	4ACHBC-3	400		12	44	24	98
	5ACHBC-3	500		12	48	24	107
	6ACHBC-3	600		12	48	24	108
	8ACHBC-3	800		12	54	24	112
	10ACHBC-3	1000		12	60	24	135
	13ACHBC-3	1300		12	67	24	147
	3ACHBC-4	300	4-COOL OR HEAT	12	38	24	89
	4ACHBC-4	400		12	44	24	98
	5ACHBC-4	500		12	48	24	107
	6ACHBC-4	600		12	48	24	108
	8ACHBC-4	800		12	54	24	112
	10ACHBC-4	1000		12	60	24	135
13ACHBC-4	1300	12		67	24	147	
4-PIPE	3ACHBC-31	300	3-COOL, 1-HEAT	12	38	24	89
	4ACHBC-31	400		12	44	24	98
	5ACHBC-31	500		12	48	24	107
	6ACHBC-31	600		12	48	24	108
	8ACHBC-31	800		12	54	24	112
	10ACHBC-31	1000		12	60	24	135
	13ACHBC-31	1300		12	67	24	147
	3ACHBC-32	300	3-COOL, 2-HEAT	12	38	24	89
	4ACHBC-32	400		12	44	24	98
	5ACHBC-32	500		12	48	24	107
	6ACHBC-32	600		12	48	24	108
	8ACHBC-32	800		12	54	24	112
	10ACHBC-32	1000		12	60	24	135
	13ACHBC-32	1300		12	67	24	147
	3ACHBC-41	300	4-COOL, 1-HEAT	12	38	24	89
	4ACHBC-41	400		12	44	24	98
	5ACHBC-41	500		12	48	24	107
	6ACHBC-41	600		12	48	24	108
	8ACHBC-41	800		12	54	24	112
	10ACHBC-41	1000		12	60	24	135
	13ACHBC-41	1300		12	67	24	147

NOTES:

1. See Page 25 for thermostats, valves, and other accessories

ACW(X)

Vertical Closet or Wall Recessed
Chilled Water / Hot Water (2-pipe)

*(X) - ECM

Features:

- * 3-speed, 24V control
- * Front or bottom return kit (kit required for bottom return)
- * 120V multi-speed motor
- * Easily accessible throwaway filter
- * Sloped thermoplastic drain pan
- * Primary and secondary drains
- * Can be hung on a closet wall (kit required)
- * Installed manual air purge valve
- * Electrical service pullout

Options:

- * Factory installed valve packages
- * Oversized louvered wall panel (with captive screws)
- * Condensate overflow switch
- * Bottom return air kit
- * 208/240-1 motor
- * 277-1 motor

UNIT MODEL	NOMINAL CFM	DIMENSIONS			EST. SHIP WT.
		H	W	D	
4ACW	400	40	22-1/8	15-1/8	90
6ACW	600				95
8ACW	800				100
10ACW	1000				120
12ACW	1200	43	22-1/8	18-1/8	140

NOTES:

1. See Page 25 for thermostats, and other accessories
2. Contact the factory for valve packages.



ACW-HW(X)

Vertical Closet or Wall Recessed
Chilled Water - Hot Water (4-pipe)

Features:

- * 3-speed, 24V control
- * Front or bottom return kit (kit required for bottom return)
- * 120V multi-speed motor
- * Easily accessible throwaway filter
- * Sloped thermoplastic drain pan
- * Primary and secondary drains
- * Can be hung on a closet wall (kit required)
- * Installed manual air purge valve

Options:

- * Factory installed valve packages
- * Oversized louvered wall panel (with captive screws)
- * Condensate overflow switch
- * Bottom return air kit
- * 208/240-1 motor
- * 277-1 motor

UNIT MODEL	NOMINAL CFM	DIMENSIONS			EST. SHIP WT.
		H	W	D	
4ACW-HW	400	43	22-1/8	18-1/8	90
6ACW-HW	600				95
8ACW-HW	800				100
10ACW-HW	1000				120
12ACW-HW	1200	43	22-1/8	21-1/8	140

NOTES:

1. See Page 25 for thermostats, and other accessories
2. Contact the factory for valve packages.



ACWE(X)

Vertical Closet or Wall Recessed
Chilled Water - With Electric Heat
*(X) - ECM

Features:

- * 3-speed, 24V control
- * 0 - 10 kW electric heat
- * 240V multi-speed motor
- * Easily accessible throwaway filter
- * Sloped thermoplastic drain pan
- * Primary and secondary drains
- * Can be hung on a closet wall (kit required)
- * Coil connections stub out top of unit
- * Electrical service pullout
- * Various optional factory installed valve packages

Options:

- * Factory installed valve packages
- * Oversized louvered wall panel (with captive screws)
- * Closet hanger bracket
- * Bottom return air kit
- * 208-1 motor
- * 277-1 motor

UNIT MODEL	NOMINAL CAPACITY (TONS)	kW (HEAT)	DIMENSIONS			EST. SHIP. WT.
			H	W	D	
4ACWE0, 1, 2 4ACWE3, 4	1.0	0, 1, 2 3, 4	40	22-1/8	15-1/8	90
6ACWE0, 2, 3 6ACWE4, 5, 6	1.5	0, 2, 3 4, 5, 6				95
8ACWE0, 3, 4 8ACWE5, 6, 8	2.0	0, 3, 4 5, 6, 8				100
10ACWE0, 3, 5 10ACWE6, 8, 10	2.5	0, 3, 5 6, 8, 10				120
12ACWE0, 3, 5 12ACWE6, 8, 10	3.0	0, 3, 5 6, 8, 10	43	22-1/8	18-1/8	140

NOTES:

1. See Page 25 for thermostats and other accessories
2. Contact the factory for valve packages.



AMB(X)

Vertical / Horizontal Air Handler
Chilled Water / Hot Water (2-pipe)

Features:

- * Copper tube aluminum fin coils
- * Factory installed filter
- * 120V motor - no controls
- * Direct drive motor
- * Horizontal drain pan
- * Painted cabinet

Options:

- * 3-speed, 24V control (contact factory)
- * 208/240-1 motor
- * 277-1 motor

*(X) - ECM

UNIT MODEL	NOMINAL CAPACITY (TONS)	DIMENSIONS			EST. SHIP. WT.
		H	W	D	
8AMB	1.0-2.0	40	20	20	105
12AMB	2.5-3.0	42	20	23	150
16AMB	3.5-4.0	48	21-1/4	28	195
20AMB	5.0	48	21-1/4	28	260

NOTES:

1. See Page 25 for thermostats and other accessories.



VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12
	E421417	2-WAY VALVE BODY	1"	7.0	16-20
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12
	E431417	3-WAY VALVE BODY	1"	7.0	16-20
POWER HEADS	E501 SERIES	24V, 120V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20
RELAY / TRANSFORMER	310-E301	120/240V RELAY / TRANSFORMER	---	---	ALL

NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).

AMB(X)-HW

Vertical / Horizontal Air Handler
Chilled Water / Hot Water (4-pipe)

Features:

- * Copper tube heating and cooling coils
- * Heating coil is down stream from blower
- * Manual air bleed on hot water coil
- * 120 multi-speed motor
- * Direct drive motor
- * Horizontal drain pan
- * Painted cabinet
- * Factory installed filter

Options:

- * 3-speed, 24V control (contact factory)
- * 208/240-1 motor
- * 277-1 motor

*(X) - ECM

UNIT MODEL	NOMINAL CAPACITY (TONS)	BTUH (HEAT) @ 180°F EWT	DIMENSIONS			EST. SHIP WT.
			H	W	D	
8AMB-2HW	1.0-2.0	41,700	40	20	20	105
8AMB-3HW	1.0-2.0	53,200	40	20	20	105
10AMB-3HW	2.5	72,200	42	20	23	140
12AMB-3HW	3.0	84,900	42	20	23	155
16AMB-4HW	4.0	127,400	48	21-1/4	28	210
20AMB-4HW	5.0	154,500	52	25-1/4	28	270

NOTES:

1. BTUH (heat) is calculated at 180°F EWT and nominal GPM.
2. See Page 25 for thermostats and other accessories.



NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).
3. AMB-HW units require valves and power heads for both coils.

VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12 (and 8-16 hgt. coil)
	E421417	2-WAY VALVE BODY	1"	7.0	16-20 (and 20 hgt. coil)
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12 (and 8-16 hgt. coil)
	E431417	3-WAY VALVE BODY	1"	7.0	16-20 (and 20 hgt. coil)
POWER HEADS	E501 SERIES	24V, 120V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12 (and 8-16 hgt. coil)
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20 (and 20 hgt. coil)
RELAY / TRANSFORMER	310-E301	120/240V RELAY / TRANSFORMER	---	---	ALL

AMB(X)E

Vertical / Horizontal Air Handler
Chilled Water - With Electric Heat

Features:

- * Copper tube aluminum fin coils
- * Factory installed filter
- * Painted cabinet
- * Factory installed electric heat (except 0 kW)
- * Circuit breaker service switch (above 10 kW)
- * 240/24V relay/transformer
- * Direct drive motor (2 speed)
- * Horizontal drain pan
- * 277-1 motor

Options:

- * 277V option available (U.L. listed)
- * 208/240-1 motor

*(X) - ECM

UNIT MODEL	NOMINAL CAPACITY (TONS)	kW (HEAT)	DIMENSIONS			EST. SHIP WT.
			H	W	D	
8AMBE3,4,5,6 8AMBE8,10	1.0-2.0	3, 4, 5, 6 8, 10	40	20	20	95
12AMBE5 12AMBE8,10 12AMBE15	2.5-3.0	5 8, 10 15	42	20	23	138
16AMBE 16AMBE8,10 16AMBE15,20,25	4.0	5 8, 10 15, 20, 25	48	21-1/4	23	195
20AMBE5 20AMBE8,10 20AMBE15,20,25	5.0	5 8, 10 15, 20, 25	48	21-1/4	28	210

NOTES:

1. See Page 25 for thermostats and other accessories.



VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12
	E421417	2-WAY VALVE BODY	1"	7.0	16-20
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12
	E431417	3-WAY VALVE BODY	1"	7.0	16-20
POWER HEADS	E501 SERIES	24V, 120V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20

NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).

AVMB (ECM Variable Speed) Vertical / Horizontal Air Handler Chilled Water / Hot Water (2-pipe)

Features:

- * High efficiency variable speed motor
- * Copper tube coils
- * Factory installed filter
- * 120/208/230-1 motor - 24V control
- * Convertible horizontal drain pan

UNIT MODEL	NOMINAL CAPACITY (TONS)	DIMENSIONS			EST. SHIP. WT.
		H	W	D	
8AVMB	1.0-2.0	40	20	20	120
12AVMB	2.5-3.0	42	20	23	165
16AVMB	3.5-4.0	48	21-1/4	28	210
20AVMB	5.0	48	21-1/4	28	275

NOTES:

1. See Page 25 for thermostats and other accessories.



VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12
	E421417	2-WAY VALVE BODY	1"	7.0	16-20
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12
	E431417	3-WAY VALVE BODY	1"	7.0	16-20
POWER HEADS	E501 SERIES	24V, 12-V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20

NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).



AVMB-HW (ECM Variable Speed) Vertical / Horizontal Air Handler Chilled Water / Hot Water (4-pipe)

Features:

- * High efficiency variable speed motor
- * Copper tube heating and cooling coils
- * Heating coil is down stream from blower
- * Manual air bleed on hot water coil
- * 120/208/230-1 motor - 24V control
- * Convertible horizontal drain pan
- * Factory installed filter

UNIT MODEL	NOMINAL CAPACITY (TONS)	BTUH (HEAT @ 180°F EWT)	DIMENSIONS			EST. SHIP. WT.
			H	W	D	
8AVMB-3HW	1.0-2.0	55,600	40	20	20	120
12AVMB-3HW	2.5-3.0	84,600	42	20	23	170
16AVMB-4HW	4.0	127,700	48	21-1/4	28	225
20AVMB-4HW	5.0	156,200	52	25-1/4	28	285

NOTES:

1. BTUH (heat) is calculated at 180°F EWT and nominal GPM.
2. See Page 25 for thermostats and other accessories.



VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12 (and 8-16 htg. coil)
	E421417	2-WAY VALVE BODY	1"	7.0	16-20 (and 20 htg. coil)
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12 (and 8-16 htg. coil)
	E431417	3-WAY VALVE BODY	1"	7.0	16-20 (and 20 htg. coil)
POWER HEADS	E501 SERIES	24V, 120V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12 (and 8-16 htg. coil)
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20 (and 20 htg. coil)

NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).
3. AVMB-HW units require valves and power heads for both coils.



AVMBE (ECM Variable Speed) Vertical / Horizontal Air Handler Chilled Water - With Electric Heat

Features:

- * High efficiency variable speed motor
- * Copper tube coils
- * Factory installed filter
- * Factory installed electric heat (except 0 kW)
- * Circuit breaker service switch (above 10 kW)
- * 240/208-1 motor - 24V control
- * Convertible horizontal drain pan

UNIT MODEL	NOMINAL CAPACITY (TONS)	CFM	kW (HEAT)	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
8AVMBE3,4,5,6 8AVMBE8,10	1.0-2.0	600-800	3,4,5,6 8,10	40	20	20	95
12AVMBE5 12AVMBE8,10 12AVMBE15	2.5-3.0	1000-1200	5 8,10 15	42	20	23	138
16AVMBE5 16AVMBE8,10 16AVMBE15,20,25	4.0	1400-1600	5 8,10 15,20,25	48	21-1/4	28	195
20AVMBE5 20AVMBE8,10 20AVMBE15,20,25	5.0	1600-2000	5 8,10 15,20,25	48	21-1/4	28	210

NOTES:

1. See Page 25 for thermostats and other accessories.

VALVES for field installation. Recommended valve package per coil: 1 valve body, 1 power head and 2 hand valves					
	PART NO	DESCRIPTION	SIZE	Cv	USE ON UNIT SIZE
VALVE BODIES	E421317	2-WAY VALVE BODY	3/4"	7.0	8-12
	E421417	2-WAY VALVE BODY	1"	7.0	16-20
	E431317	3-WAY VALVE BODY	3/4"	7.0	8-12
	E431417	3-WAY VALVE BODY	1"	7.0	16-20
POWER HEADS	E501 SERIES	24V, 120V, 230V, 277V	---	---	ALL
HAND VALVES	CP90	COMBINATION BALANCE / SHUT-OFF	3/4"	---	8-12
	CP905	COMBINATION BALANCE / SHUT-OFF	1"	---	16-20



NOTES:

1. Power head leads are 18".
2. Valves must mount outside of cabinet (field installed).

AVCB, AVFB, AVSB, AWCB

Floor Consoles Chilled / Hot Water

Features:

- * Concealed model - **AVCB**
- * Flat Top - **AVFB**
- * Slope Top - **AVSB**
- * Recessed Wall - **AWCB** (includes wall panel)
- * Attractive painted cabinet (AVFB, AVSB only)
- * Electrical service switch
- * Multi-speed motors (120V)
- * Copper tube coils
- * Manual air vents
- * Permanent filter
- * Super quiet operation
- * 277V option available
- * 220V, 50Hz models available
- * ECM motor available

UNIT MODEL	SIZE	NOMINAL CFM	AVAILABLE COIL CONFIGURATION	DIMENSIONS			EST. SHIP. WT.
				H	W	D	
AVCB/ AWCB	3	300	3-ROW 4-ROW 3 COOL, 1 HEAT 4 COOL, 1 HEAT ⁽¹⁾	24-1/2	40-1/4	9-1/4	90
	4	400		24-1/2	48-1/4	9-1/4	90
	6	600		24-1/2	56-1/4	9-1/4	90
	8	800		24-1/2	64-1/4	9-1/4	115
	10	1000		24-1/2	72-1/4	9-1/4	130
12	1200	24-1/2	80-1/4	9-1/4	130		
AVFB	3	300	3-ROW 4-ROW 3 COOL, 1 HEAT 4 COOL, 1 HEAT ⁽¹⁾	25	43	9-1/4	90
	4	400		25	51	9-1/4	90
	6	600		25	59	9-1/4	90
	8	800		25	67	9-1/4	115
	10	1000		25	75	9-1/4	130
12	1200	25	83	9-1/4	130		
AVSB	3	300	3-ROW 4-ROW 3 COOL, 1 HEAT 4 COOL, 1 HEAT ⁽¹⁾	27-5/8	43	9-1/4	95
	4	400		27-5/8	51	9-1/4	95
	6	600		27-5/8	59	9-1/4	95
	8	800		27-5/8	67	9-1/4	120
	10	1000		27-5/8	75	9-1/4	135
12	1200	27-5/8	83	9-1/4	138		

NOTES:

1. Size 10 and 12, 4/1 split not available (4 row max.).
2. Contact factory for such options as unit mounted thermostat with 3 speed switch, valve packages, air dampers, etc.



Vertical High-Rise ARR(X)

(300 - 1200 CFM)

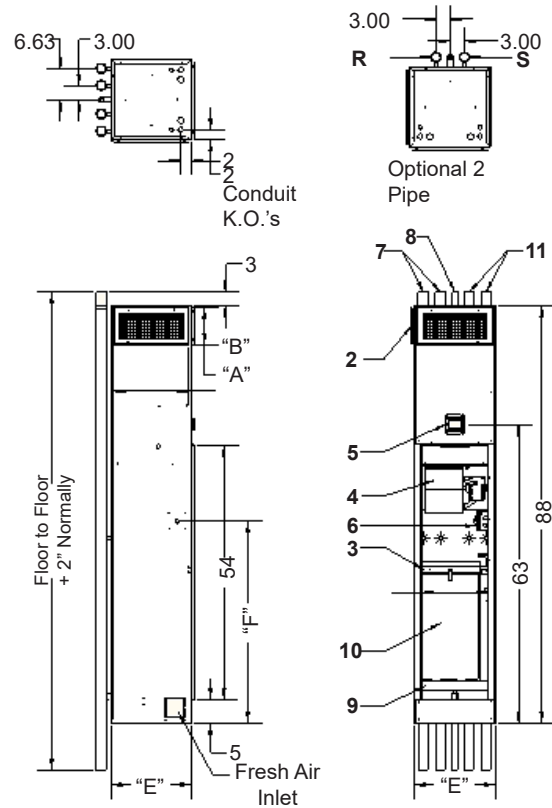
Vertical - Hydronic

*(X) - ECM

Chilled water / Hot water / Electric Heat

Features:

- * 18 gauge galvanized steel frame and back panel
- * 3/4" thick antimicrobial coated Tuf-skin RX fiberglass insulation
- * Powder coated optional stamped louver return air grille panel
- * Galvanized steel drain pan coated inside with closed-cell foam insulation
- * 1" filter track with 1" TA filter
- * DWDI forward curve blower wheels statically and dynamically balanced
- * Coils are 1'2" copper tube with mechanically bonded aluminum fins
- * 2-pipe and 4-pipe coil options
- * Coil working pressure to 350 PSI
- * Manual air vents
- * Standard factory mounted piping risers are 115" long with 3" belled ends
- * Risers are type M copper insulated with 1/2 closed cell insulation
- * Various valve and actuator options
- * Standard unit is 115/1/60 power supply
- * Standard unit includes 3-speed fan board 120/24V



MODEL	SINGLE SUPPLY			DOUBLE SUPPLY			TOP SUPPLY						
	A	B	SIZE	A	B	SIZE	C	D	SIZE	E	F	G	FILTER SIZE
ARRA300	14	8	14 X 8	14	6	14X6	14	10	14 X 10	17	42.62	14.13	12.5 X 24.25 X 1
ARRA400	14	12	14 X 12	14	6	14X6	14	10	14 X 10	17	42.62	14.13	12.5 X 24.25 X 1
ARRA600	18	10	18 X 10	18	6	18X6	16	12	16 X 12	20	42.62	18.13	16.25 X 26.75 X 1
ARRA800	18	12	18 X 12	18	6	18X6	16	12	16 X 12	20	42.62	18.13	16.25 X 26.75 X 1
ARRA1000	---	---	---	22	8	22X8	18	16	18 X 16	24	42.62	22.13	20.50 X 29.25 X 1
ARRA1200	---	---	---	23	8	22X8	18	16	18 X 16	24	42.62	22.13	20.50 X 29.25 X 1

Vertical High-Rise ARM(X)/ARS(X) (300 - 1200 CFM)

Primary Unit / Secondary Unit

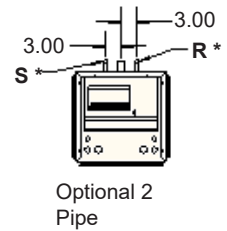
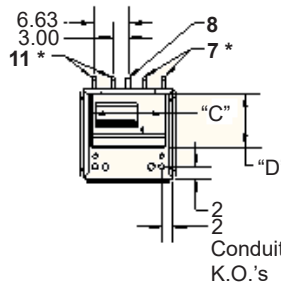
*(X) - ECM

Vertical - Hydronic

Chilled water / Hot water / Electric Heat

Features:

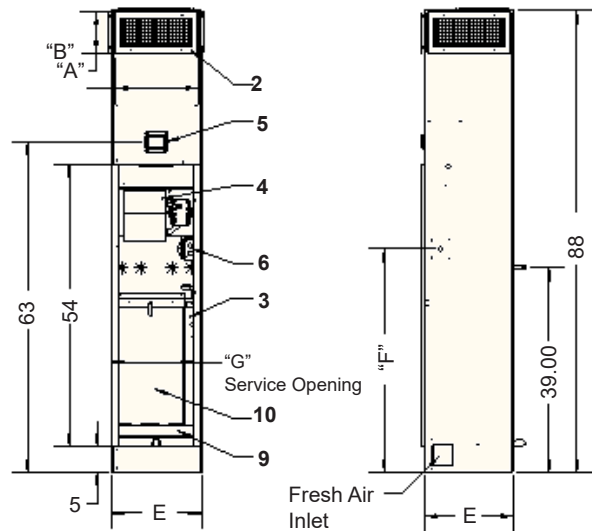
- * 18 gauge galvanized steel frame and back panel
- * 3/4" thick antimicrobial coated Tuf-skin RX fiberglass insulation
- * Powder coated optional stamped louver return air grille panel
- * Galvanized steel drain pan coated inside with closed-cell foam insulation
- * 1" filter track with 1" TA filter
- * DWDI forward curve blower wheels statically and dynamically balanced
- * Coils are 1'2" copper tube with mechanically bonded aluminum fins
- * 2-pipe and 4-pipe coil options
- * Coil working pressure to 350 PSI
- * Manual air vents
- * Standard factory mounted piping risers are 115" long with 3" belled ends
- * Risers are type M copper insulated with 1/2 closed cell insulation
- * Various valve and actuator options
- * Standard unit is 115/1/60 power supply
- * Standard unit includes 3-speed fan board 120/24V



Primary



Secondary



MODEL	SINGLE SUPPLY			DOUBLE SUPPLY			TOP SUPPLY						
	A	B	SIZE	A	B	SIZE	C	D	SIZE	E	F	G	FILTER SIZE
ARMA300	14	8	14 X 8	14	6	14X6	14	10	14 X 10	17	42.62	14.13	12.5 X 24.25 X 1
ARMA400	14	12	14 X 12	14	6	14X6	14	10	14 X 10	17	42.62	14.13	12.5 X 24.25 X 1
ARMA600	18	10	18 X 10	18	6	18X6	16	12	16 X 12	20	42.62	18.13	16.25 X 26.75 X 1
ARMA800	18	12	18 X 12	18	6	18X6	16	12	16 X 12	20	42.62	18.13	16.25 X 26.75 X 1
ARMA1000	---	---	---	22	8	22X8	18	16	18 X 16	24	42.62	22.13	20.50 X 29.25 X 1
ARMA1200	---	---	---	23	8	22X8	18	16	18 X 16	24	42.62	22.13	20.50 X 29.25 X 1

AWH Double Wall (600 - 10,000 CFM)

Belt Drive Blower - Coil
Horizontal - Hydronic

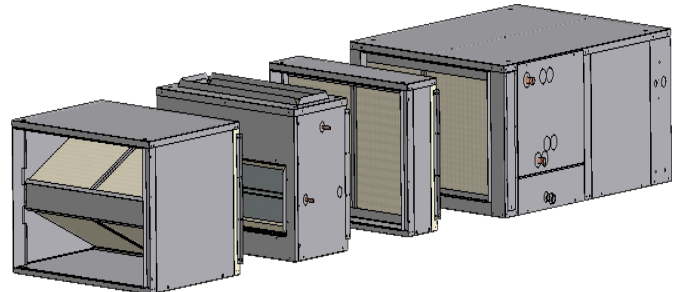
Features:

- * 1" Double wall post and panel construction
- * Minimum of 18 gauge galvanized steel material
- * 1" 1.5lb density fiberglass insulation
- * 1/2" OD copper tube coil
- * Three-way sloped IAQ drain pans UL94-5V rated
- * DWDI forward curved fan wheels
- * ODP belt drive motors w/automatic reset thermal protection (except 3 and 5 HP)
- * Motors factory installed
- * Motor wiring harness terminating in factory mounted 4x4 j-box
- * Manual air vents
- * Gasketed access panels
- * Internal rubber-in-compression isolators
- * Tool free access panel fasteners
- * 2" Pleated Merv 7 filters
- * Base mount motor assembly
- * Hydronic coils tested at 350 pounds air pressure for 300 PSI gauge working pressure

Options

- * Coils are available with 2 circuit options
- * 1, 2, 4, or 6 row coils, total of 10 rows
- * Stainless steel IAQ drain pan
- * Electric heat-Discharge mounted
- * Spring isolator kits
- * Motor control box
- * Motor control starters
- * 4" Flat filter section
- * 2" or 4" angled filter section (4" not available for size 8 or 12)
- * Mixing box
- * TEFC motors
- * 2-speed motors
- * Voltage options: 120/208/240-1 phase
208/240/460-3 phase
277-1 phase
- * HP's from 1/3 to 10 available
- * ECM motor available

UNIT MODEL	NOM. CFM	DIMENSIONS			EST. SHIP. WT.
		H	W	D	
8AWH	800	19	32-1/4	53-1/4	295
12AWH	1200	19	36-1/4	53-1/4	320
16AWH	1600	21-1/2	40-1/4	53-1/4	361
20AWH	2000	21-1/2	46-1/4	53-1/4	402
30AWH	3000	34	46-1/4	66-1/8	
40AWH	4000	34	57-1/4	66-1/8	
60AWH	6000	44	66-1/4	75-1/4	
80AWH	8000	58-1/2	66-1/4	75-1/4	



ASHW Single Wall (600-10,000 CFM)

Belt Drive Blower - Coil
Horizontal - Hydronic

Features:

- * All motors are factory installed
- * Sloped and insulated drain pan
- * Galvanized steel cabinet
- * Insulation meets IAQ standards
- * Manual air vents
- * Hanger brackets (2 - 5 ton only)
- * Adjustable sheaves
- * Various motor options
- * Factory installed filters

Options

- * Motor control box
- * Hot water coils
- * Electric heat (field mounted)
- * Vibration isolators
- * ECM motor available

UNIT MODEL	CFM	DIMENSIONS			EST. SHIP. WT.
		H	W	D	
24ASHW (4 or 6-Row)	600-1000	18-7/8	37	32-1/2	205
36ASHW	1000-1400	18-7/8	37	42	225
48ASHW	1400-1800	22-7/8	39	43-1/2	265
60ASHW	1800-2200	22-7/8	42	50-1/2	310
90ASHW	2500-3500	27	52-1/2	54	475
120ASHW	3400-4600	32	52-1/2	57	535
180ASHW	5200-6800	39-1/2	56-1/2	66	710
240ASHW	6000-10000	52	62-1/2	66	880

NOTES:

1. Contact factory for optional motors.
2. Contact factory for **electric heat** information



ASVW Single Wall (600-10,000 CFM)

Belt Drive Blower - Coil
Vertical - Hydronic

Features:

- * All motors are factory installed
- * Sloped and insulated drain pan
- * Galvanized steel cabinet
- * Insulation meets IAQ standards
- * Adjustable sheaves
- * Factory installed filters
- * Manual air vents
- * Various motor options

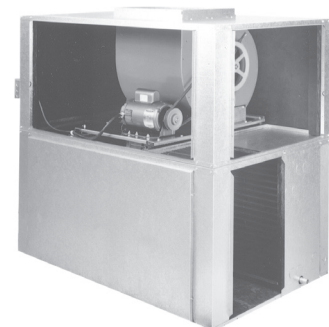
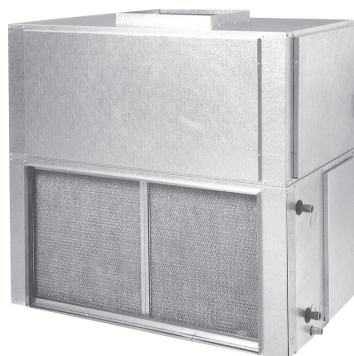
Options

- * Motor control box
- * Hot water coils
- * Electric heat (field mounted)
- * Vibration isolators
- * ECM motor available

UNIT MODEL	CFM	DIMENSIONS			EST. SHIP. WT.
		H	W	D	
24ASVW (4 or 6-Row)	600-1000	35-1/8	28-1/2	31-1/4	205
36ASVW	1000-1400	35-1/8	38	31-1/4	225
48ASVW	1400-1800	41-7/8	39-1/2	31-1/4	265
60ASVW	1800-2200	43-1/8	46-1/2	31-1/4	310
90ASVW	2500-3500	51	55-1/2	37-1/2	475
120ASVW	3400-4600	56	58-1/2	37-1/2	535
180ASVW	5200-6800	63-1/8	66	46-1/4	710
240ASVW	6000-10000	75-1/2	66	46-1/4	880

NOTES:

1. Contact factory for optional motors.
2. Contact factory for **electric heat** information



Optional Accessories for ASHW/ASHX/ASVW/ASVX Blower Coils

DESCRIPTION	PART NUMBER	FOR	FACTORY OR FIELD INSTALLED	EST. SHIP WT.
HOT WATER (1) COILS	24HWK	Size 24	FACTORY OR FIELD INSTALLED	15
	36HWK	Size 36		20
	48HWK	Size 48		27
	60HWK	Size 60		32
	90HWK	Size 90		43
	120HWK	Size 120		55
	180HWK	Size 180		88
	240HWK	Size 240		---
PERMANENT FILTERS (3)	975-1	Size 24	FACTORY INSTALLED	---
	975-2	Size 36		---
	975-3	Size 48		---
	975-4	Size 60		---
DISCHARGE PLENUM/GRILLE	24DP	24ASHW	FIELD INSTALLED	20
	36DP	36ASHW		24
	48DP	48ASHW		27
	60DP	60ASHW		31
	90DP	90ASHW		---
	120DP	120ASHW		---
	180DP	180ASHW		---
	240DP	240ASHW		---
MIXING BOXES	24MB	Size 24	FIELD INSTALLED	43
	36MB	Size 36		60
	48MB	Size 48		65
	60MB	Size 60		75
	90MB	Size 90		115
	120MB	Size 120		131
	180MB	Size 180		196
240MB	Size 240	210		
MOTOR CONTROLS	PAGE 22			

ELECTRIC HEAT (DISCHARGE MTD)
SEE PAGE 20-21

SPRING ISOLATORS
SEE PAGE 22

NOTES:

1. Reheat position for hot water coils is standard. For preheat, please specify.
2. Factory installed options must be specified at time of order entry.
3. Contact factory for pleated filters.

Ceiling Access Panels

PANEL NUMBER	FOR AE AIR FAN COIL MODEL	DESCRIPTION	FRAME DIMENSIONS (OPENING)		FRAME DIMENSIONS (OUTSIDE)		EST. SHIP. WT.
965 965-1	3-6(AP)AHBC, 3-8(AP)AHH, 36(AP)AHYB	LOUVERED NON-LOUVERED	24-1/2	40	27-1/2	43	18
966 966-1	8(AP)AHBC, 10(AP)AHH	LOUVERED NON-LOUVERED	24-1/2	46	27-1/2	49	20
967 967-1	10(AP)AHBC, 12(AP)AHH	LOUVERED NON-LOUVERED	24-1/2	52-1/2	27-1/2	55-1/2	22
967-4 967-5	13(AP)AHBC	LOUVERED NON-LOUVERED	24-1/2	67-1/8	27-1/2	70-1/8	30



LOUVERED (default style)
(965, 966, 967, 967-4)



NON-LOUVERED
(965-1, 966-1, 967-1)

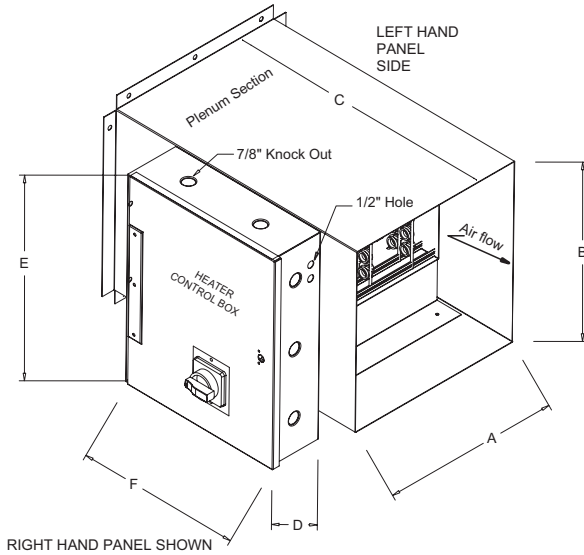
Features:

- * Panels are surface mount . . . they don't have to perfectly match the opening
- * Attractive baked on white epoxy coating (can be field painted)
- * Filter clips are provided on louvered models to accept 20 x 20 filter (except 967-4, which has a 10 x 65 x 1 factory installed filter)
- * Hinged panel can be reversed for better clearance
- * All panels have "captive" door screws

Electric Heat for ASHW / ASVW Belt Drive Products

SINGLE POINT CONNECTION (CONTACTOR AND TERMINAL BOARD)
 PRIMARY AND SECONDARY CONTACTOR (DE-ENERGIZING)
 AUTO AND MANUAL LIMIT SWITCH (PILOT DUTY)
 HIGH NICKEL CHROME ALLOY RESISTANCE WIRE

HIGH AND LOW VOLTAGE TERMINAL BOARD
 TRANSFORMER (S4 VOLT SECONDARY)
 AIRFLOW SWITCH (NON ADJUSTABLE)
 POWER FUSING (PER NEC)



MUST SPECIFY
 IF UNITS ARE
 HORIZONTAL OR
 VERTICAL AND WITH
 LEFT HAND OR RIGHT
 HAND CONNECTIONS

OPTIONS

NON-FUSED DISCONNECT
 80/20 WIRE
 STAINLESS TERMINALS
 **MULTIPLE STAGES
 **SCR CONTROL
 **STEP CONTROLLER
 WALL STAT
 DUCT STAT

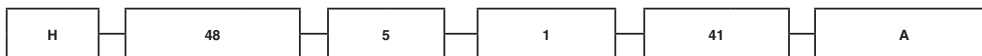
NOTE

**CONTACT FACTORY FOR
 THESE OPTIONS.
 Options not available on
 all heaters

MODELS	UNIT SIZE	DESIGNATION	A	B	C	D	E	F
ASH/ASV	24 (2-TON)	24	9.7	11.1	14	5.5	17	11.5
ASH/ASV	36 (3-TON)	36	12.7	11.1	14	5.5	17	11.5
ASH/ASV	48 (4-TON)	48	14	12.2	14	5.5	21	11.5
ASH/ASV	60 (5-TON)	61	16.4	14.2	14	5.5	21	11.5
ASH/ASV	90 (7.5-TON)	90	19.5	16.6	14	5.5	26	11.5
ASH/ASV	120 (10-TON)	120	19.5	16.7	14	5.5	30	11.5
ASH/ASV	180 (15-TON)	180	---	---	---	---	---	---
ASH/ASV	240 (20-TON)	240	---	---	---	---	---	---

HEATER NOMENCLATURE

HEATER	UNIT DESIGNATION		KW		HEATER STAGES		VOLTAGE		NF-DISCONNECT		OPT. ACCYS.	
	SINGLE WALL UNIT SIZE	CODE	KW	CODE	STAGES	CODE	I-PHASE	CODE	TOTAL AMPS	CODE	ACCYS.	CODE
H	24 (2 TON)	24	1KW	1	1 STAGE	1	208V	01	40 AMP	A	NO ACCYS.	N
	36 (3 TON)	36	2KW	2	2 STAGE	2	220V	21	80 AMP	B	J-BOX CONDUIT	J
	48 (4 TON)	48	3KW	3	3 STAGE	3	240V	41	100 AMP	C	INSULATED PANEL	I
	60 (5 TON)	61	1.5KW	4	SCR	M	277V	71	125 AMP	D		
	90 (7.5 TON)	90	2.7KW	5			3-PHASE	CODE	NO DISCONNECT	N		
	120 (10 TON)	120	15KW	15			208V	03				
	180 (15 TON)	180					240V	43				
240 (20 TON)	240					380V	83					
						460V	63					

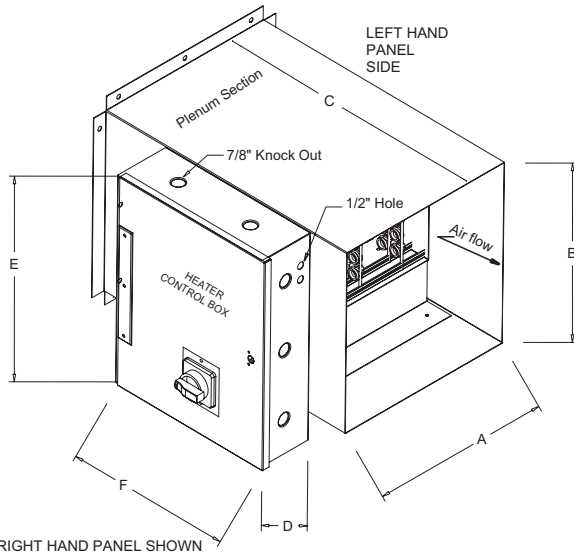


EXAMPLE: MODEL # H485151A
 DESCRIPTION: 48 (4 TON) 5KW 1 STAGE 240V/1PH 40 AMP NON-FUSED DISCONNECT

Electric Heat for AWHD Belt Drive Products

SINGLE POINT CONNECTION (CONTACTOR AND TERMINAL BOARD)
 PRIMARY AND SECONDARY CONTACTOR (DE-ENERGIZING)
 AUTO AND MANUAL LIMIT SWITCH (PILOT DUTY)
 HIGH NICKEL CHROME ALLOY RESISTANCE WIRE

HIGH AND LOW VOLTAGE TERMINAL BOARD
 TRANSFORMER (S4 VOLT SECONDARY)
 AIRFLOW SWITCH (NON ADJUSTABLE)
 POWER FUSING (PER NEC)



MUST SPECIFY
 IF UNITS ARE
 HORIZONTAL OR
 VERTICAL AND WITH
 LEFT HAND OR RIGHT
 HAND CONNECTIONS

OPTIONS

NON-FUSED DISCONNECT
 80/20 WIRE
 STAINLESS TERMINALS
 **MULTIPLE STAGES
 **SCR CONTROL
 **STEP CONTROLLER
 WALL STAT
 DUCT STAT

NOTE

**CONTACT FACTORY FOR
 THESE OPTIONS.
 Options not available on
 all heaters

MODELS	UNIT SIZE	DESIGNATION	A	B	C	D	E	F
AWHD	08 (2-TON)	08	7.5	11.1	14	5.5	17	11.5
AWHD	12 (3-TON)	12	9.1	11.1	14	5.5	17	11.5
AWHD	16 (4-TON)	16	10.2	12.2	14	5.5	19	11.5
AWHD	20 (5-TON)	20	13.1	14.2	14	5.5	19	11.5
AWHD	30 (7.5-TON)	30	15.3	16.7	14	5.5	24	11.5
AWHD	40 (10-TON)	40	19.3	16.7	14	5.5	24	11.5
AWHD	60 (15-TON)	60	22.5	19.3	14	5.5	30	11.5
AWHD	80 (20-TON)	80	22.5	19.3	14	5.5	30	11.5




HEATER NOMENCLATURE




HEATER	UNIT DESIGNATION	KW	HEATER STAGES	VOLTAGE	NF-DISCONNECT	OPT. ACCYS.
H	DOUBLE WALL UNIT SIZE	KW	STAGES	I-PHASE	TOTAL AMPS	ACCYS.
	CODE	CODE	CODE	CODE	CODE	CODE
	08 (2 TON)	1KW 1	1 STAGE 1	208V 01	40 AMP A	NO ACCYS. N
	12 (3 TON)	2KW 2	2 STAGE 2	220V 21	80 AMP B	J-BOX CONDUIT J
	16 (4 TON)	3KW 3	3 STAGE 3	240V 41	100 AMP C	INSULATED PANEL I
	20 (5 TON)	1.5KW 4	SCR M	277V 71	125 AMP D	
	30 (7.5 TON)	2.7KW 5		3-PHASE	NO DISCONNECT N	
	40 (10 TON)	15KW 15		208V 03		
			240V 43			
			380V 83			
			460V 63			

H	08	5	1	41	A
---	----	---	---	----	---

EXAMPLE: MODEL # H085141A
 DESCRIPTION: 08 (2 TON DOUBLE WALL) 5KW 1 STAGE 240V/1PH 40 AMP NON-FUSED DISCONNECT

SPRING ISOLATOR KITS FOR BELT DRIVE PRODUCTS

NON-SEISMIC Hanger Selections for Ceiling Suspended Units						
ASHW/ASHX-HORIZONTAL SPRING ISOLATORS						
						
UNIT MODEL NUMBER	HANGER		HANGER		HANGER	
	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE
HORIZONTAL FAN & COIL SECTION - 4 ROW COIL						
24 ASHW	FVI-1	4-X	FVI-7	4-X	FVI-13	4-A
36 ASHW	FVI-1	4-X	FVI-7	4-X	FVI-13	4-A
48 ASHW	FVI-2	4-X	FVI-8	4-X	FVI-13	4-A
60 ASHW	FVI-2	4-X	FVI-8	4-X	FVI-13	4-A
90 ASHW	FVI-3	4-X	FVI-9	4-X	FVI-14	4-B
120 ASHW	FVI-3	4-X	FVI-9	4-X	FVI-14	4-B
180 ASHW	FVI-4	4-A	FVI-10	4-A	FVI-15	4-B
240 ASHW	FVI-5	4-A	FVI-11	4-A	FVI-15	4-B
HORIZONTAL FAN & COIL SECTION - 6 ROW COIL						
24 ASHW	FVI-1	4-X	FVI-7	4-X	FVI-13	4-A
36 ASHW	FVI-1	4-X	FVI-7	4-X	FVI-13	4-A
48 ASHW	FVI-2	4-X	FVI-8	4-X	FVI-13	4-A
60 ASHW	FVI-2	4-X	FVI-8	4-X	FVI-13	4-A
90 ASHW	FVI-3	4-X	FVI-9	4-X	FVI-14	4-B
120 ASHW	FVI-6	4-X	FVI-12	4-X	FVI-14	4-B
180 ASHW	FVI-5	4-A	FVI-11	4-A	FVI-15	4-B
240 ASHW	FVI-5	4-A	FVI-11	4-A	FVI-15	4-B
HORIZONTAL FAN & COIL SECTION - 4 ROW COIL WITH MIXING BOX						
24 ASHW	FVI-16	6-X	FVI-23	6-X	FVI-30	6-A
36 ASHW	FVI-16	6-X	FVI-23	6-X	FVI-30	6-A
48 ASHW	FVI-17	6-X	FVI-24	6-X	FVI-30	6-A
60 ASHW	FVI-18	6-X	FVI-25	6-X	FVI-30	6-A
90 ASHW	FVI-19	6-X	FVI-26	6-X	FVI-31	6-B
120 ASHW	FVI-19	6-X	FVI-26	6-X	FVI-31	6-B
180 ASHW	FVI-20	6-A	FVI-27	6-A	FVI-32	6-B
240 ASHW	FVI-21	6-A	FVI-28	6-A	FVI-32	6-B
HORIZONTAL FAN & COIL SECTION - 6 ROW COIL WITH MIXING BOX						
24 ASHW	FVI-16	6-X	FVI-23	6-X	FVI-30	6-A
36 ASHW	FVI-16	6-X	FVI-23	6-X	FVI-30	6-A
48 ASHW	FVI-17	6-X	FVI-24	6-X	FVI-30	6-A
60 ASHW	FVI-18	6-X	FVI-25	6-X	FVI-30	6-A
90 ASHW	FVI-19	6-X	FVI-26	6-X	FVI-31	6-B
120 ASHW	FVI-22	6-A	FVI-29	6-A	FVI-31	6-B
180 ASHW	FVI-20	6-A	FVI-27	6-A	FVI-32	6-B
240 ASHW	FVI-21	6-A	FVI-28	6-A	FVI-32	6-B

NON-SEISMIC Base Selection for Floor Mounted Units						
ASHW/ASHX-VERTICAL SPRING ISOLATORS						
						
UNIT MODEL NUMBER	MOUNTS		MOUNTS		MOUNTS	
	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE	QTY & SIZE
HORIZONTAL FAN & COIL SECTION - 4 ROW COIL						
24 ASVW	FVI-59	4-A	FVI-63	4-A	FVI-67	4-A
36 ASVW	FVI-59	4-A	FVI-63	4-A	FVI-67	4-A
48 ASVW	FVI-60	4-A	FVI-64	4-A	FVI-67	4-A
60 ASVW	FVI-60	4-A	FVI-64	4-A	FVI-67	4-A
90 ASVW	FVI-61	4-A	FVI-65	4-A	FVI-68	4-B
120 ASVW	FVI-61	4-A	FVI-65	4-A	FVI-68	4-B
180 ASVW	FVI-62	4-A	FVI-66	4-A	FVI-69	4-B
240 ASVW	FVI-62	4-A	FVI-66	4-A	FVI-69	4-B
HORIZONTAL FAN & COIL SECTION - 6 ROW COIL						
24 ASVW	FVI-59	4-A	FVI-63	4-A	FVI-67	4-A
36 ASVW	FVI-59	4-A	FVI-63	4-A	FVI-67	4-A
48 ASVW	FVI-60	4-A	FVI-64	4-A	FVI-67	4-A
60 ASVW	FVI-60	4-A	FVI-64	4-A	FVI-67	4-A
90 ASVW	FVI-61	4-A	FVI-65	4-A	FVI-68	4-B
120 ASVW	FVI-61	4-A	FVI-65	4-A	FVI-68	4-B
180 ASVW	FVI-62	4-A	FVI-66	4-A	FVI-69	4-B
240 ASVW	FVI-62	4-A	FVI-66	4-A	FVI-69	4-B
HORIZONTAL FAN & COIL SECTION - 4 ROW COIL WITH MIXING BOX						
24 ASVW	FVI-70	6-A	FVI-76	6-A	FVI-82	6-A
36 ASVW	FVI-70	6-A	FVI-76	6-A	FVI-82	6-A
48 ASVW	FVI-71	6-A	FVI-77	6-A	FVI-82	6-B
60 ASVW	FVI-72	6-A	FVI-78	6-A	FVI-83	6-B
90 ASVW	FVI-73	6-A	FVI-79	6-A	FVI-83	6-B
120 ASVW	FVI-74	6-A	FVI-80	6-A	FVI-83	6-B
180 ASVW	FVI-75	6-A	FVI-81	6-A	FVI-84	6-B
240 ASVW	FVI-75	6-A	FVI-81	6-A	FVI-84	6-B
HORIZONTAL FAN & COIL SECTION - 6 ROW COIL WITH MIXING BOX						
24 ASVW	FVI-70	6-A	FVI-76	6-A	FVI-82	6-A
36 ASVW	FVI-70	6-A	FVI-76	6-A	FVI-82	6-A
48 ASVW	FVI-71	6-A	FVI-77	6-A	FVI-82	6-A
60 ASVW	FVI-72	6-A	FVI-78	6-A	FVI-83	6-B
90 ASVW	FVI-73	6-A	FVI-79	6-A	FVI-83	6-B
120 ASVW	FVI-74	6-A	FVI-80	6-A	FVI-84	6-B
180 ASVW	FVI-75	6-A	FVI-81	6-A	FVI-84	6-B
240 ASVW	FVI-75	6-A	FVI-81	6-A	FVI-84	6-B

Belt Drive Control Box

For motors with internal overload

Volt	Phase	HP	FLA	MCA	Fuse	Qty	Part Number	
115	1	1/4	5.8	10	20	1	986FF11M3M	
		1/3	7.2	15	26	1	986FF11M4M	
		1/2	9.8	15	26	1		
		3/4	13.8	20	30	1	986FF11M5M	
		1	16.4	25	35	1	98FF11M6M	
		1-1/2	20.0	25	35	1		
		2	24.0	30	30	1	98FF11M7M	
277	1	1/4	2.4	6	6	1	986FF71M2M	
		1/3	3.0	6	6	1		
		1/2	4.1	6	6	1		
		3/4	5.7	10	10	1	986FF71M3M	
		1	6.8	10	10	1		
		1-1/2	8.5	15	15	1	986FF71M4M	
		2	10.0	15	15	1		
208/230	1	1/4	2.9	6	6	2	986FF31M2M	
		1/3	3.6	6	6	2		
		1/2	4.9	10	6	2	986FF31M3M	
		3/4	6.9	10	10	2		
		1	8.2	15	10	2	986FF31M4M	
		1-1/2	10.0	15	15	2		
		2	12.0	20	15	2	986FF31M5M	
208/230	3	1/4	N/A					
		1/3	1.6	3	3	3	986FF33M1M	
		1/2	2.4	6	6	3		
		3/4	3.5	6	6	3	986FF33M2M	
		1	5.6	10	10	3		
		1-1/2	6.6	10	10	3	986FF33M3M	
		2	7.5	15	15	3		
460	3	1/4	N/A					
		1/3	0.8	3	3	3	986FF63M1M	
		1/2	1.1	3	3	3		
		3/4	1.6	3	3	3	986FF63M2M	
		1	3.7	6	6	3		
		1-1/2	3.0	6	6	3	986FF63M2M	
		2	3.7	6	6	3		



- | FEATURES |
|----------------------------|
| DISCONNECT SWITCH |
| HAND OFF AUTO (HOA) SWITCH |
| POWER FUSING |
| MOTOR CONTACTOR |
| 24V TRANSFORMER |
| LOW VOLTAGE TERMINAL BLOCK |
| FACTORY MOUNTED AND WIRED |

Belt Drive Motor Starters

Option for belt drive units requiring motor overload protection
Available for the following models:
ASHW, ASVW, AWHD,

Superior Motor Protection

Three Phase 208V, 208-230V, 460V		
HP	VOLTAGE	STARTER Part #
1/3	208-230	986C33A3M
	460	986C63A1M
1/2	208-230	986C33A3M
	460	986C63A1M
3/4	208-230	986C33A4M
	460	986C63A3M
1	208-230	986C33A4M
	460	986C63A3M
1 1/2	208-230	986C33A5M
	460	986C63A4M
2	208-230	986C33A6M
	460	986C63A4M
3	208-230	986C33A7M
	460	986C63A5M
5	208-230	986C33A9M
	460	986C63A6M
7 1/2	208-230	986C33A10M
	460	986C63A8M
1 0	230	986C33A12M
	460	986C63A9M
Three Phase 50 Hertz		
HP	VOLTAGE	STARTER Part #
1 1/2	220	986C33A6M
1 1/2	440	986C63A4M
5	220	986C33A9M
5	440	986C63A6M
7 1/2	220	986C33A11M
7 1/2	440	986C63A8M
1 0	220	986C33A12M
1 0	440	986C63A9M

208V, 208-230V, 460V NEMA 1 Enclosure





The industry standard, proven for reliability and conventional control system compatibility.

Ranges	3 phase, 200 – 600V 1-10HP
User Interface	HOA keypad with LCD display
Overload Type	Wide Range electronic Overload (class 1-30)
Standard Features	Voltage/dry contact run inputs
	Damper control
	Firemans's override input

Three Phase 575 Volt		
HP	VOLTAGE	STARTER Part #
1/2	575	986C53A1M
3/4	575	986C53A1M
1 1/2	575	986C53A2M
2	575	986C53A3M
3	575	986C53A3M
5	575	986C53A4M
7 1/2	575	986C53A5M
1 0	575	986C53A6M

575 Volt NEMA 1 Enclosure

Lockable disconnect provides superior, resettable protection without fuses

**CONTROL PANELS ARE FACTORY MOUNTED AND WIRED
PANELS ARE NOT AVAILABLE AS A FIELD MOUNTED KIT**

Specifications subject to change without notice
Prices subject to change without notice



Integrated damper control and other control features



Factory calibrated to match installed motor requirements

Ranges	3 phase, 200 – 600V 1-10HP
User Interface	HOA keypad with LCD display
Overload Type	Wide Range electronic Overload (class 1-60)
Standard Features	Voltage/dry contact run inputs
	Proof of flow-true power
	Damper control
	Firemans's override input

Thermostats and Accessories

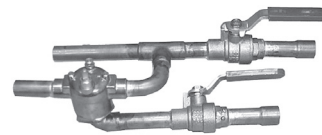
PART NO.	VOLT.	DESCRIPTION	MANUFACT.	MANUFACT. NUMBER	FOR USE WITH
T420	120/240/277	MANUAL CHANGEOVER W/3-SPEED SWITCH	SUNNE	---	AHBC SERIES, ACW, ACW-HW, ACWE
T421	120/240/277	AUTO CHANGEOVER W/3-SPEED SWITCH	SUNNE	---	AHBC SERIES, ACW, ACW-HW, ACWE
E332	120/240/277	3 SPEED WALL SWITCH WITH OFF POSITION	---	---	AHBC SERIES
E332-1	120/240/277	3 SPEED WALL SWITCH WITH ON OFF POSITION	---	---	AHBC SERIES
310-E301	120/24	RELAY/TRANSFORMER	---	---	MOST 120V FAN COILS
310-E302	220/24	RELAY/TRANSFORMER	---	---	MOST 240V FAN COILS
310-E303	277/24	RELAY/TRANSFORMER	---	---	MOST 277V FAN COILS
T4071	120/240/277	AQUASTAT	---	---	MOST 120V FAN COILS
919-1	---	EXDENDED DRIP LIP	---	---	AHBC,AHH,APHBC,ACHBC,ARHBC SERIES
T630	24	DIGITAL WALL STAT (STRAIGHT COOL ONLY)	---	---	MOST 24V CONTROL PRODUCTS
T200	24	24V, 3-SPEED WALL STAT (MANUAL)	---	---	AHBC SERIES, AHYB/APHYB, ACW, ACW-HW, ACWE
T201	24	24V, 3-SPEED WALL STAT (AUTO)	---	---	AHBC SERIES, AHYB/APHYB, ACW, ACW-HW, ACWE
SS3	24	CONDENSATE FLOAT SWITCH	---	---	VARIOUS

VALVE CLUSTERS AND INDIVIDUAL COMPONENTS:

For (AR,AP,AC) AHBC, AHH, APHH, AMB, AMB-HW, AMBE

Assembled Valve Clusters: (factory-assembled and field installed) Components are factory piped together (**order power heads separately**). Contact factory for other options.

	Right Hand	Left Hand	Description (all 1/2")
2 pipe	9VHR2BV	9VHL2BV	2-pipe, 2 hand valves only
	9VHR22B	9VHL22B	2-pipe, one 2-way valve body and 2 hand valves
	9VHR23B	9VHL23B	2-pipe, one 3-way valve body and 2 hand valves
4 pipe	9VHR4BV	9VHL4BV	4-pipe, 4 hand valves only
	9VHR42B	9VHL42B	4-pipe, one 2-way valve bodies and 4 hand valves
	9VHR43B	9VHL43B	4-pipe, one 3-way valve bodies and 4 hand valves
Power Heads: (two power heads required for 4-pipe)			
E50131180		24V	
E50132180		110V/50Hz - 120V/60Hz	
E50137180		277V	
E50138180		220V/50Hz - 230V/60Hz	
Separate Valve Bodies: (order power heads separately)			
E421213	1/2" 2-way		
E431213	1/2" 3-way		
E421317	3/4" 2-way		
E431317	3/4" 3-way		
E421417	1" 2-way		
E431417	1" 3-way		
Hand Valves: (Combination balance / shut-off) (2 usually req'd per coil)			
CP9	1/2"		
CP90	3/4"		
CP905	1"		
Circuit Setters and Strainers			
CP601	1/2" Circuit Setter (Taco)		
CP12	1/2" Circuit Setter (Bell and Gossett)		
CP603	1/2" Strainer (Kitz)		
CP6011	3/4" Circuit Setter (Taco)		
CP6031	3/4" Strainer (Kitz)		

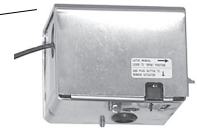


Assembled Valve Cluster (3-way)

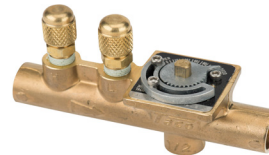


CP90

Power Head



Valve Body



circuit setter



Strainer



Strainer with blow down

VALVE CLUSTERS AND INDIVIDUAL COMPONENTS:

For ACW, ACWE, ACW-HW

	Part Number	Description
For CW and CWE	9VCWNVM	No valves, stub kit only
	9VCW2BVM	2 hand valves
	9VCW22BM	2-way , valve body, 2 hand valves
	9VCW23BM	3-way , valve body, 2 hand valves
	911-111	24V power head
For CW-HW	Heating Coil:	
	HW-2WM	2-way , valve body, 2 hand valves
	HW-3WM	3-way , valve body, 2 hand valves
	Cooling Coil:	
	9VCWH2BVM	2 hand valves
	9VCWH22BM	2-way , valve body, 2 hand valves
	9VCWH23BM	3-way , valve body, 2 hand valves
	9VCWHNVM	Stub-out lines only
	911-111	24V power head (one required for each valve cluster)

AWSVC/AWSVX VERTICAL

Water Source Heat Pump
1-1/2 thru 5 Tons

AVAILABLE WITH ENERGY SAVING ECM MOTOR

Features:

- * 100% Factory run tested.
- * All units operate with environmentally friendly R-410 refrigerant.
- * Heavy Gauge Galvanized Steel Cabinet.
- * Cabinets insulated with 3/4" Tuf-Skin RX™ treated with an anti-microbial agent.
- * Non-corrosive Thermoplastic Condensate Pan, sloped for positive drainage.
- * High and Low pressure Service Ports.
- * Refrigerant Filter-drier and Discharge Muffler.
- * Coaxial water-to-refrigerant heat exchanger.
- * Heat exchanger available in Copper or CupronNickle
- * Digital Control Module (DCM).
- * Reversible Blower
- * Multi-speed blower motor .
- * Panel-mounted FPT Water Connections.
- * High efficiency rotary or scroll compressor.
- * System reversing valve (4-way)
- * Large Removable Panels for Service access.
- * 50 VA Transformer.
- * 1" Throwaway Filter.
- * 208/230/1PH
- * Other voltages available contact factory.



* DDC controls available

DIMENSIONS (VERTICAL)			
VERTICAL MODEL	WIDTH	DEPTH	HEIGHT
009	21.5	21.5	28.25
012	21.5	21.5	28.25
018	21.50	21.50	36.25
024	21.50	21.50	36.25
030	21.50	21.50	39.25
036	21.50	21.50	39.25
040	21.50	21.50	39.25
042	21.50	26.00	43.25
048	26.00	26.00	43.25
060	26.00	26.00	43.25



AWSHC/AWSHX(E) HORIZONTAL

Water Source Heat Pump
3/4 thru 5 Tons

AVAILABLE WITH ENERGY SAVING ECM MOTOR

Features:

- * 100% Factory run tested.
- * All units operate with environmentally friendly R-410 refrigerant.
- * Heavy Gauge Galvanized Steel Cabinet.
- * Cabinets insulated with 3/4" Tuf-Skin RX™ treated with an anti-microbial agent.
- * Non-corrosive Thermoplastic Condensate Pan, sloped for positive drainage.
- * High and Low pressure Service Ports.
- * Refrigerant Filter-drier and Discharge Muffler.
- * Coaxial water-to-refrigerant heat exchanger.
- * Heat exchanger available in Copper or CupronNickle
- * Digital Control Module (DCM).
- * Multi-speed blower motor .
- * Panel-mounted FPT Water Connections.
- * High efficiency rotary or scroll compressor.
- * System reversing valve (4-way)
- * Large Removable Panels for Service access.
- * 50 VA Transformer.
- * 1" Throwaway Filter.
- * 208/230/1PH
- * Other voltages available contact factory.

* DDC controls available

DIMENSIONS (HORIZONTAL)			
HORIZONTAL MODEL	WIDTH	DEPTH	HEIGHT
06/09/012 E series	19-1/8	34.25	11-1/8
09/012	19-1/8	34-1/8	17
018	20-1/8	43-1/8	17
024-030	20-1/8	43-1/8	18-1/4
036-042	201/8	47-1/8	21
048-060	24-1/8	54-1/8	21



AWSV6 VERTICAL

Water Source Heat Pump
1-1/2 thru 10 Tons

Up to 16 EER!

Features:

- * 100% Factory run tested.
- * All units operate with environmentally friendly R-410 refrigerant.
- * Heavy Gauge Galvanized Steel Cabinet.
- * Cabinets insulated with 3/4" Tuf-Skin RX™ treated with an anti-microbial agent.
- * Non-corrosive Thermoplastic Condensate Pan on 9 through 5 ton -6 through 10 ton is galvanized coated pan, sloped for positive drainage.
- * High and Low pressure Service Ports.
- * Refrigerant Filter-drier and Discharge Muffler.
- * Coaxial water-to-refrigerant heat exchanger.
- * Heat exchanger available in Copper or CupronNickle
- * Digital Control Module (DCM).
- * Reversible Blower
- * Multi-speed blower motor .
- * Panel-mounted FPT Water Connections.
- * High efficiency rotary or scroll compressor.
- * System reversing valve (4-way)
- * Large Removable Panels for Service access.
- * 50 VA Transformer.
- * 1" Throwaway Filter.
- * 208/230/1PH
- * DDC controls available
- * Other voltages available contact factory.

DIMENSIONS (VERTICAL)			
VERTICAL MODEL	WIDTH	DEPTH	HEIGHT
009	21.50	21.50	36.25
012	21.50	21.50	36.25
018	21.50	21.50	36.25
024	21.50	21.50	36.25
030	21.50	21.50	39.25
036	21.50	26.00	43.25
040	26.00	26.00	43.25
042	26.00	26.00	43.25
048	26.00	26.00	43.25
060	26.00	26.00	51.25
072	26.00	26.00	51.25
090	32.25	40.00	74.22
120	32.25	48.25	74.12



AWSS6 VERTICAL

Water Source Heat Pump

1-1/2 thru 2.5 Tons

Features:

The Hydro-Tech Slim 16 includes many standard features found only in higher priced products, plus a number of unique features, including:

- **The smallest footprint of any product in its class ensures a perfect fit when replacing older models in tight closets.**
- **Designed to enable the reduction of the required closet space, adding square footage in new construction application.**
- **Includes a slide out chassis for better serviceability.**
- **Optional Vacated Premises Control (VPC) kit with reset feature:** Ensures that the unit will operate a minimum of one or two hours per day during extended unoccupied periods. This option also includes an automatic reset feature. If a fault occurs, the system will shut down, but then automatically reset every 24 hours. If the same fault exists each day, the unit will lockout on the fourth day and have to be manually reset.
- **Superior insulation:** High density insulation, which offers greater sound absorption and better thermal efficiency.
- **Cabinet design:** Less than 2% leak loss on the cabinet and slide out chassis.
- **Removable discharge flange:** Provides additional installation clearance.
- **Removable filter rack:** Can be installed after the unit is in the closet, providing additional installation clearance.
- **State-of-the-art Electronic Control Module With Diagnostic sight glass.**



* DDC controls available

DIMENSIONS (VERTICAL)			
VERTICAL MODEL	WIDTH	DEPTH	HEIGHT
AWSS6006	16	16	40
AWSS6009	16	16	40
AWSS6012	16	16	40
AWSS6015	16	16	40
AWSS6018	18	18	40
AWSS6024	18	18	40
AWSS6030	18	18	40

AHRCC/AHRC(X) VERTICAL High Rise

Water Source Heat Pump

3/4 thru 3 Tons - 13.0 & 14.0 EER

*(X) - ECM

Features:

- * 100% Factory run tested.
- * All units operate with environmentally friendly R-410 refrigerant.
- * Heavy Gauge Galvanized Steel Cabinet.
- * Cabinets insulated with 3/4" Tuf-Skin RX™ treated with an anti-microbial agent.
- * High and Low pressure Service Ports.
- * Refrigerant Filter-drier and Discharge Muffler.
- * Coaxial water-to-refrigerant heat exchanger.
- * Heat exchanger available in Copper or CupronNickle
- * Digital Control Module (DCM).
- * Multi-speed blower motor .
- * Slide out Chassis
- * High efficiency rotary or scroll compressor.
- * System reversing valve (4-way)
- * Stainless Steel Hoses
- * 50 VA Transformer.
- * 1" Throwaway Filter.
- * 208/230/1PH
- * Optional voltages available.
- * DDC controls available



DIMENSIONS (VERTICAL)			
VERTICAL MODEL	WIDTH	DEPTH	HEIGHT
09	19.32	19.0	88.0
012	19.32	19.0	88.0
018	19.32	19.0	88.0
024	24.32	24.0	88.0
030	24.32	24.0	88.0
036	24.32	24.0	88.0



