



FIRST CO.
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HHS-HH HHSX & HHX PHH(X) RHH(X) & CHH(X)

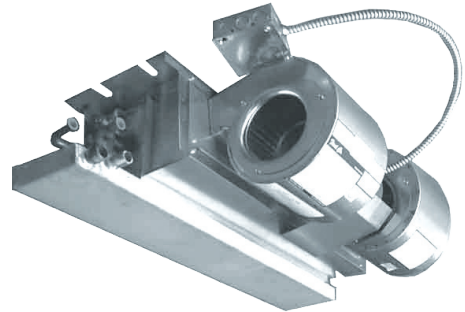
CHILLED WATER/ HOT WATER
2-PIPE WITH ELECTRIC HEAT

HORIZONTAL 300-1200 CFM

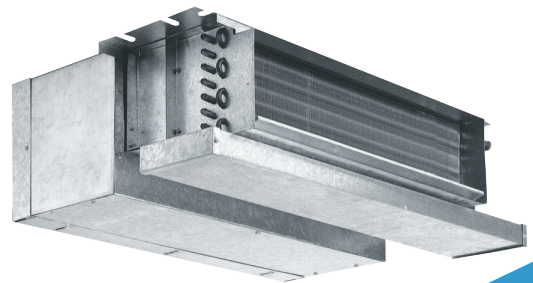
- ▶ **HHS & HH SERIES PSC Motor**
- ▶ **HHSX & HHX SERIES ECM Motor**

The ECM motor option includes 24V controls, a constant torque, permanent magnet, brushless DC motor, with 4 discrete speed taps that allow for high static applications and precise air balancing

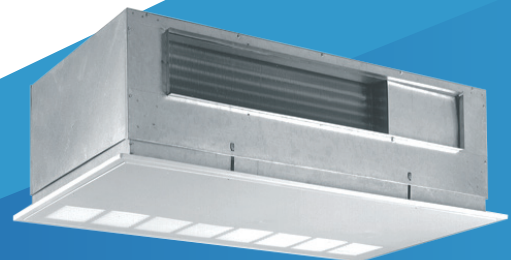
HIGH EFFICIENCY
HIGH PERFORMANCE



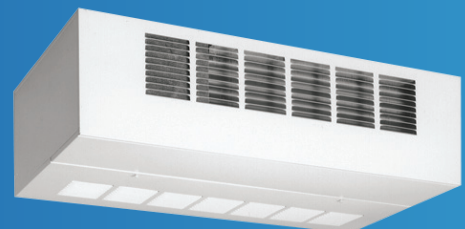
Ceiling Concealed



Ceiling Concealed with Plenum



Ceiling Recessed



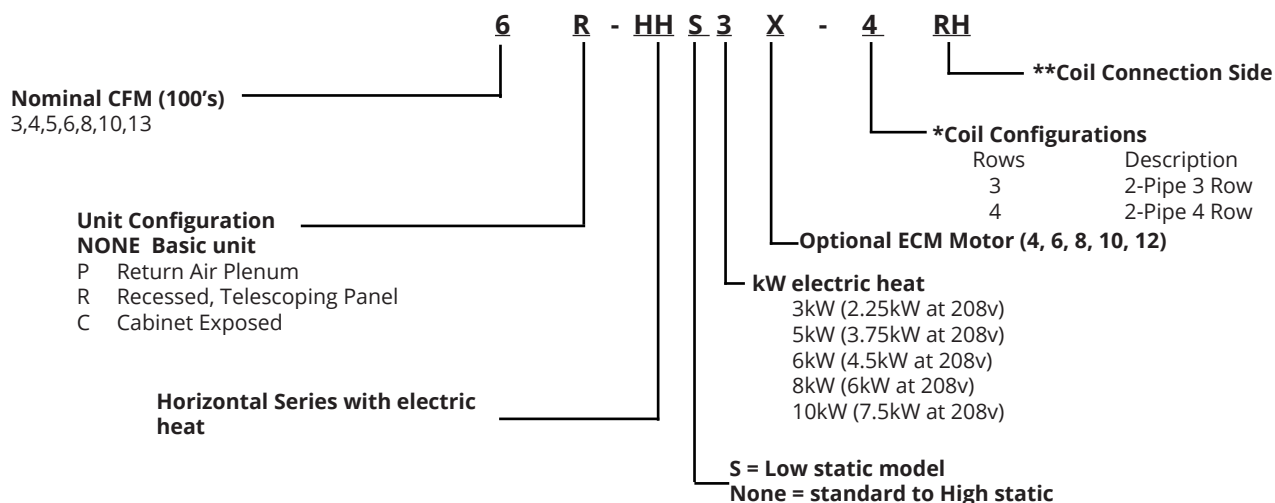
Ceiling Exposed



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MODEL NOMENCLATURE



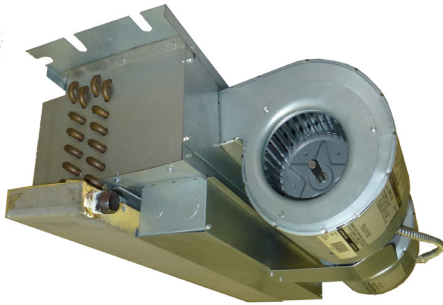
Available Voltage (PSC Motors)
208-230V/1/60
277V/1/60

Available Voltage (ECM Motors)
208/240V/1/60
277v/1/60

****Coil Connection Side**
RH Right Hand (default)
LH Left Hand
Hand connection is determined by
looking with airflow

ECM MOTOR OPTION

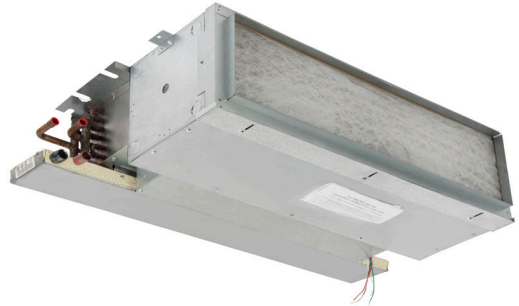
This new ECM motor option includes 24V controls, a constant torque, permanent magnet, brushless DC motor, with 4 discrete speed taps that allow for precise air balancing.



***HH(X) SERIES**

CEILING CONCEALED

The *HH series is designed for fully concealed applications. This 10" high space saving unit provides easy access for service and maintenance.



***PHH(X) SERIES**

CEILING CONCEALED WITH PLENUM

The *PHH series is designed for fully concealed applications. This 10" high space saving unit provides easy access for service and maintenance.



***RHH (X) SERIES**

CEILING RECESSED

Includes adjustable hinged access/return panel with 1" TA fiber glass filter. The cabinet allows for a field mounted rear return duct connection by using a solid access panel.



***CHH (X) SERIES**

CEILING EXPOSED

Cabinet with an attractive baked powder finish. Cabinet includes stamped discharge opening and hinged bottom panel with 1" TA fiber glass filter.

(X) Denotes with ECM motor

STANDARD FEATURES

Basic Unit

All fan coils are manufactured with heavy gauge galvanized steel to resist corrosion. All models are approved for installation with "0" clearance to combustible material.

Insulation

Plenums and cabinets are insulated with Tuf-Skin dual density fiber glass blanket insulation with an anti-microbial agent.

Ceiling Panels

Hinged access/return panels are manufactured with heavy gauge galvanized steel with captive mounting screws and an attractive white baked powder finish.

Condensate Pans

Positive sloped drain pans are galvanized steel, coated on the inside surface with insulation. Pan includes both primary and secondary drain connections.

Return Air Plenums

Return air plenums are manufactured from galvanized steel insulated with dual density fiber glass blanket insulation and a 1" TA fiber glass filter.

Coils

Constructed with seamless copper tubes and headers. The tubes are mechanically expanded into corrugated aluminum fin material for a permanent primary to secondary surface bond. Coils are tested under water at 450 PSI for operation at 300 PSI. Coils include manual air vents.

Fan Wheels-Housing

The fan wheels are double width, double inlet (DWDI) forward curved, centrifugal type. Wheels are statically and dynamically balanced for smooth, quiet operation. The housing is constructed from heavy gauge galvanized steel with die-formed inlet cones.

Motors

Motors are PSC or ECM, permanently lubricated type with internal thermal overload protection.

Options

Factory mounted options include ECM motors stainless steel drain pans, foil faced cabinet insulation, Multi-24 3-speed 24V control, valve packages, thermostats, aqua stats, service switches. 120V, 208V/230V, 277V, 60hz

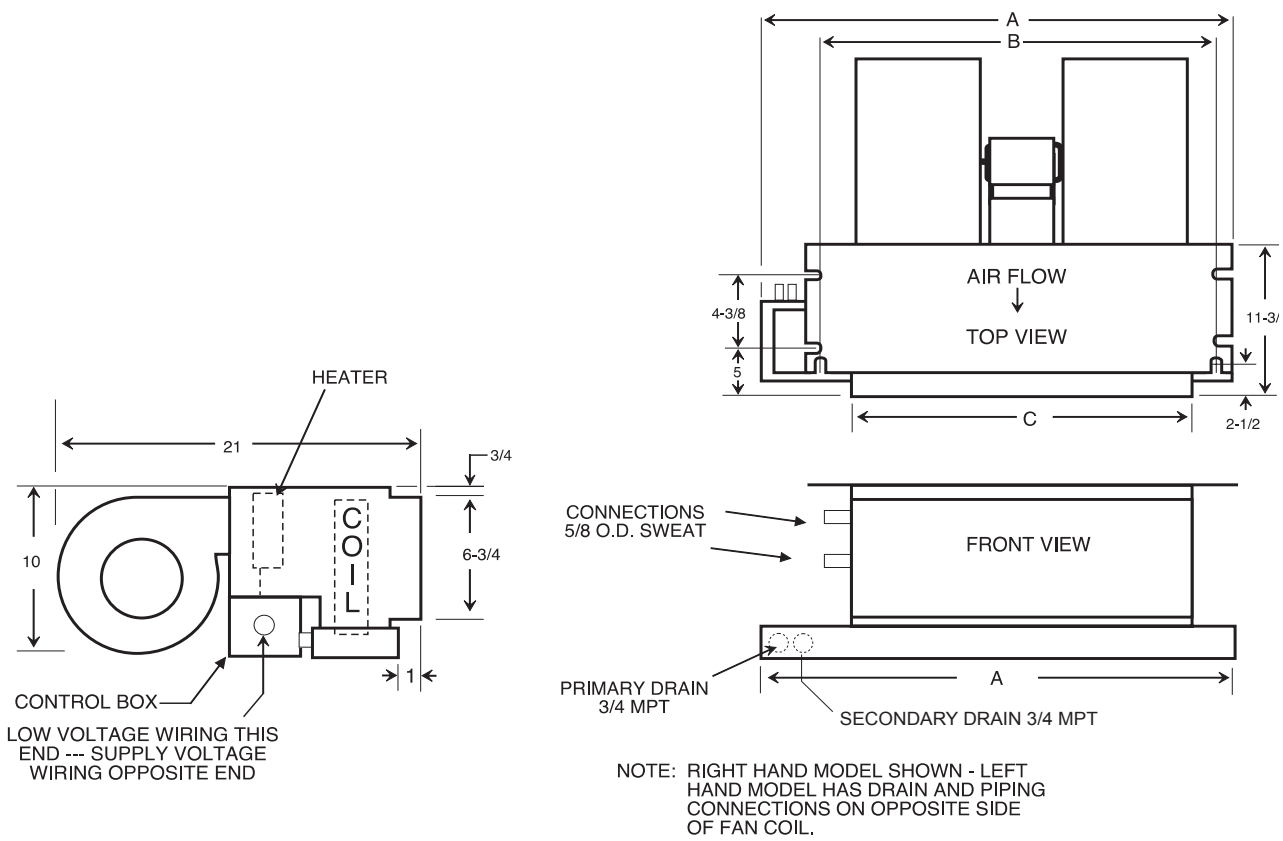


**MERV 8
Louvered Access Panels**
See page 29



*HH (X) Series

CEILING RECESSED



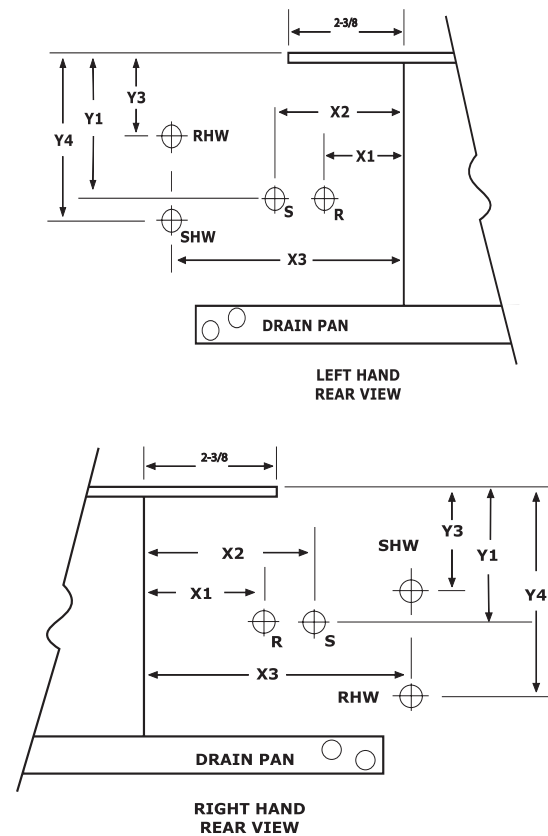
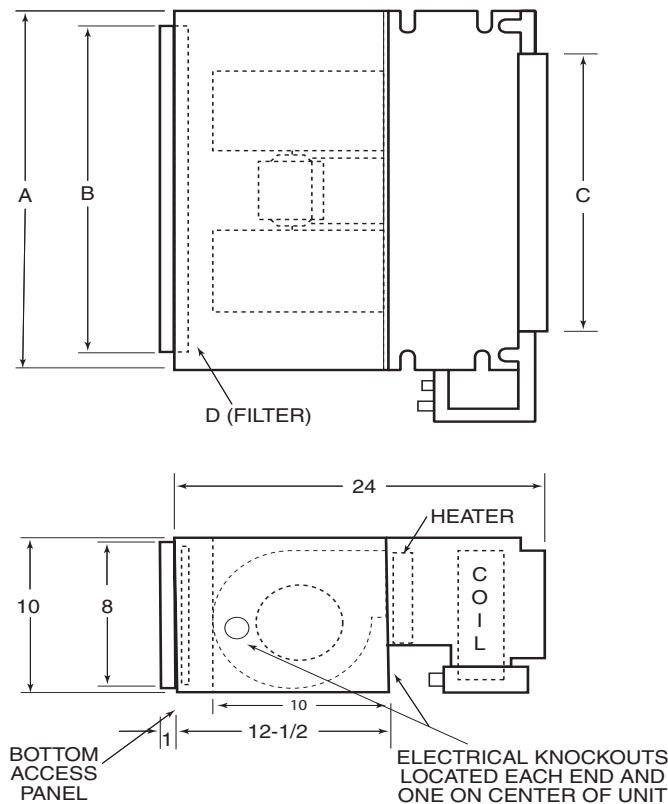
PHYSICAL DIMENSIONS (LESS PLENUM)					
MODEL	A	B	C	NUMBER OF MOTORS	NUMBER OF BLOWERS
3HHS (ECM not available)	25	19-11/16	15	1	1
4HHS(X), 6HHS(X), 6HH(X), 8HH(X)	40	34-11/16	30	1	2
10HH(X)	46	40-11/16	36	1	2
12HH(X)	52	46-11/16	42	1	2



In keeping with its policy of continuous progress and product improvement, First Operations reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.

*PHH (X) Series

CEILING RECESSED



PLENUM DATA				
MODEL	A	B	C	D (FILTER)
3PHHS (ECM not available)	20	18	15	10 X 20 X 1
4PHHS(X) 6PHHS(X) 6PHH(X) 8PHH(X)	34	32	30	10 X 34 X 1
10PHH(X)	40	38	36	10 X 40 X 1
12PHH(X)	46	44	42	10 X 46 X 1

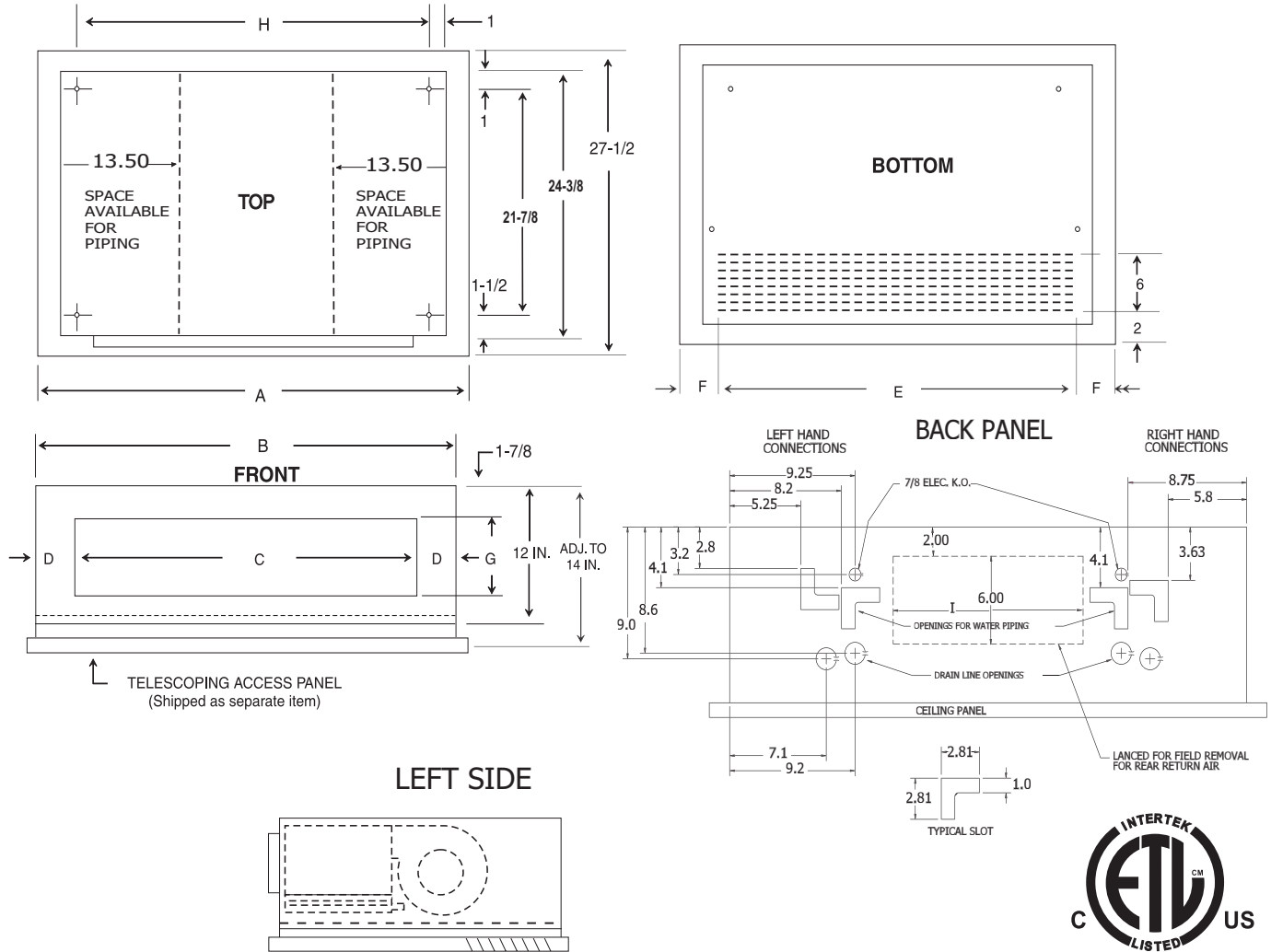
NOTE: 1. Return plenums are insulated
2. All plenums include throw away filter



In keeping with its policy of continuous progress and product improvement, First Operations reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.

*RHH(X) Series

CEILING RECESSED



NOTES:

- 1) ALL DIMENSIONS IN INCHES.
- 2) COIL CONNECTION TOLERANCE $\pm 1/4"$.
- 3) LEFT HAND UNIT SHOWN, RIGHT HAND MIRROR IMAGE.
(HAND IS DETERMINED BY FACING THE BLOWER END)

NOTES:

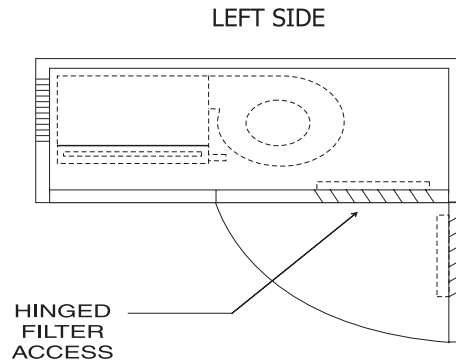
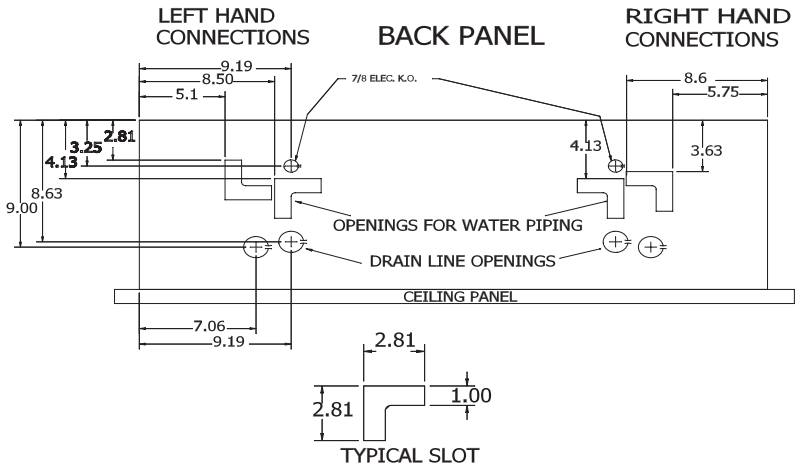
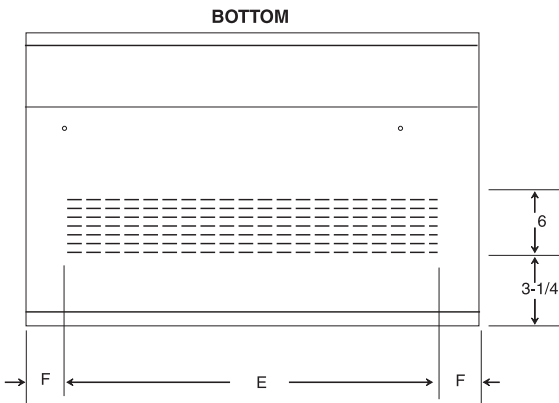
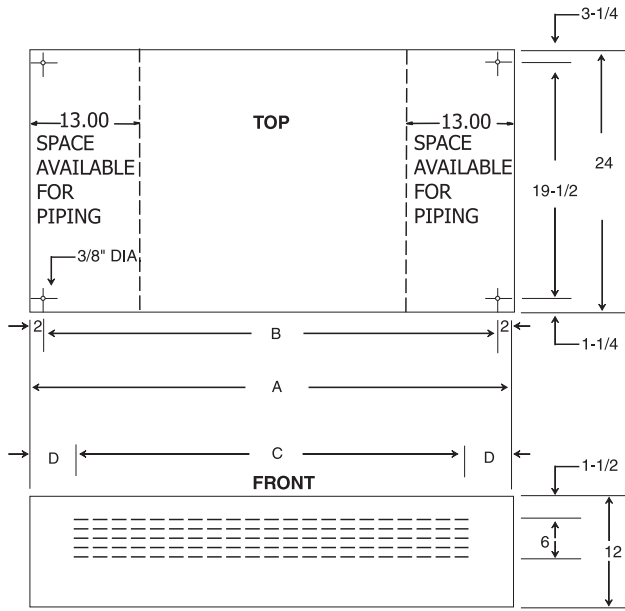
1. Telescoping panel allows the cabinet to be installed to within 2 inches of the ceiling line. The adjustable panel frame ensures a flush installation.
2. Louvered access panel (bottom return) is standard. Specify solid panel if ducted rear return air is required.

GENERAL DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	TELESCOPING LOUVERED ACCESS PANEL	TELESCOPING SOLID ACCESS PANEL	FILTER SIZE (INCL)
3RHHS (ECM not available)	41	38-1/8	29	4-1/2	36-5/8	2-3/16	5-1/2	36	14	968-1	968-1S	10 X 37
4RHHS(X)	51	48-1/8	39	4-1/2	47-1/4	1-7/8	5-1/2	46	24	968-3	968-3S	10 X 47.5
6RHHS(X) 6RHH(X) 8RHH(X)	51	48-1/8	39	4-1/2	47-1/4	1-7/8	5-1/2	46	24	968-3	968-3S	10 X 47.5
10RHH(X)	57	54-1/8	45	4-1/2	52-1/2	2-1/4	5-1/2	52	30	968-4	968-4S	10 X 53
12RHH(X)	63	60-1/8	51	4-1/2	57-7/8	2-9/16	5-1/2	58	36	968-5	968-5S	10 X 59

*CHH(X) Series

CEILING EXPOSED



NOTES:

- 1) ALL DIMENSIONS IN INCHES.
- 2) COIL CONNECTION TOLERANCE $\pm 1/4"$.
- 3) LEFT HAND UNIT SHOWN, RIGHT HAND MIRROR IMAGE.
(HAND IS DETERMINED BY FACING THE BLOWER END)

NOTES:

1. Side panels are removable for easier valve access.
2. Plastic thumb screws are provided for easy filter access.

GENERAL DIMENSIONS								
MODEL	A	B	C	D	E	F	FILTER SIZE (INCL)	CONNECTIONS PRIMARY O.D.
3CHHS(X)	33	29	21	6	25-1/2	3-1/2	10 X 30	5/8"
4CHHS(X)	48	44	37	5-1/2	41-1/2	3-1/2	10 X 46	
6CHHS(X)	48	44	37	5-1/2	41-1/2	3-1/2	10 X 46	
6CHH(X)								
8CHH(X)	48	44	37	5-1/2	41-1/2	3-1/2	10 X 46	
10CHH(X)	54	50	42-1/2	5-3/4	46-1/2	3-1/2	10 X 53	
12CHH(X)	60	56	48	6	52	4	10 X 59	

COOLING CAPACITIES

Product Specifications

Horizontal Fan Coils
2 Pipe

COOLING / HEATING CAPACITIES							
MODEL	COIL ROWS	NOM. CFM	GPM	P.D. (FT. WTR)	TOTAL (2) COOLING	SENSIBLE COOLING	WATER (3) HEATING CAPACITY
3HHS	3	270	1.0	1.4	6.1	5.1	18.9
			2.0	5.0	8.1	5.9	21.0
			3.0	10.5	8.9	6.2	21.8
	4	215	1.0	1.8	6.7	5.1	18.8
			2.0	6.3	8.4	5.7	20.5
			3.0	13.1	9.0	6.0	21.1
4HHS	3	410	1.5	4.2	11.1	8.6	32.2
			2.0	7.0	12.5	9.2	33.6
			2.5	10.5	13.5	9.5	34.5
	4	390	1.5	5.8	12.5	9.3	34.9
			2.0	9.7	14.1	9.9	36.4
			2.5	14.5	15.1	10.3	37.4
6HHS	3	535	3.0	5.7	15.3	11.3	41.1
			4.0	9.5	16.6	11.8	42.4
			5.0	14.2	17.5	12.1	43.3
	4	490	3.0	3.9	16.5	11.9	43.5
			4.0	6.5	18.0	12.5	45.0
			5.0	9.7	18.9	12.8	46.0
6HH	3	600	3.0	5.7	16.3	12.3	44.2
			4.0	9.5	17.7	12.8	45.7
			5.0	14.2	18.7	13.1	46.7
	4	600	3.0	3.9	18.2	13.7	50.1
			4.0	6.5	20.1	14.4	52.0
			5.0	9.7	21.3	14.8	53.2
8HH	3	800	4.0	5.4	19.6	15.0	54.2
			5.0	8.0	21.1	15.6	55.8
			6.0	11.0	22.1	15.9	56.9
	4	800	4.0	6.5	23.2	17.4	63.4
			5.0	9.6	24.9	18.0	65.3
			6.0	13.3	26.2	18.5	66.5
10HH	3	1000	4.0	5.5	22.9	18.1	65.5
			5.0	8.4	24.9	18.8	67.7
			6.0	11.7	26.3	19.3	69.2
	4	1000	4.0	4.3	28.6	21.5	78.3
			5.0	6.5	30.3	22.1	80.2
			6.0	9.1	31.6	22.6	81.6
12HH	3	1200	6.0	7.9	28.6	22.0	79.4
			7.0	10.5	30.0	22.5	81.0
			8.0	13.3	31.2	23.0	82.3
	4	1200	6.0	10.0	33.9	25.6	93.2
			7.0	13.1	35.6	26.2	95.1
			8.0	16.5	37.0	26.8	96.6

(1) Cooling at 80DB/67WB, 45°F EWT.

(2) Heating at 70DB/180°F EWT.

COOLING CAPACITIES

Product Specifications

Horizontal Fan Coils
2 Pipe

AIR STANDARD APPROVED RATINGS								
MODEL	COIL	CFM	GPM	P.D. (FT.WTR.)	COOLING (1000 BTUH)		POWER INPUT (WATTS)	TYPE MO- TOR
					TH	SH		
3HHS(*)-230-3	3 ROW	310	1.5	3.3	7.5	4.9	130	SP
4HHS(*)-230-3		410	2.6	12.0	12.9	8.9		PSC
4HHX(*)-230-3								ECM
6HHS(*)-230-3		590	3.1	7.0	15.4	10.5		PSC
6HH(*)-230-3		790	4.0	10.5	19.8	14.2		PSC
6HHX(*)-230-3								ECM
8HH(*)-230-3		950	4.2	6.5	21.2	16.3	320	PSC
8HHX(*)-230-3								ECM
10HH(*)-230-3		1170	5.2	10.0	26.2	20.2	398	PSC
10HHX(*)-230-3								ECM
12HH(*)-230-3		1460	6.4	9.2	32.1	24.9	490	PSC
12HHX(*)-230-3								ECM
3HHS(*)-230-4	4 ROW	275	1.7	5.0	8.5	5.1	120	SP
4HHS(*)-230-4		400	3.2	24.0	15.8	9.8		PSC
4HHX(*)-230-4								ECM
6HHS(*)-230-4		550	3.3	6.0	16.5	11.0		PSC
6HH(*)-230-4		770	4.5	9.0	22.5	15.5		PSC
6HHX(*)-230-4								ECM
8HH(*)-230-4		920	5.0	10.0	24.9	17.5	310	PSC
8HHX(*)-230-4								ECM
10HH(*)-230-4		1160	6.2	10.5	30.9	22.1	390	PSC
10HH(*)-230-4								ECM
12HH(*)-230-4		1440	8.4	18.4	42.2	30.7	485	PSC
12HHX(*)-230-4								ECM

NOTE:

Ratings based on high fan speed,
standard air at dry coil operation, 10
°F water temp. rise, ent. air 80DB,
67WB entering water at 45°F.

Rated in accordance with ARI Stan-
dard 440.

SH - sensible heat

TH - total heat

Sp - shaded pole motor

PSC - perm. split capacitor

ECM - Electrily commutated motor

Power input is for motor only

*HH (X) Series

ELECTRICAL DATA (230V)									
UNIT MODEL	NOM. CFM	Heat			TOTAL AMPS (2)	MIN. CIR. AMPACITY (MCA)		MAX. OVERCURRENT PROTECTION (MOP)	
		kW @230v	Derated kW @ 208V	BTUH @ 230V		208V	230V	208V	230V
3HHS-2	300	2	1.6	6,820	9.3	11	12	15	15
-3		3	2.5	10,230	13.5	15	17	15	20
-4		4	3.3	13,640	17.6	20	23	20	25
-5		5	4.1	17,050	21.8	24	28	25	30
4HHS-3	400	3	2.5	10,230	13.3	15	17	15	20
-5		5	4.1	17,050	21.6	24	27	25	30
-6		6	4.9	20,460	25.8	28	33	30	35
6HHS-3	600	3	2.5	10,230	14.1	16	18	20	20
-5		5	4.1	17,050	22.4	23	28	25	30
-6		6	4.9	20,460	26.6	30	34	30	35
-8		8	6.5	27,280	34.9	39	44	40	45
6HH-3	600	3	2.5	10,200	14.5	16	20	20	20
-4		4	3.3	13,640	18.6	24	21	25	25
-5		5	4.1	17,000	22.8	25	30	25	30
-6		6	4.9	20,500	27	30	35	30	35
-8		8	6.5	27,300	35.3	39	47	40	50
-10		10	8.2	34,100	43.6	48	55	50	60
8HH-3	800	3	2.5	10,200	14.5	16	20	20	20
-4		4	3.3	13,640	18.6	24	21	25	25
-5		5	4.1	17,000	22.8	25	30	25	30
-6		6	4.9	20,500	27	29	35	30	35
-8		8	6.5	27,300	35.3	39	47	40	50
-10		10	8.2	34,100	43.6	48	55	50	60
10HH-3	1000	3	2.5	10,200	14.5	16	20	20	20
-4		4	3.3	13,640	18.6	24	21	25	25
-5		5	4.1	17,000	22.8	25	30	25	30
-6		6	4.9	20,500	27	29	35	30	35
-8		8	6.5	27,300	35.3	39	47	40	50
-10		10	8.2	34,100	43.6	48	55	50	60
12HH-3	1200	3	2.5	10,200	15.3	18	20	20	20
-5		5	4.1	17,000	23.6	27	30	30	30
-6		6	4.9	20,500	27.8	31	35	35	35
-8		8	6.5	27,300	36.1	40	46	40	50
-10		10	8.2	34,100	44.5	49	56	50	60

(1) Heating ratings at 230 volt, derate 25% for 208 volt application

(2) Includes motor and heaters (at 230V)

*HH (X) Series

ELECTRICAL DATA ECM (230V)											
UNIT MODEL	NOM. CFM	Heat			MOTOR HP	MOTOR AMPS (2)	TOTAL AMPS (2)	MIN. CIR. AMPACITY (MCA)		MAX. OVERCURRENT. PROTECTION (MOP)	
		kW @230v	Derated kW @ 208V	BTUH @ 230V				208V	230V	208V	230V
3HHS-2	300	2	1.6	6,820	1/20	0.55	9.2	10	12	15	15
-3		3	2.5	10,230		0.55	13.6	15	17	15	20
-4		4	3.3	13,640		0.55	17.9	19	22	20	25
-5		5	4.1	17,050		0.55	22.3	24	27	25	30
4HHS-3	400	3	2.5	10,230	1/10	1	14.0	15	17	15	20
-5		5	4.1	17,050		1	22.7	24	28	25	30
-6		6	4.9	20,460		1	27.1	29	33	30	35
4HHS-3	400	3	2.5	10,230	1/7	1.45	14.5	16	18	20	20
-5		5	4.1	17,050		1.45	23.2	25	28	25	30
-6		6	4.9	20,460		1.45	27.5	29	34	30	35
6HHS-3	600	3	2.5	10,230	1/7	1.45	14.49347826	16	18	20	20
-5		5	4.1	17,050		1.45	23.18913043	25	28	25	30
-6		6	4.9	20,460		1.45	27.53695652	29	34	30	35
-8		8	6.5	27,280		1.45	36.2326087	38	44	40	45
6HH-3	600	3	2.5	10,230	1/2	4.2	17.24347826	19	21	20	20
-4		4	3.3	13,640		4.2	21.59130435	24	27	25	30
-5		5	4.1	17,050		4.2	25.93913043	28	32	30	35
-6		6	4.9	20,460		4.2	30.28695652	33	37	35	40
-8		8	6.5	27,280		4.2	38.9826087	42	47	45	50
-10		10	8.2	34,100		4.2	47.67826087	51	58	60	60
8HH-3	800	3	2.5	10,230	1/2	4.2	17.24347826	19	21	20	20
-4		4	3.3	13,640		4.2	21.59130435	24	27	25	30
-5		5	4.1	17,050		4.2	25.93913043	28	32	30	35
-6		6	4.9	20,460		4.2	30.28695652	33	37	35	40
-8		8	6.5	27,280		4.2	38.9826087	42	47	45	50
-10		10	8.2	34,100		4.2	47.67826087	51	58	60	60
10HH-3	1000	3	2.5	10,230	1/2	4.2	17.24347826	19	21	20	20
-4		4	3.3	13,640		4.2	21.59130435	24	27	25	30
-5		5	4.1	17,050		4.2	25.93913043	28	32	30	35
-6		6	4.9	20,460		4.2	30.28695652	33	37	35	40
-8		8	6.5	27,280		4.2	38.9826087	42	47	45	50
-10		10	8.2	34,100		4.2	47.67826087	51	58	60	60
12HH-3	1200	3	2.5	10,230	1/2	4.2	17.24347826	19	21	20	20
-5		5	4.1	17,050		4.2	25.93913043	28	32	30	35
-6		6	4.9	20,460		4.2	30.28695652	33	37	35	40
-8		8	6.5	27,280		4.2	38.9826087	42	47	45	50
-10		10	8.2	34,100		4.2	47.67826087	51	58	60	60

*HH (X) Series

ELECTRICAL DATA (277V)								
UNIT MODEL	NOM. CFM	Heat		MOTOR HP	MOTOR AMPS	TOTAL AMPS (1)	MIN. CIR. AMPACITY (MCA)	MAX. OVERCURRENT PROTECTION (MOP)
		kW	BTUH				277V	277V
3HHS-1-277	300	1	3,410	1/20	.50	4.1	6	15
-2-277		2	6,820			7.7	10	15
-3-277		3	10,230			11.3	15	15
4HHS-1-277	400	1	3,410	1/15	.52	4.1	6	15
-2-277		2	6,820			7.7	10	15
-3-277		3	10,230			11.4	15	15
-4-277		4	13,640			15	19	20
6HHS-1-277	600	1	3,410	1/15	.52	4.1	6	15
-2-277		2	6,820			7.7	10	15
-3-277		3	10,230			11.4	15	15
-4-277		4	13,640			15	19	20
6HH-1-277	600	1	3,410	1/12	.60	4.2	5	15
-2-277		2	6,820			7.8	10	15
-3-277		3	10,230			11.4	15	15
-4-277		4	13,640			15	19	20
-5-277		5	17,050			18.7	24	30
-6-277		6	20,460			22.3	28	30
8HH-1-277	800	1	3,410	1/6	.80	4.4	6	15
-2-277		2	6,820			8	10	15
-3-277		3	10,230			11.6	15	15
-4-277		4	13,640			15.2	19	20
-5-277		5	17,050			18.9	24	30
-6-277		6	20,460			22.5	28	30
-8-277		8	27,280			29.7	38	40
10HH-2-277	1000	2	6,820	1/4	1.3	8.5	11	15
-3-277		3	10,230			12.1	16	20
-4-277		4	13,640			15.8	20	20
-5-277		5	17,050			19.4	25	30
-6-277		6	20,460			23	29	30
-8-277		8	27,280			30.2	38	40
-10-277		10	34,100			37.4	47	50
12HH-2-277	1200	2	6,820	1/3	2.0	9.2	12	15
-3-277		3	10,230			12.8	16	20
-4-277		4	13,640			16.5	21	25
-5-277		5	17,050			20	25	30
-6-277		6	20,460			23.7	30	30
-8-277		8	27,280			30.9	39	40
-10-277		10	34,100			38.1	48	50

(1) Includes motor and heaters

*HH (X) Series

ELECTRICAL DATA (277V)								
UNIT MODEL	NOM. CFM	Heat		MOTOR HP	MOTOR AMPS	TOTAL AMPS (1)	MIN. CIR. AMPACITY (MCA)	MAX. OVERCURRENT. PROTECTION (MOP)
		kW	BTUH				277V	277V
3HHS-1-277	300	1	3,410	1/20	0.48	4.1	6	15
-2-277		2	6,820		0.48	7.7	10	15
-3-277		3	10,230		0.48	11.3	15	15
4HHS-1-277	400	1	3,410	1/10	0.90	4.5	6	15
-2-277		2	6,820		0.90	8.1	11	15
-3-277		3	10,230		0.90	11.7	15	15
-4-277		4	13,640		0.90	15.3	20	20
4HHS-1-277	400	1	3,410	1/6	1.40	5.0	7	15
-2-277		2	6,820		1.40	8.6	11	15
-3-277		3	10,230		1.40	12.2	16	20
-4-277		4	13,640		1.40	15.8	20	20
6HHS-1-277	600	1	3,410	1/6	1.40	5.0	7	15
-2-277		2	6,820		1.40	8.6	11	15
-3-277		3	10,230		1.40	12.2	16	20
-4-277		4	13,640		1.40	15.8	20	20
6HH-1-277	600	1	3,410	1/2	3.60	7.2	10	15
-2-277		2	6,820		3.60	10.8	14	15
-3-277		3	10,230		3.60	14.4	19	20
-4-277		4	13,640		3.60	18.0	23	25
-5-277		5	17,050		3.60	21.7	28	30
-6-277		6	20,460		3.60	25.3	32	35
8HH-1-277	800	1	3,410	1/2	3.60	7.2	10	15
-2-277		2	6,820		3.60	10.8	14	15
-3-277		3	10,230		3.60	14.4	19	20
-4-277		4	13,640		3.60	18.0	23	25
-5-277		5	17,050		3.60	21.7	28	30
-6-277		6	20,460		3.60	25.3	32	35
-8-277		8	27,280		3.60	32.5	41	45
10HH-2-277	1000	2	6,820	1/2	3.60	10.8	14	15
-3-277		3	10,230		3.60	14.4	19	20
-4-277		4	13,640		3.60	18.0	23	25
-5-277		5	17,050		3.60	21.7	28	30
-6-277		6	20,460		3.60	25.3	32	35
-8-277		8	27,280		3.60	32.5	41	45
-10-277		10	34,100		3.60	39.7	50	50
12HH-2-277	1200	2	6,820	1/2	3.60	10.8	14	15
-3-277		3	10,230		3.60	14.4	19	20
-4-277		4	13,640		3.60	18.0	23	25
-5-277		5	17,050		3.60	21.7	28	30
-6-277		6	20,460		3.60	25.3	32	35
-8-277		8	27,280		3.60	32.5	41	45
-10-277		10	34,100		3.60	39.7	50	50

HH(X) 230 VOLT PSC

BLOWER PERFORMANCE

HH SERIES		CFM vs EXTERNAL STATIC PRESSURE (3 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3HHS-3	1/30	COOL	300	270	235	205	---	---	---	---
		HEAT	265	230	210	200	---	---	---	---
4HHS-3	1/15	COOL	425	410	380	330	---	---	---	---
		HEAT	395	360	320	285	---	---	---	---
6HHS-3	1/12	COOL	605	535	485	425	---	---	---	---
		HEAT	500	390	320	270	---	---	---	---
6HH-3	1/8	COOL	---	---	805	770	735	700	665	625
		HEAT	---	---	700	970	640	610	580	550
8HH-3	1/4	COOL	---	---	895	860	825	795	760	725
		HEAT	---	---	775	750	720	690	655	625
10HH-3	1/4	COOL	---	---	1110	1075	1040	1000	955	915
		HEAT	---	---	715	695	670	645	620	600
12HH-3	1/3	COOL	---	---	1395	1345	1295	1245	1195	1145
		HEAT	---	---	950	920	890	855	820	775

HH SERIES		CFM vs EXTERNAL STATIC PRESSURE (4 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3HHS-4	1/30	COOL	255	215	200	175	---	---	---	---
		HEAT	230	200	175	150	---	---	---	---
4HHS-4	1/15	COOL	410	390	335	265	---	---	---	---
		HEAT	325	320	290	235	---	---	---	---
6HHS-4	1/12	COOL	535	490	435	365	---	---	---	---
		HEAT	350	335	320	290	---	---	---	---
6HH-4	1/8	COOL	---	---	740	705	675	640	605	565
		HEAT	---	---	650	625	600	570	535	495
8HH-4	1/4	COOL	---	---	810	780	750	715	680	645
		HEAT	---	---	730	700	670	640	610	580
10HH-4	1/4	COOL	---	---	1070	1030	995	960	930	895
		HEAT	---	---	775	750	725	700	670	640
12HH-4	1/3	COOL	---	---	1270	1215	1165	1115	1070	1025
		HEAT	---	---	950	915	880	850	820	790

*PHH / RHH / CHH 230 VOLT PSC

BLOWER PERFORMANCE

PHH / RHH / CHH SERIES 230V										
PHH/RHH SERIES		CFM vs EXTERNAL STATIC PRESSURE (3 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3PHHS-3	1/30	COOL	270	255	215	180	150	105	---	---
		HEAT	250	215	185	160	130	80	---	---
4PHHS-3	1/15	COOL	430	395	350	295	239	---	---	---
		HEAT	340	320	295	255	202	---	---	---
6PHHS-3	1/12	COOL	570	490	415	335	245	140	---	---
		HEAT	290	285	270	230	175	60	---	---
6PHH-3	1/8	COOL	820	765	710	660	615	570	530	485
		HEAT	720	673	625	575	535	495	460	415
8PHH-3	1/4	COOL	---	---	860	830	800	770	740	710
		HEAT	---	---	555	540	525	505	490	470
10PHH-3	1/4	COOL	---	---	1050	1010	965	920	875	825
		HEAT	---	---	760	735	710	675	640	600
12PHH-3	1/3	COOL	---	---	1230	1205	1165	1115	1065	1005
		HEAT	---	---	910	870	835	805	765	720

PHH / RHH / CHH SERIES										
HH SERIES		CFM vs EXTERNAL STATIC PRESSURE (4 ROW)								
MODEL	H.P.	"FAN SPEED"	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3PHHS-4	1/30	COOL	225	195	165	130	90	55	---	---
		HEAT	210	175	145	115	80	45	---	---
4PHHS-4	1/15	COOL	420	375	315	243	170	50	---	---
		HEAT	330	305	265	208	150	50	---	---
6PHHS-4	1/12	COOL	500	450	395	320	245	245	---	---
		HEAT	325	320	300	245	190	100	---	---
6PHH-4	1/8	COOL	---	---	680	645	610	570	530	490
		HEAT	---	---	645	565	485	430	395	360
8PHH-4	1/4	COOL	---	---	740	690	645	605	560	515
		HEAT	---	---	650	610	570	530	490	445
10PHH-4	1/4	COOL	---	---	990	950	915	875	840	800
		HEAT	---	---	750	725	700	675	650	620
12PHH-4	1/3	COOL	---	---	1200	1150	1110	1065	1020	975
		HEAT	---	---	900	870	840	800	760	710

*PHH / RHH / CHH 208 VOLT PSC

BLOWER PERFORMANCE

PHH / RHH / CHH SERIES 208V										
RHH SERIES		CFM vs EXTERNAL STATIC PRESSURE (3 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3RHHS-3	1/30	COOL	265	237	205	176	146	104	---	---
		HEAT	250	215	185	160	130	80	---	---
4RHHS-3	1/50	COOL	359	336	312	263	214	131	47	---
		HEAT	278	256	233	198	162	103	43	---
6RHHS-3	1/12	COOL	547	471	394	317	239	141	---	---
		HEAT	227	218	208	168	128	59	---	---
6RHH-3	1/8	COOL	779	726	673	633	592	545	498	448
		HEAT	640	592	544	510	475	435	394	348
8RHH-3	1/4	COOL	875	838	800	768	736	701	666	629
		HEAT	730	704	677	650	623	596	568	538
10RHH-3	1/4	COOL	1075	1034	993	952	911	875	839	786
		HEAT	702	679	656	631	606	579	552	511
12RHH-3	1/3	COOL	1304	1256	1208	1168	1127	1076	1025	971
		HEAT	851	813	774	738	702	671	640	605

RHH SERIES		CFM vs EXTERNAL STATIC PRESSURE (4 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3RHHS-4	1/30	COOL	220	180	162	125	93	58	---	---
		HEAT	198	170	141	109	80	43	---	---
4RHHS-4	1/50	COOL	360	319	278	214	149	48	---	---
		HEAT	---	---	224	166	108	34	---	---
6RHHS-4	1/12	COOL	489	434	379	347	249	149	48	---
		HEAT	227	210	157	84	157	---	---	---
6RHH-4	1/8	COOL	736	700	663	630	596	558	520	476
		HEAT	641	585	529	486	443	399	355	301
8RHH-4	1/4	COOL	834	779	723	684	645	600	555	502
		HEAT	710	659	607	568	529	491	453	408
10RHH-4	1/4	COOL	1025	991	956	922	887	847	807	770
		HEAT	687	664	640	619	597	579	561	537
12RHH-4	1/3	COOL	1284	1233	1182	1133	1084	1036	988	941
		HEAT	832	796	760	731	702	671	640	605

*RHH 277 VOLT PSC

BLOWER PERFORMANCE

RHH SERIES		CFM vs EXTERNAL STATIC PRESSURE (3 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3RHHS-3	1/20	COOL	265	235	205	170	---	---	---	---
		HEAT	230	195	165	135	---	---	---	---
4RHHS-3	1/15	COOL	530	465	415	365	---	---	---	---
		HEAT	445	390	335	280	---	---	---	---
6RHHS-3	1/15	COOL	525	445	375	300	---	---	---	---
		HEAT	425	370	305	225	---	---	---	---
6RHH-3	1/12	COOL	---	---	565	515	470	420	375	---
		HEAT	---	---	445	400	360	---	---	---
8RHH-3	1/6	COOL	---	---	745	715	690	665	650	635
		HEAT	---	---	660	630	600	570	535	495
10RHH-3	1/4	COOL	---	---	990	950	910	870	830	795
		HEAT	---	---	870	830	795	765	730	700
12RHH-3	1/3	COOL	---	---	1305	1260	1220	1185	1145	1100
		HEAT	---	---	1180	1140	1105	1070	1030	990

RHH SERIES		CFM vs EXTERNAL STATIC PRESSURE (4 ROW)								
MODEL	H.P.	FAN SPEED	EXTERNAL STATIC PRESSURE (inches of water)							
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35
3RHHS-4	1/20	COOL	230	215	180	160	---	---	---	---
		HEAT	205	180	150	125	---	---	---	---
4RHHS-4	1/15	COOL	490	420	360	295	---	---	---	---
		HEAT	415	365	310	230	---	---	---	---
6RHHS-4	1/15	COOL	485	410	330	250	---	---	---	---
		HEAT	420	345	280	210	---	---	---	---
6RHH-4	1/12	COOL	---	---	560	525	490	455	415	370
		HEAT	---	---	480	445	415	380	350	---
8RHH-4	1/6	COOL	---	---	660	610	565	520	470	415
		HEAT	---	---	585	535	490	445	395	350
10RHH-4	1/4	COOL	---	---	925	890	860	830	795	765
		HEAT	---	---	820	790	765	740	710	680
12RHH-4	1/3	COOL	---	---	1190	1145	1105	1065	1030	995
		HEAT	---	---	1070	1030	995	960	920	885

HHX 230 VOLT PSC

BLOWER PERFORMANCE

HHX Series 230V													
MODEL	MOTOR HP	SPEED TAP											
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
3HHSX	1/20	Optional High	323	303	289	275	239	228	216	204	190	176	163
		Std. High	263	247	215	204	194	181	171	161	150	---	---
		Std. Low	218	199	186	172	158	---	---	---	---	---	---
4HHSX	1/7 or 1/10	Optional High	443	400	379	362	341	327	311	298	---	---	---
		Std. High	365	343	320	302	278	260	217	199	---	---	---
		Std. Low	293	260	233	211	187	166	---	---	---	---	---
6HHSX	1/7	Optional High	635	595	565	540	515	495	475	---	---	---	---
		Std. High	595	545	515	490	465	445	425	---	---	---	---
		Std. Low	490	450	415	385	360	335	310	---	---	---	---
6HHX	1/2	Optional High	776	750	724	704	684	668	653	632	612	578	545
		Std. High	649	624	599	579	559	540	521	500	480	465	449
		Std. Low	559	525	490	472	453	437	422	397	372	348	324
8HHX	1/2	Optional High	886	849	812	780	749	712	676	641	607	571	535
		Std. High	834	810	786	760	735	701	668	635	603	567	530
		Std. Low	731	703	676	652	628	607	586	567	549	528	506
10HHX	1/2	Optional High	1245	1222	1199	1182	1166	1144	1122	1078	1034	986	939
		Std. High	1147	1122	1097	1079	1061	1042	1023	1007	990	956	921
		Std. Low	962	939	916	897	878	856	834	818	802	782	761
12HHX	1/2	Optional High	1333	1314	1295	1275	1255	1238	1222	1204	1187	1169	1151
		Std. High	1237	1214	1191	1172	1154	1137	1120	1102	1085	1067	1049
		Std. Low	1080	1062	1043	1030	1017	1009	1000	964	927	909	891

HHX 277 VOLT PSC

BLOWER PERFORMANCE

HHX Series 277V													
MODEL	MOTOR HP	SPEED TAP											
			0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
3HHSX	1/20	Optional High	353	333	319	305	269	258	246	234	220	206	193
		Std. High	293	277	245	234	224	211	201	191	180	169	159
		Std. Low	248	229	216	202	188	177	165	153	140	129	---
4HHSX-277	1/6	Optional High	480	448	415	389	359	336	307	---	---	---	---
		Std. High	433	400	366	331	302	277	249	---	---	---	---
		Std. Low	369	325	279	256	228	200	139	---	---	---	---
4HHSX-277	1/10	Optional High	473	430	409	392	371	357	341	328	---	---	---
		Std. High	395	373	350	332	308	290	247	229	---	---	---
		Std. Low	323	290	263	241	217	196	176	149	---	---	---
6HHSX-277	1/6	Optional High	628	591	561	531	511	492	467	---	---	---	---
		Std. High	544	500	467	438	419	390	358	---	---	---	---
		Std. Low	434	390	352	318	286	274	219	---	---	---	---
6HHX-277	1/2	Optional High	818	791	764	743	722	702	682	662	641	615	589
		Std. High	686	658	630	607	583	564	544	522	499	476	453
		Std. Low	601	569	537	509	481	461	441	416	391	368	345
8HHX-277	1/2	Optional High	931	887	843	814	784	750	717	684	652	616	580
		Std. High	885	858	831	807	784	759	734	696	658	628	598
		Std. Low	772	744	715	691	666	650	633	614	595	573	552
10HHX-277	1/2	Optional High	1268	1243	1219	1199	1179	1161	1143	1115	1087	1035	982
		Std. High	1168	1144	1120	1099	1079	1059	1039	1016	992	974	956
		Std. Low	988	963	938	917	896	864	832	824	815	796	776
12HHX-277	1/2	Optional High	1334	1305	1276	1253	1230	1202	1175	1154	1133	1110	1086
		Std. High	1334	1305	1276	1253	1230	1202	1175	1154	1133	1110	1086
		Std. Low	1218	1186	1154	1133	1112	1086	1060	1030	1000	973	946

GUIDE SPECIFICATIONS

Part 1 — General

1.01 SECTION INCLUDES

- A. Fan Coil Units

1.02 REFERENCES

- AMCA 99 – Standards Handbook
- AMCA 210 -- Laboratory Methods for Testing Fans for Rating Purposes
- AMCA 300 – Test Code for Sound Rating Air Moving Devices
- ARI 440 – Room Fan-Coil Unit
- ASTMB117 – Standard Practice for Operating Salt Spray Apparatus
- NEMA MGI – Motors and Generators
- NFPA 70 – National Electric Code
- SMACNA – HVAC Duct Construction Standards – Metal and Flexible
- UL 723 – Test for Surface Burning Characteristics of Building Materials
- UL 900 – Test Performance of Air Filter Units
- UL 1995 – Standard for Heating and Cooling Equipment
- UL 94 – Test for Flammability of Plastic Materials for Parts in Devices and Appliances

1.03 SUBMITTALS

- A. Shop drawings: Indicate assembly, unit dimensions, weight loading, required clearances, construction details, field connection details, and electrical characteristics and connection requirements. A computer generated capacity selection shall be submitted for each cooling coil with design points and final operating point clearly noted.
- B. Product Data:
 - 1. Provide literature that indicates dimensions, weights, capacities, ratings, fan performance, finishes of materials, and electrical characteristics and connection requirements.
 - 2. Provide data of filter media, filter performance data.
 - 3. Manufacturer's installation instructions.

1.04 OPERATION AND MAINTENANCE DATA

- A. Maintenance Data: Include instructions for lubrication, filter replacement and motor and drive replacement.

1.05 QUALIFICATIONS

- A. Maintenance Data: Include instructions for lubrication, filter replacement and motor and drive replacement.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Accept products on site on factory-installed shipping skids. Inspect for damage.
- B. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Do not operate units for any purpose, temporary or permanent, until ductwork is clean, filters are in place, and fan has been test run under observation.

GUIDE SPECIFICATIONS (CONT.)

Part 2 — Products

2.01 MANUFACTURERS

A. The following manufacturers are approved for use. No substitutions will be permitted.

1. First Company, Dallas TX

2.02 CASING

A. Unit shall have corrosion resistant casing consisting of galvanized steel panels. Unit panels shall be fully insulated with 1.5lb fiberglass insulation with anti-microbial agent. Removable panels shall provide full access to unit components..

B. Drain pans shall be heavy gauge galvanized steel with an insulating coating. Optional stainless steel drain pan shall include an insulating coating. Drain pans shall be removable for cleaning or replacement without removing coils or disturbing coil connections.

2.03 SUPPLY FAN

A. Provide DWDI forward-curved supply fans. Fan assemblies shall be statically and dynamically balanced by manufacturer. The housings are constructed from heavy gauge galvanized steel with die-formed inlet cones.

B. Fan and motor mounting platform shall be a minimum of 12 gauge LFQ galvanized steel.

2.04 MOTORS

A. Direct drive motors to be PSC or ECM type, permanently lubricated type with internal thermal overload protection and mounted with rubber isolation bushings.

2.05 ELECTRICAL

A. Provide units with 115, 208-230, or 277V, 3-speed with 24v control transformer, and 15 amp service switch or optional ECM motor with 120/24V control transformer, 15 amp service switch, 4 speed taps. Controls to be factory mounted and tested.

2.07 COOLING AND HEATING COIL SECTIONS

A. Provide access to coils for service and cleaning..

B. Water Coils: fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Tubes shall be mechanically expanded into the fins to provide a continuous primary-to-secondary compression bond over the entire finned length for maximum heat transfer rates. Bare copper tube shall not be visible between fins. Coil tubes shall be seamless copper, expanded into fins, and brazed at joints. Coil connections shall be copper with sweat connection size to be determined by manufacturer based upon the most efficient coil circuiting. Manual air vent connections shall be provided at the highest point to assure proper venting. Coils shall be tested with 350 pounds air pressure and suitable for 300 psig working pressure. Coil casings shall be a formed channel frame of galvanized steel.

2.08 FILTERS

A. Filter to be disposable type and media shall be UL 900 listed, Class I or Class II.

Part 3 — Execution

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.



ACCESS PANELS /FILTER



*STANDARD PANEL OPTIONS FOR HBC SERIES					*IAQ MERV 8 PANEL OPTIONS FOR HBC SERIES				
PART #	UNIT SIZE	PANEL TYPE	FRAME DIMENSIONS	*FILTER SIZE	PART #	UNIT SIZE	PANEL TYPE	FRAME DIMENSIONS	*FILTER SIZE
965	3,4,5,6	LOUVERED	27-1/2 X 43	20X20X1 (1)	965-M8	3,4,5,6	LOUVERED	27-1/2 X 43	20X30X1 (1)
965-1		SOLID							
966	8	LOUVERED	27-1/2 X 49	20X20X1 (1)	966-M8	8	LOUVERED	27-1/2 X 49	20X20X1 (2)
966-1		SOLID							
967	10	LOUVERED	27-1/2 X 55-1/2	20X20X1 (1)	967-M8	10	LOUVERED	27-1/2 X 55-1/2	20X20X1 (2)
967-1		SOLID							
967-4	12/13	LOUVERED	27-5/8 X 70-1/8	10X65X1 (1)	967-8M8	12/13	LOUVERED	27-5/8 X 70-1/8	20X30X1 (2)
967-5		SOLID							

NOTE: * Filters not included

IAQ PANEL PERFORMANCE DATA (4) (Clean Filter)										
	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1500
965-M8 with AF20301HV (20x030, Merv 8) Filters (2)	0.04	0.06	0.06	0.08	0.09	0.10	---	---	---	---
966-M8 with AF20201HV (20x020, Merv 8) Filters (2)	0.04	0.06	0.06	0.08	0.09	0.10	---	---	---	---
967-M8 with AF20201HV (20x020, Merv 8) Filters (2)	---	0.05	0.05	0.07	0.08	0.10	---	---	---	---
967-6-M8 with AF20251HV (20x025, Merv 8) Filters (2)	---	---	---	0.05	0.06	0.07	0.08	0.09	---	---
967-8-M8 with AF20301HV (20x30, Merv 8) Filters (2)	---	---	---	---	---	0.06	0.06	0.08	0.08	0.10

NOTES:

- (1) The above is the actual laboratory test data on these panels.
- (2) Glassfloss® Industries HV series Merv 8 filters were used to generate above data (**filters must be field supplied**)
- (3) Alternate Merv 8 filters would be acceptable provided they have equal or less resistance.
- (4) Refer to fan coil specification sheets for fan coil blower data.

ACCESSORIES

VALVE PACKAGES AND ACCESSORIES

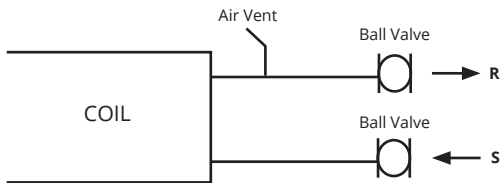
ACTUATOR		 2-Way Valve and Actuator	ACTUATOR MATERIALS				
2-POSITION (ON-OFF) 50/60HZ			BASE		POLYCARBONATE	APPROVALS	
VOLTAGE	PART #		COVER		POLYCARBONATE	ETL Cul CE	
24V	E50131180		BASE PLATE		ALUMINUM		
120/1/60	E50132180		LEAD LENGTH		6" - (24V 18")		
230/1/60	E50138180		POWER REQUIREMENTS		6.5W, 7 VA		
277/1/60	E50137180		AMBIENT TEMPERATURE RANGE		32 TO 170 F		
			MICRO SWITCH		5 A, 250 V		
		HUMIDITY		95% NON-CONDENSING			
VALVE BODY MATERIALS			VALVE BODIES (2-POSITION)				
BODY		BRASS	E43XXXX 3-WAY		E42XXXX 2-WAY		
STEM		STAINLESS STEEL					
TWO O-RINGS SEALS		EPDM					
PADDLE		EPDM					
FLUID		WATER/GLYCOL					
MAXIMUM % OF GLYCOL		50%	VALVE PACKAGE ACCESSORIES				
TEMPERATURE RANGE		32 TO 230	Automatic Fixed Flow Control			Manual Adj. Flow Setter	
MAXIMUM STATIC PRESSURE		300 PSI	1/2"	3/4"		1/2" 3/4"	
SWEAT CONNECTION		1/2", 3/4", 1"	CP654XXXXX	CP655XXXXX		CP601 CP6011	
FLOW CHARACTERISTICS			PETE'S PLUG	Requires CP6025 CP61712			
Conne- ction Size	Flow Coefficient	Maximum Close-Off Pressure AP	Ball Valves (Sweat)			Y-Strainer (Sweat)	
1/2"	1.0 Cv	75	Full Port (T-Handle)				
1/2"	2.5 Cv	50	1/2"	3/4"	1"	1/2" 3/4"	
3/4"			CP-9	CP-90	CP-905	CP603 CP6031	
1/2"	3.5 Cv	30					
3/4"							5 Cv
3/4"	7.5 Cv	20					
1"							8 Cv
3/4"	EXTENDED DRIP LIPS	919-1 15"					
1"		919-1X1ss 15"					
1"		919-1EXT 19"					
STANDARD VALVE PACKAGE FACTORY MOUNTED 2-POSITION (ON-OFF)							
2-WAY 9VH*22BM WITH 2-BV'S				3-WAY 9VH*23BM WITH 2-BV'S			
T4071 5/8 T4072 7/8 Auto Changeover Requires Aguastat (2-pipe applications)				Strap-on Aquastat 5/8" O.D. Tubing 10 amps induction 60 amps locked rotor 25 amps resitive Temperature Changes at 95° F + 10° F Resets at 65° F + 5° F			

PIPING PACKAGE OPTIONS

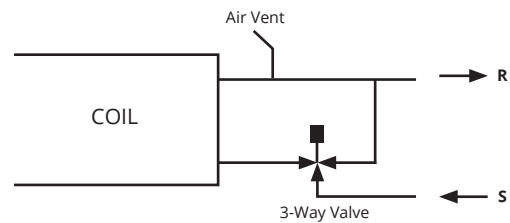
TWO POSITION OR MODULATING

Manual air vents are standard and are factory mounted on all chilled water and hot water coils.
All pre-piped on/off or modulating valve packages are factory assembled with sweat connections.

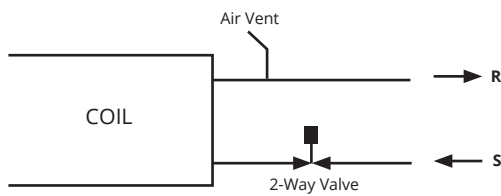
Ball Valves only, No Control Valve



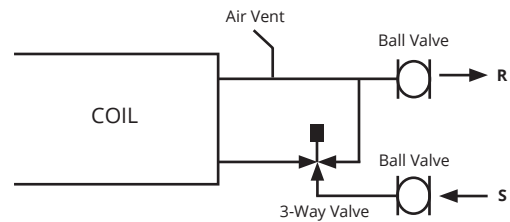
3-Way Valve, No Ball Valves



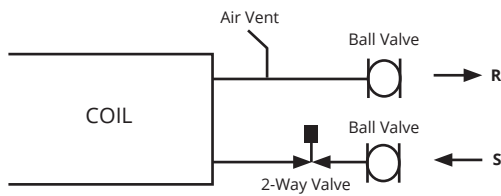
2-Way Valve, No Ball Valves



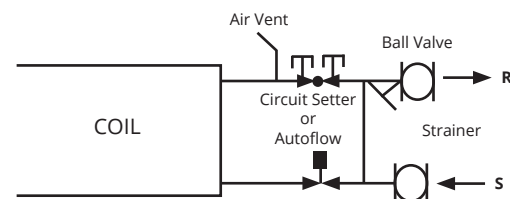
3-Way Valve, with 2-Ball Valves



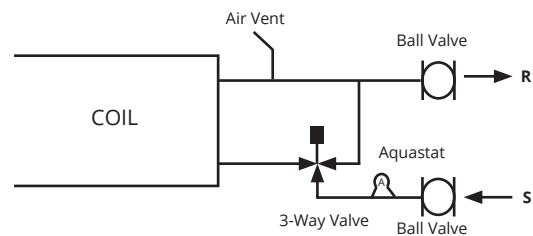
2-Way Valve with 2-Ball Valves



3-Way Valve, with 2-Ball valve and Manual Circuit Setter or Automatic Flow Control, Y-Strainer, PT's



3-Way Valve with 2-Ball Valves and Aquastat



Add Options:

Y-Strainers, Pete's Plugs, Cleanout Blow-down, SS hose kits, Aquastats

Additional options and configurations may be available. Contact factory for availability.

Valve packages are available as kits or factory mounted on certain products. Contact factory for availability.